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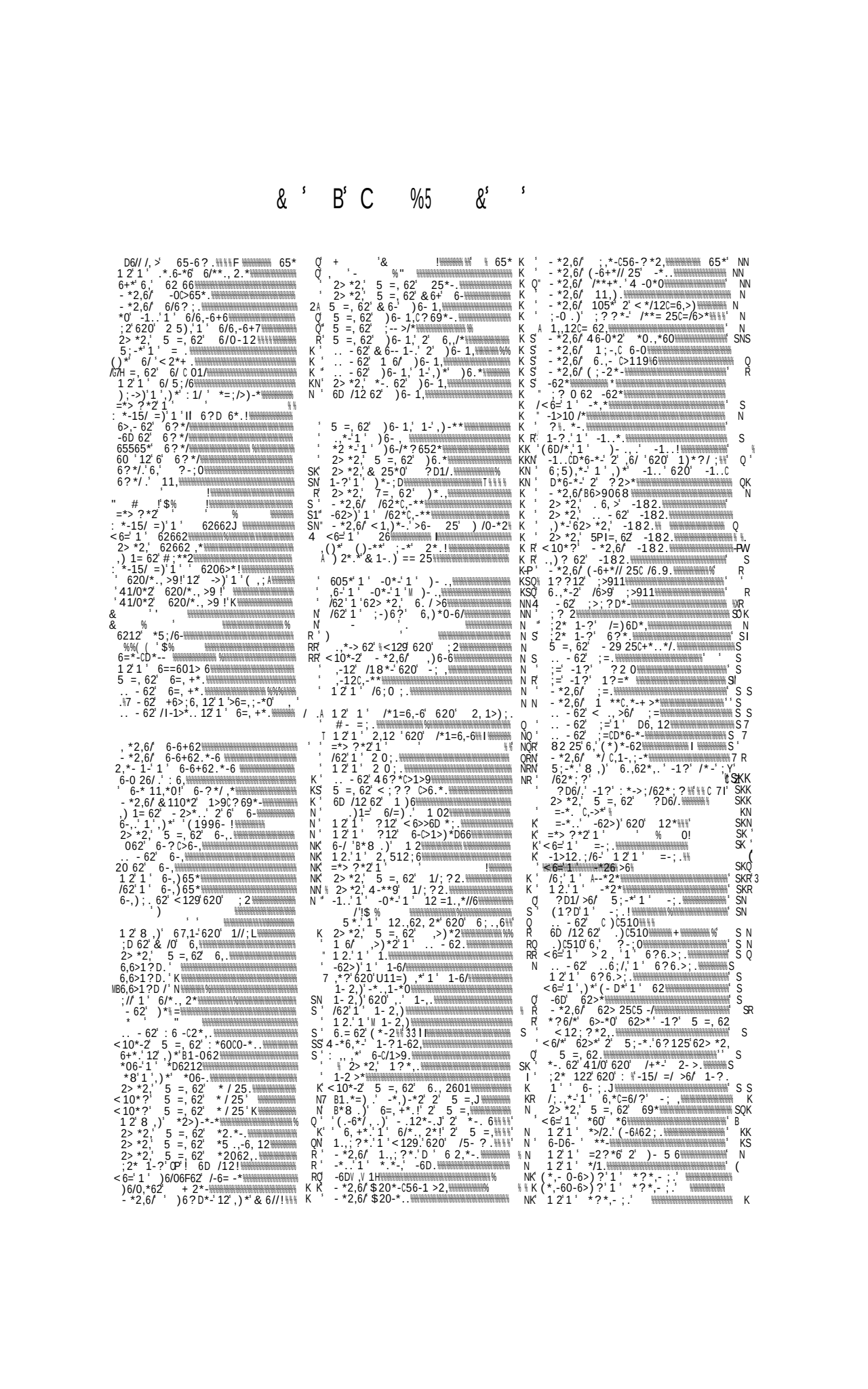
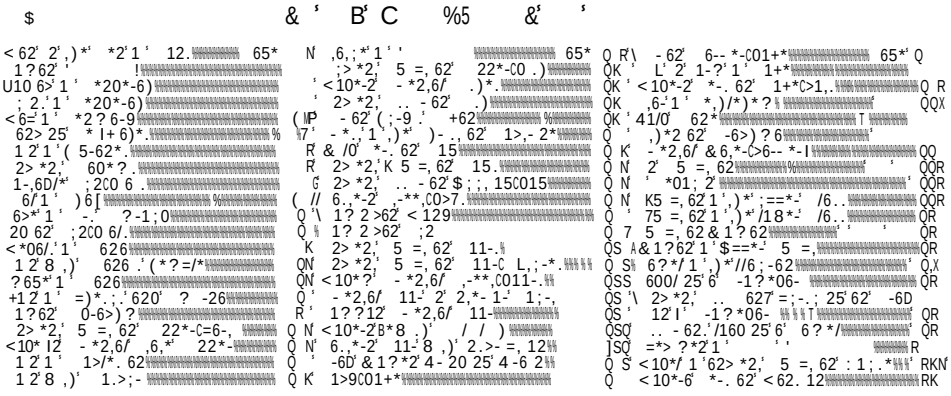




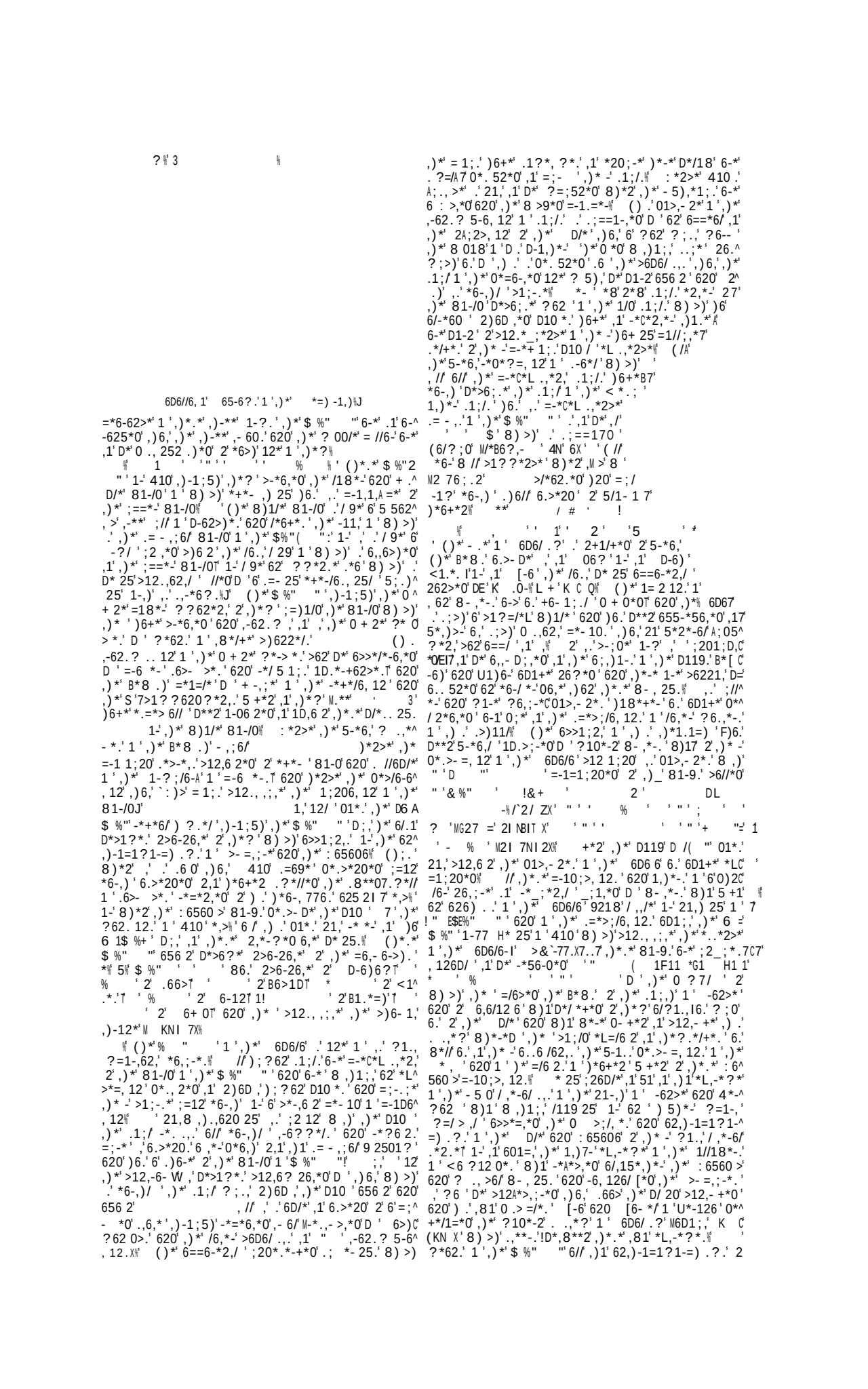
( ) *ʾ 1,) *-ʾ 620ʿ ʔ1-*ʾ ʔ=1-,62,ʾ >6D6/ ., >ʾ ,*L,ʾ .ʾ,) *ʾ > * / * D - 6 , * 0 I7 H$ %" " /=. " ʾ -1ʔʾ 62℅ L ʾ NXʾ -.,ʾ=- 2,*0ʿ 6,ʾ -*ʔ126ʿ 620ʿ < 62^ , ; 6ʿ 2ʾ S ʾ 620ʿ . 2>*ʾ 1 ,*2ʾ -*=- 2,*0ʿ 6.ʾ 6,ʾ ;/[D6>)ʾ 2ʾ SQ ʾ 1/℅ʾ 8 ,)ʾ +6- 1; .ʾ 600 , 12.℅ (-60 , 12ʾ 6.^ >- D*.ʾ,) .ʾ 81-9ʿ,1ʾ 6ʾ >12,*ʔ=1-6- ʾ1ʾ ℅ 9 D6ʾ26ʔ*^ / ʾ ℅ ?*12ʾ *2ʾ B1>)6 ʾ 6ʾ,*6>)*-ʾ ?;>)ʾ =-6 .*0ʿ 2ʾ ,) *ʾ (6/? ; 0ʾ 1-ʾ) .ʾ5-*6,ʾ8 .01ʔ620ʿ/*56/9218/*05*ʾ 6/.,)1;5)ʾ21,,) 25ʾ .ʾ,)*-*ʾ.6 0ʿ0 -*>,/ ʾ1ʾ) .ʾ 8- , 25.℅ 2>-*0;/1;.ʾ >- , > .ʔʾ >12. 0*-.ʾ ,ʾ6.ʾ 6ʾ =-10;>, 12ʾ 1ʾ ,) *ʾ,) -,**2.,)ʾ >*2.;- ʾ ,)*ʾ , ʔ*ʾ1ʾ ,.ʾ -.,ʾ6==*6-62>*ʾ 2ʾ ,)*ʾ) .1;-ʾ1ʾ/ ,*-6,;-*ʾ620ʿ6.>-D*.ʾ ,ʾ,1ʾ6ʾ =62 .)ʾ B*8ʾ <1.*.ʾ1ʾ *12℅ ,ʾ6==*6-.ʾ)18*+*-℅,1ʿD*ʾ1/0*-ʾ ,)62ʾ,) . ʾ)6+ 25ʾ=-1D6D/ ʾ1- 5 26// ʾ6==*6-*0ʾ=*>*^ ʔ*6/ 2ʾ,)*ʾ 6.,ʾ6,ʾ 2,*-+6/.ʾ,)*ʾ 8)1/*ʾD* 25ʾ>1?^ =/*,*0ʿ 2ʾ,.ʾ =-*.*2,ʾ 1-ʔʾ 6D1;ʾ,)*ʾ * 5),)ʾ >*2,;- ℅ ,ʾ 2>/;0*.ʾ>*-,6 2ʾ.=*>6// ',1ʾ0*+*/1=ʾ) .ʾ 182ʿ.*2, ^ ʔ*2,. ʾ620ʿ8) >)ʾ 1-ʔʾ.1ʾ,1ʾ.=*69ʾ,)*ʾ9*-2*/1ʾ,)*ʾ .>*2>*ʾ.1;5),ʾ,1ʾD* ʔ=6-,*0℅ ()-*ʾ* 1ʾ,)*.*ʾ6-*ʾ 0*. 526,*0ʿD ʾ=6-, >;/6-ʾ=6ʔ*.ʾ>-" ʾ; +ʾ ʾ 1ʾ 620ʿ,)*ʾ ʔ ʾ620ʿ ʾ 1ʔ ,)*ʾ=1=;/6-ʾ0 .^ , 2>, 12ʾ ?60*ʾ D ʾ,)*ʾB*8 .ʾ)18*+*-ʾD*,8**2ʾ6ʾ5-*6,ʾ 620ʾ6ʾ.ʔ6//U1)6-ʾ.1?*, ?*ʾ.-* *-.ʾ,1ʾ,)*ʾ+6-7025ʾ ;/^ 2*..ʾ1ʾ,)*ʾ*0 , 12.ʾ ?*-*/ ℅ **2 ʾ !

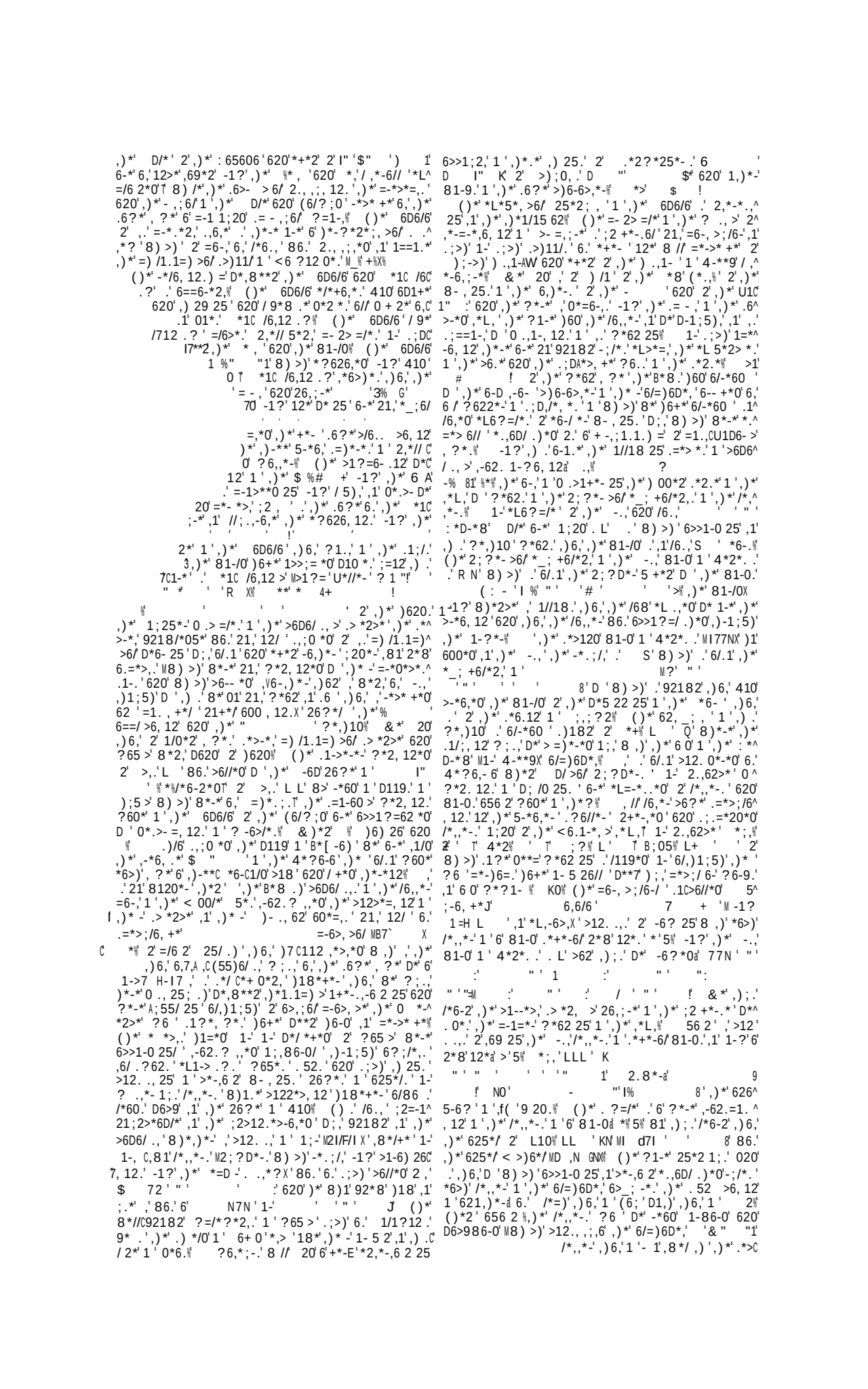
℅ @ ʾ ʾ ! ' ( )*.*ʾ 6-*ʾ .1?*8)0 *-*2,/ ʾ*L=1;20*0ʿ 2ʾ,)*ʾ 6D1+*C26?*0ʿD119.ʾ M,1ʾ ,)*ʾ .*=6-6,*ʾ 6-, >/*.ʾ 12ʾ8) >)ʾ,)*ʾ-*60*-ʾ .ʾ,)*-* 1-*ʾ -* *--*0ʿ 1-ʾ ;//ʾ=6-, >;/6-.X ʾ620ʿ?1.,ʾ6,ʾ/6-5*ʾ 2ʾ,)*ʾ /6,,*-℅ ()*ʾ 1//18 25ʾ)18*+*-ʾ .ʾ6ʾ.;-1?6- I1ʾ,)*ʾ >6D6/ ., >ʾ + *8.ʾ6.ʾ *L=-*..*0ʿ 2ʾ,)*ʾ5*2*-6/ʾ8- , 25.ʾ 1ʾ/6,*-ʾ6;,)1-.ʾ1ʾ,)6,ʾ.>)11/a

ʾ 7 ʾ ʾ " ʾ ʾ ! ' 410ʾ .ʾ 6D1+*ʾ *+*- ,) 25ʾ *+*2ʾ6D1+*ʾD* 25ʾ620ʿ,) 29 25℅ ,ʾ>6221,ʾ,)*-* 1-*ʾ D*ʾ .6 0ʿ1ʾ) ?ʾ,)6,ʾ)*ʾ)6.ʾ* ,)*-ʾ6ʾ8 //ʾ 2,*2, 12ʾ0*^ . -*ʾ),)1;5),ʾ/625;65*ʾ1-ʾ 6>, 12ʾ. 2>*ʾ,)*.*ʾ =-1=*-^ ,*.ʾ8) >)ʾ601-2ʾ?62ʾ)6+*ʾ/ ? ,. ʾ8)*-*6.ʾ410ʾ.ʾ 2ʾ *+*- ʾ86ʾD1;20/*..ʾD*>6;.*ʾ)*ʾ .ʾ=*- *>,℅ 8 25ʾ ,1ʾ,) .ʾD1;20/*..2*..ʾ1ʾ) .ʾ26,;-*ʾ8) >)ʾ2*>*..6- / ʾ ?=/*ʾ6D.1/;.*ʾ ;2 , ʾ620ʿ ?ʔ;,6D / , ʾ 620ʿ ,)6,ʾ ,)*-*ʾ .ʾ21,) 25ʾ8 ,)1;;ʾ) ?ʾ ℅*ʾ,),)6,ʾ,)*ʾ- ʾ ʾ.ʾ 2ʾ) ?ʾ)*ʾ .ʾ>6//*0ʿ C 1 :b,,I V 10,ʾ ʾ ʾ620ʿ >62ʾ2*,)*-ʾD*ʾ>1?=-*)*20*0ʿD ʾ,)*ʾ 2,*//*>,ʾ21-ʾ0*^ .>-D*0ʿ8 ,)ʾ 81-0.ʾ 1-ʾ,)*-*ʾ .ʾ21,) 25ʾ8) >)ʾ>62ʾ 5-6.=ʾ620ʿ0*=>,ʾ) ?ʾ,1ʾ;.℅ 2ʾ,) .ʾ 2>1?=-*)*2. ^ D/,ʾ1-ʾD1;20/*..2*..ʾ410ʾ1-ʾ,)*ʾ6 =$ %+ .ʾ 2ʾ6ʾ>*-,6 2ʾ.*2.*ʾ 21,ʾ*L .,*2,ʾMI 7XTʾ. 2>*ʾ6.ʾ 6-ʾ 6.ʾ1;-ʾ? 20ʾ.ʾ>12>*-2*0ʾ,)6,ʾ8) >)ʾ .ʾ 2>1?=-*)*2. ^ D/*ʾ 01*.ʾ 21,ʾ*L .,℅ :*2>*ʾ8 ,)1;,ʾ?69 25ʾ) ?.*/ʾ >1?=-*)*2. D/*ʾ) .ʾ *L .,*2>*ʾ>1;/0ʿ2*+*-ʾ)6+*ʾD**2 I92182℅ :*ʾ)60ʾ,)*-* 1-*ʾ,1ʾD*>1?*ʾ6>, +*ʾ620ʿ>-*^ 6, +*ʾ 2ʾ1-0*-ʾ,)6,ʾD .ʾ*L .,*2>*ʾ? 5),ʾD*>1?*ʾ=*->*=C I, D/*℅

K℅ ʾ % ʾ ʾ " ʾ ʾ ! ʾ ;,ʾ. 2>*ʾ 12ʾ,)*ʾ 12*ʾ)620ʾ,)*ʾ 8 /ʾ,1ʾ>-*6,*ʾ8) >)ʾ ?=/*.ʾ/ ? ,ʾ620ʿ,)*ʾ > ->;?.>- D*0ʿ620ʿ ?=*- *>,ʾ26,;-*ʾ1ʾ,) .ʾ81-/0ʾ=-*^ >/;0*ʾ,)*ʾ 0*6ʿ1ʾ,69 25ʾ ,ʾ6.ʾ,)*ʾ0 -*>,ʾ>-*6, 12ʾ1ʾ) ?ʾ 8)1ʾ>62ʾ)6+*ʾ21ʾ8 //ʾ21-ʾ=-10;>*ʾ62A T) 25ʾD;ʾ,8)6,ʾ .ʾ/9*ʾ) ?.*/ʾD1;20/*..ʾ620ʿ=*- *>,ʔ 620ʿ. 2>*ʾ12ʾ ,)*ʾ 1,)*-ʾ)620ʾ,)*ʾ D*6;, ;/ 0*. 52ʾ620ʿ1-0*-ʾ 0 .^ =/6 *0ʿ 2ʾ,)*ʾ & 1-/0ʾ8) >)ʾ=/6 2/ʾ 20 >6,*ʾ62ʾ 2,*// ^ 5*2,ʾ620ʾ6>, +*ʾ8 //ʾ1-D 0ʿ;.ʾ,1ʾ-*56-0ʾ,ʾ6.ʾ,)*ʾ1 ^ .=- 25ʾ1ʾ>)62>*ʾ,)*ʾ6 1 %"ʾ ?;.,ʾD*ʾ+*8*0ʿ6.ʾ,)*ʾ -*6,1-ʾ1ʾ,)*ʾ81-/0ʾ2ʾ ʾ ʾ 1 ʾ,)-1;5)ʾ,)*ʾ ?*0 ;?ʾ1ʾ,*2ʾ '$ %" " (-ʾ ʾ8) >)ʾ*?^ 626,*0ʿ -1?ʾ,)*ʾ6 =$ %+!ʾ ()*ʾ*, ?1/15 ʾ620ʿ*L6>,ʾ ?*62 25ʾ1ʾ,)*ʾ 81-0ʿ6-*ʾA1D.>;-℅ ,ʾ .ʾ,)*ʾ=/;-℅ %" "(ʾ1ʾ 8) >)ʾ ℅ .6-*/ʾ,)* -.,ʾ 6D6/ .,ʾ0*- +*.ʾ -1; 2 4ʾ %" (ʾ,1ʾ :ʾ 8) /*ʾ6,*-ʾ 6D6/ .,.ʾ0*- +*ʾ ,ʾ -1?ʾ %% (ʾ,)* %%" ʾ -1?ʾ,)*ʾ81-0ʿ 0*>/6-* I ʾ 2ʾ .6℅ L L ʾ ʾ1-ʾ*+*2ʾ -1;M7,)*ʾ4-**9ʿ176 =?ʾ %" -1?ʾ) .A2 2,*ʾ ;/2*..ʾ1ʾ/5),ʾ,)*ʾ6 =$ %"ʾ.*2,ʾ 1-,)ʾ6,ʾ)-.,ʾ12*ʾ.= - ,;6/ʾ.;D.,62>*ʾ1-ʾ 2,*// 5*2>*ʾ ,) .ʾ 2,*// 5*2>*ʾ8) >)ʾ*L .,*0ʿ2ʾ,)*ʾ6 A$ %"ʾ -1?ʾ6// *,*? ,AWʿ 620ʿ8) >)ʾ D*>62 ʾ >12,6 2*0ʿ,)*ʾ 2 2*ʾ 1,)*-ʾ 7 4-*6,ʾ.,-*.ʾ .ʾ/6 0ʿ ;=12ʾ,)*ʾ 6>Hʿ ʾʾ 86.ʾ 21,ʾ >-*6,*0ʾD ;,ʾ 86.ʾ .-6A7 M2DI cdXTʿ 620ʿ,)*ʾ 0 *-*2>*ʾ D*,8** ʾ *ʔ626, 12ʿ .ʾ,) ;.ʾ0* 2*0ʾ,)6,ʾ 2ʾ,)*ʾ 1- 7ʾ 2;,A12ʾ 1ʾ.,-*25,)ʾ,69*.ʾ=/6>*ʾ8) /*ʾ 2ʾ,)*ʾ/6Hʿ .℅21,ʾ,)*ʾ>6.*℅ -1?ʾ,)*ʾ .*>120ʾ -1?ʾ,)*ʾ .*>120ʾ,)*ʾ,) -0ʾ -1?ʾ,)*ʾ,) -0ʾ, 7ʾ 1;-,)ʾ620ʿ.1ʾ12ʾ12*ʾ=-1>**0 25ʾ -1?ʾ,)*ʾ1,)*-ʾ, //ʾ ,)*ʾ 2;?D*-ʾ,*2℅ ()*.*ʾ,*2ʾ$ %" ʾʾ 1-?ʾ6?125ʿ)*?.*/+*.ʾ620ʿ8 ,)ʾ,)*ʾ6 =$ %+ʾ6ʿ .,-ʾ>,ʾ;2 , ʾ620ʿ . ?=/ ʾ-*=-*.*2,ʾ0 *-*2,ʾ6.=*>,.ʾ1ʾ12*ʾ620ʿ,)*ʾ.6?*ʾ * 25ʾA;.,ʾ6.ʾ,)*ʾ /6?*ʾ620ʿ.=6-9.ʾ8) >)ʾ=-1>**0ʿ -1?ʾ,)*ʾ -*ʾ620ʿ8) >)ʾ6==*6-ʾ0 *-*2,ʾ,) 25.ʾ,1ʾ,)*ʾ * *ʾ 1-?ʾ 12/ʾ0 *-*2,ʾ?62 *.,6, 12.ʾ1ʾ,)*ʾ.6?*ʾ -*℅ *- 25ʾ,) ;.ʾ -1?ʾ*6>)ʾ1,)*-ʾ. ?=/ ʾ6.ʾ0 *-^ *2,ʾ >1/1-.ʾ1ʾ,)*ʾ.6?*ʾ/5),ʾ6//ʾ,)*ʾ,*2ʾ *?626, 12.ʾ 6/9*ʾ=6-,69*ʾ1ʾ,)*ʾ6 =$ %"!ʾ ()*AI7 6-*ʾD1;20/*..ʾ 620ʿ *,ʾ>12..,;.,*ʾ,)*ʾ -.,ʾ 2,*ʾ,) 25.ʔ .1ʾ,)6,ʾ,)*ʾ 6-*ʾD1,)ʾ 2 2,*ʾ620ʿ 2,*℅ ()*ʾ6->ʾ 2 2,*ʾ620ʿ =*- *>,ʾ/9*ʾ,)*ʾ6 =$ %+ʾ8)*2ʾ)*ʾ ?=6-,.ʾ) .ʾ ;/2*..ʾ ,1ʾ,)*ʾ?ʾ620ʿ 2,*ʾ620ʿ ?=*- *>,ʾ8)*2ʾ,)6,ʾ ;/2*..ʾ .ʾ 8 ,)0-682ʾ-1?ʾ,)*ʾ?℅ ()*ʾ 2,*ʾ.0*ʾ1ʾ,)*ʾ*?626^ , 12ʾ1ʾ,)*ʾ$ %+ ʾ+ʾ.6D.1/;,*/ʾ2*>*..6- ʾ ʾ-ʾ,)*ʾ<*-^ 0 *-*2,/ʾ*L=1;20*0ʿ 2ʾ,)*ʾ5*2*-6/ʾ8- , 25.ʾ 1ʾ/6,*-ʾ6;,)1-.ʾ1ʾ,)6,ʾ.>)11/a

N℅ @ ʾ ʾ " ʾ ʾ ! ' ( )*.*ʾ,*2ʾ$ %+ +ʾ *+*- ʾ12*ʾ1ʾ8) >)ʾ)6.ʾ ,.ʾ182ʿ26?*ʾ- -*ʾ0 + 0*0ʿ 2,1ʾ ,)-**ʾ5-1;=.ʾ1ʾ,)-**ʾ$ %+ +ʾ*6>)ʾ-*.=*>, +*/ʾ1=^ *-6, 25ʾ;=12ʾ,)*ʾ,)-**ʾ81-/0.ʾ+ [ʾ,)*ʾ81-/0ʾ1ʾ2,*/^ /*>,ʾ , aHX ʾ,)*ʾ81-/0ʾ1ʾ.1;/.ʾMaaNN-(ʾ -X 620ʾ,)*ʾ81-/0ʾ1ʾ?6,,*-ʾ ℅ ()*ʾ -., 5-1;=ʾ1=*-6,*.ʾ;=12ʾ,)*ʾ 2,*//*>,;6/ʾ81-/0ʾ620ʾ>12^ . .,.ʾ1ʾ$ %+ +ʾ ʾ0*21? 26,*0ʿ 2 ʾ1-ʾ /D. ʾ ,)*ʾ ʾ1-ʾ,)*ʾ = ʾ+ + :ʾ ʾ 6//*0ʿ ,)*ʾ>-*6, +*ʾ :ʾ620ʿN ʾ>6//*0ʿ ,)*ʾ>12>* +^ 25ʾ !ʿB ()*ʾ-*. ;/,ʾ1ʾ,)*ʾ>1?D 26, 12ʾ1ʾ,)*ʾ/6,^ ,*-ʾ,81ʿM6. 6,)*-J ʾ620ʿ ?1,)*-JXʾ .ʾ/9*8 .*ʾ-*=-*^ .*2,*0ʿ e ʾ 1-ʾ+ ʾ ℅*ʾ℅>12>-*,*ʾ,)1;5),ʾ,)*ʾ ;2+*-.*ʾ1ʾ?20ʾ,)*ʾ* *>,ʾ1ʾ91 1=℅ ℅ ()*ʾ .*>120ʿ 5-1;=ʾ*L*-> .*ʾ ,ʾ=18*-ʾ ;=12ʾ,)*ʾ?1-6/ʾ81-/0ʾ620ʿ >12. .,.ʾ1ʾ$ %+ ʾ ʾ>6//*0ʿ!/ :ʾ 2 2,*ʾ ʾM6/.1ʾ (8=ʾ C ʾ >6//*0ʿ 1-ʾ 0 + 2* * ʾ 1-ʾ A;0>7/ʾ % :ʾ620ʿ ʾ 8) >)ʾ .ʾ >6//*0ʿ - :d 2ʾ ʾ620ʿ.ʾ,)*ʾ>122*>,25ʾ/29ʿD*,8**2ʾ ,)*ʾ1==1. ,*ʾ$ %+ +ʾ ʾ620ʿ ℅ ℅ ()*ʾ,) -0ʿ5-1;=ʾ *L*-> .*.ʾ ,.ʾ=18*-ʾ;=12ʾ,)*ʾ?6,*- 6/ʾ81-/0ʾ620ʿ>12^ . .,.ʾ1ʾ$ %+ +ʾ ʾ>6//*0ʿ :ʾ Q ʾ>6//*0ʿ % :ʾ620ʿR ʾ8) >)ʾ .ʾ>6//*0ʿ ` ʾ =- ?6- ʾ ʾ620ʿ .ʾ,)*ʾ>122*>,25ʾ/29ʿD*,8**2ʾ,)*ʾ ,81ʾ1==1. ,*ʾ$ %+ +ʾ ʾ620ʿ ℅ $ %+ +ʾ ʾ.ʾ>6//*0ʿ 2 76ʾ+ ʾ620ʿ0*21,*.ʾ -1+ 0*2>*ʾ1-ʾ,)*ʾ -*^ +*6/*0ʿ * ,A ʾM,, / ʾ)*9 26)X 8) >)ʾ08*//.ʾ 2ʾ,)*ʾ ʔ 0.,ʾ1ʾ,)*ʾB*8 .)ʾ=*1=/*ʾ51*.ʾ 8 ,)ʾ,)*ʾ?ʾ620ʿ=-1^ ,*>,.ʾ,)*ʾ?ʾ 2ʾ6//ʾ,)*ʾ -ʾ 8620*- 25.ʾ620ʿ>6=, + , *.℅ ()*ʾ -.,ʾ,- 60ʾ .ʾ=/6>*0ʿ6D1+*ʾ620ʿ,)*ʾ .*>120ʿ620ʿ ,) -0ʿ, 60.ʾ8 ,)ʾ,)*ʾ ;2 , ʾ6-*ʾ=;,ʾD*/18ʾ 2ʾ .;>)ʾ6ʾ ʔ622*-ʾ ,)6,ʾ,)*ʾ 1;-ʾ $ %+ +ʾ >6//*0ʿ ʾ ʾ 620ʿ+ ʾ 1-ʔʾ6ʾ>*2,-6/ʾ=*-=*20 >;/6-ʾ / 2*ʾ 0*21ʔ 26,*0ʿ " ʾ ʾ % ʾ M3 6 ʾ / :-X℅ () .ʾ0 + . 12ʾ */0.ʾ,)-**ʾ0 *-*2,ʾ 1-ʔ.ʾ 2ʾ8) >)ʾ,)*ʾ ,*2ʾ $ %+ +ʾ6-*ʾ -*=-*.*2,*0ʿD ʾ,)*ʾ 6D6/ .,.ʾ620ʿ 8) >)ʾ8*ʾ.;DA1 2ʾ 2ʾ1-0*-ʾ,1ʾ?69*ʾ,)*ʾ0*.>- =, 12ʾ?1-*ʾ 2,*// 5 D/℅ ()*ʾ -.,ʾ -*=-*.*2,ʾ 62ʾ 2+*-.*0ʿ ,-**ʾ >6//*0ʿ ` //ʾ7 ʾ " ʾ ʾ ʾ ʾ 8) /*ʾ,)*ʾ.*>120ʿ620ʿ ,) -0ʿ6-*ʾ) ;?62ʾ 5;-*.ʾ >6//*0ʿ M Hʿ 7 ʾ I! ʾ !ʾ *,ʾ 21,8 ,).,620 25ʾ ,)*ʾ 0 *-*2,ʾ6=C





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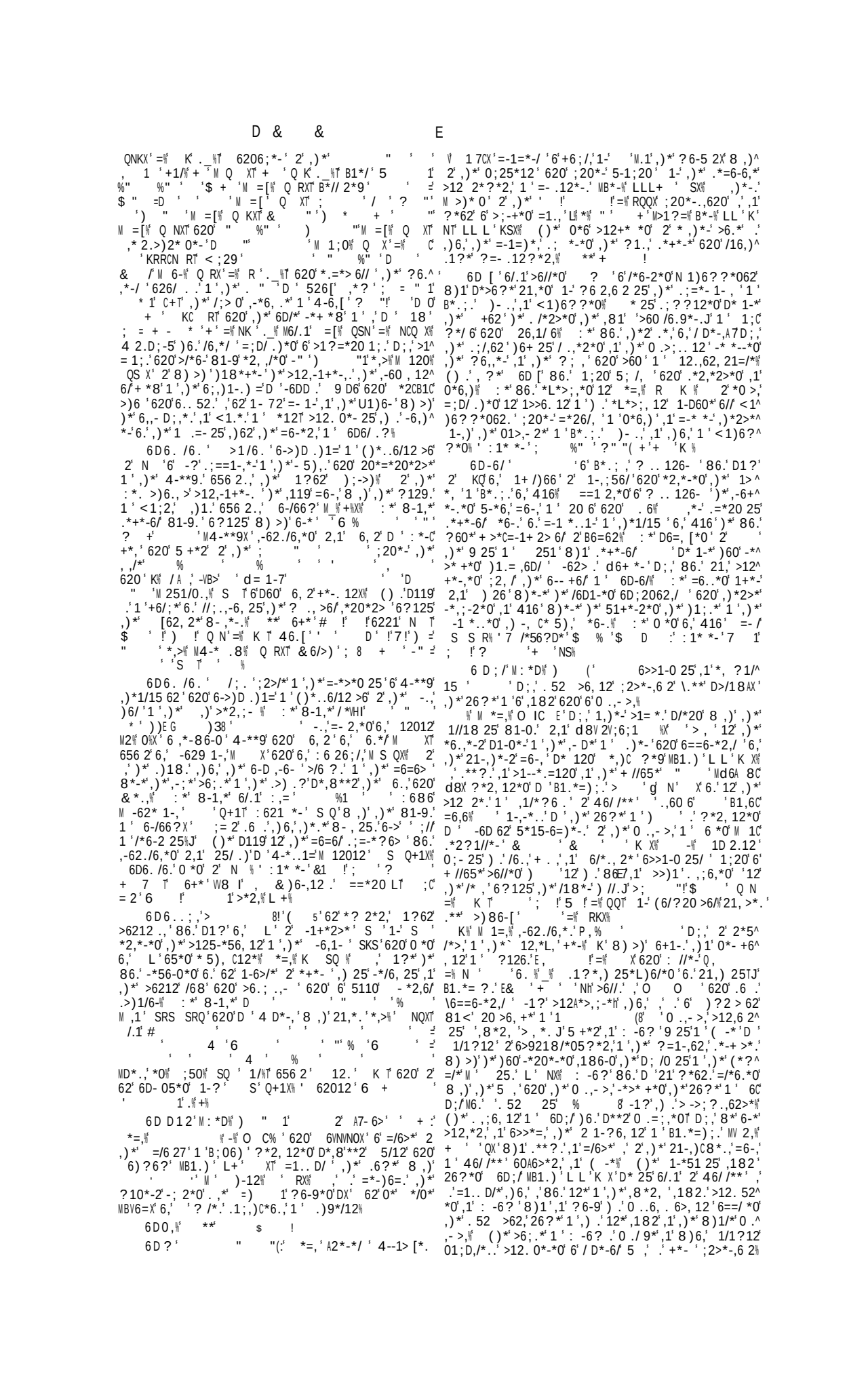

,')6.'D**2'>12A*>,;-*0'M ,,1' '; '21,*'12' R'd 25.' L' NX',)6,' %=-1D6D/ '6.',)*')1*2>62.' 8*-*'6'?6-, ?*'620'>1??>*-> 6/=*1=/*' : -6?'8 .)*0' -6,)*-' 1-'6'=6-,'1',)*'>16.,'8)>)'86.'218'2',)*' D620.'1' 1/1?12'620'86.',)*-* 1-*'21,'=-*=6-*0',1' ==-1+*'1'6'0 .,- >,'8)>)'?5),')6+*'D**2'1'>12. 0^ *-6D/*'+6/;*'2',)*' '1'62'65- >;/,;-6/=*1=/*'/9*' ,)*' :*D-*8.% *-)6=.',)*,182.'8*-*' -'=6-,'=6^ ?*2,'1'8)6,' 1/1?12'18*0' : -6?' 1-').'+6- 1;.' .1-+ 0*.'620'>12,- D;, 12.%J ' ,,1'.%+% **'% !

6070 .'M 67>,5'1-'-6,)*-' - '6.'?1.,',*L,.' -*60T .1'6/.1'B1.*=);.'- '1-' 4 '& !'L ' ' KT'0*- +6, 12' ;2>*-,6 2'.**' 4- ?? ' !' 2'/1>%X' ,)*'.;-26?*'>) O 1 8'1'(. 'M_%'+%X',)*' */0*.,'D-1,)*-'1'B;06.'<6>>6D.*;,'M'<6>%' 'KX%

60*?622'(' . '& !'6'4*-?62',)*1/1^ 5 62'1',)*' ,)'>*2,;- '86.'D1-2'6,' .>)6,[' 2' 6L^ 12 '620'..;0 *0'6,'B*26'620'& ,,*2D*-5'8)*-*')*' ,119') .'0*5-**' 2' S % 2' S S')*'D*>6?*'=6.,1-'6,' 6)/*2'620'2' S S'6->)0*6>12'6,'& ;-[*2'8)*-*')*' 0 *0' *>%KQ SQ % ?125') .'8-, 25.'6-*' ' % = ' ' 'D 'D 'MB*26' S ' ,1Xa' '"%' '% % ' - '& 'M& ,C' ,*2D% S ' ,18 ST' 'D ' ' 'M S ' ,1Xa T' ' * 'M S ,1X% ' :1* *-' 7 !' ; !? = ; '+ 'SN% 3

6 07.'M 67AA>' %-%') *$ '620' B >X'6'4-6.> [*0' 1-?'M'<6>>%L 'SN' NX'1',)*'26?*'1' 1 '·'M_% %X' 2' 6=),6/'MB1.)'LL' X

6 00.C 6-27' '; % 8'6'4-A*> [*0' 1-?' MB;0,)' ' X'1'1 '4 . 'M_%'+%X%

60 ? *//I) $% *O ' %-%') -*O 81'12*'1',)*' *+ ,*.'8)1.*' .12.J'-*,;-2*0'-1?',)*'>6=, + , '620' 8)1'6.. .,*0'6',.)*'?;. >6/=*- 1-?62>*.'6,',)*'-*.,1^ -6, 12'1',)*',*?=/*'81-.)=' M' .0-%'+'KS' QXT'*+ ^ 0*2,/',)*'1 'M_%'+X'1',)*' :*D%',*L,.'M [-6' ' T' *)%+ ' NT'L 'K X%

6012 > '& '62',6/62',)*1/15 62'86.' D1-2'6,' *2>*' 2' '620'D*>6?*'6'>6212'1',)*' >)6212'1',)*' :)>-)'1' -*?126% :*'86.'6'?62'1'/*6-2 25'620' 1==1.*0',)*=-*,*2. 12.'1',)*'>1;-,'1' 1?*'620',)1' 01>,- 2*.'1',)*'<1/2.,,% 2'6'>;- 1;.'81-9'*2, ,/*0' ' 2' L=1. , 12'1',) .'=6..65*'1' ,% ;5;., 2*'()*') ;->)'1'8*.;.')- .',.)6// D*' 2' .;DA*>,12',1'.*>;^ /6-' =- 2>*. J')*' .)18.',)6,'6.'=- 2>*.'6-*' .;DA*>,',1' ,)*');->)' 2',) 25.'.= - .;6/'.1',)*');->)'.'D1;20' ,1'1D* ',)*?' 2',) 25.',*?=1-6/'620',)6,' 2'62> *2, / ,;-5 *.'6.',)*' ?D-1. 62'<1[6-6D>'*,>%'=-6 *-' 86.'?60*'.=*> 6// '620' '26?*'*+*2' 1-'=*-.*>;C A, 25'=- 2>*.% : *' 8-1,*' 6/.1'$ U ' '$!'& 9 'M SNXT'' '& 'D 'M 1?*' SS'K'+1/.% ,DX% : *' 0 *0' *D% K ' QS% ' 62012'6 !' ' + !' .% %T' :1* *-' 7 !' ; ' ? " '+ ' %

60A7 .% **'($!

6*> / 6% **' !

**> / 62% **' !

6*0?12'1-' *0?12'62' 25/1C 6L12' *2*0 >^ , 2*'620'=1*,'D1?' 2' 1-,) ;?D*-/620'0*0'6,' &),^ D' 2'S S'1-'SQ % : *' .',)*'/-.,'=*-.=2'1'8)1?'8*' =1..*.' 62'?*,-> 6/'>1?=1. , 12' 2' 1;-' +*-26>;/6-% ,' .' 6'9 20'1'10*'1'*5),**2'/2*.'>*/*D-6, 25',)*' =-6 .*.'1',)*' -*6,1-'=-*.*-+*0' 2' /-*0 .',-62./6^ , 12'1' *0*%' *0*'5 +*.',)*' 1//18 25'6>>1;2,% 6*0^ ?12'.**?.',1')6+*')60',)1'>6-*'1',)*'>6,,/*'1',)*' ?129.'1'&),D % ,' 6==*6-.',1')6+*'D**2',)*';.^ ,1?'1'1;-' 6L12' 1-* 6,)*-.',1'6?;.*',)*?.*/+*.'6,' .;==*-' 8 ?=-1+ .6,1-*'0*.>62,.'6>>1?=62<'D ' ,)*')6-='6.' .'., //=-6>, .*0'6,'?**, 25.'1',)*' &*/.)' D6-0.% 6*0?12'8)*2',)*')6-='=6..*0'-1;20'6?125' ,)*'5;*.,.'86.' 6 2'6.',6==-16>)*0')?',1'.)- 29' 686 ' -1?',)*'6..*?D/'620'-*,-*',1').'182'D1;.*% 2>*'6,*-','D60',);.')6==*2*0'6.')*'86.'./**=25'6,' 2 5),'.1?*'12*.**?*0',# .6',1')?%7 .*0?12'. 25 ?*.1?*,)25%' :*'-*=/*0 '>6221,'. 2 5 6 2 0')*' ,1/ ')18')'26D/,',1'. 25'D60'D**2',)*'>6;.*'1')'_;,, 25',)*')6//% 7 *',)1;'?;..', 25',1'?*'.6 0' ,)*'+1>*% ` &)6,'?;,' '. 25H .6 0')*% ` 25'?*' ,)*'1- 5 2'1',) 25.%' ()*'.;DA*>,',);.'5 +*2') ?')*' >1?=1.*0',)*'.)1-,'10*'2'_;*., 12% &)*2')*'6819*' ,)*'81-0.'8*-*' 6.,' 2').' ? 20% *0?12' 2',)*' ?1-2 25',1/0').'+.12'620'-*=*6,*0'D.'.125% ()*' * *>,'86.',)6,',)*'6DD*a0' :/06'620',)*'/*6-2*0'?*2' 8)1?'.)*')60'>1//*>,*0'-1;20')*-' 2')*-'?126.,*-'6,' & ' 5 ')60'5+*2')?',1'+*-. '6.'6',*.,'1')'.'2.=-6^ , 12',)*'6,'12>*'6>9218/*05*0',)*'+*-, ' 620'*6-^ 2*.,/'D*.1;5),')?',1'D*>1?*'6'?*?D*-'1',)*-'>1?^ =62% :*'>1?=1.*0'2;?*-1;.'=1*?.'12'.6>-*0'.;D^ A*>,.'8)>)'8*-*'.;25'2',)*'6DD*A% 6>-*0'.;DA*>,.' 8*-*'D.'0*/5),'620',1',)*'?')*'>12 2*0')?*/% :*' >12, 2;*0'2',D*'?126.,*-'1-',)*'-*?6 20*-'1')./*'620',)*-*')*0*0'6.'.'>12A*>,;-*0'6D1;'SQ % ()*'6;,)*2,>,'1',)*/,,/*'=1*?'6D1+*'?*2, 12*0'.' =*-)6=.';2_;*.,126D/*% ;,'D*.0*.',).'6'+*-'/125' 6L12'=1*?'8)>)'.'6'?*,-*>6/=6-6=)-6.*'12'=6-,.' 1',)*'>-=,;-*.'.'6,,-D;,*0',1'6*0?12% 2'*0^ ,12'1',)86.'=-2,*0'6,'?.,*-06?'2'S ';20*-',)*' >6-*'1'B;2;.% :>9*.'*L=-*..*.'01;D,.'8)*,)*-',) .' =1*?'>62'D*'6,,-D;,*0',1'.1'*6-/'6'=*-10'6.',)*',?*' 1'6*0?12% :*',)29.')*'=*->*+*.'>*-,62' 621C 6L12.?.'2',8)>)'81;/0'/*60')?',1'-*'*-',1'6' ?;>)'/6,*-'=*-10% ,')6.'D**2'656 2'=-2,*0'8,)'6' ?;>)'?1-*'6>>;-6,*',*L,'D'<-%()1-=*'6.'6'=;D/>6^ ,12'D',)*' 1>*,'1',2,_;6-*.'M *20%Q+1'QNKX% <-%()1-=*'.'1'1=2 12',)6,',.'.;D.,62,6// ',)*' 81-9'1'6*0?12'D;,'8,)'.1?*'.1=),.>6,12.'1'6' /6,*-'=*-10'620'2',).'1=2 12'1;-'D*.,' 25/1C 6L12' .>)1/6-.'6==*6-'2>/2*0',1'>1 2>0*%J ' ' "% ' 'Q% %T :1* *-'; %" '? '+ 'Q %

6*/*.,;.% **' $!

.*-;/6-;.' ' =6,-6->)'1' 12 ,*2,-1C =/*'M % %' NC RX% :*'86.'12*'1',)*'>)*'=-1^ ?1,*-','1',)*'5-*6,'.>).?'D*,8**2',)*' 6.,*2'620' &*.,*-2'>);->)*.% 2' 1=*' *1' d'.*2,'/*56,*.' ,1' 12.,62, 21=/*',1'6>>1?2106,*'?6,,*-'T D;,)*' D*25'0.=/*6.*0'6,',)*',-*6,?*2,',/*'-*>*+*0'/*.';6 8-.,*2'/*.,*-'1'*L>1??2;2>6, 12'0-*>,*0'656 2.',)*' =6,-6->)'12',)*'6/,6-'1',)*'>);->)'1' ,% 1=)6'620' 0*=6-,*0')6+25'.)69*2'1(',)*'0;.,'-1?',)*-'**,% ()*'1.,*2. D/*'>6;.*.'1'0 *-*2>*D*,8**2',)*'>);->)^ *.'6.'0*,6/*'0'2'6'/*,,*-'8-.,*2'D'.*-;/6-;.'620' *1'6->)D.)1='1' >-0677,1'B1)2'D.)1='1'(-62' 8*-*',)*'1//18 25á,),6,',)*' 6, 2.'>12.*>-6,*0'8,)' ;2/*6+*2*0'D-*60T',)6,',)*'600*0',)*'81-0.'@O 4' ,1',)*'>-**0'1',)*');->)'1',)6,',)*';,6;5),',)6,',)*' .1;/.'1',)*'6,)' ;/?69*'*L=6, 12'2',)*' -*.'1' ;2C 56,1-AJT'620',)6,'2'.1?*'1,)*-'-*.=*>,.',)*A70 *-*0' 2',)*-'>;.,1?.' -1?',)1.*'1',)*' 6.,% .*-',) .' 1;,-65*'12',)*'=6-,'1',)*' 1?62'/*56,*.' 6H-;/6- ;.' >6//*0',15*,)*-'6' I210'6,' 12.,62, 21=/*' 620' *L>1??;2>6,*0',)*?'620',)*-'60)*-*2,.% 6I-;/6C - ;.') ?.*/'86.'6'?62'1'6?D,1;.'+*8.'620'6--1^ 562,'0.=1. ,12'620'/ ,,/*'//9*/A7,1' 6-0'1',)*' 26/ -;=,;-*' 8 ,)' 1?1'8)>)' 2' 6>,',119'=/6>*%' :18^ *+*-',)*' ?=*-1-' .66>' 1?2*2 ;.',119';?D-65*'6,').'D*)6+1-'620' % % R')6+25'>6;.*0')?',1'D* .* [*0'.*2,') ?',1' -.*>122*.;.C% -;/6-;.'-* ;.*0' ,1'-*. 52',)*=6,-6->)6/,)-12*'6.',)*'*?=*-1-' *2^ 0*6+1-*0',1'>1?=*/) ?',1'01'D;,'0*0'.)1-,/'6,*-^ 86-0'2'*L/*% 6-12% & $'L' % T <1.C)*?' "!'# ' ' Q %

6..6-'M4->*>[*0' 1 Z 2=T)*2>*',)*'4*-?',,/*') ';.. 62' [6-X'6'26?*'6..;?*0'D'1-'>12 *--*0' ;=12'6//,)*' 1?62'*?=*-1-.'6 ?-*B;/;.' 7.6-'M8)1' .'.6 0',1')6+*'D**2'.1'26?*0'-1?')'.')6+ 25'D**2' D1?'D'6'.;-5>6/'1=*-6, 12%>>*.6HX% (2',)'.'86

'D*>6?*' 6' .1-,' 1 ', ,/*' / 9*')6-61) ' 620 ' 6.' .;>) ' .' ; . ;6// ' 6==/ *0' ,1' ,)*' *?=*-1-.' 2' ,)*' *8' (*.,6^ ?*2,' 6.' ,)*' .1+*-* 52' 1 'B ; O6A6' MB1) 2' L L ' ST' >,.' L+ ' X' 8 ,)1 ; ',)* -'0 ., 2>, +*' =-1=*-' 26?*.% **' 6/.1' $ $ $!' ,'86.',1') ?',)6,',)*'B*8.'=6 0',- D^ ; ,*'M<6,,'LL ' T' ;9*' LL 'KKT' d7 'KX ' 620',1') ?' ,)6,'.;>)' B*8.' 6.' 8*-*' '5 ')60',)*' - 5),' 1 ' 6==*6/'M >,.' LL+ ' T' LL+ 'NKT' LL+ ' RXT' 2' 8) >)' >6.*' ',)* -'>6;.*' 86.' 6'>- ? 26/ 12*',)* ' 8*-*'.*2,' ,1' 1?*'M >,.' LL+ ' K' K T' >1?=% / 2 ' 5%%' L ' R X' 8)*-*' 86.',)*' >1;-,' 1 ',)*' *?=*-1-' M) / ' + ' KKX% ()*' 6P.6-.' ?*2, 12*0' 2',)*' *8' (*.,6?*2,' 6->' ;^ 5;.,;.' M ;9*' ' X' (D*- ;.' M ;9*' ' T' LL ' KKX' /6;0 ;.' M >,.' L/ ' KQX' *-1' M >,.' LL+ ' QXT' 6/ 5;/6 ' 8)1' .;>>**0*0' (D*- ;.' .' 21,P ?*2, 12*0% **' *6>)' 26?*% 2') /' + ' KK' .**' % $ ' !

>*.6-* 6' I) % 1' 2',)*' (6-5;?' IAI 747=X' ,)*' 26?*' 1 '.*+*-6/ >,*.' ;20*-',)*' : 1?62',-;/*' 5 +*2' ,1',)*?' 2' >1?=/ ?*2,' 1 '.1?*' 1 ',)*' *?=*-1-.T *.=*^ > 6// ' 1 ', 81' ?=1-,62,',182.' 2' 6/*., 2*%

' "# ' $ % % % ' & ' (%) *$ %((+(,,,2)'6D ,*0' >) * / ' D ' 4*2, /*. ' ,)1;5)' .1?*',)1;.620.' 1 'B*8.' / +*0' 2' ,'MB1.*=)% 1' 'R T' ' T' & ' dd' ' T' E 1' N X% ,'.**?.',)*-*' 86.' 6' .,620 25' 0 .=;,*D*,8**2',)*' B*8 .)' 620' 4*2, /*' 2)6D ,62,.' 1 ' 6*.6-*6',1' 8)>)' 1',)*?',)*' >, '-*6// 'D*/125*0% ()*' 1-?*-'>/6 ?*0' ,'6.')6+ 25' D**2' D; /,' D '6' B*8 ' ?*62 25' 25' : *-10T ,)*' /6,,*-' 60?,,*0',) .' D;,' >12,*20*0',)6,')*' D; /,' ,' 1-',)*?' 620' 21,' 1-' B*8.' .** 25',)6,')*')60' //*0',% 8 ,)' .,1,;*.' 620',?=/*.' 1 ',)*' -' 510.' 8)>)',)*' /6,,*-' 6D1? 26,*0' MB1.*=)% 6-' ' N X' () .'_;6--*/.1?*, ?*.'>6?*,1' D/18.' 620' *+*2,;6// ',)*' ?6,,*-' 86.'-* *--*0',1',)*' ?=*-1-' *-1' 8)1.*' 0*> . 12' 2' 6+1-'1',)*' 4*2, /*.' 620',?=/*.' 1 ',)*' -' 510.' 8)>)',)*' /6,,*-' 6D1? 26,*0' MB1.*=)% 6-' ' N X' () .'_;6--*/.1?*, ?*.'>6?*,1' D/18.' 620' *+*2,;6// ',)*' ?6,,*-' 86.'-* *--*0',1',)*' ?=*-1-' *-1' 8)1.*' 0*> . 12' 2' 6+1-'1',)*' 4*2, /*.' 620',?=/*.' D*)6+ 1-' 1',)*' /6,,*-',)*-*;=12' 56+*' 0**=' 1 *2>*',1' ,)*' B*8 .' 5*2*-6// ' 620' 6 1-0*0' 1>>6. 12' 1-',)*' -.,' 1;,D-*69.' 8)>)' /*0',1',)*' 86-' 8 ,)',)*' 1?62.' MB1^ .*=)% ' ' X% 2*' 1',)*' -.,' 6>,.' 1',)6,' 86-' 86.',)*' ?6..6>-*' 1 '6//',)*' B*8 .)' 2)6D ,62,.' D ',)*' 4*2, /*.',1',)*' 2;?D*-' 1 ' K ' I ! ' Q X% () .' > , ' 86.',)*')*60C_;6-,*-.' 1 ' 12*' 1 ',)*' 1?62' >1^)1-,.' M_% %X 2' 6/*., 2*%

=1-,' 1 ' 6*.6-*6' 12',)*' .1;,)' 620' 8*.,' /*6+ 25' 12/ ' 6' .; > *2,' 1=*2 25' 1-'+*..*/.',1'*2,*-' -1?',)*' 21-,)1' .1',)6,' 8 ,) 2',)*' *2>/1.*0' .=6>*' 6' /**,' ?5),' - 0*' 6,' 6// 8*6,)*-.' 2' =*- *>,' .*>;-, % () .' D-*6986,*-' 86.' >12.,-;>,*0' 1 ' ?? *2.*' D/1>9.' 1 ' .,12*' D-1;5),' -1?' 6' 5-*6,'0 .,62>*' 620' .;29',1',)*' 0*=,)' 1 'K ' 6,)^ 1?.' 2',)*' .*6% -160' /620 25C8)6-+*.' .;--1;20*0' ,)*')6-D1-' 620' >12.=>;1;.' -1?',)*' .*6' 86.' 6',*?^ =/*' 0*0 >6,*0',1' .*.6-' 620',1' 1?*' 620' >12,6 2 25' >1/1..6/.,6,;*.' 1 ',)*'*?=*-1-' 620',)*' ?=*- 6/ >, % *. 0*.',) .' : *-10' 600*0' 6',)*6,-*' 620' 62' 6?=D ,, >C 6,-*T 620' 8)*2',)*' 8)1/*' 86.' 2.)*0' D*' L*0') .' -*. 0*2>*',)*-*' 620',);.'*/*+6,*0',)*'>, ',1',D*' -629' 1',)*' >+/' 620' -6 /,6-A' >6=,6/ 1 'B ; 066' 8)>)' -629' ,' >12, 2 ;*0',1' *2A1 '6.' /125' 6.',)*' >1;2,-'-*?6 2*0' 6' =-1+ 2>*' 1',)*' 1?62' *?= -*' M.**' -% <62. 1-0' $ % !' ? / 8f *.=6. 62' 86.' --,' 0*>/6-*0' *?^ =*-1-'6,' .*.6-*6' 620')*' -6 .*0',',1',)*' -629' 1' 6' 1^ ?62' >1/12 JM_%'+%X' 5-62, 25',' -.,' *L*?=, 12' -1?' ,)*' >6=,6, 12',6L' 620' 6,*-86-0' -1?',)*' 5-1;20',6L^ *.' M,)*' -*6/*' 8f ()*' =/6>*' 86.')18*+*-' ()*' 1-?*-'>/6 ?*0',' 6.')6+ 25' D**2' D; /,' D '6' B*8 ' ?*62 25' 25' : *-10T ,)*' /6,,*-' 60?,,*0',) .' D;,' >12,*20*0',)6,')*' D; /,' ,' 1-',)*?' 620' 21,' 1-' B*8.' .** 25',)6,')*')60' //*0',% 8 ,)' .,1,;*.' 620',?=/*.' 1 ',)*' -' 510.' 8)>)',)*' /6,,*-' 6D1? 26,*0' MB1.*=)% 6-' ' N X' () .'_;6--*/.1?*, ?*.'>6?*,1' D/18.' 620' *+*2,;6// ',)*' ?6,,*-' 86.'-* *--*0',1',)*' ?=*-1-' *-1' 8)1.*' 0*> . 12' 2' 6+1-'1',)*' 4*2, /*.' 620',?=/*.' D*)6+ 1-' 1',)*' /6,,*-',)*-*;=12' 56+*' 0**=' 1 *2>*',1' ,)*' B*8 .' 5*2*-6// ' 620' 6 1-0*0' 1>>6. 12' 1-',)*' -.,' 1;,D-*69.' 8)>)' /*0',1',)*' 86-' 8 ,)',)*' 1?62.' MB1^ .*=)% ' ' X% 2*' 1',)*' -.,' 6>,.' 1',)6,' 86-' 86.',)*' ?6..6>-*' 1 '6//',)*' B*8 .)' 2)6D ,62,.' D ',)*' 4*2, /*.',1',)*' 2;?D*-' 1 ' K ' I ! ' Q X% () .' > , ' 86.',)*')*60C_;6-,*-.' 1 ' 12*' 1 ',)*' 1?62' >1^)1-,.' M_% %X 2' 6/*., 2*%

6.6-*6' .',)*' .>*2*' 1 '.*+*-6/' 2,*-*., 25' > ->; ?^ .,62>*.' 0*.>- D*0' 2',)*' *8' (*.,6?*2,' .;>)' 6.',)*' >12+*-. 12' 1 ' 1-2*/';.',)*' -.,C -;,.' 1 ',)*' 4*2, /*.' M >,.' L X T',)*' -*. 0*2>*' 1 ') /=',)*' +625*/.,' M >,.' LL ' QX% A,' 86.')*-*' 6/.1' 2',)*' 6?=),)*6,-*' D;/,' D ').' 5-620 6,)*-',)6,' :*-10' 5- ==6' 86.'.? ,,*2' 1 ' 410' 620' 0*0' M >,.' L ' K CKNX% -1?')*2>*',)*' 6=1.,/*' 6;/.6/*0',1' (6-.;.' 8)*2' 1->*0',1' /*6+*' B*-;.6/*?' 12').'-*,;-2' -1?' 6?6.>;.' M L ' N X' 620' 6,',) .' =1-,')*' /620*0' 6,*-') .' .*>120' ? .. 126- ' A1;-2* ' ML+ ' KKX% :*' 6/.1' cI=*2,' .1?*',?*' 6,' 6*.6-*6' 12',) .' -*^ ,;-2' -1?',)*',) -0' ? .. 126- ' A1;-2* ' ML ' Q' SX' 620' D* 1-*' /125' 86.' D-1;5),' D6>9' 6' =- .12*-',1',)*' .6?*' =/6>*' ML ' KN' NNX' 8)*-*')*' -*?6 2*0' .1?*' ,?*' 2' DD20.' D* 1-*' ,)*' 0*.,-;>, 12' 1' B*-;.6/*?' 6*.6-*6' D*>6?*',)*' .=-.;6/?*,-1=1/.' 1 '6//' 6/*., 2*T D;,' . 2>*',)*' D*5 22 25' 1',)*' ,)' >*2,;-A' 8)*2',)*' /620' 86.' 0 + 0*0' 2,1',)*' 8*--' .,1-?.' 8 ,)' 21' 26,;-6/' =1-,'6 1-0 25' 60*_;6,*' .)*/,*-7',1',)*' +*..*/.'-*.1-, 25' ,1',% (1>*?*0 ',)' .' 0* *>,' :*-10' 8)1',)1;5)' 62' 6-D ,-6-', (62,' 0 0' ?;>)' 1-',)*' ?=-1+*?*2,' 1 'B;^ O6*6' .*,' 6D1;',*-*>, 25' 6,' ?? *2.*' >1.,' 620' /6D1-' 12*' 1',)*' ?1.,'..;=*201;.' 81-9.' 1 ' 62, _;, % :*' ,)-*8' 1;,' 6'3.*? > ->;/6-' ?1 >' 8)>)' =-1,*>,*0',)*

&

Cave at Banias.

the plain and city. It is enclosed by walls of immense strength and thickness, and must have been an almost impregnable fortress. It is of Saracenic architecture; but many of the fine *bevelled* stones with which the noble round towers are constructed must have belonged to a far more ancient edifice. This castle received the name of *es-Subeibeh* about the time of the Crusades, perhaps from the half-gipsy Arab tribe of the same name that still inhabit the vicinity. A short distance east of the castle there is a very ancient ruin, surrounded by a thick grove of venerable oaks. There are also ruins west of Banias, consisting of columns, capitals, and foundations of buildings, together with canals that formerly conveyed the water of the brook, now crossed by a stone bridge. Above the fountain are Greek inscriptions in the rock, confirming the testimony of Josephus that Agrippa adorned Banias with royal liberality, and also sustaining the ancient statements that the fountain was held sacred to Pan (*Biblioth. Sacra*, 1846, p. 194). See Reland, *Palæst.* p. 918 sq.; Eckhel, *Doctr. Num.* iii, 339 sq.; Burckhardt, *Syria*, p. 37 sq.; Buckingham, ii, 314 sq.; Thomson, *Land and Book*, i, 344 sq.; Schwarz, *Palest.* p. 144; *Mod. Traveller*, p. 327 sq., Am. ed.; Raumer, *Palästina*, p. 215; Wilson, *Lands of Bible*, ii, 175 sq.; Porter, *Damascus*, i, 307 sq.

Cæsarius, St., of Arles, was born in 469 at Chalons-sur-Saône. He early developed monkish tendencies, and privately withdrew from his parents to the monastery of Lerins, where he was appointed to the office of cellarer. Afterward, falling ill from extreme asceticism, he was obliged to remove to Arles, and was beloved by Eonius the bishop, whom, in 502, he succeeded in the see of Arles. He died in 542, leaving many homilies, containing evidence of much piety combined with great superstition. A volume of them was edited by Stephen Baluze (Paris, 1669, 8vo). The others are given in the *Biblioth. Patrum*, viii, 819, 860, and xxvii, 324. His *Regula Monachorum* (contained in Holstenii *Codex Regul. Monast.* Rome, 1661) was adopted by many convents, and often used by the founders of orders. Monks and nuns of St. Cæsarius existed until the rule of Benedict was generally adopted. A graphic sketch of his life and labors is given by Neander, *Light in Dark Places*, p. 50.—Mosheim, *Ch. Hist.* i, 164, 166; Neander, *Ch. Hist.* ii, 261, 304, 550; Cave, *Hist. Lit.* anno 502.

Cæsarius of Heisterbach, a preacher and historian of note, in 1199 became a Cistercian monk in the monastery of Heisterbach, in the diocese of Cologne. He became eventually prior of the convent of the Valley of St. Peter, near Bonn. He lived until the year 1227, but when he died is unknown. His writings are, 1. *De miraculis et visionibus sui temporis* (chiefly in Germany, Cologne, 1591, 8vo); the first edition is without name of place or date:—2. *Vita S. Engelberti archiep. Colon.* (Cologne, 1633, and in Surius, November 7th):—3. *Homilia*, edited under the title of *Fasciculi Moralitatis*, by Coppenstein (Cologne, 1615):—4. *Catalogus Episcoporum Coloniensium*, published, with a continuation by another author, in vol. ii of the *Fontes Rerum German.* (1845):—5. An inedited *Vita S. Elizabethæ* is preserved among the manuscripts of the library of Brussels. Many of his sermons are highly praised for their evangelical tone, as well as for their eloquence. His *De Miraculis* affords a graphic picture of the state of his times. See Kauffmann, *Cæsarius v. Heisterbach* (Köln, 1850); Cave, *Hist. Lit.* anno 1225; Herzog, *Real-Encyklop.* ii, 490.

Cæsarius of Nazianzus, a younger brother of Gregory Nazianzen, was educated first at Alexandria, whence he proceeded to Constantinople, where he obtained high honors, resisted the attempts of the Emperor Julian to win him from the faith, and died under Valens in 368. He was distinguished for his proficiency in physics and mathematics. Gregory delivered his funeral sermon (*Oratio funebris in laudem Cæsarii fratris*, Or. viii), in which his piety and devotion are lauded. According to Suidas, he wrote *contra Gentes*, and four Dialogues are given as his in the Latin editions of St. Gregory and in the *Bibliothecæ Patrum*. —Ullmann, *Life of Gregory*, p. 132; Cave, *Hist. Lit.* anno 362.

Cæsennius. See Pætus.

Cage (כְּלוּב, *kelub'*, φυλακή). Bird-cages are named in Jer. v, 27; Rev. xviii, 2; and are perhaps implied in Job xli, 5, where "playing with a bird" is

?*2, 12*0% **'8 ! 2',)*' -.,'1',)*.*'=6..65*.' ,)*' *=,' -*20*-.' ,' D ' (-6 5'6' ' ?=/ 25',.)?6*/' /6[*-' 1-' ,'86.' ;.*0' 1-' D1/0 25'0*>1 .' 8 ,)' 8) >)',1' *2,-6=' 1,)*-' D -0.' ;2, /',)*' >65*' 86.' ;// ' 62' 0*6'8) >)',)*' 0*- +6, 12' 1 ',)*' : *D% 81-0' >12 -?.' M -1?' N7N' ,1' % ,15*,)*-' D ',)*' .) ;,, 25' 1 ',)*' +6/+*.' 1-' ,-6=X% () .' 2,*-=-*,6, 12' .',)*-* 1-*' D*,,*-',)62',)6,'1',)*' ?6-5 2' >11= J' 1-',)6,' 1 ',)*' (6/?;0' 6' =/6>*' 1' 6,,*2 25 J' ?=/ 25',)6,',' 86.' ;.*0' 1-') 1/0 25' 80/0 1-',6?*' 18/.';2, /',)1A¢D*>6?*' ,' 1-',)*',6/ />% ()*' .6?*' 6-, >/*' .'-* *--*0',1' 2' >>/;.% L 'Q ' ;20*-',)*' ,*-?' 1=-6dd1>% 8) >)' .' */.*8)*-*' ;.*0' 1 '6',6=*-^ 25' D6.9*,% ** ' 2' *+% L+ ' K',)*' 4-**0',*-?' .' 1 E)38' ?*62 25' 6'=- .12' 1-'-*.,- >,*0')6D ,6, 12' -6,)*-',)62' 6' >65*% () .'A;..';; >*.',1' .)18',)6,',)*' 62> *2,' .-6*/ ,*.' 9*=;' D -0.' 2' >65*.!' D;,' 8*')6+*' 21' 6-,)*-' 2 1-?6, 12' 12',)*'.;DA*>,'21-' 62 ' 6//;. 12.' ,1' ,)1' . 2 [25' 1 ' D -0.' .1' 9*=,% ()*' >65*.' 8*-*' =-1D6/ / '1 ',)*' .6?*' 1-?.' 8) >)' 8*.,// 1D.*-+*' 2',)*' 6.,' 620' 8) >)' 6-*' .)18 2' 2',)*' 62^ 2*L*0' *25-6+ 25% ,' .' -*?6-96D/*',)6,',)*-*' .' 21

<10*?' -*2,6/ & >9*-' -0C>65*.%

6==*6-62>*' 1 ' D -0C>65*.' 2' 62 '1',)*' 01?*.,>'.>*2*.' 8) >)' 6-*' =1-,-6A7*0 12',)*' ?;-6/,6D/*,.'1',)*' 5 =^ ,62.% 2' ?1.'+ ' K',)*' .6?*' 81-0'+ ((0*21,*.' 6' -;,CD6.9*,'.1'>6//*0'01;D,/*..' -1?' ,.'-*.*?D/62>*' ,1'6'>65*% **' 8! !

6 62.' M %X' 6' 26?*' 5 +*2' D ' -*26A;.' = =)62 C ;.' 620' ()*101-*,',1' 6'.*>,'1' =),*.' 8)1?' ?10*-2' 8-,*-.'>6// ?1-*' >1--*>,/ ' 6 2,*.' M_% +%X% M %X' .*>,' ?*2, 12*0' D ' (*-.;// 62' 8) >)' -*A*>,*0',)*' 01>^ ,-2*' 1 ' D6=,.?% ,' .' 01;D, ;/' 8)*,)*-',).'.*>;' 0*2, >6/' 8 ,)',)*' =-*>*0 25% (*-.;// 62' ?*2, 12.' 6 >*-,6 2' #;2, //6' 6.',)*' 1;20*-' 620' .1?*')6+*' >12^ >/;0*0' -1?',).',)6,',)*' .*>,' .' 0*2, >6/' 8 ,)',)*' #;2, // 62.' M_% +%X

6 76=)6.' M 6 276>' =*-)6=.' -1?' ,)*')6/0% % 8' >6//*0' D ' B1.*=);.' >& ' L+ ' K' KX' D %"' %" ' M(8>2A(-1>' ') ') 1 8' 86.') 5)C=- *.,'1',)*' B*8.' 2',)*' -* 52' 1 ' (D*- ;.' 6*.6-' 6,',)*' D*5 22 25' 1 '1;-' 1-0 .' =;D/ >' ? 2 .,- ' M ;9*') ' KX' % % K ' 620' 6/.1' 6,',)*' , ?*' 1 ') .' >120*?26^ , 12' 620' >-;> L 12' M<6,,'LL+ ' N' T B1)2' L ' RT L+ ' N ' ' K ' KQT >,.' + ' SX' % % KR% ()*' -1^ >;-6,1-' 6/*- ;.' 4-6,;.' .)1-,/ 'D* 1-*') .'/*6+ 25',)1' =-1+ 2>*' M % % K X'6==1 2,*0') ?',1',)*'0 52, '8) >)' 86.' D* 1-*')*/0' DE' ?12' D*2C 6?,)% :*')*/0',' 0;-25',)*' 8)1/*=-1>;-6,1-.)='1' 12, ;.' /6,*'D;,' .112' 6 ,*-') .'-*?1+6/ -1?',)6,'1 >*' 86.'0*=1.*0' D ' ,)*' -1>12.;/ ,*// ;.' M % % NSX' 620' .;>>**0*0' D ' B126,)62' .12' 1 ' 262;.' MB1.*=)% & !' L+ ' ' NX% 1?*' 2',)*' 62> *2,');->)'>12 1;20*0')?' 8 ,)',)*') ,1- 62' B1.*=);.' 620' D*/ *+*0') ?',1')6+*' D*>1?*' 6' >12+*-,',1')- ., 62 , ' M ..*?62 ' ; " ', ! ' S X% : .'8 *' 86.',)*' 06;5),*-'1' 226.'1-' 26^ 2;.'8)1')60' 1-?*-/ 'D**2')5)C=- *.,'620' 8)1'.,// =1..*..*0'5-*6,' 2 /;*2>*' 620' >12,-1/ 2'.6>*-01,6/?6,^ ,*-.' .'+*+-6/ 1 ') .' 6? / ' .;>>*.. +*/ ')1/0 25',)*') 5)C=- *.,)110% ()*' 26?*.' 1 ' 226.' 620' 6 6=)6.' D* 25',)*' 6-*'>1;=/*0' D ' ;9*' 226.' 620' 6 6=)6.' D* 25',)*') 5)C=- *.,.TJ' 620',) .')6.'5 +*2' 1>>6. 12',1'21'.?6// 6?1;2,'1 '0.>;.. 12% 1?*' ?6 2,6 2',)6,' =26.' 620' 6 6=)6.',)*2' 0 .>)6-5*0',)*' ;2>, 12.' 1 ',)*') 5)C =- *.,)110' D ',;-2.' D;',)' .' 21,'-*>12> /6D/*' 8 ,)' ,)*' .,6,*?*2,' 1 'B1.*=);.% ,)*-',) 29',)6,' 6 6^ =)6.' .' ') 5)C=- *.,' D*>6;.*')*',)*2' 6>,;6//E'*L^ *-> .*0',)*' ;2>, 12.' 1 ',)*' 1 >*' 620',)6,' 226.' .' .1' >6//*0' D*>6;.*')*')60' 1-?*-/ ' //*0',)*' .,;6, 12% ;,' ,'01*.' 21,',);.' 6==*6-' 8) '1',),)1.*' 8)1')*/0 ,)*') 5)C=- *.,)110' D* 1-*' 6 6=)6.' 226.' 2' =6-^ ,>;/6-'.)1;/0' D*' 26?*0' 620' 21,'.)?6*/' /6[*-' 1-' ?127' 8)1')60' 6//'.*-+*0',)*' 1 >*' ?1-*' -*>*2,/ ' ,?2' 226.% :*2>*' ;21/' 620' 1,)*-.' >12. 0*-' ,' 6.',)*' ?1-*' =-1D6D/*' 1= 2 12',)6,' 6 6=)6.' 86.',)1') 5)C=- *.,'D;,',)6,' 226.' 86.') .'+ >6-' 1-' 0*=;, ' >6//*0' 2',)*' : *D-*8' / ' % ! 1-' >62',)6,'1 >*' D*',)1;5),',;281-,) '1'6' ?62' 8)1')60' //*0',)*' =12^ , >6/1 >*' . 2>*',)*' 0 52, '1 '.6562' 86.' 6./.1' 5-*6,% ();.' 1-' 2.,62>*' 12' ;-5*2,'1>>6. 12.')1' ? 5),'*+*2' *2,*-',)*' : 1/ '1' : 1/ *.' M 5), 11,'D !' " '60' ;>% ' KX% 1-' 1;5),' ,',1' .**?' .,-625*' 1-' ;2;.;6/',)6,' ,)*' + >6-' 1 '6') 5)C=- *.,' .)1;/0' D*' >6//*0' D ',)6,' 26?*% 1-' '6.' ,'6==*6-.','),)1.*' 8)1')60' 12>*')*/0' ,)*' 1 >*' 8*-*' 6 ,*-' D ' >1;-,*. ' >6//*0',)*') 5)C=- *.,.' 8 ,)' 5-*6,*-'A;., >*' ?5),' 226.' 8)1' 86.'D1,)' 6' =12C ,)>6/=*-.12'620') 5)C=- *.,.'+ >6-' D1'.1' >6//*0% 2' 6>,',)*' +*- ' 6==*//6, 12' 1 ') 5)C=- *.,' .' 5 +*2',1' 6' .6562')% ' B1.*=);.' MI 2% L+ ' S' X% M **',)*' >1?^ ?*2,6,1-.'12' ;9*' 'K'=6-, >;/6-/ ' :6?? 120% 5),C 11,' ; 21/'620' /11? */0%X **' ! 6 6=)6.' D*/125*0',1',)*' .*>,' 1 ',)*' 600;>1*.' M >,.' + ' X% M **' : *>),' ' ' $ ' %" %' ;0% Q%X '' ? ,)' .% %' ,,1' .% +% **' % ' 4/ ! ()*' 8120*- ;/? -6>/*' 1 '-6 . 25' 6[6-;.' -1?',)*' 0*60' >12+ 2>*0' ?62 '1',)1'B*8.',)6,')-.,'8I6'.*2,' -1?' 4 10' 620',)*' >) *'=-*..' 620',)*')6-.**.' 6/6-?*0'6,',)*' 2>-*6.*' 1 ') .' 1//18*-.' .;??12*0'6' >1;2> /'620'=-*,*20*0',)6,',)* -'/ D*-,*.'8*-*' 2' 062^ 5*-'',)6,',)*' -' 0*.,-;>, 12' 86.' 2*+ ,6D/*' .1?*,) 25' +*-*' 21,'012*' 6,'12>*',1'>)*>9') .'=-15-*..% 6 6=)6.' 86.'6' ?*?D*-' 1 ',)1' >1;2> /'620'*L=-*..*0') .' 0*> ^ 0*0' 1= 2 12' 2' 6+1-'1 '=;,, 25' B*.$.',1'0*6,)'6.',)1' 12/' 86 '1 '.6+ 25',)1' 26, 12' -1?',)*' *+ /.' 8) >)') .' .;>>*..' 81;/0' D- 25' ;=12',)*?% : .' /625;65*' 86.' >'9218'21,) 25' 6,'6//'Z 1-'>12.GH 1-',)6,',' .' *L=*0 *2,' 1-',',)6,'12*' ?62' .)1;/0'0*' 1-',)*' =>17 = *' 620',)6,',)*' 8)1/*' 26, 12' =*- .)' -1,J' MB1)2' L ' RX% ().'>1;2.*/ 86.'8 >9*0'620';2A;.,' 2%,)*') 5)^ *.,'0*5-**'D;,'6.',)*-*' 86.' 21' 1B *2>1' >)6-5*0' ,' .**?*0',)*' 12/ '=/6;.D/*' *L>;.*' 1-'=;,, 25')-.,',1' 0*6,)% ()*') 5)C=- *.,.'/625;65*' 12',) .' 1>>6. 12' 86.'=-1=)*,>',)1;5)')*' 0 0' 21,' 2,*20' ,' .1% ()1' *+625*/.,' 2'5 + 25'62' 6>>1;2,'1',) .' *L,-61-0 26- ' 1>>;--*2>*' *2/6-5*.' 12',)*' =-1=)*,>'/625;65*' 1 ',)*') 5)C=- *.,'620'.)18.',)*' *L,*2,' 620'D/*..*02*..' 1 ',)*0 .=*2.6, 12'1 '?*-> ',)-1;5)'B*.;.')-.,% 1,)^ 25'1 ',) .')18*+*-' 86.' 2',)*' ? 20'1',)*' >-;*/620' D 51,*0') 5)C=- *.,% ,*-')-.,' 86.' 6--*.,*0')1' 86.' -.,',69*2' D* 1-*' 226.' 8)1'.*2,') ?',1') .' .12C 2C/68' 6 6=)6.' 8)1'=-1D6D/' /+*0' 2',)*' .6?*')1;.*T')*' 86.',)*2' 6--6 52*0' D* 1-*' 6 6=)6.' 620' 62'* 1-,' 86.' ?60*',1'=-10;>*' 6/.*',*.,?12 '.;^ >*2,' 1-') .' >120*?26, 12% () .' *L=*0 *2,' 6 /*0' 1-',)1;5)',81'=*-.12.' 6==*6-*0',1',*.,E ',)*' 0 0' 21,'65-**' 620' 6,'/6.,' 6 6=)6.'=;,'1;-' 6+ 1;-') ?^ .*/' ;=12' 16,)',)6,')1' .)1;/0' .6 '8)*,)*-')*' 86.' 2^ 0*0',)*')- .,',)*' 12' 1' 410' 1-' 21,% ()*' 62.8*-' 86.'1'>1;-.*' 2',)*' 6 -?6,+*' M_% +%X' 620' 86.' 6>^ >1?=62*0' 8 ,)' 6' 0*>/6-6, 12' 1 ') .' + 2*' =18*-' 620' ?6A*.,% ()*') 5)C=- *.,'=-*,*20*0',1' D*' 5-*6,^ /'5- *+*0' 6,'8)6,')*' >12. 0*-*0',)*' D/6.=)*?' M_% +%X' 1'1;-' 6+ 1;-.'=-*,*2. 12.'620' 1-,)8,)' 6==*6/*0' ,1') .' *2-65*0' *2*? *.',1' .6 ',) .' 86.' 21,'*21;5).' ()*' 62.8*-*0' 6,'12>*',)6,')*' 0*.*-+*0',1' 0*'620' ,)*2' 2',)*' +*- ' =-*.*2>*' 1 ' 6 6=)6.' 620' 8 ,)1;,' 62 '-*.,-6 2,' -1?') ?',)*' *' *//';=12',)*-;' 5;/,/*..' + >,?'8 ,)' 2.;/,.'620' 2%;-*.% .' 6 6=)6.')60' 21' =18*-',1' 2 >,',)*' =;2.)?*2,' 1 '0*6,)')-.,' 86.' ,69*2' -1?') ?',1' /6,*',)*' 1?62' 51+*-21-',)6,') .' *L*>;, 12' ? 5),' D*' 0;/' 1-0*-*0' M<6,,'LL+ ' N' S T B1)2' L+ ' N' KQX% ()*' D 51,*0' ;-'1' 6 6=)6.' *L) D ,*0' ,.*/ '6/.1'656 2.',)*' ?,'* 1-,.'1',)*' 6=1.^ ,/*.' M >,.' +' SX

(-*6, .*.' ?1-*' 1-'/*..'5*2*-6/'12',)*' >)6-6>,*-' 620' >120;>,' 1 ' 6 6=)6.' 2' ,)*' 6D1+*' ,-62.6>, 12')6+*

, 12 ' ;2.62*, *0' D ' -*/ 5 12 ' 620' =-10 ;>, +*' 1 ' / ; L ; ^ - '620'+ 1/*2>*† 12',)*' 1,)*-' . 0* '6' ..6,*' 1 '. ?=/ > , ' 8 D >)'60D-0>0' 21' ?6,*- 6/ 1-') .,1- ' 'D* 120',)*' 0*>^ /6-6, 12 ' 77(/ *2' D*% -62' ?*2',1' >6// ; =12',)*' 26?*' 1 ' ,)*' 1-0% ' ()*') .,1- 62',) ; .' 6>>1;2,.' 1-',)*' =-1^ 5-*.. +*'0*5*2*-6, 12'1 ',)*'-*/ 5 1 ;.'>120 , 12'1 '?62' ,)*' *+ / 56 2 25'6' =-*01? 262>*' 1+*-',)*' 5110' D ' ,.' 6// 62>*' 8 ,)' 81-/0/ '=18*-' 620' 9218/*05*' 620' =-1^ 0 ;> 25',)*' .,6,*' 1 ',) 25.'8) >)'2*>*.. ,6,*0',)*' /110% ' **' $!

MX7%X 21,)*-' ?1, +*' ?6 'D*' 6.. 52*0' 1-',)*' 2,-1^ 0 ;>, 12'1 ',) .' =1-, 12' 1 '.6>-*0') .,1- % // 62> *2, 26, 12.')6+71+*0',1',-6>*' ;=',)*' 2+*2, 12' 1 ',)*' 6-,.' ,1' .1?*'>*- $ 2'6 ;,)1-' 620' 5*2*-6// '.=*69 25',)*.*' 6 ;,)1-.')6+*' D**2' -*56-0*0' 6.' 1 A*>,.' 1 '0 + 2*' 81-^ .) =% ?125',)*' 4-**9.' =1//1' &6.')*/0',1' D1',)6' 2+*2,1-' 1 ' ? ;. >' ;/>62' 1 ',)*' 81-9 25' 1 ' ?*,6/. ' (- =,1/*?;.' M.**' : 5 2% K X' 1 ',)*' =/1;5) % ' . ? ^ /6-' **/ 25' 1 '>;- 1. , '=-*+6 /*0'6?125',)*' : *D-*8.† 620')*2>*' ,)*') .,1- 62')6.' -*>1-0*0',)*' 26?*.' 1 ' ,)1.*',1' 8)1?',)*' 2+*2, 12' 1 ',)*'6-,.' 86.',-60 , 12C 6//E'6.. 52*0' 1D+ 6, 25'6, ',)*' .6?*', ?*',)*' 0625*^ 1 ; .' *--1-' 2,1' 8) >)' 1,)*-' 26, 12.')60' 6//*2' 620' 3-*0;> 25',)*' *., ?6,*' 1 ',)* -' +6/;*' D ',)*' =1. , 12' 8) >)',)* -' 2+*2,1-.')*/O% *>' g ! 00 , 126/ ,-*6, .*.d ,1>9?622' ' ' % = + 'MB*2% RKXT 62[' -%M D% 4Q ' NKXT 1..*>9' VP ' #D ' ' '# ' M =.% Q XT *?* *-' + + !' ' ._HT ;,,?622' " !' % MN'._%T ,)1' 1 !' 5 "' = % GX . _%T .*2?*25*-' 6 D' D "!' ' MKK' ' QNK' QNST : 1,, 25*-' D !' , ' = ' K T D "!' !' ; "!' 'R '._%T 6>9' 2',)*' ; !' ! N ' ; # "!' % ' S 'A' 1.*2? //*-' 2 " ' 2' /1>% M-*2%T / /1' L%%!' ' Q1T &)6,*/ ' % 1' =% T ; = 2') !' ; !' =% T ,,1' ' ; ' !' 2' /1>%T +62.' $ % !' ; !' ' '._%T : ; 2,*-' $!' ; ! =% ' ._% ** $! Y K% M : *D% '8 ,)',)*' 6-, >/*' +' =) (7EHXHGHF ```,) /62>*TJ' D ; ,' ?6 ' D*' 0*- +*0' -1?' IA'H' /*2 ' 6' 2*., J' =1.. D/ ' 2'6//; . 12',1' ,.'=1. , 12T *=,%(&) %' !' -% D ' 2>/;0 25',)*' 26?*' =-*>*0 25T ;/5% & !8' 2*' 1 ',)*' > , *.' 2',)*' /18' >1;2, I7 I1$" = "8' 1 'B ; 06) ' 26?*0' 8 ,)' U6216)' 620' M/ D*6)' MB1.) % d ' SXT 6==6-*2,/ ',)*' ?10*-2' + //65*' < " 1' 6' .)1-, 0 .,62>*' .1 ;,)C*6.,' 1 ' /* -1 'M 62' 0*' */0*' 1' =% N$ X' 218' 6' <1)6?*?062' .,6, 12 ' .6 0' ,1' D*' ,)*' =/6>*' 8)*-*' 1,' .,1==*0' 6 ,*-') .' 0 5 ,' -1?' 101?' M 1) 2.12' 5 " 1' ' R X% 6 262' M : *D%) E 0*- +6, 12' 6?D 5 ;^ 1 ; . ' 6.' 2' ,)*' >6.*' 1 ' 6 2J' _*+%h ' 620' . 52 25' * ,)*-' \.1' ;-.,h' 1-' '\.1' 4*.*2 ; .hT *=,% D ; ' ? 2 ' 2')-12% 6=0' % (%T B1.*^ =) ; ' -, 0>' D' GXF,)*' 26?*' 1 'M?*' 1-',81' ?*2% ()*' 1 ;-,)' 62,*0 /; + 62'=6->?C -; .' 6..*-,.' ,)6,' ,)*')6/0**.' 2',)*' , ?*' 1 ' (*-6)' 620' D-6?'81-.) =^ =*0' 6' 5-6+*2' 510' >6//*0' 6 262T 620' 4-*51-E7 6-C : *D-.*; . ' 621,)*-' - 6>'6 ; ,)1-' 6/.1' 6==/ *.' ,' ,1',)*' .12' 1 ' -=)6L60'M < //' N (' ?% D '=% 1X% ()*' 1- 5 2' 1 ',)*' ,-60 , 12' .' 21,' 92182T D ; ,' ,' ?6 ' =-1D6D/ ')6+*' D**2' . ; 55*.,*0' D ',)*' ?*62 25' 1 ',)*' . ; ==1.*0'-11,' 2' -6D >'620',)*' -6?6A62'0 6/*>,. 'A ; .,' 6.' 621,)*-' . 52 >6, 12'1 ',)*' .6?*-11,' .**?.',1',)6+*' . ; 55*.,*0' ,)*' ,-60 , 12' ,)6,' ,)*' 06 ; 5),*-.' 1 ' 6 2' 8*-*' ,)*' -.,' 8)1' ?60*' 620' ',1' ?; . >6/' 2.,-; ^ ?*2,.' M4*.*2 ; . ' -" !' .% +% ! 7 X1' : .' 26?*' .' 25/ > [*0' *262J' 2' ,)*' ;,)% *-.' 6,' ')-12% ' K% ' ?',)' .% +% K% ()*' .12'1 ' -=)6L60' 620' 6,)*-'1 ' 6/6 '6>>1-0^ 25',1' ;9*' 'N 'NS' 620' ; . ; 6// ' >6//*0',)*' .*>120' 6 262% : *' .' 6/.1' 1;20' 2',)' =-*.*2,'>1= *.'1 ',)*' *=,' 2',)*' 5*2*6/15 '1 ')*?'4*2% L 'K T L ' K' 620' N M8)*-*') .') .,1- ' .' 5 +*2' 2' ;// / 9*',)*' -*.,a' 20' -=)6L60' / +*0' N ' *6-.' 620' D*56,' 6 262% 20' -=)6L60' / +*0' 6 ,*-' / *' D*56,' 6 262' ' *6-.' 620' D*56,' .12.' 620' 06 ; 5),*-.% 20')*' 0 *0% 20' 6 262' / +*0' N ' *6-.' 620' D*56,' 6/)% 20' 6 262' / +*0' 6 ,*-')1' D*56,' 6/6)' NN ' *6-.' 620' D*56,' .12.' 620' 06 ; 5),*-.% 20')1' 0 *0JX' 620' ' M) -12% ' Q M,)1 ; 5)')1' .' 1? ,,*0' 2' ')-12% 'K X' D ; ,' .' 218)*-* 26?*0' 2',)*' : *D-*8',*L, ' 21-' 2' 62 ' 1 ',)*' +*-. 12.' ?60*' -1?' , ' 6.' ,)*' 6?6-,62 ')6/0**' - 6>' ;/^ 56,*' *,>% .' ,)*' 600 , 12' 1 ') .' 5*2*-6, 12' 1 ' N ' >6-.' 2',)*' .*-*.' 1 ' 26?*.' .' 1 ' 5-*6,'>)-121/15 >6/ ?=1-,62>*' 620' .' 12*' 1 ',)*' > ->; ?..62>*.' 8) >)' -*2^ 0*-' ,)*' 3 >=, ; >_A 2,' >1?=;,6, 12' 1 ', ?*' /125*-' ,)62' ,)*' : *D-*8 ',) .' ?6,*-')6.' *2565*0' ?;>)' 6,,*2, 12' 1' N ' 620')6.' /*0',1' 5-*6,' 0 .>;.. 12' 6?125' >D-121/151-.% ** ' #! 1?*')6+*' .;55*.,*0',)6,' ,)*' B*8.' =;-=1.*/ '*L>/;0*0',)*' .*>120' 6 262' -1?',)* -' >1=*.' & ,)' ,)1' 0*. 52' 1 ' -*20*- 25',)*' *=,;65 2,' 620' ;9*' .;.=*>,*0T 1,)*-.' ,)6,' <1.*.'1? ,,*0' >C 262' D* 25' 0*. -1;.' 1 '-*>912 25',*2' 5*2*-6, 12.' 12/ ' -1?' 06?' ,1' 16)' 620' -1?' 16)' ,1' D-6)6?% 12*' .;==1.*',)6,' -=)6L60' 86.' 6,)*-'1 ' 6 262' 620' 6/6)' ''1 ' 6/6)' 26,;-6/GE ' 620' 1 ' 6 262' /*56// T 8)/*' 1,)*-.' 6//*5*' ,)6,' 6 _62' 620' 6/6)' 8*-*',)1' .6?*'=*-.12' ;20*-',81'26?*.% ' .' D*/ *+*0' D ' ?62 ' 18)*+*-',)6,',)*' 26?*' 1',) .' .*>120' 6 262' 86.' 21,' 1- 5 26// ' 2',)*',*L, >+>2' 1 ' ;9*' D ; ,' .' 62' 600 , 12' 1 ' 260+*-,*2,',-62.>- D*-.' 8)1'-*?6-9 25' ,' 2' .*?*' >1'X >.' = ',)*' *=,;65 2,' 600*0' ,' M ; 21/' ' ' $' 4X% I : 6/>6',)1;5) ' 6.' 62' 60+1>6,*' 1',)*' /125*-' >)-121/15 '=-*0 .=1.*0',1' ,.' *,>2, 12' 0*>0*.' ,)6,' 8*' 6-*' /; / ' 86--62,*0',1' >12>/;0*',)6,' ,)*' .*>120' 6 262' 86.' 21,'1- 5 26// ' 2',)*' : *D-*8',*L, '6,'/*6.,' 21-' 2',)*' *=,;65 2,' 620' 1,)*-'+*-. 12.' 0*- +*0' ,'1?' ,' I " 1' ' KR X% 1?*' 1',)*' 5-1;20.' 1-',) .' >12>/;. 12' 6->' % /) 6,',)*' : *D-*8' 620' 6?6-,62' & ,)' 6// ,)*' 6=* *2,' +*-. 12.' 620',6-5;?.' >12>;-' 2' ,)*' 1? .. 12T K% ')6,',)*' *=,;65 2,' 120' 6 262' 86.' 21,'>12. .,*2' 8 ,)' ,.*/ T 1-' 2',)*' -*=*, , 12' 1 '5*2*6/15 *.' 2' ')-12' ' K ' ,'1? ,' 6 262' 620' 65-**.' 8 ,)' ,)*' : *^ D-*8',*L,T N% ()6,',)*' .*>120' 6 262' .' . /*2,/ '-*^ A*>,*0' D 'B1.*=);.' D ') /1' D 'B1)2' 1 ' 2, 1>)' 620' D ' ; .*D ; T 620' `,)6,' 8) /*' - 5*2' -*,6 2*0',)*' 26?*' ,.*/ ')*' 2') .' >1= '1 ',)*' *=,;65 2, ' ?6-9*0' ,' 8 ,)' 62' 1D*/ .9' 6.' 62' ;26;,)1- [*0'-*60 25% ' >*-^ ,6 2/ ' 86.' 21,' >12,6 2*0' 2' 62 ' >1=*.' 1 ',)*' D/* 8)>)' *-1.;.' ;=1/*?;.' 1/E) .,1-' ()*1=) /;.' 1 ' 2, 1>)' B ; / ;.' - >62;.' 1-' *+*2' B*-1?*')60' 6>>*.' ,1% <1-*1+*-' ,' .**?.', 6',)*' 2,-;. 12' 1 ',)*' 26?*' *+*2' 2,1',)*' *=,' .'>1?=6-6, +*/ ' ?10*-2'. 2>*' ;^ 5;., 2*' .',)*' -.,' 8-,*-' 8)1' ?*2, 12.' 1;20' 2' ,)*' % (*6,'6//% *?*,-;.' M % % X' _;1,*0' D ' ;C .*D ;\7 I %!' 6 !' L ' K X' -*>912.' %NS ' *6-.' -1?' ,)*' D -,)' 1')*?',1' B6>1D.' 51 25' 0182',1' 5 =,' 8)>)' ,1' 2>/;0*',)*' N ' *6-.' 1' 6 262% ;,' 2',)1' 5-*6,' /;>,;6, 12' 1 ',)*' 2; ?D*-.' 2',)*' 65*.' 1 ' ,)*' =6,- 6->). ' 21' -*/ 62>*' >62' D*' =/6>*0' 12',) .' 6-5;^ ?*2,% 1-')6+*' 8*' 62 ' >*-,6 2, ' ,)6,' ,)*' 5;-*.')6+*' 21,' D**2' 6/,*-*0' 2',)*' ?10*-2'>1=*.' 1 ' ;.*D ^ ;.' ,1' ?69*',)*?' 65-**' 8 ,)' ,)*' >1?=;,6, 12' 1 ',)1' 6/,*-*0' >1=*.' 1 ',)*' *=,% ()6,',)*' 2; ?D*-.' 20 ^ >6, 25',)*' /125*+ , ' 620' =6,*-2 , ' 1 ' ,) .' =6,- 6->)' 6-*' *+ 0*2,/ 'D1--18*0' -12',)1.*' ?*0 6,*/ '60A1 2^ 25' 6.' .',)*' 26?*' ,.*/ ' -1?' ,)6,' 1 ',)*' 62,*0 /;+ 62' =6,- 6->)% ** : * 0*55*-' # ! " ' ' QC T 1>)6-,' " 1' D% ' >6=% NT < // .' N ! ' ' (' ? ! =% N ._T ;.% # ' 6 ! ' N% I _%T < >)6*/ . ' ' ' " ! '% ' ! M 2',)*' ._%T ,-62./6,*0' 2',)*' & ' $! ?' SN ._%T ,-62./6,*0' 2',)*' & ' ; ! 5 % ! B ; / ' Q ' =% ' 6_%XT 6,*- ' ' / ' ' ' ' ._% ** & #' : ' ' 3! 3 6 2 ,*. ' 6' .*>,'1 ' 421.,>.',)6,' .=-;25' ;=' 6D1;',)*' *6-' N ' 620' .' >/6..*0' 8 ,)' ,)*' =) ,*.' M_% +%X I

1-' >-=.2, 2 62.% ()* ')*/0',)6,'$ %" ' M& .01?X' 1;20' ?*62.',1' =-*.*- *' 2' *+*- '65*' 2',) .' 81-/0' 8)>)',)*' *? ;-5*')60'>-*6,*0'6'-6>*'D*6- 25'8 ,) 2',)*?'6' .= - .;6/ 26,;-*' . ? /6-',1')*-'182'620' 2,*2,' ;=12'1==1. 25',)*', -622 '1',)*' *? ;-5*% ()*' 6 2C' ,*.'-*56-0*0' 6 2'6.',)*')*' 1',) .'-6>*% ()*' ')12^ 1-*0' 6 2'620',)*'*+ /')6-6>,*-.'1' >- =,;-*'5*2*-^ 6// '12',)*'5-1;20',)6,' 2' =-1=1-,12',1',)*')6,-*0' .;>)')6-6>,*-.'*+ 2>*0'1',)*'/68.'1',)*'410'1',) .' 81/0'M,)*' *? ;-5*X',)*'?1-*'81-,) / '0 0',)*'6>,' 2.',)*'.12.'1'$ %" '8)1.*>)*'81-9' .',1'0*.,-1',)*' 9 2501?'1',)*' *? ;-5*% 1-',)*'.6?*'-*6.12',)*')121-*0' 1-6)' 6,D62'620' D-6?'6.'8*// 6.',)*' 2^)6D ,62,.'1' 101?'620'B206.' .>6- 1,'8)1?',)*' '-*^ 56-0*0'6.'=-1>;- 25',)*'0*6,)'1')- .,' -1?',)*'=;-*.,' ?1, +*.'7P-')*'92*8',)6,',) .'86.',)*'12/ '=1.. D/*' 86'1'*' *>, 25',)*'0*.,-;>, 12'1',)*' *? ;-5*.' 9 2501?% : ==1/ .;7' ?*2, 12.',)*' 6 2 ,*.' 2' D.' " %+U F ' + ' K% ' *620*-' "!' # ' ' QT' ;5;..%' ;' # !' >6=% L+ 1' (*-,;//% *' (% !' >6=% L/+ 1' 6-02*-' ' + ' S %

6 ;.'M1',)*' *8' (*.,%X% **' & $!

6 ;.'M*?=*-1-'1' 1?*X% **' $!

6 ;.' 1-' 46 ;.'6'=-*.D ,*-' 1',)*');->)' 1' 1?*' 8)1' /1;-.)*0'6D1;';K 2',)*', ?*'1'U*=) C - 2;.' 620' 6///.,;.%)1, ;.'>6//.') ?' ' ; ' +-) '6'0*. 526, 12',)*'?*62 25'1' 8)>)' .' 21,' >/*6-% &)*2'6,' 1?*')*)*/0'6'>*/*D-6,*0'0 .=:,6^ , 12'8 ,)' -1>/;.',)*)*60'1 '6' .*>,' 1' <12,62 .,.' 8)>)')*6 ,*-86-0'-*0;>*0',1'8- , 25' 2',)*' 1-?'1' 0 6/15;*.% ;.*D ;'_;1,*.' -65?*2,.'1',) .'81-9'2' / D% '>6=% K '620'6/.1' 2'/ D% X '>6=% KQ'620' :D% + ' >6=% K % 6 ;.'6/.1'8-1,*' 6'D119'>6//*0' -"[' 1' "'620'621,)*-'656 2.' -,*?12';2/*..',)*' 1-?*-' D*',)*'.6?*'8 ,)',)*'81-9'6,,- D;,*0',1' -5*2'6.' 6+*' .;==1.*.% ;.*D ;'5 +*.'62' *L,-6>,' -1?',)*' / D% '>6=% KQ%)1, ;.'6/.1'6,,- D;,*.',1',) .' 6 ;.'6' (-*6, .*'12',)*'$2 +*-.*'D;,'D1,)',) .'620',)*' ' 6D^ - 2,)J'6-*'218'6,,- D;,*0',1' :==1/ ,;.% **' ;2C' 3'.*2'# %% ' '"M'- :'6/.1', ' '# *% 1' ' 2',)*' 1"!' '5 ' Q '=% S ST' 62C' 012'.% % **' % // # $!

6 ;.'1-' 46 2.'6' 6/?6, 62'*/*>,*0'D .)1=' 1' 1?*' 2' KQN' 620' .' .6 0',1')6+*' .; *-*0' ?6-,7701?' ;20*-' 1>/*, 62' =-/K 'KRS% : .'*= ./*' 86.'*0 ,^ *0'8 ,)' 21,*.'*,> 'D ' e.% *>//,.'6'=-*.,'1',)*' 1-6,1- '1' $-D 21' 620' .;DA1 2*0',1',)*' >,.'1')' <6-, -01?'=;D/ .)*0'6,' 1?*' 2' SKQ% ' 62012'.% % 6 ;.'(' I1) '1-') ' 6, 2 [*0' 2,1' (8' <% %' 86.')1-2'6,' 1-8 >)' >,%S '620'D*>6?*' .;>>*.. +*/' -.,'=) . > 62',1' 086-0' '<6-AW 620' / [6D*,)% : *'0 *0'B;/ 'K N% : *' 1;20*0',)*'>1/^ /*5*' 8)>)'D*6-.') .'26?*' 6,' 6?D- 05*' 1-',8*2, C ,)-*-*'! ,;0*2.,% : *' 86.'6'5110'>/6.. >6/.>)1/6-'620' 8-1,*'?62',-*6, .*.'12'.;DA*>,.'>122*>,*0'8 ,)'?*0^ > 2*' =0'26,;-6/') ..,1- % : *'=;D/.)*0'6/.1'6',-*6, .*' 12',)*' 62, _;, '1',)*'$2 +*-., '1' 6?D- 05*'M8)>),)*' ,6,*.'86.' 1;20*0'D ' ' 'NR ' ' " 8'620'621,)*-'12',)*'=-12;2> 6, 12'1'4-**9'620' 6, 2% : .',1?D'., // -*?6 2.' 2' 6 ;.' 1//*5*' 8 ,)' 12/ ',) .' 2.>- =, 12' ;' 6 ;.%J ' 62012'.% +%

6A*,62' :& ' O ' P' 1X'>6-0 26/' .;-26?*0' -1?'46>,6'8)*-*')*'86.'D1-2' *D% K SR' M1,)*-.'.6 'B;/ 'K X% : .'=-1=*-'26?*'86.'B6>1D' D;',)*'6..;?*0',)6,'1' ()1?6.' 2')121-' 1' ()1?6.' _;. 26.% ',**2')*'D*>6?*'6' 1? 2 >62'620' 2' Q%)*'86.' ?60*'5*2*-6/1') .'1-0*-% 2' *1' d' ?60*') ?'>6-0 26/'620'6/.1') .'/*56,*' 2'4*-?62 ',)*'=- 2> =6/1DA*>,'1') .' ? .. 12'D* 25',1'D- 25'D6>9' ;,)*-',1',)*'1D*0 *2>*' 1',)*' : 1/' **' D* 1-*') .' .*=6-6, 12'86.' 26// '>1?=/*,*0% 6A*,62' ;/ //*0') .' ? .. 12' 2'6')6;5), '620' ?=*-1;.'?622*-'620'21,)^ 25'>6?*'1',% 2' R')*'86.'6==1 2,*0',1',)*'-' ?.C' 7'. 12.'620'0 *0'6,' 1?*' 2' N % : *'=;D/.)*0'6' *-^ 1'46*,6'6,*-'8)>)')*'86.'*?=/1 *0' 2' 1,)*-' ?.C'

. 12' ' " 'L' -'M ,-%N !' - !8'M 12.' SNR' '+1/.% 1/%Xa ' D ' $ ' -" ' &4 O ' a ' ' ,% 'M6?125'8)>)' .') .',-*6, .*'12',)*'6;,)1-, ' 1',)*'=1=*' 2' 8)>)')*'5+*.'+*2,',1',)*'*L,-*?*.,' + *8.'1' ;/,-6C?12,62 .?'620'8)>)'86.'-* ;,*0'D' 1-0*-'1',)*' 6>;/, '1' 6- .Xa' - ' ' % =' '% % ;' ' 'M *2>*' N X% : .' 81-9.'6-*' >1//*>,*0'620'.1?*8)6,'?10 *0'M 12.' SNR' 1DX% ' <1.)*?' "!'# ' 'KN' :'1*'*-'7 !';' ' ? '+ ' KT' :1?*';' !'&%% '=,%' >)% ' .*>,%' %

69*'M-*=-*.*2,*0'D '.*+*-6/ :*D% 81-0.T .**'D*^ /18X% ()*' :*D-*8.';.*0' 6-1;'.1-,'1'>69*.'8)>)' 86.',)*' 1-?';.;6// '5 +*2',1' -*2,6/D-*60'MK' 6?% + ' RT' 25.' L+ ' KX% *>') ! ()*' 8*-*' /*6+*2*0'1-';2/*6+*2*0% ()*'6/.1'1 *-*0'>69*.' 2' ,)*(*?=/*?60*'1'8)*6,'1-'1'D6-/*A'92*60*0'.1?*^ ,?*.'8,)'1/620'.1?*.?*.'8,)')12* % 1-',)*' =;-=1.*.'1'1 *-25',)*.*'>69*.'8*-*'.6/,*0'D;',;2^ /*6+*2*0'M L10% LL LA'\T *+% ' X% 2'B*-% +$' QT' L/+'R'8*'-*60'1',)*' :*D-*8.'92*60 25',)*'-'01;5)' ',1'?69*'>69*.',1',)*'_;**2'1')*6+*2J\.** ' 4' ;'8)>)'6==*6-.',1')6+*'D**2'-1?'*6-/',?*.' 62'01/6,-1;.'=-6>,>*'620'86.'6/.1',)*'>;.,1?'1',)*' 4-**9.'620' 1?62.% ()*'62>*2,' 5 =, 62.'6/.1'?60*' 1 *- 25.'01'>69*.',1',)*-'0*,*.% 2' :1,>6'+ 'Q' =)-6 ?' .'>6//*0' 6'>69*'21,',;-2*0%J' ().' 5;-6^ ,+*'*L=-*.. 12' //;.,-6,*.',)*'?L,;-*'1',-;.,)' 620' 01/6,-'MB*8.'620'4*2,/*.'6?125',/*' =)-6?,*.X' D'01;5)'D69*0'12'12*'.0*'12/ '620',)*-*1-*'2*^ ,)*-'01;5)'21-'D-*60% **'8 4 % @ ' 2 !'()*'1-0 26-'M8)*6,*2X'D-*60' 1',)*':*D-*8.'>*-,6 2/ ')60',)*'.)6=*'1'/6,'D.>;,.' 620'6.',) .')6.'D**2'6/-*60'.;' > *2,/'0.>;..*0';2^ 0*-',)*'6-,>/*'8 '8*'8//)*-*'>12.0*-'12/ ',/;% 2*-'.1-,.'8)>)'6==*6-',1')6+*'D**2'1'?1*'6-, ^ >6/?62; 6>,;-*% (:7,*-?.'1-',)*.*'6-*'6.'1//18.a M %X' & "= + '26H' "!' **' '4 ! MK%X' + 'D69*0'2'1/2',)*' + (1 "+'1-'% 'M *+%'/'T'.**'B6-)'2' 1.*2?;//*-'60' /1>%X'=*-)6=.'/9*'?10*?' "= ! **' # 4' / ! *-*2,'6-*',)*-'-%I'D' "(MK' 6?%L ' C7T *=,%91d A 7OZIM%>' 7*6> *0'1'01;5)'M+*-% QX'8)>)'D1/*0' 6'0**7'A%;I'81-*'*?=, *0'1;,' -1?' ,'*20*-'D6,'21,'/_;0'i7+*-%Q7X% ()*' ?=1-,'1' ,).'/6.,' -1?',)*'*,A(2/>5 '.'1Y ';2>*-,6 2'M.** 10 5*-' ' % !'& 1!' ' =% R T ()*2;.' 12' 6?%L 'ST' 4*.*2;.'-" '=% X% ,'86.'=-1D^ 6D/'6'9 20'1'62>'>'9*',)*'?69 25'1'8)>)'6==*6-.' ,1')6+*'D**2'6'-6-*'6>>1?=/.)?*2,'.2>*'(6?6-'86.' -*_;-*0',1'=-*=6-*',' 1-' ?12' 2')'=-*,*20*0'//^ 2*..'MK' 6?%L 'SX% MN%X' 2 = + '-%D/:' " "(MK' 6?%+' RX' 8)>)' 8*-*' ?25/*0' 8,)'1/M37 ' 2 D7/D6'.** 6)-'$ ' 'N X'620'D69*0' 2',)*C1+*2'M *+% ' X% M %X' -(V*-.' -* VD?M L10%LL L KT' *+% + 'KST' ')-12%LL 'KRX'?60*'+*-',) 2'MS-%' OC' 8'620'.=-*60'8,)'1/M!" KC' *=,%) % -%+ ' 'O %8!' **' " ! M %X' + ',)*' 2" N' +" (' 1' ' 25.' L+'N',-62./6,*0' >-6>92*/.J' 2',)*' ;,)1-[*0' *-^ .12'62'6/?1.,'1D.1/*,*'81-0'0*21, 25'6'9 20'1'>-.=' >69*'_%O% >-;?DC>69*%J' ()*1-5 26/81;/0'.**?' D ',.'*, ?1/15 'M ' -1?'7= ' % + '.=1,,*0' *2% ddd'NK'*_%X',1'0*21,*'.1?*,)25'.=1,,*0'1-'.=-29/*0' 1+*-' *,>% ;L,1-'I1 ' - ! >1/% NQSX'*L=/6 2.' ,) ;.d ,,/*'>-)/*.'1'D-*60'/9*',)*')6/'1'62'*55' - "'>% TJ'620'2'621,)*-'=/6>*'>6% ! !'D "!' =% X' /.1',)*'>-6>9*-.' ' 25.'L+'N'>1?12/' >6//*0' 1'-*>*+*0',)*-'26?*'D*>6;.*',)* '8*-*' 1-?*0' 2'/ ,,/*' './>*.'6.' '-1-'D*^ >6;.*',)*'8*-*'=;2>,;-*0' 2'.1?*'=*>;/6-'?622*-%J' ,' .'20**0'21,' ?=-1D6D/*',)6,',)* '?6 ')6+* D>*2

6' .1-,' 1 'D .>; , '1-' . ?6// 620')6-0CD69*0' >69*. '>6/>;^ /6,*0',1' 9***='M 1-'6'A1;-2* ' 1-' .1?*' 1,)*-' =;-=1.*'K D ' -*6.12' 1 ',)* -' *L>*.. +*')6-02*..'M1-' =*-)6=.' D* 25' ' + 1'6.',)*' 81-0' 2 ' ?=/ *.X% 1,'12GE'6-*' .;>)')6-0' >69*.' 1-' D .>; ,.' ., // ; .*0' 2' ,)*' 6.,' D;,' ,)* ' 6-*' / 9*' 6// D .>; ,.' % ',1' -*20*-' ,)*' ?1-*')6-0 ' 620' .1?*, ?*. ' 6/.1' ,)* ' 6-*' .=- 29/*0' 8 ,)' .**0. ' * ,)*-' 1 ' 8) >)' > ->; ? .,62>*.' .; > *2,/ ' ?**,.' ,)*' >120 , 12.' .;55*.,*0' D ' ,)*' *, ?1/15 ' 1 ' ,)*' : *D-*8' 81-0% ()*' *L .,*2>*' 1 ' .;>)' D .>; ,.' .' ;-,)*-' ?=/ *0' 2'B1.)' L' K' 8)*-*',)*' 4 D*12 ,*.' 0*.>- D*',)* -'D-*60'6.')6+ 25'D*>1?*'6.'" ' ' ' M21,' ?1;/0 J6.' 2',)*' ;,)1- [*0' *-. 12X' D '-*6^ .12' 1 ',)*' /*25,)' 1 ',)* -'A1;-2* % **' $! G '' # = + 1' %% " "(= " "(MM L10% L+ ' N T (6/?% <A.)26' " ' X' .;>)'6.'6-*'., // ? ;>)'-*/ .)*0'D ',)*' -6/7% ** % #!' *-*2,' -1?',)*.*' 8*-*',)*' = + 1' TNNd' " "1(' (M : 1.% ' T *=,% -- %% ' % ' ;,)1- [*0' *-. 12' /6512. 1 ' 8 2*JX' =-1D6D/ ' 6' ?6..' 1 ' 0- *0' 5-6=*.' =-*. .*0' 2,1' 1-?T >1?=',)*' % 'M >69*.JX' ' " E' 2' ' 6?% LL+ ' Q% **' !' ()*',*-? + " "(M6.' *L=/6 2*0' D ',)*' (6-5% 1 ' .%C B126,)62' 6,' L10% L+ ' N T 6/.1',)*' < .D26') + ' T .**' 4*.*2% -" !' ' ._%X' .**?.',1' 0*21,*' ,)*' .6?*' 9 20' 1 '>69*.'6.';.*0' 1-'-* -*.)?*2,'M 62,% ' T K' 6?% + ' RT ')-12% L+ 'NX% *>' !' '.=*> *.' 1 '>69*' =-*=6-*0' 8 ,)')12* ' .',)1;5),'M.1' B*-1?*X',1' D*'-* *--*0',1' 2' [*9% L+ ' N'M.**' 1.*2C ?;//*-' 2'/1>%X% M %X' ()*' " " ' ' " ' ' I I R ' I /2# -2 6 ' %% ' " "(% ('M/,% + ' ',)*' 'c% >' 2h' % ' ;,)% *-% D69*2' = *>*.' 1 ',)*' ?*6,C1 / *- 25 J' *+% + 'K ' % *% >119*0' 620' =-*=6-*0' / 9*',)*' ?*6,C1 *- 25 ' 620',)*2' D-19*2' ;=' 2,1' = *>*.T >1?=% *+% ' '._%T + ' RX' 6->'=-1D^ 6D/ '>119*0' = *>*.',)6,'8*-*' 656 2' 92*60*0' ;=' 8 ,)' 1 /' 620' D69*0' M>1-6=% & 62./*D' 2' 6;/.' $! ' NN T 6)-' ((" ' 'Q KX% 1-',) .'=;-=1.*' ;.*' 86.' ?60*' 1 '6' =% ' - : !H' + " "(M *+% ' ' *,>%X' =-1D6D/ '6' /6,' -12' =/6,*' M.,*8C=62' 1-' 5- 00/*X' D*2*6,)' 8) >)',)*' -*' 86.' 9 20/*0' M>1?=% *D;)-' 'KN X% **' + ! MQ%X' ()*' " ' + ' + ('M >69*. J'B*-% + ' QT L/ + ' RX' 6' .1-,'1' 86 *-' ;.*0' 2')*6,)*2' 1 ^ *- 25. '6-*' -*20*-*0' 2',)*' *=,'D ',)*' 4-.*> [*0',*-?' O 4' 8) >)' .' *L=/6 2*0' D ' ; 0 .' 620' 1,)*-' 62^ > *2,' 5/1..6- .,.' 6.' . 52 25' D6-/* C>69*.' .,**=*0' 2' 1 /T >1?=6-*',)*' >69*.' 620' D6-/* C?*6/' ;.*08T ,)' .6>^ - >*.' 6?125',)*' 4-**9.' 620' 1?62.' M.**' ? ,) ; D* ' 1 '& 4!' .'+% 6>- > ;?X% **' , $ ' < ' % ! ()*' 12/ '-*?6 2 25' : >D% 81-0.' -*/6, 25',1',)*' .;D^ A*>,'1-'-*20*-*0' >69*J' 2',)*' ;,)% *-.%'6-*' ('6' + ' % *8)1/*' = *>*' M_% O% './ >*JX' 1 'D-*60' M ' 25.' L+ ' KT 2' .6% LLL+ ' S' 2',)*' =)-6.*' + = ' % ' ?1>9*-.' 2' *6.,. J' % *%,6D/*CA*.,*-.XT " ' MB1.)% ' T B;05% + ' R' K ' K T ')-12% LL ' KR' *,>%X' ' 1-' ;2/*6+*2*0' D-*60 ' 6.' ;.;6// ' -*20*-*0' \.**') ;9' 620' " '1-' 'MB;05% + ' NX' 6' ' + ' 1 'D6-/* CD-*60% ()*' (' A MN%X' ; ' + ' % ' " ' ',)6,' .' ,1' .6 1 '4*2% L/' S' M8)*-*',' 12/ '1>>;-.' 2',)*' *L=-*.. 12' *=,%) ' 1 - ' ;/5% ' 1 =' %' ;,)% *-.% " ' D6.9*,. J' ?6-5% D6.9*,.. ' '" ^(8' ?6 '. 52 '*,)*-' " ' '6.' ?60*' 1 ' 2*' /1;-' M 2',)*' < .)26 ' 6 " ' ' ' 2' .' 6' .=*^ > *.' 1 'D-*60' 1-' >69*' / 9*',)*' -6D ' " ' 8) ,* D-*60' 1-' /1;-X' 1-' ,' ?6 '-* *-',1' .1?*' =*>;/ 6- , '1 ' ,)*' D6.9*,.' ?*-*/ % *>' 8 ! 2',)*' < .)26' " 'L ' '._%' ?62 '1,)*-'9 20.' 1 '>69*' 6-*' -* *--*0 ,1' D;',)*' ?=1-,'1 ',)*' 81-0.',)*-*' *?=/1 *0' .' +*- ' ;2>*-,6 2% 2',/ *' 4-**9' >69*.' .'**.=*> 6// ' ,)>2% L + 'S ' ._% **' 5*2*-6// ' 6; ' ' 0' ' ' " ' =' -! M(-% 60')% SRX% ' & 2*-' 'SQS' **' ! K% & ' ' , ' ()*' .*>120' >)6=,*-' 1 ' *+ , >;.' 5 +*.' 6' .1-,' 1 '/ .,' 1 ',)*' 0 /*-*2,' 9 20.' 1 ' D-*60' 620' >69*.' 2' ;.*' 6?125',)*' T 2> *2,' .-6*/ ,*.' 1-',)*' =;-=1.*' 1 '0 ., 25; .) 25',)*' 9 20.' 8) >)' 8*-*' -1?',)1.*' 87D>)' 8*-*' 21,' .;,6D/*' 1-' > / *- 25.% ' .;>)' 6.' 81-*' ,' 1-' 1 *- 25. ' 8*' 20 M %X' ; ' + ' ' 'M *+% ' XT D;',) .' ./ ?^ ,*0',1',81' .1-,.' 8) >)' 6==*6-',1' D*' -.,')*' D-*60' D69*0' 2. 0*',)*' +*..*/.' 1 ',12*' ?*,6/' 1-' *6-,)*2^ 86-*' 6.' 86.' >;.,1?6-A% 2',) .' >6.*',)*' 1+*2' .')6/ ' //*0' 8 ,)' .?6//.?11,)' =*DD/*.' ;=12' 8) >) ' 8)*2')*6,*0' 620',)*' ;*/ 8 ,)0-682' ,)*' 01;5)' .' /6 O% -*60' =-*=6-*0' 2',) .' ?10*' .'2*>*..6- / ' ;// 1 ' 2^ 0*2,6, 12.' 1-')1/*.' -1?',)*' =*DD/*.' 12' 8) >)' ,' .' D69*O% *>120',)*' D-*60'=-*=6-*0' D ' 0-1== 25' 8 ,)' ,)*')1//18'1 ',)*')620'6',) 2'/6 *-'1 ',)*' 6/?1..',' _ ; 0' 01;5)' ;=12',)*' 1;,. 0*' 1 ',)*' .6?*' 1+*2' 620' 8 2>) ' D* 25' D69*0' 0- ',)*' ?1?*2,',1;>)*.',)*')*6,*0' .;-^ 6>*' 1-?.' 6',) 2' 86 >-C 9*' D-*60' 1-' D .>; ,% ()*' -.,'1',)*.*' <1.*.' 6==*6-.',1' 0 ., 25; .)' D ',)*' >)6-^ 6>,*- ., >' *= ,)*,' 1 '- ,2 ' + "(' M.**' 6D1+*X'% 9 ' ' ' '" ' M L10% LL L 'KT *+% ' T + KT ; ?% + ' ' *,>%X' 620',)*' 1,)*-' DE',)*' 26?*' 1 ' "HB"= ' + + (' " '>69*.' D* 25' '>1--*>,/ ' 0*2^ , *0' D ' ?;>)',)*' ,) 22*.',1' 62 'D-*60' ;.*0' 2',)*' 6..% '>69*' 1',)*' 1-?*-' 86.' 1 *-*0' 6.',)*' -.,'1'),)*' 01;5)' M *+% + ' KSX' 620' .' ?*2, 12*0' 2' K' 62' % + ' R' 8 ,)',)*' 600 , 12' 1 ' 'D-*60J '% ' ! 1,)' .1 I,.' 8)*2' ;.*0' 1-' 1 *- 25. ' 8*-*',1' D*' ;2/*6+^ *2*0' M=*-)6=.',1' .*>;-*',)* -' D* 25' =-*=6-*0' *-',)*' .=*> 6/*=;-=1.*' T 620',)*' -.,'.1-,'26?*/A',)6,'8)>)' 6==*6-.',1')6+*' D**2' D69*0' 2. 0*',)*' 1+*2' 86.',1'/*' % 8 ,)' 1/' 8) /*',)*' 1,)*-' M,)6,'D69*0' 1;,. 0*' ,)*' 1+*2X' 8) >)' -1?',.',) 22*..' >1;/0' 21,'=1.. $ ')*',) ;.',-*6,*0' 86.',1')*' 12/ '.?*6-*0' 8 ,)' 1 /% ()*' -*.)' 1/ +*' 1 /' 8) >)' 86.',1' D*' ;.*0' 1-',) .' =;-=1.*' ?=6-,..',1',)*' D-*60' .1?*,) 25' 1',)*' /6+1-' 1 'D;,,*-' 8) >)' /6.,' .' ;..;6// ' 1 '+*- ' 20 *-*2,' __6/ , ' 2' 6.,*-2' >1;2,- *.% MK%X' ; ' + ' ' % ' .,',)6,'8) >D' 6.' .', // ;.;6/ I' .' D69*0' 2' 1-'-6,)*-' 12',)*' * ! () .' 6/.1' 6.' 62' 1 *- 25' 86.',1' D*' ;2/*6+*2*0' 620' ? L*0' 8 ,)' 1 /% KO% ()..' 6>>1-0 25',1' +% 'S' >1;/0' D*' D2%9>2' 2,1' = *>*.' 620' 1 /=1;-*0' 1+*-' ,' 1-? 25' 6' 0 .,2>',' 9 20' 1 'D-*60' 620' 1 *- 25% 20' 2' 6>,',)*',) 2' D 'C' >;/,.' D69*0' 12',)*' * '6.' 8*// 6.',)*' 1,)*-' 9 20.' 1 ' D-*60',);.'D-19*2',;='620'-*?60*' 2,1'6' 9 20' 1 '01;5)' 1-?' 6' 9 20' 1 ' 110' 1-'=6.,-' 2' 8) >)',)*' - *2,6/.' ,69*' ?;>)' 0*/5),' 620' 8) >)' ?69*.' 6' .,620 25'0.)' 6?125',)*' =6.,1-6/,- D*.% ()*' 6.)C>69*' 62.8*- 25' ,1',)*' : *D-*8' /6 "(' .',)*' ?1.,' -*_;*2,/ ' *?=/1 *0' 1-',) .' =;-=1.*' &)*2',' .' D69*0' ' ' D-19*2' ;=' 2,1' >-;?'D.' 620' -*92*60*0' 8 ,)' 86,*-',1' 8) >)' .' 600*0' 2',)*' >1;-.*'1',)*'1=*-6, 12' D;,,*-' 1 /' + 2*56-' 1-')12* % : 6+ 25',);.' 656 2' -*0;>*0' ,' ,1' 6',1;5)' 01;5)',)*' ?6.' .' D-19*2' 2,1' = *>*. 8) >)' 6-*' D69*0' 2' .?6//*-' >69*.' 620' *6,*2' 6.' 6' 06 -C' A .;>)' =-*=6-6, 12.' 6?125',)*' 62> *2,' .-6*/,*.' NX' 6' ' + ' 1 'D6-/* CD-*60% ()*' (' A MN%X' ; ' + ' % ' " ' ',)6,' .' ,1' .6 1 '4*2% L/' S' M8)*-*',' 12/ '1>>;-.' 2',)*' *L=-*.. 12' *=,%) ' 1 - ' ;/5% ' 1 =' %' ;,)% *-.% " ' D6.9*,. J' ?6-5% D6.9*,.. ' '" ^(8' ?6 '. 52 '*,)*-' " ' '6.' ?60*' 1 ' 2*' /1;-' M 2',)*' < .)26 ' 6 " ' ' ' 2' .' 6' .=*^ > *.' 1 'D-*60' 1-' >69*' / 9*',)*' -6D ' " ' 8) ,* D-*60' 1-' /1;-X' 1-' ,' ?6 '-* *-',1' .1?*' =*>;/ 6- , '1 ' ,)*' D6.9*,.' ?*-*/ % *>' 8 ! 2',)*' < .)26' " 'L ' '._%' ?62 '1,)*-'9 20.' 1 '>69*' 6-*' -* *--*0 ,1' D;',)*' ?=1-,'1 ',)*' 81-0.',)*-*' *?=/1 *0' .' +*- ' ;2>*-,6 2% 2',/ *' 4-**9' >69*.' .'**.=*> 6// ' ,)>2% L + 'S ' ._% **' 5*2*-6// ' 6; ' ' 0' ' ' " ' =' -! M(-% 60')% SRX% ' & 2*-' 'SQS' **' ! K% & ' ' , ' ()*' .*>120' >)6=,*-' 1 ' *+ , >;.' 5 +*.' 6' .1-,' 1 '/ .,' 1 ',)*' 0 /*-*2,' 9 20.' 1 ' D-*60' 620' >69*.' 2' ;.*' 6?125',)*' T 2> *2,' .-6*/,*.' 1-',)*' =;-=1.*' 1 '0 ., 25; .) 25',)*' 9 20.' 8) >)' 8*-*' -1?',)1.*' 87D>)' 8*-*' 21,' .;,6D/*' 1-' > / *- 25.% ' .;>)' 6.' 81-*' ,' 1-' 1 *- 25. ' 8*' 20 M %X' ; ' + ' ' 'M *+% ' XT D;',) .' ./ ?^ ,*0',1',81' .1-,.' 8) >)' 6==*6-',1' D*' -.,')*' D-*60' D69*0' 2. 0*',)*' +*..*/.' 1 ',12*' ?*,6/' 1-' *6-,)*2^ 86-*' 6.' 86.' >;.,1?6-A% 2',) .' >6.*',)*' 1+*2' .')6/ ' //*0' 8 ,)' .?6//.?11,)' =*DD/*.' ;=12' 8) >) ' 8)*2')*6,*0' 620',)*' ;*/ 8 ,)0-682' ,)*' 01;5)' .' /6 O% -*60' =-*=6-*0' 2',) .' ?10*' .'2*>*..6- / ' ;// 1 ' 2^ 0*2,6, 12.' 1-')1/*.' -1?',)*' =*DD/*.' 12' 8) >)' ,' .' D69*O% *>120',)*' D-*60'=-*=6-*0' D ' 0-1== 25' 8 ,)' ,)*')1//18'1 ',)*')620'6',) 2'/6 *-'1 ',)*' 6/?1..',' _ ; 0' 01;5)' ;=12',)*' 1;,. 0*' 1 ',)*' .6?*' 1+*2' 620' 8 2>) ' D* 25' D69*0' 0- ',)*' ?1?*2,',1;>)*.',)*')*6,*0' .;-^ 6>*' 1-?.' 6',) 2' 86 >-C 9*' D-*60' 1-' D .>; ,% ()*' -.,'1',)*.*' <1.*.' 6==*6-.',1' 0 ., 25; .)' D ',)*' >)6-^ 6>,*- ., >' *= ,)*,' 1 '- ,2 ' + "(' M.**' 6D1+*X'% 9 ' ' ' '" ' M L10% LL L 'KT *+% ' T + KT ; ?% + ' ' *,>%X' 620',)*' 1,)*-' DE',)*' 26?*' 1 ' "HB"= ' + + (' " '>69*.' D* 25' '>1--*>,/ ' 0*2^ , *0' D ' ?;>)',)*' ,) 22*.',1' 62 'D-*60' ;.*0' 2',)*' 6..% '>69*' 1',)*' 1-?*-' 86.' 1 *-*0' 6.',)*' -.,'1'),)*' 01;5)' M *+% + ' KSX' 620' .' ?*2, 12*0' 2' K' 62' % + ' R' 8 ,)',)*' 600 , 12' 1 ' 'D-*60J '% ' ! 1,)' .1 I,.' 8)*2' ;.*0' 1-' 1 *- 25. ' 8*-*',1' D*' ;2/*6+^ *2*0' M=*-)6=.',1' .*>;-*',)* -' D* 25' =-*=6-*0' *-',)*' .=*> 6/*=;-=1.*' T 620',)*' -.,'.1-,'26?*/A',)6,'8)>)' 6==*6-.',1')6+*' D**2' D69*0' 2. 0*',)*' 1+*2' 86.',1'/*' % 8 ,)' 1/' 8) /*',)*' 1,)*-' M,)6,'D69*0' 1;,. 0*' ,)*' 1+*2X' 8) >)' -1?',.',) 22*..' >1;/0' 21,'=1.. $ ')*',) ;.',-*6,*0' 86.',1')*' 12/ '.?*6-*0' 8 ,)' 1 /% ()*' -*.)' 1/ +*' 1 /' 8) >)' 86.',1' D*' ;.*0' 1-',) .' =;-=1.*' ?=6-,..',1',)*' D-*60' .1?*,) 25' 1',)*' /6+1-' 1 'D;,,*-' 8) >)' /6.,' .' ;..;6// ' 1 '+*- ' 20 *-*2,' __6/ , ' 2' 6.,*-2' >1;2,- *.% MK%X' ; ' + ' ' % ' .,',)6,'8) >D' 6.' .', // ;.;6/ I' .' D69*0' 2' 1-'-6,)*-' 12',)*' * ! () .' 6/.1' 6.' 62' 1 *- 25' 86.',1' D*' ;2/*6+*2*0' 620' ? L*0' 8 ,)' 1 /% KO% ()..' 6>>1-0 25',1' +% 'S' >1;/0' D*' D2%9>2' 2,1' = *>*.' 620' 1 /=1;-*0' 1+*-' ,' 1-? 25' 6' 0 .,2>',' 9 20' 1 'D-*60' 620' 1 *- 25% 20' 2' 6>,',)*',) 2' D 'C' >;/,.' D69*0' 12',)*' * '6.' 8*// 6.',)*' 1,)*-' 9 20.' 1 ' D-*60',);.'D-19*2',;='620'-*?60*' 2,1'6' 9 20' 1 '01;5)' 1-?' 6' 9 20' 1 ' 110' 1-'=6.,-' 2' 8) >)',)*' - *2,6/.' ,69*' ?;>)' 0*/5),' 620' 8) >)' ?69*.' 6' .,620 25'0.)' 6?125',)*' =6.,1-6/,- D*.% ()*' 6.)C>69*' 62.8*- 25' ,1',)*' : *D-*8' /6 "(' .',)*' ?1.,' -*_;*2,/ ' *?=/1 *0' 1-',) .' =;-=1.*' &)*2',' .' D69*0' ' ' D-19*2' ;=' 2,1' >-;?'D.' 620' -*92*60*0' 8 ,)' 86,*-',1' 8) >)' .' 600*0' 2',)*' >1;-.*'1',)*'1=*-6, 12' D;,,*-' 1 /' + 2*56-' 1-')12* % : 6+ 25',);.' 656 2' -*0;>*0' ,' ,1' 6',1;5)' 01;5)',)*' ?6.' .' D-19*2' 2,1' = *>*. 8) >)' 6-*' D69*0' 2' .?6//*-' >69*.' 620' *6,*2' 6.' 6' 06 -C' A .;>)' =-*=6-6, 12.' 6?125',)*' 62> *2,' .-6*/,*.' NX' 6' ' + ' 1 'D6-/* CD-*60% ()*' (' A MN%X' ; ' + ' % ' " ' ',)6,' .' ,1' .6 1 '4*2% L/' S' M8)*-*',' 12/ '1>>;-.' 2',)*' *L=-*.. 12' *=,%) ' 1 - ' ;/5% ' 1 =' %' ;,)% *-.% " ' D6.9*,. J' ?6-5% D6.9*,.. ' '" ^(8' ?6 '. 52 '*,)*-' " ' '6.' ?60*' 1 ' 2*' /1;-' M 2',)*' < .)26 ' 6 " ' ' ' 2' .' 6' .=*^ > *.' 1 'D-*60' 1-' >69*' / 9*',)*' -6D ' " ' 8) ,* D-*60' 1-' /1;-X' 1-' ,' ?6 '-* *-',1' .1?*' =*>;/ 6- , '1 ' ,)*' D6.9*,.' ?*-*/ % *>' 8 ! 2',)*' < .)26' " 'L ' '._%' ?62 '1,)*-'9 20.' 1 '>69*' 6-*' -* *--*0 ,1' D;',)*' ?=1-,'1 ',)*' 81-0.',)*-*' *?=/1 *0' .' +*- ' ;2>*-,6 2% 2',/ *' 4-**9' >69*.' .'**.=*> 6// ' ,)>2% L + 'S ' ._% **' 5*2*-6// ' 6; ' ' 0' ' ' " ' =' -! M(-% 60')% SRX% ' & 2*-' 'SQS' **' ! K% & ' ' , ' ()*' .*>120' >)6=,*-' 1 ' *+ , >;.' 5 +*.' 6' .1-,' 1 '/ .,' 1 ',)*' 0 /*-*2,' 9 20.' 1 ' D-*60' 620' >69*.' 2' ;.*' 6?125',)*' T 2> *2,' .-6*/,*.' 1-',)*' =;-=1.*' 1 '0 ., 25; .) 25',)*' 9 20.' 8) >)' 8*-*' -1?',)1.*' 87D>)' 8*-*' 21,' .;,6D/*' 1-' > / *- 25.% ' .;>)' 6.' 81-*' ,' 1-' 1 *- 25. ' 8*' 20 M %X' ; ' + ' ' 'M *+% ' XT D;',) .' ./ ?^ ,*0',1',81' .1-,.' 8) >)' 6==*6-',1' D*' -.,')*' D-*60' D69*0' 2. 0*',)*' +*..*/.' 1 ',12*' ?*,6/' 1-' *6-,)*2^ 86-*' 6.' 86.' >;.,1?6-A% 2',) .' >6.*',)*' 1+*2' .')6/ ' //*0' 8 ,)' .?6//.?11,)' =*DD/*.' ;=12' 8) >) ' 8)*2')*6,*0' 620',)*' ;*/ 8 ,)0-682' ,)*' 01;5)' .' /6 O% -*60' =-*=6-*0' 2',) .' ?10*' .'2*>*..6- / ' ;// 1 ' 2^ 0*2,6, 12.' 1-')1/*.' -1?',)*' =*DD/*.' 12' 8) >)' ,' .' D69*O% *>120',)*' D-*60'=-*=6-*0' D ' 0-1== 25' 8 ,)' ,)*')1//18'1 ',)*')620'6',) 2'/6 *-'1 ',)*' 6/?1..',' _ ; 0' 01;5)' ;=12',)*' 1;,. 0*' 1 ',)*' .6?*' 1+*2' 620' 8 2>) ' D* 25' D69*0' 0- ',)*' ?1?*2,',1;>)*.',)*')*6,*0' .;-^ 6>*' 1-?.' 6',) 2' 86 >-C 9*' D-*60' 1-' D .>; ,% ()*' -.,'1',)*.*' <1.*.' 6==*6-.',1' 0 ., 25; .)' D ',)*' >)6-^ 6>,*- ., >' *= ,)*,' 1 '- ,2 ' + "(' M.**' 6D1+*X'% 9 ' ' ' '" ' M L10% LL L 'KT *+% ' T + KT ; ?% + ' ' *,>%X' 620',)*' 1,)*-' DE',)*' 26?*' 1 ' "HB"= ' + + (' " '>69*.' D* 25' '>1--*>,/ ' 0*2^ , *0' D ' ?;>)',)*' ,) 22*.',1' 62 'D-*60' ;.*0' 2',)*' 6..% '>69*' 1',)*' 1-?*-' 86.' 1 *-*0' 6.',)*' -.,'1'),)*' 01;5)' M *+% + ' KSX' 620' .' ?*2, 12*0' 2' K' 62' % + ' R' 8 ,)',)*' 600 , 12' 1 ' 'D-*60J '% ' ! 1,)' .1 I,.' 8)*2' ;.*0' 1-' 1 *- 25. ' 8*-*',1' D*' ;2/*6+^ *2*0' M=*-)6=.',1' .*>;-*',)* -' D* 25' =-*=6-*0' *-',)*' .=*> 6/*=;-=1.*' T 620',)*' -.,'.1-,'26?*/A',)6,'8)>)' 6==*6-.',1')6+*' D**2' D69*0' 2. 0*',)*' 1+*2' 86.',1'/*' % 8 ,)' 1/' 8) /*',)*' 1,)*-' M,)6,'D69*0' 1;,. 0*' ,)*' 1+*2X' 8) >)' -1?',.',) 22*..' >1;/0' 21,'=1.. $ ')*',) ;.',-*6,*0' 86.',1')*' 12/ '.?*6-*0' 8 ,)' 1 /% ()*' -*.)' 1/ +*' 1 /' 8) >)' 86.',1' D*' ;.*0' 1-',) .' =;-=1.*' ?=6-,..',1',)*' D-*60' .1?*,) 25' 1',)*' /6+1-' 1 'D;,,*-' 8) >)' /6.,' .' ;..;6// ' 1 '+*- ' 20 *-*2,' __6/ , ' 2' 6.,*-2' >1;2,- *.% MK%X' ; ' + ' ' % ' .,',)6,'8) >D' 6.' .', // ;.;6/ I' .' D69*0' 2' 1-'-6,)*-' 12',)*' * ! () .' 6/.1' 6.' 62' 1 *- 25' 86.',1' D*' ;2/*6+*2*0' 620' ? L*0' 8 ,)' 1 /% KO% ()..' 6>>1-0 25',1' +% 'S' >1;/0' D*' D2%9>2' 2,1' = *>*.' 620' 1 /=1;-*0' 1+*-' ,' 1-? 25' 6' 0 .,2>',' 9 20' 1 'D-*60' 620' 1 *- 25% 20' 2' 6>,',)*',) 2' D 'C' >;/,.' D69*0' 12',)*' * '6.' 8*// 6.',)*' 1,)*-' 9 20.' 1 ' D-*60',);.'D-19*2',;='620'-*?60*' 2,1'6' 9 20' 1 '01;5)' 1-?' 6' 9 20' 1 ' 110' 1-'=6.,-' 2' 8) >)',)*' - *2,6/.' ,69*' ?;>)' 0*/5),' 620' 8) >)' ?69*.' 6' .,620 25'0.)' 6?125',)*' =6.,1-6/,- D*.% ()*' 6.)C>69*' 62.8*- 25' ,1',)*' : *D-*8' /6 "(' .',)*' ?1.,' -*_;*2,/ ' *?=/1 *0' 1-',) .' =;-=1.*' &)*2',' .' D69*0' ' ' D-19*2' ;=' 2,1' >-;?'D.' 620' -*92*60*0' 8 ,)' 86,*-',1' 8) >)' .' 600*0' 2',)*' >1;-.*'1',)*'1=*-6, 12' D;,,*-' 1 /' + 2*56-' 1-')12* % : 6+ 25',);.' 656 2' -*0;>*0' ,' ,1' 6',1;5)' 01;5)',)*' ?6.' .' D-19*2' 2,1' = *>*. 8) >)' 6-*' D69*0' 2' .?6//*-' >69*.' 620' *6,*2' 6.' 6' 06 -C' A .;>)' =-*=6-6, 12.' 6?125',)*' 62> *2,' .-6*/,*.' NX' 6' ' + ' 1 'D6-/* CD-*60% ()*' (' A MN%X' ; ' + ' % ' " ' ',)6,' .' ,1' .6 1 '4*2% L/' S' M8)*-*',' 12/ '1>>;-.' 2',)*' *L=-*.. 12' *=,%) ' 1 - ' ;/5% ' 1 =' %' ;,)% *-.% " ' D6.9*,. J' ?6-5% D6.9*,.. ' '" ^(8' ?6 '. 52 '*,)*-' " ' '6.' ?60*' 1 ' 2*' /1;-' M 2',)*' < .)26 ' 6 " ' ' ' 2' .' 6' .=*^ > *.' 1 'D-*60' 1-' >69*' / 9*',)*' -6D ' " ' 8) ,* D-*60' 1-' /1;-X' 1-' ,' ?6 '-* *-',1' .1?*' =*>;/ 6- , '1 ' ,)*' D6.9*,.' ?*-*/ % *>' 8 ! 2',)*' < .)26' " 'L ' '._%' ?62 '1,)*-'9 20.' 1 '>69*' 6-*' -* *--*0

6 6)' M : *D%) (" ' 27N ' ' 1/0' 65*' 6.' 2' B1D' ' KST' 2' =6; . *') (" ' -, / T *=,% d6d6L' ; /5% " E' 12*' 1 ',/ *' ?1.,'62> *2,'> , *.' 1 ' .. - 6' 8)1.*' 1;206, 12' .' 6.>- D*0' * ,)*-' ,1' ..) ; -' 1-' ?^ -10' M4*2% d' X% ()*' =/6>*')6.' D**2' ,)1;5),' 0*2^ , >6/' 8 ,)',)*' " "" *=,% d6X' 26?*0' */.*^ 8)*-*' \.**' % ';' MK' 25.' L+ ' T L+ ' T ')-12% + 'KSXT' D; , '12' ?12; ?*2,6/' *+ 0*2>*',)*' 68C / 2.12.' I 1 !' 'NSOX' -*56-0',)*' . ,*' 1 ' 6/6)'6.' ?6-9^ *0' D ',)*' 1 '-; 2. ' 8) >)')6+*' ; -2 .)*0' .1' /6-5*' 6' =-1=1-, 12' 1 ',)*' .. - 62' 62, _; , *.% ()*' (6/?; 0' >< ' LX' /1>6,*.' ,' 12' ,)*' ; =) -6,*. ' 2*6-' 1-. ==6' M-X 2 6X% '6,' ?-; 0 ' 6/6)' ?; . ,' D*' >12. 0*-*0',1')6+*' D**2' 6,' 12*' , ?*' M6D1; , ' % RN C K X',)*' >6= ,6/' 1 ',)*' *?= -*C ,' 86.' ,)*' -*. 0*2>*' 1 ',)*' 86-/ 9*' 6-0626=6/; ,' 620') .' . ; >>*. .1-. ' 0182' ,1',)*' , ?*' 1 ' 6-512 ' 8)1' D; /,' 6' %2*8' >6= ,6/' 8) >)')*' >6//*0' D ') .' 182' 26?*' 12' ,)*' . ,*' 1>>; = *0' D ' ,)*' ?10*-2')" ! ( ) .' =/6>*' ., // >12, 2; *0' ; 20*-',)*' /6, *-' 9 25.' ,1' D*' 6' ,182' 1 ' ?=1-, 62>*' 620' 86.' *.=*> 6// ' 6+1-*0' D ' .6-)60012' 8)1' , ; /, ',)*-*' 12*' 1 ',)*' 5-620*.' , ' 1 ',)*' .. - 62' =6/6>*.% 2' /6, *-', ?*.' 6^ /6)'56+*' 26?*',1' 12*' 1 ',)*' >) * '0 .,- >, .' 1 ',)*' >1; 2^ ,- ' 8) >)' 6==*6-.C 6.' 'I) O) *' ,1/>?% + ' ' KX' -' " ' I) O * W' ,-6D1' L+ ' =' SN ' NSX' 2',)*' 5*15-6=)*-.% 6A6-0' >7 "' ' '5 9 1' ' X' .; 55*.,.' ,)6,' ,' ?6 ' =1.. D/ ' D*' *L, 62, ' 2',)*' +*-' *L, *2. +*' -; 2.' >6//*0') "')*-56, ' 12' ,)*' 8*.,' . 0*' 1 ',)*' (5- . ' 6D1+*' ,.' A1; -2* ' 21-,)' 1 ' 65^ 060' M 2' 2+ //*' SN7e' /125% ' N Bj' /6, X' 8) >)' 6>>1-0^ 25',1' ..*-662 '>; " !', ' / ' ' C' .% ' NX' .' 6/.1' >6//*0' " " ' M>1?=% < >)6*/ . ' $ %% '=% S T 1.*2C ? ; //*-' &+ +' ' RQX% =)-6=?' -; . ' M 2' /1>% 4*2% X' ;20*-.,620.' ,)*' 1/0' < *.1=1,6? 62' + ' 12' ,)*' (5- .' M 1.*2? //*-' " ' =% K T D; ,' .** < >)6*/ . ' $% ! ' K '._% X% .' ,' 81; /0' .** ?' ,1')6+*' D**2' 6,' .1? *0 .,62>*' -1?' 2*+*)',)*' >, '1 ' *.*2' / 25' D*, 8**2' I,)*? ' ?1.,' *6-/ *-' 8-, *-.' >12>; -' 2' =/6> 25' ,' 12' ,)*' 4-*6,' U6D' M,)*' 62> *2,' A7>; . X' 21,' 6-' -1?' ,.' A; 2>, 12' 8 ,)',)*' (5- .' 620' *.*2' .' =/6>*0') 5)^ *-' ;=' 12' ,)*' .6?*' - +*-' .1' 6.',1' D*' D*, 8**2' ,' 620' 2*+*)' M 1>)6-,' "W+ 1' + ' KKX% **' #

6/6?1/76/$ ' I) O % *O O ' ; /5% (8' 5 +*2' M ' .0-% + ' KKX' 6.' ,)*' 26?*' 1 ' 6' =/6>*' 8)1.*' ``.12.J' 8*-*' -*.,1-*0' 6 ,*-' ,)*' *L /*a' 6==6-*2,/ ' 6' >1--;=,' 655/1?*-6, 12' 1 ',)*' 26?*.' > ' ?? ' 1 - ' 620' % ' 2',)*' 5*2; 2*', *L, ' M [-6' 'N ' NKX% 6/ 1 2 % ' **' - !

6/6?; 6' 1>>; -.' 2',)-**' =6..65*.' 1 ',)*' ; ,)% *-. ' 1-',)*' : *D% " "(M *=,% @ ' */.*^ 8)*-*' '-**0 IXa L10' LLL ' KN' 6?125',)1' 25-*0^ *2,.' 1 ',)*')1/ ' 621 2, 25' 1 /T 62,% +' ' 2' 62' *2; ?*-6, 12' 1 ' .8**,' .>*2,. T 620' [-6' LL+ ' R' 6?125',)*' 6-, >/*.' D-1; 5), ',1',)1' ?6-9*,.' 1 ' Os ! ()*',*-?' 0*. 526,*.' ,)*' ?6-.)' 620' - +*-' -**0' 5*2*-^ 6// ' \.**' ;' T D; ,' 2',)*' =/6>*.' A; .,'-* *--*0',1' ', 6==*6-.',1'. 52 ',)*' ' 'WOOd2V 1>' %) ' 1.1>1-% ' X' 62' - *2,6/ =/62,' I ' 1' / 2% L ' K QX' 1' 8) >)',)*' 226A62' 26?*.' & ' ! 1' 01; D,',)*' .6?*=/62,' .' 2,*20*0' 2' .6% L/ ' K T B*-% + ' K ' 8)*-*',)1' ;,)% *-. ')6.' ' ! 2',)*' /6,,*-',*L,',)*' : *D% .' 2%NX ' D = +P' " 2 (M % *% ' E' 620' 2' L10% LLL ' KN' *=?' -O %1+ "(M " (' IE!' ' (' 8! ' .>*2,*0' >62*' .' .6 0' ')6+*' D**2' 1; 20' 2' 6' +6/^ /* ' 1 ' < 1; 2,' *D6212' M 1/ D% + ' ST ,-6D% L+ ' X% ()*' =/62,') .6' 6' ->*0C 9*' ..*? ' 8) >)' .' *L>**0 25/E 7 -65-62, ' / 9*',)*' /*6+*. ' *.=*> 6// ' 8)*2' D-; . *O% ' .' 1 ' 6', 68 2 ' >1/1-' ? ; >)' A1 2, *0 ' D-*69 25' 2, 1' .=/ 2C *-. ' 620')6+ 25',)*')1//18' .,*?' //*0' 8 ,)' = ,)' / 9*' 3 % '

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age of seventeen he went to the University of Utrecht, where he was placed under the tuition of the distinguished professors De Vries and Grævius. In 1691, when Principal Carstairs was sent to Holland in quest of a gentleman to fill a professor's chair in the University of Edinburgh, he applied to Calamy, and pressed him to accept the situation; but he declined the honor, though soon afterward he returned to England for the purpose of pursuing his studies in the Bodleian Library. In 1700 he began to preach among the Nonconformists, and in 1703 he took charge of a congregation in Westminster, which he held for many years. In 1703 he arranged for the press *Baxter's Life and Times*, which publication gave rise to a dispute between Calamy and Hoadley. In 1709 he was made D.D. by the universities of Edinburgh, Glasgow, and Aberdeen. After a laborious life, divided between preaching and writing, he died, June 3, 1732. Among his works are *Discourses on Inspiration* (Lond. 1710, 8vo):—*Sermons on the Trinity* (Lond. 1722, 8vo):—*Defense of moderate Non-conformity* (Lond. 1703–5, 3 vols. 8vo):—*The Non-conformist's Memorial* (Lond. 1721, 2 vols. 8vo):—*History of his Life and Times*, edited by Rutt (Lond. 1829, 2 vols. 8vo).—Jones, *Christ. Biog.* s. v.

Calas, JEAN, an unfortunate merchant of Toulouse, of the Protestant religion. His son, Marc Antoine, hung himself in a fit of melancholy Oct. 13, 1761. The father was seized as guilty of the murder, on the ground that his son intended to embrace Romanism the next day. No proof could be offered against him, but the fanatical passion of the mob was roused. The corpse was honored as that of a martyr. "The clergy exerted all their influence to confirm the populace in their delusion. At Toulouse the White Penitents celebrated with great solemnity the funeral of the young man, and the Dominican monks erected a scaffold and placed upon it a skeleton, holding in one hand a wreath of palms, and in the other an abjuration of Protestantism. The family of Calas was, in consequence of the popular excitement, brought to trial for the murder, and several deluded and (most probably) some bribed witnesses appeared against them. A Catholic servant-maid, and the young man Lavaysse, were also implicated in the accusation. Calas, in his defence, insisted on his uniform kindness to all his children; reminded the court that he had not only allowed another of his sons to become a Catholic, but had also paid an annual sum for his maintenance since his conversion. He also argued from his own infirmity that he could not have prevailed over a strong young man, and referred to the well-known melancholy moods of the deceased as likely to lead to suicide; and, lastly, he pointed out the improbability that the Catholic servant-maid would assist in such a murder. But all his arguments proved unavailing, and the Parliament of Toulouse sentenced the wretched man—by a majority of eight against five—to torture and death on the wheel! With great firmness, and protestations of his innocence to the last, the old man died on the wheel, March 9, 1762. His property was confiscated. His youngest son was banished for life from France, but was captured by the monks, and compelled to abjure Protestantism. The daughters were sent to a convent" (Chambers, s. v.). The family of the unhappy man retired to Geneva, and Voltaire subsequently undertook to defend his memory. He succeeded in drawing public attention toward the circumstances of the case, and a revision of the trial was granted. Fifty judges once more examined the facts, and on March 9, 1765, the Parliament of Paris declared Calas altogether innocent. Louis XV ordered the property of Calas to be restored to his family, and made to the latter a present of 30,000 livres. The investigation at last led to the *toleration edict* of Louis XVI in 1787.—Bungener, *Priest and Huguenot*, vol. ii; Coquerel, *Histoire des Églises du Désert* (2 vols. Paris, 1841); Haag, *La France Protestante*, iii, 96; Coquerel, *Jean Calas et sa famille* (Paris, 1858, 12mo).

Calasanza, GIUSEPPE (*Josephus a matre Dei*), founder of the order of the *Piarists* (q. v.), was born in Aragon in 1556. He entered holy orders in 1582, and went to Rome, where he obtained the protection of Clement VIII, Paul V, and Gregory XV, the latter of whom, after the new order had been founded by Calasanza, named him general of it in 1622. He died in 1648, and was canonized in 1767. He is commemorated on August 27.—Fehr, *Geschichte d. Mönchsorden*, ii, 51.

Calasio, MARIO DI, named from a village of that name in the Abruzzo, where he was born in 1550. He became a Franciscan, and devoted himself to Hebrew, in which he soon became so great a proficient that Pope Paul V made him D.D. and professor of Hebrew at Rome. He is best known by his *Hebrew Concordance*, which occupied him during forty years, even with the aid of other learned men. He was about to commit this work to the press, when he died, in 1620. It appeared under the title *Concordantiæ Sacrarum Bibliorum Hebraicæ cum convenientiis ling. Arab. et Syr.* (Rome, 1621, 4 vols. fol.). Another edition was published by Romaine at London in 1747, but it is not considered so accurate as that of 1621. He is said to have died chanting the Psalms in Hebrew.—*Biog. Univ.* vi, 504.

Calatrava, a military order of Spain, named from the town of Calatrava, in New Castile. It had its origin in the following circumstances: When Alphonso, the father of Sanchez III, had taken the town of Calatrava, in 1147, from the Moors, he gave it to the Templars to defend; but when it was spread abroad in 1158 that the Arabs were about to attempt the recapture of the place, the Templars resigned it again to Sanchez, who thereupon presented it to Raymond, abbot of the Cistercian monastery of St. Mary. The Arabs, after all, did not attempt the place; but many of the warriors who had been drawn together for its defence (as well as many of the lay brethren of the convent) entered the Cistercian order, but under a habit more fit for military exercises than for those of monks. They were designated as the order of Calatrava. It was approved by Pope Alexander 1164, and confirmed by Gregory VIII 1187. The knights at first wore a white scapulary and hood, but in 1397 the Anti-pope Benedict XIII permitted them a secular dress, distinguished by a red cross *fleur-de-lisée*. In 1486, Ferdinand and Isabella obtained a bull from Pope Innocentius VIII, which reserved the nomination of the grand master to the pope. Adrian VI, however, annexed the grand mastership of this order to the crown of Spain. The knights made a vow of obedience, poverty, and conjugal chastity (for they were permitted to marry once), and were bound to maintain the immaculate conception of the Blessed Virgin. As a monastic order the institution has ceased to exist, but there are now said to be nearly eighty commanderies and priories in Spain, generally given as rewards of merit

Red Cross of Calatrava.

Nun and Knight of Calatrava, in public Dress.

to political favorites. Since 1219 the order had also nuns, who had to prove, before being admitted, their descent from noble houses. They wore the dress of the Cistercian nuns, and their principal monastery was at Almagro. They are now likewise secularized.—Helyot, *Ordres Relig.* vol. i; Landon, *Eccl. Dict.* s. v.

Cal'col (1 Chron. ii, 6). See CHALCOL.

Calcutta, the capital of Bengal, and an episcopal see of the Church of England, on the Hoogly. The bishopric was erected in 1814, and the bishop is metropolitan of India. The incumbents have been, 1. Thomas Fanshaw Middleton, May 8, 1814; 2. Reginald Heber, June 1, 1823; 3. John T. James, June 4, 1827; 4. J. Matthias Turner, May 17, 1829; 5. Daniel Wilson, April 29, 1832, died 1858, who commenced the building of a cathedral church, and the foundation of a chapter; 6. George Edward Lynch Cotton, D.D., consecrated 1858; 7. Robert Milman, February 2, 1867. Calcutta has also been the centre of an important system of Protestant missions, both English and American. See INDIA.

Calderwood, DAVID, a Scotch divine, was born in 1575, and in 1604 became minister of the parish of Crealing. When James I in 1617 sought to bring the Scottish Church into conformity with the Church of England, Calderwood was strenuous in opposition. Persecution and threats having failed to shake Calderwood, he was imprisoned, and afterward banished. He retired to Holland, where he published *Altare Damascenum seu ecclesiæ Anglicanæ politia*, etc. (L. Bat. 1623, best ed. 1708, 4to), in which he enters into a full examination of the principles of the Church of England, its government, ceremonies, and connection with the state. The work made a great impression at the time, and was translated into English under the title of *The Altar of Damascus, or the Pattern of the English Hierarchy and Church obtruded upon the Church of Scotland* (1621, 12mo). A report having been spread that Calderwood was dead, a man named Patrick Scot published a pretended recantation, with the title "Calderwood's Recantation, directed to such in Scotland as refuse Conformity to the Ordinances of the Church" (London, 1622). Calderwood, in the mean time, had returned secretly to Scotland, where he lived some years in concealment. He collected the materials for a *History of the Kirk of Scotland*, which he left in MS., and which has been published by the *Woodrow Society* (Edinb. 1842-9, 8 vols. 8vo). From the materials of this work Calderwood wrote his *True History of the Church of Scotland from the Beginning of the Reformation unto the End of the Reign of James VI* (1678, fol.). He died about 1650.—*English Cyclopædia.*

Caldron, prop. a large cooking vessel, is the rendering in certain passages of the Auth. Vers. for the following words: 1. אֲגַמּוֹן, *agmon'* (Job xli, 20 [12]), a heated *kettle*, others a burning *reed* ("rush" elsewhere); 2. דּוּד, *dud* (2 Chron. xxxv, 13; "pot," Job xli, 20 [12]; Psa. lxxxi, 6; "kettle," 1 Sam. ii, 14), a large *boiler* (also a "basket"); 3. סִיר, *sir* (Jer. lii, 18, 19; Ezek. xi, 3, 7, 11, elsewhere "pot"), the most general term for a kettle or basin (also a "thorn"); 4. קַלַּחַת, *kallach'ath* (1 Sam. ii, 14; Mic. iii, 3), a pan or pot (so called from *pouring*); 5. λέβης (2 Macc. vii, 3), a *kettle*, in this case a large caldron for torture. Metallic vessels of this description have been obtained from the ruins of Egypt, and still more lately two copper caldrons were discovered by Mr. Layard among the excavations at Nimroud (*Nin. and Bab.* p. 149 sq.), about 2½ feet in diameter, and 3 feet deep, resting upon a stand of brick work, with their mouths closed by large tiles, and containing a variety of smaller bronze objects. See POT.

Bronze Caldron. From the Egyptian Remains in the British Museum.

Caldwell, David, D.D., a Presbyterian minister, was born in Lancaster county, Pa., March 22, 1725, graduated at Princeton in 1761, and was licensed to preach by the New Brunswick Presbytery in 1763. Being ordained in 1765, he became pastor of the congregations of Buffalo and Alamance, N. C., in 1768. In 1776 he was a member of the Convention which formed the State Constitution, and some years later he declined the offer of the presidency of the University of North Carolina, by which institution he was made D.D. in 1810. He died in 1824, in his 100th year.—Sprague, *Annals*, iii, 253.

Caldwell, James, a Presbyterian minister, was born in Charlotte county, Va., 1734, graduated at Princeton in 1759, and in 1761 was ordained pastor of the Presbyterian church of Elizabethtown, N. J. At the Revolution he entered with spirit into the controversy, and was soon branded as a rebel; and on the formation of the Jersey brigade, he was at once selected as its chaplain. Throughout the war he suffered severely; toward the close of it, his church was burnt and his wife murdered by the enemy. The people reposed great confidence in him, and his labors, counsels, and exhortations were of great assistance to the cause he had espoused. This honored patriot was killed in 1781, at Elizabethport, by a drunken soldier named Morgan, who was tried, convicted, and hung upon the charge of murder. Caldwell was a man of unwearied activity and of wonderful powers of endurance. As a preacher he was uncommonly eloquent and pathetic.—Sprague, *Annals*, iii, 222.

Caldwell, Joseph, D.D., a Presbyterian minister, the author of a *System of Geometry* and a *Treatise of Plane Trigonometry*, was born in New Jersey A.D. 1773, graduated at Princeton 1791, and became Professor of Mathematics at the University of North Carolina in 1796, in which same year he was licensed as a Presbyterian minister. From 1804 till his death, in 1835, with an intermission of five years, he was President of the University, and to his exertions it owes the respectable position which it now occupies.—Sprague, *Annals*, iv, 173.

Caldwell, Merritt, A.M., Professor of Metaphysics, was born in Hebron, Me., Nov. 29, 1806. His early education, both religious and academical, was very carefully conducted, and he graduated with honor at Bowdoin College in 1828. In the same year he became principal of the Maine Wesleyan Seminary, Readfield. In 1834 he was elected Professor of Mathematics and Vice-president of Dickinson College, Pa. In 1837 he was transferred to the chair of Metaphysics and English Literature, which he occupied during the rest of his life. He soon became known as a strong thinker and excellent writer by his elaborate contributions to the *Methodist Quarterly Review*. Nor did his devotion to literature prevent him from taking an interest in the moral questions of the times; and in the cause of temperance especially his labors were abundant and even excessive. In 1846 he visited England as a delegate to the "World's Convention," which formed the "Evangelical Alliance," and took an active part in its proceedings. His health, which had previously been impaired, was apparently improved by his European tour, but in 1847 it failed again, and he died June 6, 1848. Professor Caldwell was a man of uncommonly firm and masculine character. As a pro-

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')*' .;==/ *0',)*' < *,)10 ..'>12^ 5-*56, 12' 2' & 2,)-1=' 2',)*' .6?*' *6-')*' 86.' ;262 ?1;./ '*/*>,*0' =- 2> =6/' 1 ',)*' 2*8' <*,)10 .,' *? 26- ' 6,' *2, .' : // ' *60 */0' <*' 620' =-1+*0') ?.*/ '6D;2062,/ '60*_;6,*' ,1' 62 '.*-+ >*' ,)6,' 0*^ +1/+*0' ;=12') ?' ;',) .' 8)1/*' 81-9' 86.',1'D*'=*-^ 1-?*0' 8 ,) 2'. L' ?12.,).!) .'/;25.'D*>6?*' .*- 1;./ ' 6 *>,*0' 620')*' 0 *0' ,- ; ?=)62,/ ' 12' *>' KS' QKS' 2' Q '6' .?6//0;10*> ?1'+1/;?*'D ',)*' *+' ' <' 6/' ' '86.' =;D/ .)*0' >12,6 2 25' 6' ?*?1 -' 620' .*+*-6/ 1 ') .' =-10;>, 12.' 2' =-1.*' 620' =1*,-E!' ' ' =-65;*' & '+ 'SRR' ._' 6/*D'M:*D') (' 6==6-' 1-' 6' 8' ,)*' 26?*' 1 ',81'1-',)-**' ?*2' **' 6/.1' 4 /'4 ' 9 * 4 ! ' M *=,' d6d VN%X' ()*/6.,C26?*0'1 ',)*',)-**' .12.' 1 ' :*[-12'B;06) .'5-620.12'M')-12' 'R' 8)81'))*' .'>6//*0' ' $ 3' : .',)-**' .12.'D') .' -.,'8 *' [;D6)' -' B*- 1,)' M_' +%X' 6-*' *2;?*-6,*0'M+*-' QXT')*')60'6/.1'621,)*-'.12' : ;-' ' '6'/6,*-' 8 *' =)-6,)' M+*-' RT' =*-)6=.' 12 A',)*' 1/0*.,' 1 '.*+*-6/' +*-.' XT' D*. 0*.' 8)1?'621,)*-'M) .' ' -.,CD1-2JX' .'26?*0'M+*-' K' D' 8)6,' 8 *' .' ;2>*-,6 2X' 2' 600 , 12',1' .*+*-6/ D ') .' >12>;D 2*.' =D6)' 620' <66>)6)' M+*-' S' QX' ' =1.,' Q S' ()*',*L,' .' =1.. D/ '>1--;=,')18*+^ *-' 2'.1?*' 1 ',)*.*' 0 ., 2>, 12.' K' M *=,' d6d VN' D;,' d6d,VN' 2' ')-12' ' RT' >C' >/;.' L/+' RT' ' <6>>' ' S' +' -' O O $' 2' ' 6?' ddd T' B1.*=);.d;d V 1 ' 2,' *,>%X' $.;6// ' >6//*0' ',)*' .12' 1 'B*=);22*)J' M ;?' L ' '620' *'/.*^ 8)*-*'\.**(/' $;3'.1?*, ?*.'8 ,)',)*' 600 , 12' ,)*' *2*[,*J' M ;?' LLL ' KT' B1.)' L +' ' X' -1?' 8) >)' .1?*')6+*')6.,/ ' 2 *--*0',)6,')*' ?6 ')6+*' D**2' 6' 1-* 52*-' 620' % ' 'B;06 .?' *>' 1 . -!' 6/*D' .' -.,' ?*2, 12*0' 2',)*' / .,' 1 ' ,)*' -;/*-.' 1-'=- 2>*.' MdI 8 X' >6//*0' 2',)*' 2*L,' *-.* ')*60. J'12*' -1?' *6>)',- D*' 8)1' 8*-*' .*2,' ,1' .*6->)',)*' /620' 1 ' 62662' 2',)*' .*>120' *6-' 1 ',)*' L10*' M ' S X' 8)*-*' ,' ?6 'D1' 21,*0',)6,',)*-*' 1 >*-.' 6-*' 6//0 *-*2,' -1?',)1.*' 26?*0' 2' ;?' ' + ' d '.6.'6,',)6,',?*=) /6->).'1',)*',- D*.' 6^ /*D' 86.' 12*' 1 ',)*.*' 6? / '>) * ,6 2.' 2',)*',- D*' 1 ' B;06) ' =*-)6=.' 6.' >) * ' 1 ',)*' 6? / ' 1 ',)*' : *[-12' ,*.'6',,)*'.6?*', ?*',)6,' 6).)12 ,)*' .12' 1 ' ?? 26' O6D' 86.'=- 2>*' 1 ',)*' 8)1/*',- D*' : *' 620' .)>6' 1-' B1.);6',)*' .12' 1 ' ;2' 8*-*',)*' 12/ ',81' 1 ',)*' 8)1/*' 2;?D*-' 8)1' 12',)*' -' -*,';-2' -1?' 62662',1' 60*.)C 6?*6'*2>1;-65*0',)*'=*1=/*',1'*2,*-' 2'D1/0^ / ',1',)*'/620' 620',69*'=1..*.. 12' 1 ',' 1-' 8) >)' 6>,' 1 ' 6 ,) ;/2*..' ,)* ' 26--18/ ' *.>6=*0' .,12 25' 6,',)*')620.'1',)*' 2 ;-6,*0'=*1=/*' 2',)*'=/65;*',)6,'*2C' %.;*0' 8) /*',)*' 1,)*-',*2' .=*.'=*-.)*0' 6/*D' 620' B1.);6' 6/12*' 8*-*' .=6-*0' <1-*1+*-' 8) /*',' 86. 6221;2>*0',1',)*' >125-*56, 12' D ' <1.*.',)6,' 1-',) .' -*D*// 1;.' ?;-?;- 25' 6//',)6,')60' D**2' 2;?D*-*0' -1?',8*2, ' *6-.' 1/0' 620';=86-0' *A >*=,'B1.);6' 620' 6/*D'.)1;/0'=*-.)' 2',)*' 8 /0*-2*..'6'.=*> 6/=-1?^ .*' 86.'?60*',1',)*' /6,,*-',)6,')*' .)1;/0' .;-+ +*',1' *2^ ,*-' 2,1',)*' /620' 8) >)')*')60',-100*2',;=12' 620',)6,) .' .**0' .)1;/0'=1..*..' ,' >>1-0 25/ ' 1-, C +*' *6-.'6 ,*-86-0'M % ' S KX' 8)*2'.1?*'=-15-*..')60' D**2'?60*' 2',)*' >12_;*.,'1',)*' /620' 6/*D'>6?*',1' B1.);6' 620' -*? 20*0')?' 1' 8)6,')60')6==*2*0' 6,' 60*.)' 620'1',)*'=-1? .*' 8)>)' <1.*.'?60*',1') ?' 8 ,)' 62' 16,)' : *' 600*0',)6,',)1;5)')*' 86.' 218' *5), C +*' *6-.' 1/0' M)*2>*')*' 86.' D1?' % ' SRQX')*' 86.'6.' ..-125'6.' 2',)*' 06')6==*2*0' 6,' ,1' .= '1;',)*' /620' 620')*' >/6 ?*0'=1..*.. 12' 1 ',)*' /620'1',)*' 269 ?' -A6,)C -D6'1-' : *D-12' 620',)*' 2* 5)D1- 25') //C>1;2,-' MB1.)' L +X' () .' 86.' ?^ ?*0 6,*/ '5-62,*0',1') ?'620',)*' 1//18 25' >)6=,*-' -*/6,*.',)6,')*',119'=1..*.. 12' 1 ' : *D-12' 0- + 25'1;',)*',)-**' .12.' 1 ' 269',)6,')*' 1 *-*0' >).6)') .' O6;5),*-' 2' ?6-- 65*'M>1?=' 6?' L+ 'K T' : 5 2' @ !' S X',1' 8)1*+*-' 81;0',69*' -A6,)C *=)*-' ' *' *D -T' 620',)6,' 8)*2' ,)2*/') .' 1;25*-' D-1,)*-')60' =*- 1-?*0',)*' *6,')*' 21,' 12/ ' 56+*')?') .' O6;5),*-',1' 8 *' D;,' 8 ,)')*-',)*' ;==*-' 620' 2*,)*-' .=- 25.' 1' 86,*-' 8)>)' .)*' 6.9*0' 1-' ,*-',)' .' 81')*6-'21' ?1-*' 1' 6/*D' 21-' .',)*' ,?*' 1') .' 0*6,)' -*^ >1-0*0' ;,' 8*'/*6-2' -1?'B1.)' LL ' N',)6,' 2',)*' 0 .,- D;,12' 1 '> , *.' 1;,' 1 ',)*' 0 *-*2,',- D*.' 1-',)*' =- *.,.' 620' *+ ,* ' ,1' 08*// 2' : *D-12' */ ,1' ,)*' =- *.,.',)*' >) /0-*2' 1 ' 6-12' 1 ',)*' 6? / ' 1 ',)*' 1C')6,) ,*.' 620' 86.' 6/.1' 6' >, ' 1 '-* ;5*' 8) /*',)*' .;-^ -1;20 25',*-- ,1- ' >12, 2;*0',1' D*',)*' =1..*.. 12' 1 ' 6/*D' 6,' /*6.,' 6.' /6,*' 6.',)*' , ?*' 1 ' 6+ 0'M ' 6?*' dd 'NX' D* 25' .,// >6//*0' D ') .' 26?*' M ' 6?' LLL ' X' : .' 0*.>*2062,.' 6-*' >6//*0' 'M K7N' 1-' 7K7N') "" ' ' 6?' LL+' NT' *=,' ,-62./6,*.' 6.' ' 6' =6-121?6.6' 8*-*' 2,*20*0' ' ;,)' *-.')1;.*' 1 ' 6/*DJX' : .' 26?*' .**?.',1' D*' 2.*-,*0' 2' ')-12' ' R' D ' 86 '1 '0 ., 2>, 12' -1?',)*' 1,)^ *-.' 2',)*' .6?*/.,' **' 86/0'" !' ? "!' 'KQQ'._' 6 /*DC*=) -6,6) '6' 26?*' 1>>;-- 25' 12/ ' 2',)*' =-*.*2,',*L,'1 ' ')-12' 'K '6.',)6,'1 '6'=/6>*' 8)*-*' : *[-12' 0 *0' K7NNK' " =) "(6%" (" " ' ' '6%" "8!' ;,' 21' .;>A' =/6>*' .' */*8)*->' -* *--*0',1' 620',)*' >1?=1.,12' 1 ',)*' 26?*' .' 6' ?1.,' ;25-6?>6,>6/ 12*' 56 2' 2* ,)*-' : *[-12' 1-') .' .12' >1;/0' 8*//)6+*' 5 +*2' 62 ' 26?*' ,1' 6' =/6>*' 2' 5A7=,',)*' /620' 1 ',)*' -' D12065*' 21-' 0 0' : *[-12' =-1D^ 6D/ '0 *' 1-') .' .12'/ +*' */.*8)*-*',)62' 2' 5 =,' ()*!' =-*.*2,',*L,',)*-* 1-*' .**?.',1' D*' >1--;=,'620',)*'-*60^ 25' 8) >)',)*' *=,' 620' ;/5' .;55*.' d6d>VN 'M61% $M ' ' ' '6%" + 8' .' =-1D^ 6D/ ' ,)*' ,-;*' 12*' + [' >Z6' ?*62 25 * ,)*-' 6/*D' >6?*',1' =)-6,)J' ' *' >,)/*)*?C' =)-6,6)X' 1-' ., //D*,,*-' 6/*D' >6?*' 2' ;2,1' =)C' -6)%J' ()*8)1/*' 2 1-?6, 12' 5 +*2' .**?.',1' D*',)6,' : *[-12')60',81' 8 +*.' ,)*' --,' 8)1.*' 26?*' .' 21,' 5 +*2' ,)*' ?1,)*-' 1 'B*-6)?**/' 6?' 620' 6/*D' 1-')*/;D6 ' ,)*' .*>120' D 6)',)*' 06;5),*-' 1 ' ;-' 620',)6,') .' .*>120' 2 6-- 651' 1 ' 6/*D' 0 0' 21,',69*' =/6>*' ,//' 6 ,*-' : *[-12 .' 0*6,)' ? ,)' .' +' **' * 4 ! 6/*206-' (' ' # ' ' ' '@ ' '@ ! ' ()*' *6-' 1 ',)*' : *D-*8.' .' >1?^ =1.*0' 1',8*/+*' M620' 1>>6. 126//' 1',) -,**2X' /;26-' ?12,).' 1',) -, ' 620',8*2, C2 2*' 06 .' 6/,*-26,*/' ()*' *6-' D*5 2.' 2' 6;,;?2' 6.',1',)*' > + /' *6-' 620' 2' ,)*' .=- 25' 6.',1',)*' .6>-*0' *6-' %()*' B*8.')60' >6/^ *206-.'62> *2,/E' 8)*-*' 2' 8*-*' 21,*0' 6//',)*' *6.,.' 6//',)*' 6.,.' 620' 6//',)*' 06 .' 12' 8)>)',)*' >*/*D-6,*0' ,)*' ?*?1-X71' 62' 5-*6,' *+*2,',)6,')60')6==*2*0',1

,)*' 26, 12' MU*>)% + ' RT' .,)% + ' ' 2' 4-6*>%X!'
( ) *.*' 62> *2,' >6/*206-.' 6-*' .1?*, ?*.' _;1,*0' 2' ,)*'
(6/? ;0'M< .)26' - "1' X'/P;,,)*-6DfX 2.H *9218/C'
05' ,)6,',)* I6-*' 21,' 218' 2' D* 25'M.**' <6 ?12 0*.'
620' 6-,*21-6 ' 2' /1>%X% ( )1.*' ,)6,' 8*')6+*' 218 '
8)*,)*.'=- 2,*0'1-' 2' ?62; .>- =,' 6-*' 21,'+*- '62> *2,'
M.**' 4*2*D-6-% ; !' '=% N RT' ;L,1- ' 2!'
- ' =% ST' 6-,1/1>> ' ; !' 5 ' ' S T'
6? `.' ' ' + '$ % :' 620 /62,6+% ='
!'5 "2 !'60' 2%X% ( )6,'8) >)' =6..*.' 1-' ,)*' 1/0^
.,' N "' - "!' ,)' +1/;?*' 1 '6 />,12 J'
8) >)' >12,6 2.' ,)*' 06 .' 1 ' *6., 25'620' 6., 25')*-*^
,1 1-*' 2' ;.*' 6?125',)*' B*8. ' 8) >)' 6-*' 21,' 218' 1D^
.*-+*0' 21-' 6-*' ,)* ' 2' ,)*' >1? ?12' >6/*206-.% & *'
)*-*' 2.*-',)*' >) * ') .,1- >6/' *+*2,.' ,69*2' 6.' 8*//
-1?',) .' +1/;?*' - ("1' 6.' -1?' 1,)*-' >6/*206-.%
( )*' B*8 .)' ?12,). ')18*+*-')6+*' D**2' =/6>*0' 12*'
/;26, 12' /6,*-',)62',)*' -6DD 2 >6/' >1?=6- .12' 1 ',)*?'
8 ,)',)*' ?10*?' 1-'B;/ 62' ?12,). ' 2' 6>>1-062>*' 8 ,)'
,)*' >12>/;. 12.' 1 'B%' % < >)6*/ .' 2') .',-*6, .*'=;D^
/ .)*0' D ',)*' 1 6/ 1>% 1 ' 41,, 25*2% **' ' !
1-',)*' 0*,6 /. ' >1?=6-*' *6>)' ?12,)' 2' ,.' 6/=)6D*, >6/
=/6>*% **' 6/.1' ' ; " ' +1/% + ' 620' ,)*' 1/^
/18 25' 1-?6/ ,-*6, .*.d /6;0*-' ' ' ' ' =
=% %" < "! ?8(!' -*.0*' & 'D '
M =.% SSXT .>)*-' ' ' ' # ' M ,*D% XT
/. .*2*' ' ' 'D ' M =.% KXT /6;C'
.25' ' ' ' '% " ' M ,*D% SXT 1C'
.>)*/' !' M ,*D% SRKXT' 62.)6;.*2' ' ' ' '
D !' ' MB*2% NXT ;20' ' ' ' ;' !'
M D16*' SR XT' 65*/' ' ' ' !' # " !'
M /,1- ' SXT */0*2' ' ' ' 2' " !' M 120%
S XT' 1? ?*/' ' ' ' " ' 1!' !' M %;20%
QXT ,-6;>)' ' ' '# !' ' M ,*D%
S SXT' 12' 4;?=6>)' 2 ' ' 'D "!') '
M - ..*/' Q QX' **0 !'

'1-' d%
-" ' ' "' ' " ' ' 1' " ' " 2 ' '!" '
' ' :' ' " ' " ' 1' Z ' ' ' ' ' " '
' ' ' :' ' / !

6 ' % ' *8' ?1127' 6' 6.,' 1-',)*' 0*6,)'1',)*' .12.'1' 6-12'
M *+#' d' ' K%
% ' ' 6.,' 1-',)*' 0*6,)'1' < - 6?' .. ,*-'= ' <1%1*6 M ; ?%
dd' XT' 6/.1' 2' ?*?1-' 1' ',)*' .>6-> ' 1' 86,*-',)6,'
)6==*2*0' 6 ,*-')*-' 0*6,)' ,1',)*' >) /0-*2' 1' .-6*/ 2'
,)*' 0*.*-'1' 60*.)' M ;?% LL' K%
2',) .' 06 '*+*-' 12*' =-1+ 0*0') ?.*/'6'/6?D' 1-' M'
9 0'=-*=6-6,1- ',1',)*' 1//18 25' 6..1+*-%
% ' 2',)*' *+*2 25'1',) .' 06 ',)*' 9 //*0',)*' =6.>)6/
/6?D?',)*' D*562',1';.1';2/*6+*2*0'D-*60'620'>*6.*0'
-1?'6//.*-+/*'/6D1-%
% ' ()*' .1/*?2, '1',)*' 6..1+*-'8 ,)' ,.'1>,6+*' ,)*'
-.,'06'1' ;2/*6+*2*0'D-*60'6'06'1'.-*.,' ,)*' '6,*'
212*' D;';2/*6+*2*0'D-*60'0;-25'* 5),'M/6 .%
.' ..2.',)*' '56,)*-*0'6' .)*6'1' D6-/* ' 8) >)'
,)*' D-1;5),' 2,1',)*' (*?=/*' L " !' + X%
;==/ >6, 12' 1-',)*' -* 52' 1',)*' .=- 25'M4*2*D%%
S% ' 2',A*'.*>120'06'1',)*' *6.,'/;7!7 1 *-*0',)*' D6-^
/* '8) >)',)*')60'=-1+ 0*0',)*' *+*2 25'D* 1-*'6.',)*'
-.,C -;,';'1',)*')6-+*.,' 6.,*-',)6,', ?*' ,'86.'6//18^
0',1'=.,.)',>9/*',1',)*' >1-2%
()*' D*5 22 25'1',)6-+*..%
+?',) .'06',)*' D*562',1'>1;2,' ,'06 .',1' *2C 1V B $ #' ' $ $!
,**1%.,%
K % ' ()*' 1>,6+*' 1',)*' *6.,'1',)*' 6..1+*-' ,)*' *20' 1'
;2/*6+*2*0' D-760% ()., '06 ',)*/0' ?1-*' .1/*?2',)62'
,)*' 1,)*-' 06 .' 1',)*' 1>,6+*' *,',)*' 0 0' 21,'-* I6 2'
-1?' ?62;6/ /6D1-'12' ,%
KS%CTC' 6.,' P' ,)*' 0*6,)' 1'B1.);6'MB1.)' LL/+' KR%
N %C7 /,*?6,*' 1',)*' -.,' 2*8' ?112' 1',)*' .;>>**0 25'
?12,)%
()*' D119' >6//*0' M"' - 1 +' 01*.' 21,' 21, >*'
62'=6-,>;/6-' *.,+6/' 1-',)*' ?12,)' .62% I

U '1-' B %
-" ' ' D1' ' " "' " '
1 ' :' % ' 'E" ' ' ' / ' ' #!
6 ' % ' *8' ?112'% I
S' ' ' 6.,'1',)-**' 06 .' 1-' *L>*..*.' 1?? ,*0' 0;- 25
,)*' *6.,'1',)*' 6..1+*-' ,)6,' .' 12',)*' <1206'
()-.06 '620',)*' <1206' 1//18 25'> ' 6-,1^
/1>>X' 3
% ' ()*' 0*0>6, 12'1',)*' (*?=/*' 8)*2',)*' .?126*62.
>12.*>-6,*0' ,'62*8'6,*-',)*'=*-.*>;,12.'1',)*'4-**9.'
> !' - "1' >% K% 3
% ' ' 6.,' 1-',)*' 0*6,)' 1',)*') 5/C=2*.;' / '620' 1-'
,)*'>6=,;-*'1',)*'6-9'D',)*') /.,2*.%

% ' ()*'.*>120' 6..1+*-' 2' 6+1-'1',),)1.*'8)1'>1;/0'21,'
>*/*D-6,*',)*' -.,' 12',)*' ,)' 1',)*' 1-*51 25'?12,)%
KN% ' ' ' *6.,' 1-',)*' 69 25'1',)*'>,'0'46[6'D' ?12'
<6>>6)*=;'> !' >6/5%' <6>>% L ' N' XT' 1-'
1-',)*' 69 25'620'=;- >6, 12'1',)*'>,60*/'1'B*-;.6^
/*?'D ',)*' <6>>6D**.'> '1' 512 ;.' ' <6>>%
L ' NT' L+' NSXT' 6' *6.,' 1-',)*'*L=;/. 12'1', >
6-6/,*.'1;'1'B*-;.6/*?'D ',)*' .?126662.'1-' <*>>6C!'
D**.'>2 !' \U ":' >1?=% 0 $ 'K %
K ' ' ' *6.,' 1-',)*' *L=;/. 12'1',)*' 46/ /OH62.'1-' ./ 1%C*
8)1'6,*?=.*0',1'.*',:='>-182.'1+*-',)*'56,*'1',)*'
,*?=/*.'620'1',)*/ I')1;.*.' 620'*+*2'12%,)*')*60.'1'
,)*-' 1L*2' 620' 6..*. ' 620',1' . 25') ?2.' 2')121-'1'
6/.*' 5 W % ()*' <6>>6D**.' 0-1+*',)*?'1,;'1'B;0 >6'
620'B*-;.6/*?' 620' 6==1 2,*0',) .' *6.,',1' =*-=*,;6,*'
,)*?*?1-'1',)*-*L=;/. 12'> !' - "8!
KQ% ' ' 6.,' 1-',)*' 0*6,)'1',)*'=-1=)*,' 6?;*/M' 6?%
dd ' X%

% ' ' " ' 1' ' "' ' ":' " ' :' " '
?11;' V #'1-'($ I
6 ' % ' *8' ?112%
% ' *2,*>1.,')1' ,*,)' 06 '6 ,*-',)*' %6..1+*-' >6//*0'
6/.1',)*' *6.,'1' & **9 /' D*>6;.*' ,)6==*2*0'.*+*2'
8**9.'6 ,*-',)*' 6..1+*' % & *' 01' 21,' 20',)6,' ,)'60'
62 '1>,6+*%
' S% ' ' *6.,',1'>*/*D-6,*',)5'+>,1-'1',/1' <6>>6D**.'
1+*-',)*'=*1=/*'1' *,).62'M' <6>>% + ' CT' L ' ' T'
"8!
% ' ' *6.,' 1-',)*',69 25'1' >*.6-*6'D',)*' .?12*=%;.'
8/1'0-1+*',)*'=6562.'-1?',)*2>*'620'.*,,/*0',)*'B*f-.'
,)*-*' > !' -
KH% ' ' 6.,' 2' ?*?1-'1',)*'=-1) D ,12'D 'B*-1D16?'.12'
1'd*D6,',1'/ .',DA*>,; 1-D 00 25',)*?',1'>6-- ',)*-'
-.,C -;,' ,1'B*-;.6/*?'M' 25.'L X%
K % ' 6.,' 2' >1?? *?1-6, 12'1',)*'0*6,)'1',)*-6DD 2.'
?*12' .12'1'46?6/*/' .)?6*/' .12'1' /.)6' 620'
)62 26',),*') 5)C=-*.,.'0*=;, %
' *6.,' 2')121-'1',)*' 1/*?2'A;05?*2,'=-121;2>*0'
2' 6+1-'1',)*'B*8.'D ' /*L620*.',)*' 4-*6,' 656 2.',
),*' .)?6*/,*.' 8)1' D ' + -.;*' 1%',)*-' D-.)-5),'
?6 2,2 2'6'=1..*.. 12'1',)*/620'1' 62662' 656 2.',)*'
62662,*.'871'>/6?*0',)*'.6?*6.'D* 25',)*'1-5 26/
8.=>..1-.' 620' 656 2.',)*' 5 =, 62.'8)1'0*?620*0'
C>.,;., 12'1',)*'+*../.'620'1,)*-',) 25.'D1--18*0'D'
,)*' :*D-*8.'8)*2',)*' '/*' 5 =;M.** % "' \(=
"8' D;',)1'4*?6-6'1' 6D /12' >$ " ! ' f' P
=;',)*'06'1',) .'.*2,*2>*'12' .62' '%>1-6=%' ;.C
$K X
K ' ' 6.,'D*>6;..*' 6DD')62 26',)*'.12'1'()6-0 12'
86.'D;-2,'8 ,)',)*'D119'1',)*/68%
N % ' /,*-26,*'1',)*' -.,'2*8'?112'1',)*'1//18 25?12,)%

(< < $U%
-" ' "' ' 1 "' ' ":' = ' :'
' '($ ' '($ #!
6 ' % ' *8' ?112%
% ' ' *6.,' 1-',)*' 6D1/,12'1'6'=*-2>1;.'D119'1',)*'
600;>**.'620' *,);.62.'D'8) >)',)*' D'
,1'.;D+*-',)*'1-6/ /68'620'6//.),*',-60,12.'> !
3' -
(% ' 6.,' 2' ?*?1-'1',)*',6D/*.'1',)*'/68'D-19*2'D'
<1.*.'M L10% LLL X%
2',) .' 06 ',)*' >,' 1'B*-;.6/*?' 86.',69*2T',)1'
=* =*,;6/*+*2 25'620'?1-2 25'.6>- >** 86.';.=*20*0'
0;-25',)*' .*5** 1'B*-;.6/*?'D' (,;% =..*?12'
,1-*',)*'119'1',)1'/68'620'.*;'=' 62'01/ 2',)1'(*?^
=/*T',' ;71,'.60'8)1,/>',) .)6==*2*0' ;20*4' *D;^
>)602*[[6-' 2, 1>);.' = =)62>.'1-',)*' 1?62.%

% ' ' "' ' ! "' ' ":' " ' :' '
-" ' "' ' ! "' ' ":' " ' :' '
1V B $ #' ' $ $!
6 ' % ' *8' ?1127' 6' 6.,' 1-',)*' 0*6,)'1' 6-12',)*') 5)C
=-*.,%
% ' '>1?? *?1-6, 12'1',)*' >) /0-*2'1'B*,)2*/'1',)*'
-6>*1'B;06)'8)1'6,*-',)*-*.;-2'-1?',)*>6=,+,'
;-2.)*0'8110',1',)*',)*'*?=/*'> !' R("8!
R% ' ' 6.,'1',)1' ,)' ?12,)' 2' ?*?? '1'410.'0*>^
/6-6, 12',1'<1.*.'12',) .'06 ',)6,'212*'1',)*'?;-C'
?;-25'.-6*/,*.'.)1;/0*2,*-',)*/620'1'=-1?.*'M ;2%
L +'KR'N X%
2',)*' .6?*'06 ',)*' (*?=/*'86.',69*2'620'D;-2,a'
1/1?12.'(*?=/*' -.,'D ',)*')6/0**62.T.*-10.'(*?^
=/*'6,*-86-0'D ',)1'12'62.%
]% ' ' 6.,'D*>6;.*'2',)*',?*'1')6[',)*'*+*2 25'/6?=*'
8*2,'1;,%
K % ' d /1=)1-6T' 6' *6.,' 12' 8) >)',)*' .,1-*0' ;=',)1'
2*>*..6-'8110'2',)*' (*?=/*'M */0*2T.**'B1.*=);.'
-1 ' ' X% >6/5*-=/6>*.',) .' *., +6/12',)*'KK0'1'
,)*2*L',?12,)%
K % ' ' *6.,' 2' ?*?1-'1',)*'6D1/,12'1'6'/68'D',/A*'1
.?1;>>62.'1-' <6>>6D**.' 8) >)',)60'D**2' 2,-10;>*0'
D',)*' 600;>**.' *26>, 25',)6'D1,)'.12.'620'06;5)^
,*-.' .)1;/0' 6/9*' 2)*-',)*' *.,6,*.'1',)*-'=6-*2,.'
> !' - "8!
Q % ' /,*-26,*'1',)*' -.,'2*8'?112'1',)*'1//18 25'?12,)%

,1' ,)*' =12, .¶ ' ,)*' 2,*->6/6, 12')60' D**2' -*5 ; /6-^ / '?60*' ,)*' 1?62.' 81;/0')6+*' /1.,' 2*6-/ ' 12*' 06 ' 2' *+*- ' 1 ;-' *6-. ' . 2>*' ,)*' -*6/ /*25,)' 1 ',)*' .1/6-' *6-' .'6D1 ;,'N4 7 06 .† D ;,,)*' D ;. 2*..' 86.' .1'>6-*^ /*. ./ ' *L*>;,*0' ,)6,' ,)*' 0 *-*2>*' D*,8***2' ,)*' > + / 620' ,)*' .1/6-' *6-' .1?*, ?*.' 6?1;2,*0' ,1' .*+*-6/ ?12,).¶ 6*.6-'>6//*0' 12' ,)*' 6.,-121?*-. ' *.=*> 6// ' 12' 1. 5*2*.' 1 ' /*L620- 6 ',1'-*>, ',)*' 0 .>-*=62> ' 620' =-*+*2,' ;,;-*' *--1-¶ ,' 86.'0*,*-? 2*0',1' ?69*' ,)*' -.,' 1 'B62;6- '1',)*' 1?62' *6-' $% Ć 7 R' >1 2^ > 0*' 8 ,)' ,)*' -.,' 1 'B62;6- '1',)*' .1/6-' *6-' 8)>)' 8*' >6// % ¶ ¶ ;,' ,'86.'>6/>;/6,*0',)6,',). 'B62¶ ' 1',)*' *6-' $% ¶ R' 81;/0' D*' S '06 .' 2' 60+62>*' 1 ' ,)*' ,-;*' , ?*† 2' 1,)*-' 81-0.' ,' 81;/0' 21,' >12>;-' 8 ,)' B62¶ ' 1 ' % ' 'D ;,' 8 ,)' >,' KK' 1 ' % ¶ ¶ (81' 2,*->6/6- ' ?12,). ' ?69 25' ,15*,)*-' S ' 06 .' 8*-*' ,)*-* 1-*' 2.*-,*0' D*,8**2' ,)*' /6.,' 06 ' 1 ' 1^ +*?D*-' 620' ,)*' -.,' 1 ' *>*?D*-' 1 ',)*' *6-' $% ¶ Q¶ 2' 2,*->6/6- ' ?12,)' 1 'KN' 06 .')60' 6/-*60 ' D**2' 600*0',1' *D-;6- '1',)6,AF*6-' 6>>1-0 25',1',)*' 1/0' ?*,)10¶ ()*' 1?62' *6-' Q' 86.',);.' ?60*',1' >12. .,' 2'6// 1',)*'=-10 5 1;'2;?/,*-'1 ' '06 .'M ¶*% 7N mKN CS X¶ ,' 86.')*2>*' .>1 25/ C>6//*0' ,)*' *6-'1 '>12 ;. 12?1-*'A;.,/ ',.)1;/0' D*'26?*0'6.' <6>-1D ;.'1D.*-+*.' ',)*'/6.,' *6-'1 '>12 ;. 12%J' (1' =-*+*2,' ;,;-*' *--1-.',)*' *6-' 86.'/*25,)*2*0' -1?' N ',1' NS ' 06 .' *6>)' ?12,)' *L>*=,' *D-;6- ' D* 25' /*25,)*2*0' MD ' 12*' 1-' ,81' 06 .' 2*6-/ ' 6/,*-26,*/ X' 6>>1-0 25',1',D*' -;/*' 8)>)' 8*' ., // 1D.*-+*¶ ;,' 6.' ,)*' .1/6-' *6-'>12. .,.' 1 '+*- '2*6-/ 'NS ' 06 .' ,' 86.' ?62 *.,/ ' 2*>*..6- ',1' 600' 12*' 06 ' 2' *+*- ' 1;-' *6-.' 620',) .' 86.' 012*' 6,',)*' *20' 1 ' *D-;6- '6.' 6,' =-*.*2,' 2' 1;-' /*6=' *6-J' ;>)' 86.',)*' 6?1;.' D ' 1' 8)>)' 8 ,)' 6' ./ 5),' 6/,*-6, 12' >12^ ,2;*.' 2' ;.*' 2' 6//')- ., 62' >1;2,-*.',1',)*' =-*.*2,' 06 ¶ ? ' ¶ ' ()*' 600 , 12' 1 '12*' 06 ' 1-' *+*-E7 1;-' *6-.' 81;/0' D*' >1--*>,' ',)*' .1/6-' *6-' >12. .,*0'*L6>,/ '1 NS 7 06 .' 1-' NS '06 .'620' ')1;-.† D;,' 2' 6>,' ,' >12. .,.' 1 '12/ ' NS ' 06 .' ')1;-.' ' ? 2;,*. ' B' .*>120.† .1',)6,',)*'B;/ 62' *6-' ./125*-' ,)62' ,)*' ,-;*' .1/6-' *6-' D '6D1;,' ' ? 2;,*.¶ .*C .6-.' 6.,-121?*-.' 6-*' .;==1.*0',1')6+*' D**2' 686-*' 1 ' ,) .' D;,' ,1')6+*' 2*5/*>,*0',¶ >>1-0 25/ ' 2' ,)*' *6-' % ¶ QK',)*' D*5 22 25' 1',)*'B;/ 62' *6-' 86.' 1;20',1' D*' 6D1;,' N 06 .' D*) 20',)*',-;*' ,?*' ,)*' +*-26/*_;21L' 6// 25' 12',)*' //7779 60' 1',)*' .,' 1 ' <6->)' ,.' 06,*' 6,',)*' 1?77777 >>' % ¶ NK ¶ ()*',?*' 1 ' 6.,*-',)*-* 1-*' ,)*' 1,)*-' ?1+6^ D/*' *.,+6/.')60' D**2' ;2.*,,/*0' D ',)*' =-15-*.. +*' -*>*.. 12' 1 '06 .' 620' ,' 86.' ?6,,*-' 1 ' ?=1-,62>*' 1-' *>>/*. 6.,>6/ 6.' 8*// 6.' > + / =;-=1.*.',)6,',)*' >6/*21¶ 06-' .)1;/0' D*' -*>, *0¶ 1=*' 4-*51-' d : ' M_¶+%X ,)*-* 1-*' 1-06 2*0',)6,',*2' 06 .' .)1;/0' D*' 0*0;>,*0' -1?',)*' *6-' QK' D ' >6// 25' 8)6,'6>>1-0 25',1',)*' 1/0' >6/*206-' 81;/0')6+*' D**2' -*>912*0',)*' ,)' 1 ' >^ ,1D*-',)*/1,)' 1 ' >,1D*-' SQKT 620' 2' 1-0*-',)6,',) .' 0 .=/6>*?*2,'?5),'21,'-*>;-' ,' 86.' ;-,)*-' 1-06 2*0' ,)6,' *+*- ');20-*0,)' *6-' M Q ' R ' K ' *,>%X .)1;/0' 21,'D*' >1;2,*0'6'/*6=C *6-''*L>*=,'+*-' 1;-,/');20-*0,)' D*5 22 25' 8 ,)' K $ ¶ 2',)' .' 86 ',)*' 0 ^ *-*2>*' D*,8**2',)*' > + / 620',)*' 26,;-6/ *6-' 8 // 21,' 6?1;2,',1' 6' 06 ' 2' ' *6-.¶ 2' =6 2' 1-,;56/' 620' =6-,' 1 ' ,6/ ',)*' =1=*' 86.' *L6>,/ ' 1D* I*0¶ 2' -62>*' ,)*' >)625*' ,119' =/6>*' 2',)*' .6?*' E7*6-' D ' >6// 25',)*' ,)' ,)*' K X,)' 1 ' *>*?D*-¶ 2',)*' 18' 1;2,-*.',)*' >)625*' 86.' -1?',)*' ,)' 1 ' *>*?D*-' ,1',)*' K ,)' † D;,' ,' 86.'-*. .,*0' D ',)*' -D,>.,62,'=6-,' 1 ',)*' >1?? ;2 , ,// ,)*' *6-' ' ()*' 1?62.;' 26, 12.' 2' 5*2*-6/ 601=,*0' ,D*' 1-06 2*0' DE',)*' .1+*-* 52' =12, † D;,',)*' -1,*.,62,.' 8*-*',)*2',11' ?;>)' 2 /6?*0' 656 2.,' 1?62 .?' 2' 6// ,' -*/6, 12.' ,1' -*>* +*' *+*2' 6' =;-*/ '.> *2, >' ?=-1+*?*2,' -1?' .;>)')620.¶ ()*' ;,)*-62.' 1 '4*-?62 ' 8 ,[*-^ /620' 620' 6.' 6/-*60 ' ?*2, 12*0' 1',)*' 18' 1;2,-*.' 6,'/*25,)' 56+*' 86 ' 2' ' 8)*2' ,')60' D*>1?*' 2*>*.^ .6- 'd1' 1?,' ' 2.,*60' 1',*2' 0677.¶ 'D //,1',) .

* *>;')60' D**2' D-1;5),'D* 1-*',)*' 6-/ 6?*2,'1 ' 25^ /620' 2' Q 'D;,'01*.' 21,'6==*6-',1')6+*' 512*' D* 120' 6' .*>120' -*60 25' 2',)*' :1;.*' 1 ' 1-0.¶ ,' 86.' 21,' ,//' 620' 6 ,*-' 5-*6>,' 2>12+*2 *2>*')60' D**2' *L^ =*- *2>*0' 1-' 2*6-/ ',81' >*2,;-*.' -1?',)*' 0 *-*2>*' 1 ',)*' -*>912 25',)6,'62' 6>,' 86.' =6..*0' MK ' 4*1¶ ' X' 1-' *_;6/ [25',)*' ., /1' 2' 4-*6,' -,6 2' 620' -*/620' 8 ,)',)6,';.*0' 2' 1,)*-' >1;2,-*.' 1 ' ;-1=*¶ ,' 86.',)*2' *26>,*0',)6,'*/*+*2' 06 .' .)1;/0' D*' 1?,^ *0' 6 ,*-',)*' KO' 1 ' *=,*?D*-' K' .1',)6,',)*' *2.,^ 25' 06 '.)1;/0' D*',)*' ,)' J ;.. 6' ., // 60)*-*.',1' ,)*' /0' ,A0*' .1',)6,')*-' -*>912 25' .' 218' K' 06 .' D*) 20',)6,'1',)*' -*.,'1 ' ;-1=*¶ ' '" '@ "'5 % ! ' '6'0*>-**'1',)*' 6, 126/ 12+*2, 12'12' 1+¶K RN',' 86.'1-06 2*0' ,)6,'6' 2*8' *-6' .)1;/0' 06,*' -1?',)1' D*5 22 25' 1',/ 1' *=;D/>' *=,¶ KK' RK' † ,)1' ? 02 5),' =-*>*0 25' 8)>)'D* 25',)*'6;,;?26/*_;21L'86.' L*0' ;=12'6.' ,)*' *=1>)' -1?'8)>)',)*' *6-.' 8*-*',1' D1' -*>912*0' 6.' *6-' 2*' *6-' (81' *ZM ()*' A*6-' 86.' 0 + 0*0' 2,1' K ?12,). '*6>)' 1 'N ',1' 8)>)' 2*8' 26?*.' 8*-*' 5 +*2' 6.' NF ▷ N ' ?12,)X';' M 155A7 ?12,)X' @ 1' M -1.,' ?12,)X' *,>¶ ()1' ?12,).' 8*-*' 0 + 0*0' 2,1' =*- 10.' 1 ' ' 06A7.' >6//*0' 1' ' - 1' *,>¶ ()*',*2,)' 06 ' 86.',1' XS ,)1' 06 ' 1 '-*.,' ,)*')- ., 62' 6DD6,)' D* 25' 012*' 686 ¶ +*' 2,*->6/6- ' 06 .' 8*-*' 600*0' 1-' *6>)' *6-' + [¶B)*' *., +6/.' 1 ' ? 1' " '& 1' 5 A' ! ',% ! 2' *+*-AC ,)' *6-',)*-*' 86.',1')*' 62' 2,*->6/6- ' *., +6/ 1 '-" '5 ! () .'>6/*2^ 06-' 8*2,' 2,1' ;.*' 1+¶KS RN' 620' 86.' 6D1/ .IA*0' 2' Q 'D ' 6=1/*12' 8)1' 1-0*-*0',)*' 4-*51A 62' 6/*2^ 06-',1' D*' -*.;?*0' 12' B62¶ ' Q S% ' 6-/ /*' @ "' 5 !1' ' NNST ' % 1' .¶ + %†)6?^ D*-..' 6 % 1'.¶+¶ **' ' #! ' ' > ! J K!' ',6D/*' 1',D*' 1-0*-'620' .*- *.'1 '06A .' 8**9.' ?12,).' 620')1/ '06A7.' 2',)*' *6-'M.1'>6//*0' -1?',)*' * %=' 1-' -.,† 06 '1 ',)*' 1?62' ?12,)X¶ ()*' 1/0*.,' *L,62,'>6/*206-' >12^ ,6 2 25',)*')- ., 62' *.,+6/.',),'1 ' /+ .'M % ¶ QX' =;D/.)*0' 2',)*' & ' $! B;2*' M+$' M X¶ ()*-*' .' 6' -65?*2,'1 '6' 41,)>'>6/*206-' .;==1.*0',1' D*' 1',)*' ,)' >*2,;- >1+*- 25',)*' 1/6,,*-'=6-,'1 ' >^ ,1D*-' 620',)*' 8)1/*' 1 ' 1+*?D*-' 8)>)' 5 +*.' .*+*2' 06A .' 8 ,)' .6 2,.' 26?*.¶ ,' ?6 ' D*' 1;20' 2' <6 ' $ % ' N ' ! ' ' +' ' *7' ' 620' ! ¶ ()*' @ ' 1-' >6,6/15;*.' 2' 8)>)' 0 *-*2,' >);->)*.' =-*.*-+*0',)1' 26?*.' 1 ',)1.*' .6 2,.' 8)1?' ,)*' ' *.=*> 6// ')121-*0' 6.' ,)* ' D .)1=.' ?6-,E(. *,>¶ ,1' 8)>)',)* ' 600*0',)*' 26?*.' 1 ' .1?*' 1,)*-' .6 2,.' D;,' 5*2*-6// ',)1.*' 1',)*' 2* 5)D1- 25' >);->)^ *.¶ ()*' >6/*206-.' 0 *-*0' -1?',)*' ?6-,7 -1/15 *.' 2',) .',)6,',)*' 1-?*-' >12,6 2*0' D;,' *8' 26?*.' 1 ' .6 2,.' ;2>122*>,*0' 8 ,)' ,)*' =6-,>;/6-' >);->)† ,)*' /6,,*-' >12,6 2*0' 6//,)*' .6 2.,')121-*0' D ',)*' 8)1/*');->)¶ ()*' ?1.,'62>*2,'9218 2' >6/*206-' .',)6,'1 ' ,)*' 1?62');->)' 8)>)' 6>>1-0 25',1' 6 //*,' 86.' 1-?*0' 6D1;,',)*' ? 00/*' 1',)*' 1;-,)' >*2,;- ' ;20*-' 1=*' D*- ;.' 1-' 6>>1-0 25',1')6,*/6 2' 2' NNS' ;2^ 06-' 1',)*' 1? .)');->)' .+*-E!' >1= 1;.d .,' ?6 ' D*' 1;20' ?1-*' 1-'/*..' >1?=/*,*' 2',)1' 1?62' 6/?626>.' -1?' *6-',1' *6-% ()*' 4*-?62' ;,)*-62');->)'-*,6 2*0',)*' 1?62^ .,' 6/*206-' M8 ,)',)/*' .6 2.,' 06A7.' 1',)6,'65*X 6,',)*' * 1-?6, 12¶ -1 *..1-' =*-' >12.,-;>,*0' 2' Q '62' +625*/ >6/ 6A *206-' 1-',)*' ;.*' 1',)*' +625*/ >6/);->)'1 '4*-?62A7 8)>)' .' ..;*0' 622;6// ' ;// 1 ' D 15-6=) >6/ 620' 1,)*-' ?6,,*-' 1' 2,*-*.,'6/125' 8 ,)' ,)*' >6/*206-' 1 ' *6.,.' 6..' *,>¶ ** =*-' ' ' >-C ' !' 6 ') ' M *-/ 2' Q X ()*' >6/*206-' 1',)*')>)' 1 ' 25/620' 6.' ,'.,620.

2' ,)*' /6-5*' *0 , 12.' 1 ' ,)*' -6 *-CD119 ' >12. .,.' 1 ' 2 2*' >1/; ?2.d' ,)*')-.,' >12,6 2.' ,)*' 51/0*2' 2 ; ?D*-' 1-' > >/*' 1 ', /*' ?112Ť ,)*' .*>120' .)18.' ,)*' 06 .' 1 ' ,)*' ?12,)' 2' ,)* -' 2 ; ?*- >6/ 1-0*-Ť ,)*',) -0'>12,6 2.' ,)*' 1? 2 >6/ 1-' ;206 ' /*,,'*-Ť ,)*' 1 ;-,)' ,)*' >6/*20. ' 212*. ' 620' 0*.' M,) .' 86.' ,)*' 1?62' ?*,)10' 1 ' >1?^ =; ,6, 12 ' 620' 86.' ; .*0' D ' ,)*' *6-/ ')- ., 62.XŤ ,)*' >12,6 2.' ,)*')1/ ' 06 .' 1 ' ,)*'); ->) ' 6.' 6/.1' .1?*' *., +6/.' 1 ' ,)*' 1? .)'); ->) ' .*,' 0182' ;-' =; D/ >' >12+*2 *2>*' -6,)*-',) 62' 1-' -*+*-*2>*Ť 620' ,)*' -*?6 2 25' 1 ;-' >12,6 2' ,)*' =1-, 12.' 1 ' >- =, ; -*' 620' 1V,)*' =1>- =)6' 6==1 2,*0' 1-',)*' 06 / ' /*..12.% ()*' /.' 1 ' .6 2,. '06 .' 620' *., +6/.' 2>/; 0*.' 6'2; ?^ D*-' 1 ',)*' 1? .)')1/ 06 .' =-1=*-/ .1' >6//*0'+ [%d ;^ > 62 ' =-.*.' 620' ?6-, -' B62% Ť : /6-AW D .)1=' 620' >12^ *..1-' B62 ' NŤ - .>6 ' + -5 2' 720' ?6-, -' B62% QŤ 6D 62 ' D .)1=' 620' ?6-, -' B62 ' K Ť 52*. ' + -5 2' 620' ?6-/ (' B62% K Ť 2>*2, ' 0*6>12' 620' ?6-, -' B62% KKŤ /6. ; .' D .)1=' 620' ?6-, -' *D% NŤ 56,)6 ' + -^ 5 2' 620' ?6-,A(' *D% Ť 6/*2, 21 ' D .)1=' 620' ?6-, -' *D% Ť 6+ 0 ' ,; ,*/6-' .6 2,' 1 ' & 6/*. ' : 6->)' Ť *00*' 1-')60' D .)1=' < 6->)' KŤ *-=*,; 6 ' ?6-, -' < 6->)' Ť 4-*51- ' D .)1=' 620' >12 *..1-' < 6->)' KŤ 6,- >9 ' ; ,*/6-' .6 2,' 1 ' -*/620 ' < 6->)' Ť 086-0 ' > 25' 1 ',)*' & *.,' 6L12. ' < 6->)' QŤ *2*0 >, ' 6DD1, ' < 6->)' K Ť >)6-0 ' D .)1=' =- / NŤ ?D-1.*' D .)^ 1=' =- / Ť /=)*5*' 6->)D .)1=' =- / Ť 4*1-5*' .6 2,' 620' ?6-, -' =- / KQŤ -1..' 2+*2, 12' 1 ' < 6 ' NŤ B1)2 ' .6 2,' *+625*/ .,% < 6 ' Ť ;2.,62 ' 6->)^ D .)1=' < 6 ' RŤ ;5; ., 2*' 6->)D .)1=' < 6 ' KSŤ *0*' +*2*-6/0*' < 6 ' K Ť >1?*0*' ?6-,A(' B; 2*' Ť 12 6>*' ,P .)1=' 620' ?6-, -' B; 2*' Ť /D62 ' .6 2,' 620' ?6 -' B; 2*' Ť 086-0 ' ,-62./6, 12' 1 ' B; 2*' K ' < 6- ' -5 2 ' + . ,6, 12' 1 ' B; / ' K Ť < 6-, 2 ' D .)^ 1=' 620' >12 *..1-' B; / ' Ť 8 ,) 2 ' D .)1=' B; / ' Ť < 6-56-*, ' + -5 2' 620' ?6-, -' B; / ' K Ť < 6506/*2*' .6 2,' < 6- ' B; / ' KKŤ 6?*' .6 2, ' B; / ' KNŤ 6? ?6.' 6 ' ;5% Ť (-62. 5; -6, 12' 1 ' 1; -' 1-0' ;5% Ť B*.; . ' 26?*' 1 ' ;5% Ť 6; -*2>*' 6->)0*6>12' 620' ?6-, -' ;5% Ť ;5; ., 2*' D .)1=' 1 ' : ==1 ' ;5% KQŤ B1)2' 6=, ., ' L7)*60 25' 1 ' ;5% K Ť 4 /*. ' 6DD1, ' 620' >12 *..1-' *=,% Ť 2; ->) ; . ' B.D2=' *=,% Ť < 6- ' -5 2 ' 26, + , ' 1 ' *=,% Ť : 1/ ' -1.. ' -*>1+^ *- ' 1 ' *2,% ' %I ?D*-, ' D .)Z= 620' ?6-, -% *=,% Ť V=- 62 ' 6->)D .)1=' 620' ?6-, -' *=,% KS Ť B*^ -1?*' =- *.,' 620' >12 *..1-' *=,% N Ť *? 5 ; . ' D .)^ 1=% >,% Ť 6 ,)' + -5 2' 620' ?6-, -' >,% Ť *2 . ' D .)1=' 620' ?6-A(' >,% RŤ 086-0 ' ,-62./6, 12' 1 ' >,% NŤ ,)*/-*06 '+ -5 2 ' >,% Ť .= 2 ' .6 2,' 620' ?6-, -' >,% K Ť *126-0 ' >12 *..1-' 1+' 4Ť < 6-, 2 ' D .)1=' 620' >12 *..1-' 1+% Ť - , 2. ' D .)1=' 1+% NŤ < 6>) ; ,; . ' D .)1=' 1+' Ť : ; 5) ' /X / 1=' 1+% Ť 0?; 20 ' 9 25' 620' ?6-, -' 1+% Ť *> / 6 ' + -^ 5 2' 620' ?6-, -' 1+% KKŤ /*?*2, ' D .)1=' 620' ?6-^ , -' 1+% KNŤ 6,)6-2*' + -5 2' 620' ?6-, -' 1+' KS Ť >)1/6. ' D .)1=' *>' Ť ;> ' + -5 2' 620' ?6-, -' *>% NŤ ' 6= *2, 6 *>% ST /+*.,*-' D .)1=' *>% N %

()*.*' 6-*' 1? .,*0' 2' ,)*' >6/*206-' 1 ' ,)*' -1,*.^ ,62,' = .>1=6/);->) ' 8) >)' -*,6 2.' 12/A ' ,)*' .>- =CI' ;-6/ *., +6/.% &)*6,/ ' 6.. 52.' ,)*' 1//18 25' -*6^ .12.' 1-' ,)*-*,*2, 12' D ' ,)*' 25/ .)');->) a 1?*' 1 ',)*?' D* 25' -*,6 2*0' ;=12 6>>1; 2, ' 1 ' ;-' >1;-.,' 1 'A;., >*' 8) >)' ; . ; 6// ' ?69*' ,)* -' -*, ; -2. ' 12' ,)*.*' 06 .' 1-' */.*' ;=12' ,)*' 06 .' D* 1-*' 1-' 6 ,*-' ,)*2XX 8) >)' 6-*' >6//*0' 2' ,)*' 8 -,.' N 2 '@ 31-' !' 6.' 2' N 1 !' 1' @ ' 1' !' 1' 620' ,)*' / 9*% ,)*-.' 6-*' =-1D6D/ ' 9*=,' 2' ,)*' >6/*206-' 1-',)*' .69*' 1 ' .;>)' ,-60*. ?*2')620 >-6 ,. ?*2 ' 620' 1,)*-.' 6.' 6-*' 812,' ,1' >*/*D-6,*' ,)*' ?*?1- ' 1 ',)* -' ,; ,*/6-' .6 2,.' & */.) ?*2' 01' 1 ' ,*0' 6+ 0' ,)*' .)1*% 269*.' 1-' 6 -.' 9*=,' ;=12' ,)1.*' 06 .' .1' ,)6,')*' =*1=/*' 81; /0' =-1D6D/ ' D*70%.=/*6.*0' ' * ,)*-' 2' ,) .' 1-' ,)*' 1-?*-' >6.*' ,)* -' 6+1-,*' .6 2, .' 26?*' .)1; /0 D*' /* ,' 1 ; ,' 1 ' ,)*' >6/*206-% *. 0*.' .,)*') .,1- *.' 8) >)' 8*-*' 8-,' D* 1-*' ,)*' * 1-?6, 12' 01' -* _ ; *2,/ ' 6=*69' 1 ',-62.6>, 12.')6==*2 25' ;=12' .;>)' 6')1/ ' 06 ' 1-' 6D1; ' .;>)' 6' , ?*' 8 ,)1; ,' ?*2, 12 25' ,)*' ?12,)Ť -*/6, 25' 12*' ,) 25' ,1' D*' 012*' 6,' 6? ?6.C, 0*' 620' 62^ 1,)*-' 6D1; ' < 6-, 2?6. ' *, >%' .1' ,)6, ' 8*-*' ,)*.*' 26?*.' _ ; ,*' /* ,' 1 ; ' 1 ' ,)*' >6/*206-' 8*' ? 5), ' D*' 6, ' 6' /1..' ,1' 1 9218' 8)*2' .*+*-6/ 1 ' ,)*.*' ,-62.6>, 12.')6==*2*0% ;,' 1-',) .' 620' ,)*' 1-*51 25' -*6.12.' 1 ;-' .*>120' -*^ 1-?*-.' ;20*-' _ ;**2' / [6D*,)' M,)1; 5)' 6// ,)1.*' 06 .' D60' D**2' 1? .,*0' 2' D1,)' D119.' 1 ' 9 25' 086-0' ' *L>*=, 25' ,% 4*1-5*.' 6 ' 6? ?6.' 6 ' ,% 6;^ -*2>*' 620' ,% /*?*2, ' 8) >)' 8*-*' 2'D .' .*>120' D1; 9X ,)1; 5), '>12+*2 * ',1' -*.,1-*',)*' 26?*.' 1 ',)*?',1',)*' >6/*206-' ,)1; 5)' 21, ' 8 ,)' 62 ' -*56-0' 1 ',)*' -' D* 25' 9*=,')1/ ' D ' ,)*');->)%J ' &)*6,/ ' , ' ' >)% Ť -1>,*-' , ' ' 1' SKŤ =*-' 2' : *-[15 .5 A6 4 + % 1 '+ ' KNKŤ 1/*?62 ' & 9 ' " (1' >)C LL+ ' g Ť " ' 5 9 1' L/ ' NR %

6/*206-1?' *.,; ? '@ ' 1" ' ! () .')*6,)*2' *., +6/ 86.'-*,6 2*0' D ' ?62 ')- ., 62.' 620' .' >6//*0' ' 620' ! ,' (776.' 2' .1?*' =*- 10.' >>/1C I' D-6,*0' 8 ,)' 5-*6,' 20*>*2> *.' ; 20*-',)*' 26?*. 7.7; (2 " 1' ' " % 1' ' ! 2' /6,*-', ?*.',)*' =*1=/*' ?*,' ?6.9*0' 2',)*' >) ;->)*.' 620' 2' 6' /; 0 >-1; .' 86E ' =-1>**0*0',1',)*' */*>, 12' 1 '6' ?1>9' D .)1=' 8)1' *L*-> .*0' 6' A ;- .0 >, 12' 1+*-',)*?' .; ,*0',1',)*' *., + , ' 1 ',)*' 1>>6. 12% 6,)*-.' 620' >1; 2> /.'/125'/6D1-*0',1'-*.,-6 2',) ./ >*2.*' D ; ',1'/ ,^ ,/*' =; -=1.*%I' (*-,; // 62 ')- .1.,1?' 620' ;5; ., 2*' 0*>/6 ?' 2',)*' .,-125*.',*-?. ' 656 2.',) .' *., +6/Ť 620' ,)*' 1; 2> / 2' (-;//1' % SRK' 1-D 0.' ,)*' 062> 25.' 8) >)' 8*-*' ; .*0' D1,)' D ' ?*2' 620' 81?12' ; 20*-',)*' =*26/, ' 1 ' *L>1?? ; 2 >6, 12% 2' .1?*' 2^ .,62>*.' ,)*' =-6>, >*' 1 ' .6>- > 25' 6' >6/ ' 86.' 601=,*0' *.=*> 6// ' 6,' ,)*' " 1' 6' *6.,' 1 ' ,)*' 510' 62% ()*' 1; 2> / 1 ' ; L*--*',69*.' 21, >*' 1 ',)*' -*?6 2.' 1 ' .1?*')*6,)*2' .; =*-., , 12' 2' -62>*' 2' 1 *- 25' 6' D 20' 1-' >6/ ' 8) >)' ,' 0*. 526,*.' 6' 0 6D1/ >6/ 1D.*-+6, 12% ' ' 25)6?' , ' 6 'D9% L L Ť 6--6-' 6 !' ! ' .% +% 3 06/*206-; ?' -6 ,-*. ' 1-' ' ; " ' 6' .1^ > *, ' 1-?*-/ '.=-*60'1+*-' -62>*' 4*-?62 ' 620' : ; 2^ 56- ' 620' 8) >)' .' .6 0', 1') 6+*' 1- 5 26,*0' 2' 6L12 ' 2' ,)*' ,) -,**2,)' >*2,; - % ,' 6..*?D/*0' 2' +6- 1; .' =/6>*.' 12' ,) >777/6 '1 ' *6>)' ?12,)' ,1' -*5 ; /6,*' ,)*' 1D.*-+62>*' 1 77777 ; 25' *., +6/. ' ,)*' 0 .,- D ; , 12' 1 '6/?. ' 06 .' 1/77775 ' ,)*' D ; - 6/ 1 ' ,)*' 0*60 ' *,>% ,' 86. ' 2' 6>, ' 6' .1-,' 1 ' D*2* > 6/ .1> *, ' ; 20*-' ,)*' =6, -1265*' 1 ' ,)*' D .)1=' 1 ' ,)*' 0 1>*.*% ,' 6 ,*-86-0' /*0' ,1' 6D; .*. ' >6-1; .6/. I*,>% ' 620' ?1.,' 1 ' ,)*' .1> *, *.' 8*-*' 6GX1/ .)>0' 6, ' ,)*' * 1-?6, 12' 1?*')18*+*-' 8*-*' ,, // 2' L .,*2>*' 6, ' ,)*' D*5 22 25' 1 ' ,)*' 2 2*^ ,**2,)' >*2, ; -A 7% +*2' 2' ,)*' -1,*.,62, ' ,' 1 ' -; 2.^ 8 >9' 6' '>6/620J')6.'21? 26// '?6 2,6 2*0' ,.*/ % 2*' >6/620' M ',)*' >6/620' 1 ' =- 2>*.' 6, 6)/6JX' >12. .,*0' ?*-*/ '1 '?*?D*-.'1 '=- 2>*/ ')1; .*.Ť .*+*-6/M6. '*%5% ,)*' >6/620' *-5*2X 1 '92 5), .' 620' ?*?D*-.' 1 ',)*') 5)*-' >/*-5 Ť 1,)*-.' 1 '92 5), .' 12/ % *> *//*-' ' !' ' @ !') !' M -629 % SRK' ,1XŤ /; ?D*-5 ' 2 ' ! %' M)*?27 K XŤ *0*D; -' 2' +1/% +'1 ',)*' # " '@ (" 'M *-/% Q X%

6/M -1=% D/GH ' (1' (=' *-2' "(BOV , d, Ť .1?*, ?*.' 1-' 7 '=6-' 6' 1-' 1; 25' D; //1>9Ť 6/.1=*- =)-6., >6//E A6 6181 1V,)*7, -, X' ,)*' 1; 25' 1 ',)*' 1L' .=*> *.% *' 8 'g 8$ '*,>% ()*-*' .' -*_; *2,' ?*2, 12' 2' >- =, ; -*' 1 '>6/+*.' D*^ >6; .*' ,)*' 8*-*' ?60*' ; .1' 1 '>1?12/ ' 2' .6>- >*.% ()*' 6,,*0' >6/ J' 86.' -*56-0*0' D ',)*' : *D-*8.' 6.' ,)*' >)1 >*.,' 62 ?6/ 110% ,' 86.' .,6//C *0' -*_; *2,/ ' 8 ,)' .=*> 6/ -* *-*2>*' ,1' 6'=6-, >; /6-' *., +6/ 1-' *L,-61' 7' 1-0 26- ' .6>- >*' M ' 6?% LL+ ' K Ť ?1.' + ' Ť ; 9*' d ' KNX% ()*' 6//; . 12' 2' B*-' LLL + ' Q R' .' ,1' 62' 62> *2,' >; .,1?' 1 '-6, 25' 6' >12,-6>,' 1-' >1+*^ 262,' 2' ,)*' 1D.*-+62>*' 1 '8) >)' 62' 62 ?6/1' 86.' ./6 2

and divided, and the parties passed between the parts (comp. Homer, *Il.* iii, 208), signifying their willingness to be so divided themselves if they failed to perform their covenant (Gen. xv, 9, 10, 17, 18). The expression "calves of our lips," in Hos. xiv, 2, is figurative signifying the fruits of our lips (Wolf, *Juvenci labiorum*, Viteb. 1711). As calves were used in sacrifices, the injunction requires us to render the sacrifice of prayer and praise to God, instead of the animal sacrifice (Heb. xiii, 15). See Wemyss, *Symbol. Dict.* s. v. Compare HEIFER.

CALF-WORSHIP.—This appears to have originated in Egypt, where we know that brutes of nearly all sorts were held in reverence by some one or another of the various nomes into which that country was divided. See ANIMAL WORSHIP. Of all these creatures, however, the calf, or rather bullock, seems to have been most generally adored, especially a peculiar description, or rather peculiarly-colored bull, to which, under the name of Apis or Mnevis, divine honors of the most extraordinary kind were paid throughout Egypt. It is from this form of idolatry that the scriptural examples of calf-worship are clearly derived. Yet it is possible that the commentators are not quite correct in supposing *Apis* to be the deity whose worship was imitated by the Jews, at least in the first instance. The Egyptians gave that name to a living bull which they worshipped at Memphis; but they also worshipped another living bull in the city of On, or Heliopolis, which they called *Mne*, or, according to the Greek form, *Mnevis*, and which they adored as the living emblem of the sun. Now the Israelites, from the circumstance of their living in the land of Goshen, in or near which Heliopolis was situated, and also from the connection of Joseph, the head of their nation, with one of the priestly families of that city, must have been well acquainted with its peculiar forms of idolatry. It is also very probable that many of them had joined in those rites during their sojourn. We might therefore naturally suppose that they would adopt them on this occasion; and the supposition that they did so is confirmed by a very curious fact, which has not yet been noticed, as bearing upon this question. Champollion has observed, in his *Panthéon Egyptien*, that Mnevis is said by Porphyry and Plutarch to have been a *black* bull, as Apis unquestionably was; but he assures us that this is not the case with regard to the existing remains of ancient Egypt; for, although in the Egyptian paintings Apis is either colored black or black and white, Mnevis, on the contrary, in the only figure of him hitherto discovered, is colored *bright yellow*, evidently with the intention of representing a *golden image*. This fact, though not a conclusive proof, affords a strong presumption that the golden calf was made according to the usual form and color of the images of Mnevis. The annexed engraving represents this symbolical deity of Heliopolis as he is painted on the coffin of a mummy at Turin, the name being distinctly written in hieroglyphical characters, MNE, without the Greek termination. It differs in color only, and not in form, from another painting on the same coffin, which bears the name of Apis. Both have the same trappings—the sun's disk between the horns, surmounted by the plume of ostrich feathers, signifying justice, and the whip, the emblem of power; and both are accompanied by the serpent, representing the spirit of the gods. The bull Mnevis or Mne—for *vis* is merely a Greek termination—was sumptuously lodged in the city On or Heliopolis, and this is all that we find recorded of him in ancient writers. Far more ancient than Apis, the era of his consecration is lost, and perhaps forever. The only circumstance which is of importance, save that the Israelites fell into his worship, is that he appears to have represented the zodiacal sign which was depicted *yellow*, while, by a curious anomaly, Apis, whose attributes all coincide with those of the sun, was black. The worship paid to him, though lasting till the downfall of the Egyptian hierarchy, gradually diminished before the more important and popular rites of Apis, and little is said of Mnevis. The following account is chiefly from Kitto and Smith.

1. The most ancient and remarkable notice in the Scriptures on this head is that of the golden calf which was cast by Aaron while the Israelites were encamped at the foot of Sinai. In Exod. xxxii, 4, we are told that Aaron, constrained by the people, in the absence of Moses, made a molten calf of the golden ear-rings of the people, to represent the Elohim which brought Israel out of Egypt. He is also said to have "finished it with a graving-tool;" but the word חֶרֶט, *che'ret*, may mean a *mould* (comp. 2 Kings v, 23, Auth. Vers. "bags;" Sept. θυλάκοις). Bochart (*Hieroz.* lib. ii, cap. xxxiv) explains it to mean, "he placed the ear-

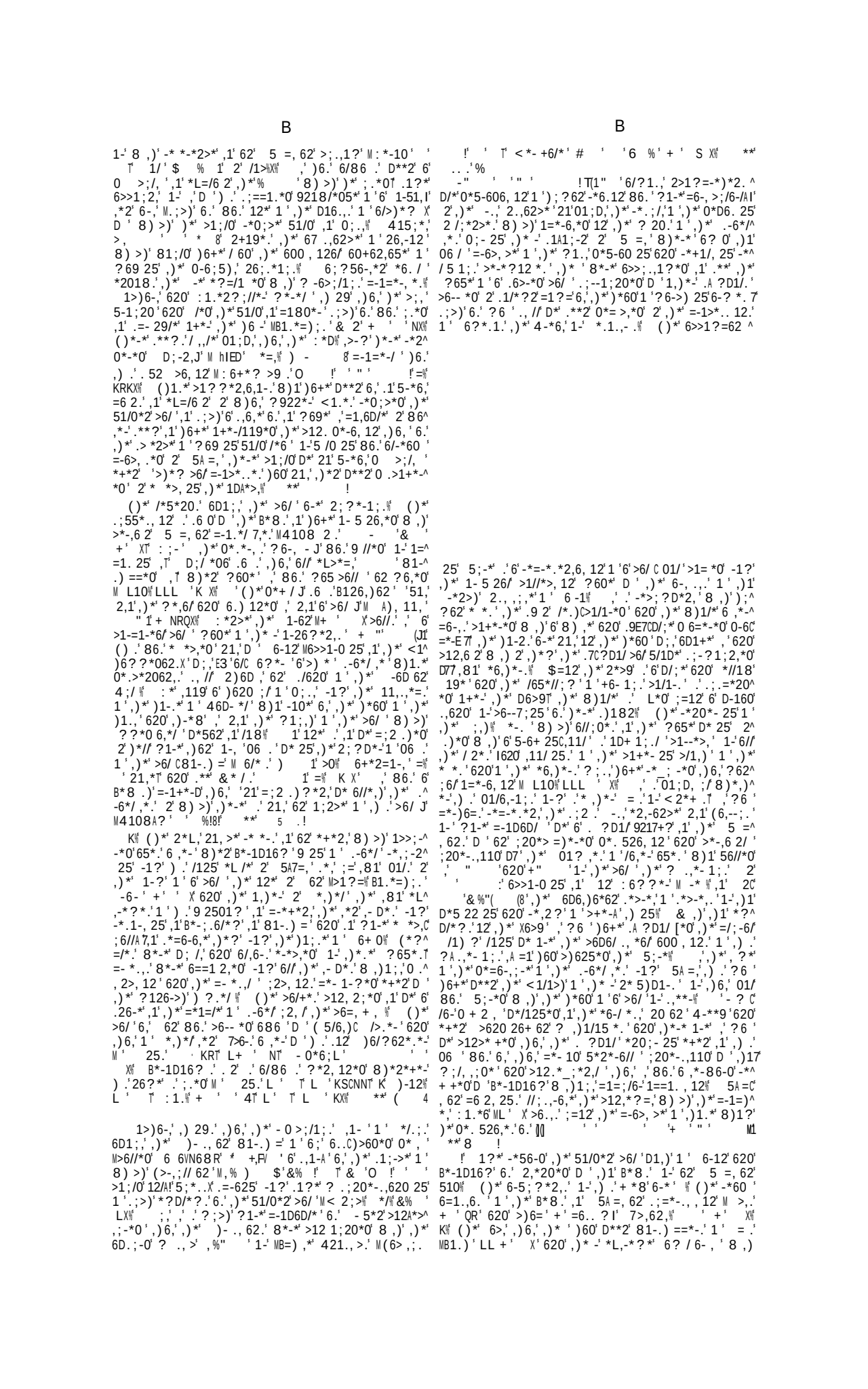
1. Bronze Figure of Apis. 2. The Marks on his Back.

rings in a bag," as Gideon did (Judg. viii, 24). Probably, however, it means that, after the calf had been cast, Aaron ornamented it with the sculptured wings, feathers, and other marks which were similarly represented on the statues of Apis, etc. (Wilkinson, iv, 348). It does not seem likely that the ear-rings would have provided the enormous quantity of gold required for a *solid* figure. More probably it was a wooden figure laminated with gold, a process which is known to have existed in Egypt. "A *gilded* ox covered with a pall" was an emblem of Osiris (Wilkinson, iv, 325). See GOLD.

Ancient Egyptian sacred Calf Mnevis.

To punish the apostasy, Moses burnt the calf, and then, grinding it to powder, scattered it over the water, where, according to some, it produced in the drinkers effects similar to the water of jealousy (Num. v). He probably adopted this course as the deadliest and most irreparable blow to their superstition (Jerome, *Ep.* 128; Plut. *De Is.* p. 362), or as an allegorical act (Job xv, 16),

B



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"!' >>1-0 25',1'1,)*-.','*B*8.' 2',)*.*' >6.*.'.?^ =/ ' 601=,*0' 6' 8*//C92182' >)*-;D >' *?D/*?' ?*-*/A' 6==/ 25' ,' 6.' 6' .A(2D1/ 1 'B*)1+6)% I **' ' $! 2' .;==1-,' 1 ',) .' =1. , 12' ,' ?6 ' D*' ;-5*0' % ()6,' ,' .'1D+ 1;.',)* '8*-*' 686-*' 1 ',) .' . ?D1/' . 2>*' <1^ .*.' 20.' ,';22*>*..6- ',1'0*.>- D*' ,' M L10 ' LL+ ' QC' KKX% K ' B1.*=);.' .**?.',1' ?=/ ',)6,',)*' >6/ ' . ?D1/^ [*0' 410' I& !' + ' ' X% N% 6-12 ' 2' =-1>/6 ? 25 ,)*' *6.,'M L10% LLL ' X' 0 ., 2>,/ ' >6//.' ,'6' *6.,',1' B*)1+6)' 620' .=*69.' 1 ',)*' 510' 6.',)*' + . D/*' -*=-*^ .*2,6, 12' 1 ' : ?' 8)1' D60' /*0',)*?' 1;,' 1 ' 5 =,% % ,' 86.' *L,-*?*/ ' ;2/ 9*/ ',)6,',)*' >6/ ' . ?D1/^ [*0' 410' I& !' + ' ' X% N% 6-12 ' 2' =-1>/6 ? 25 ,)*' *6.,'M L10% LLL ' X' 0 ., 2>,/ ' >6//.' ,'6' *6.,',1' B*)1+6)' 620' .=*69.' 1 ',)*' 510' 6.',)*' + . D/*' -*=-*^ .*2,6, 12' 1 ' : ?' 8)1' D60' /*0',)*?' 1;,' 1 ' 5 =,% % ,' 86.' *L,-*?*/ ' ;2/ 9*/ ',)6,',)*' >6/ ' . ?D1/^ 6,*0' D ',)*' A;05?*2,.' 1 ' <1.*.' M ;?% LLL ' X% % ()*-*' 86.'12/ '12*' = .' 8)*-*6.'B*-1D16?'*-*>,*0 ' >6/+*.' MD;.'.**' B6)2',;"!'& "!'g S X% % B*-1^ D16?.' 8*//C;20*-.,110' =1/,>6/ =;-=1.*' 86.' 21,',1' 2,-10;>*' 6' 2*8' -*/ 5 12' D;.',1' =-1+ 0*' 6' 0 *-*2,' 1-?' 1 ',)*' 1/0' 620',) .' 6/12*' *L=/6 2.',)*' 6>,',)6,' " ' 86.',)*' 12/ ' 1-?' 1 ' 01/6,- ' 2,1' 8) >)' B;06)' 2*+*-' *//' . 2>*' .)*' 6/-*60 '=1..*..*0',)*' 6->)*, =6/ *?D/*?.' 2',)*' (*?=/*% ,' 6==*6-.' -1?' ' 25.' LL ' '*,>%',)6,',)*'=-1=)*,.' 1 ' .-6*/',)1;5)' .62>^ , 12 25',)*'>6/ C81-.) =',,//-*56-0*0',)*?.*/+*.'620' 8*-*'-*56-0*0'6.' '=-1=)*,.' D " "!(1' **' & L ' !

6/)1;2'O ' ' %'6' ;?D*-/620' -*.D ,*- 62' ? 2 .,*-' 86.' D1-2' 2' & /.12' >1;2, ' (*22%' 2' QKN' .,;0 *0',)*1/15A7 2',)*' .*? 26- '6,' -2>*,12' % B% ' 620' 86.' 1-06 2*0' 2' Q K% : *' 86.' .*>-*,6- ' 1-' .*+^ *-6/ *6-.' 1 ',)*' 16-0' 1 ' 1-* 52' 620' 1?*.,>' < .^ . 12.' 1 ',)*' ;?D*-/620' -*.D ,*- 62');->D' 620' *0^ ,1-' 1 ',)*' & ' 6' =*- 10 >6/ 1 ',)*');->)% 2' ,)*' 8 2,*-' 1 ' Q Q' 8)/*' - 0 25' 1;,').')1-.*' D*>6?*' ;2?6265*6D/*' 620' -;22 25' 1 '6' D- 05*' < -% 6/)1;2' 86.'9 //*0' 2.,62,/ % ' & /.12 .' " !' & !' ' QS % 6/ 5)/6' M.1'>6//*0' -1?' ',)*' 11,C0-*.'1 '6' >1?? 12' .1/0 *-' 8)>)')*' 81-*' 8)/*').' 6,)*-' 86.' 2',)*'>6?=' 2' 4*-?62 X' =-1=*-/ ' $ '< ',)*',) -0' 1 ',)*' .*- *.' 1 ' 1?62' *?=*-1-.' 86.',)*' 1;2^ 5*.,' .12' 1 ' 4*-?62>;6',)*' 2*=)*8' 1 ' (D*- ;.' 6 ,*-' 5- == 26% : *' 86.' D1?' ;5% ' % % KM ;*,12 ;.' f X' 620' 6 ,*-' .=*20 25') .' 1;,)' 6?125',)*' .1/0 *-.' 2' 4*-?62 'M(6> ,;.'& !' ' 'SRT' 1' 6..% + ' X')*' 86.' -*>* +*0' 2,1' 6+1-' D ' (D*- ;.' 6 ,*-' ,)*' 6// 1 ' *A62;.' M % % QKX'6/,)1;5)' .' ?1,)*-'620' D-1,)*-.')60' D**2' 0 .5-6>*0' D ',)6,', -62,' 8)1?')*' .;>>**0*0'6.' *?=*-1-' 2' <6->)' % ' N % **' O L $ f : *' .' -* _;*2,/ ' ?*2, 12*0' M;20*-' ,)*' . ?=/*' 26?*' 6 ;.JX' D' B1.*=);.' 8)1' .=*69.' 1 ') .' -*.^ ,1-6, 12' 1 ' 5- ==6' ',1') .' B*8 .)' 01? 2 12.' I1& f L+ ' X' 6?125',)*' *8'6>,.' 1 '/ D*-6/ , ',)6,'>)6-^ 6>,*- [*0',)*' -.,' ?12,)'1 ') .' -* 52% ,*-') .' -*^ >1+*-' -1?' //2*..')18*+*-' 8)>)') .' *L>*..*.')60' D-1;5),';=12')?')*' 56+*' 86 ',1') .' 26,;-6// 'D-;,6/ ,*?=*-' 2' .1'+ 1/*2,'620' --6, 127' 6' ?622*-' 6.',1' D*' *+ 0*2>*' 1 '0182-5),' 2.62, ' 620' 86.' 6,'/*25,)'6.7 .6.. 26,*0' B62% K ' % % ,'01*.' 21,'6==*6-',)6,')*' ?1/*.,*0',)*')- ., 62.% : *' >1?? 620*0' *,-1C' 2 ;.' 51+*-21-' 1 ' A(I 6',1'=/6>*') .' .,6,;*' 2',)*' (*?^ =/*' 6,'B*-;.6/*?' 1-',)*' =;-=1.*' 1 '601-6, 12' T D;',D1' B*8.' .1'+ 51-1;./ '1==1.*0',',)6,' *6- 25' 6' .*0 , 12')*' .;.=*20*0',)*' 1-0*-' MB1.*=);.' & ' L+ ' X% **' ? ,) .' ' ' ' !'& ' !' .% +% T 12 'D*6-*' 620' :18C' .12 .' ' '

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6 ,6.' M 1- ,-O>' 620' >d 1 X' 5 +*2' 6.' ,)1' 26?*' 1 ' 12*' 1 ',)*' *+ ,*.' 8)1')60',69*2' 1-* 52' 8 +*.' 6 ,*-',)*' -*.,1-6, 12' -1?' 6D /12' M ' .0-% L' KN' 8)*-*')*' .' 6/.1'>6//*0' $ 3'620' 8)1'6.. .,*0' 2' *L=1;20 25',)*'/68',1',)*'=*1=/*' M+*-% QXT' *+ 0*2,/ ',)*' 1 'M_% +%X' 1 ',)*' 5*2; 2*',*L,.' M [-6' L' KNT' *)% + ' X%

6/ 7 2*6' M X% 21',)*' *6-' K ',)*' ;,..,*.' 0 + 0*0' 2,1',81' 5-*6,' 6>, 12. ',)*' (6D1-,*.' 620' ,)*' 6/ L, 2*.% ()*' /6,,*-' 8)1' 0*- +*0',)*-' 26?*' -1 2',)*' >)6/>*' I 81' 6..*-,*0',)6,'>1??;2 12' 2' D1,)'9 20.' 86.' *..*2, 6/',1',)*' .6>-6?*2,% ()*' -* 21,' 5*2*-6// ' -629*0' D ' 1?62.,.' 6?125')*-*,>.' 1-' ?62 '1',)*?' 8*-*' =*-.;60*0' D ',)*' >12>*.. 12.' 1',)*' 1;2>/1' 6./*' 2' NN I,1' D*' -*>12> /*0',1',)*' 1?62' =12, % ()*' -* 1-?6, 12',)*' 6?*0' 2,' *L^ ,*20*0' =-2>=6// ',1' 1;-' 6-,>/*.'-' % (1' -*.,1-*',)*' >;=',1',)*'/6, % K% (1' .;DA*>,'>- ? 26/>/*-5 ?*2',1' ,)*' > + / ?65.,-6,*% N% (1' .,-=',)*' >/*-5 '1',)*' -' /620.'/1-0.)=.'62;'6//C,*?=1-6/A;-.0>,12.' % (1' 5-62,'/D*-,',1'6//=-*.,',1'=-*6>)',)*' &1-0'1'410% CaC<1.)*?' "!'# ' ' RT' 6--6-'6 ' ' !'.% +% **' 8 ' 9 %$!

M %X' 1//18*-.'1'4*1-5*' 6/L,;.% **' .4' (;.'& !

6/L,;.' 'M1-' $ 3' 1=*',)*' .12' 1' 1^ 2 .;.'620' 6' 1?62'.;>>**0*0' U*=) -2;.' 2' K '1-' KK % >>1-0 25',1',)*' & ' 1') *' 86.' =;',1' 0*6,)'D* 25'0-182*0' 2'6'8*//'6,*-'.;* *-25'6'/125' ?=-.12?*2,' >,% 'KKK'1-' >,% K'KKN'D;,',)*' ,1^ -' .'01;D,;/% : *' 86.' .;>>**0*0' D ' $-D62' % ()*' 2*8' < % 1' : ==1/ ,;.'>6//.') ?'6')*-*, > J'6' '.*-^ + /*' 620' 0*>*, ;/=-1 / 56,*' 620' 62' *?D*[[/*-%J' 2' 01>,-2*'6>>1-0 25',1' : ==1/A,;.' 6/L,;.'86.'6' 1>C' ,62'1-'81-.*T' 2' =-6>, >*'6' + 1/6,1-'D1,)'1',)*' *>^ >/*. 6., >6/620',)*' ?1-6/ /68% 20'AC*,')*' .'6' .6 2,' 1',)*' 1? .)'>6/*206-C : *' .' .6 0',1')6+*' D; /',)*' D6. / >6'1' ,% < 6-' - ' - " 1'620',)*' >*?*,*-' 12',)*' == 62' & 6' 218' >6//*0',)*' >6,6>1?D' 1' ,% *D6., 62'M8)*-*' 7 '?6-, -.'6-*'.6 0',1'/ *'D;- *OX% ' $5)*//;.' '$ 1'+1/% T ; !'2 :'& +!' ! ! Q ' =% S RT' >)6 '# ' ' " ' " "' ' KR ' % **' % / / # $!

' 1=*' .12' 1 '4; //6;?*'>1;2,'1' ;-5;20 '86.' ?60*' 6->)D .)1=' 1 ' *22*' 2' QQ' 620' */*>,*0' =1=*' *D% ' R' 8)/*' 2' -*, -*?*2,'6, /;2 % : *' 86.' A;05*0'/ 9*/ ',1'>1?=1.*',)*',-1;D/*.'6D1:,;2+*. ,;-*' 8)>)')60' 65 ,6,*0',)*' B7);->)' 1-' ,' *6-.' 620' *+*2' : *2- ' '6==*6-*0',1'A1 2' 2',)*' 5*2*-6/ .6, . 6>C

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1 ; -' /1 -0' ?69*.' ,)>B72*-6/' -*?6-9 ' ` 1-' ?62 ' 6-*' >6//*0 ' D ; ,' *8' 6-*' >21.*2T' .1' , )6,' , )*' =*-.12.' , ) ; .' -*=-*.*2,*0' D ' , ) .' 20 + 0 ; 6/' > ; /=- ,' 8*-*' 21,' 12/ ' `>6//*0 ' D ; ,'6>, ; 6// '>6?*' 2,1' ,)*' >1?=62 ⅋ MN⅋X' ( )*' 6==-1+*0' 5 ; *.. ,' ' ',)1.*' 8)1' 8*-*' ⅋D1,)' >6//*0' 620' >)1.*2⅋ .' 6-' 6.' ,)*' . ?=/*' >6// 25' 1-' 2+ ,6, 12' .' >12>*-2*0 ' 6// .,110' ; =12' *_ ; 6/ 5-1 ; 20 ' 6// 8*-*' 2^ + .*0T' 620' ,' 0*=*20*0' ; =12' ,)* -' >)1 >*' 620' >120 ; >,' 8/ *,)*-' ,)* ' *?D-6>*0' ,)*' 2+ ,6, 12' 620' 8*-*' 60^ ? .,*0' 6.' 5 ; *.,.⅋ & *')6+*' 21,) 25') *-*' ,1' >1 ; 2,*^ 262>*' ,)*' 21, 12' 1 7)6, ' .' ,*-?*0' I* *>, ; 6/ >6// 25⅋' ( ) .' ?=/ *.' 62' --*. . , D/*' 20 ; *2>*' *L*-, *0' ; =12' 6// ,)*' 6==-1+*0' 50*.,. ' D ; ,' 8 ,))*/0' -1?' ,)*' 0 .1D*^ 0 *2, ' 8)1' >1 ; /0' 21, ' ,)*-* 1-*' D*' 1,)*-8 .*' ,)62' 0 .^ 1D*0 *2, ' 1-' 6, ' ?1. , ' >1 ; /0' 12/ ' >1?*' 2' 8 ,)1 ; ,' ,)6, ' 8*00 25' 56-?*2, ' 8) >)' , ' 87.' 2*+*-' =; ,' 2,1' ,)*-' =18*-' ,1' ,69*' 1 ; ,' 1' ,)*' 9 25 .' 86-0-1D*' 620' ,)*' 862, ' 1 ' 8) >)' 81 ; /0' 2*>*. .6-/ ' *L>/ ; 0*' ,)*?' '21, ' -1?' ,)*') ; ->)' 12' *6-,)' *, ' -1?' ,)*') ; ->)' 2')*6+*2⅋ ( )*' 01>, -2*' 1')- ., .' =6-6D/*. ' .' 2' *2, -*' >12, -60 >, 12' ,1' ,) .' 21, 12' 1' --*. ., D/*' 2 / ; *2>*' *T-1-' ,)*' ' 8)1' -*' ; .*0' 620' ,)*' ' 8)1' >1?=/ *0' D ; ,' =6-^ , 6// ' 8 ,)' ,)*' >6// 25' 6-*' .*=-*. *2, *0 ' 21, ' ?*-*/ ' 6. ' D* 25' /*, ' 8 ,)1 ; , ' ,)*' D*2* , ' 1 ' ,)*' *6. , ' D ; , ' 6. ' 2^ >; -- 25'600 , 126/ 5 ; /, ' 620' >120*?26, 12' 1-' -* ; . 25' ,)*' 2+ ,6, 12⅋ , ' . ' , 1' ,) .' 1 *-' 1 ' .6/+6, 12' D ' ,)*' 41.=*/' ,) .' 2+ ,6, 12' , 1' .= - , ; 6/ 620' *, *-26/ D*2* . ' ,) 6, ' , ⅋ *, *-' 6==*6-. ' , 1' -* *-' 8)*2')*' .6 . ' ` 1-' , )*' % ' .' ; 2, 1' 1 ; ' 620' , 1' 1 ; -' >) /0-*2' 620' , 1' 6// , ) 6, ' 6-*' 6 6-' 1 ' *+*2' 6. ' ?62 ' 6. ' , )*' 1-0' 1 ; -' 410' .)6// N M >, .' ' NRX T' 6' =6..65*' 8) >)' 0*>/6-*. ' `,)*' =-1? .*' , 1' D*' 6. ' *L, *2. +*' 6. ' ,)*' `>6// 25 I' 2' 1, ) *-' 81-0. ' 6. ' , )*' 1 *-' 1-' 2+ ,6, 12⅋ (1', , ) .' 6/. 1' ,⅋ 6 ; / -* *-. ' M 1?⅋ ' ' X ' ` ' 8)1?' 8>')6+*' -*^ >* +*0' 5-6>*' 620' 6=1. , /*.) = ' 1-' 1D*0 *2>*', 1',) *' 6 ,)' -?125' 6// 26, 12. ' 1-') .' 26?*T' ,)6, ' . ' , 1' =; D/ .) ') .' 41.=*/' 2' 1-0*-' , 1' D- 25' 6// 26, 12. ' , 1' ,)*' 1D*^ 0 *2>*' 1 ' 6 ,)T `6?125' 8)1?' *' 6-*' 6/. 1' ,)*' ' > ' B*. ; .')- . , T' 1 ; ' 6, ' 1?*)6+*')*6-0' ,)*' 41.=*/' *20')6+*' D**2' 2+ , *0' , 1' .6/+6, 12' 2' >12.*_ ; *2>*' 1 ' ,) .' 0*. 52⅋ ( ) .' =-1? ; /56, 12' 1 ' ,)*' 41.=*/' D ' ,)*' =*-.126/ ? 2 . , - ' 1 ' ,)*' 6=1. , /*' ; 20*-' ,)*' 26?*' 1 ' 1' .' 6/. 1' -* *--*0' , 1' 2' 46/⅋ ' ` ' ?6-+*/ ,)6, ' *' 6-*' .1' .>12' -*?1+*0' -1?') ?' ,)6, ' ' 2, 1' ,)*' 5-6>*' 1 ')- . , ' 1D+ 1 ; ./ ' ?*62 25' ,)6, ' , ' 86. ') *') ?.*/ ' 8)1')60' >6//*0' ,)*?' D ') .' =-*60⅋ ( )*' ; // -*+*/6, 12' 1 ' ,)*' , -62. *-' 1 ' ,)*' + . D/*') ; ->)' 1 ')- . , ' -*?' B*8 .' D ' D -,)' 1' D*/ *+*-.' 1 '6// 26, 12. ' 86. ' 21, ') 18^ *+*-' ,)*2' ?60*⅋ &)*2' ,) .' D-62>)' 1 ' ,)*' *+625*/ >' . . , *?' 86. ' ; // ' -*+*6/*0' , 1' ,)*' 6=1. , /*. ' 620' , 6 ; 5) , ' D ' ,)*?' , 1' 1,)*-. ' ,)6, ' =6-, ' 1 ' ,)*' ?*62 25' 1 ' 1 ' ; -' 1-0 .' =6-6D/*' 8) >)' 86. ' 21, ' 6, ' -. , ' 0*+*/1=*0' 86. ' ?1-*' =6-, >; /6-/ ' 0 .>1+*-*0' , 1') .' 2. = -*0' 1//18*-.⅋ ( )*' >6// 25' >' 5 ; *. . , ' , 1' ,)*' *+625*/ >6/' *6. . , ' 8*' ,)*2' ?1-*' ; // ' /*6-2 ' 86. ' 21, ' ,)*' ?*-*' >6// 25' 1 ' ?*2' , 1' =6-. 69*' 1 ' . =- . , ; 6/' D*2* . , - ' D ; , ' >6// 25' ,)*?' 6/. 1' , 1' 1-?' 6' . = - . , ; 6/ .1> *, ' >1?=1. *0' 1 ' B*8 .' 620' 4*2, /*. ' ,)*' D*/ *+ 25' ?*2' 1 ' 6// 26, 12. ' , 1') 6+*' 6' >1?12' *//18.) =' 2' ,)*. *' D/*.. 25. ' 620' , 1' D*' 1-?*0' 2, 1' ,) . ' */18' .) =' 1-',)*' =; -=1. *' 1 ' 2>-*6. 25' ,)*' -' 2 ; ?^ D*-' 620' 0 ; . 25' ,)*' D*2* . , ' 1 ' .6/+6, 12' 6?125' ,)*' =*1=/*' 1-' 26, 12' , 1' 8) >)' ,)*' '-*.=*>, +*/ ' D*/125*0⅋ ( )*' 2+ ,6, 12 ' `,)*' >6// 25 ' 1 ' ,)*' -. ' ; =-*6>)*-. ' 86. ' , 1' 6// 8)1')*6-0',)*?' 2' 1?*' 2' =)*. ; . ' 2' 1-2,)' 620' 1,)*-' =/6>*. T' 620' ,)1.*' 8)1' *?D-6>*0' , ' 620' A1 2*0',)*?. */+*. ', 1',)*') ; ->)' D ' 6 ,) ' D6=, . ?' 620' 12, 2 ; *0' =; D/ >' =-1 *.. 12' 8*-*' 26?*0' *. =*>6// 620' *?2*2, / ' `,)*' >6// *0 ' D*>6 ; . *' 1 ' ,)* -' 1D*0 *2>*' , 1',)*' 2+ ,6, 12⅋ ( )* ' 21, ' 12/ ' =; , ' 2',)*' -' >/6 ?' , 1',)*' D/*.. 25. ' 1 ')- ., 62 , ' 20 + 0 ; 6// 7' D ; , ' D*^ >6?*' ?*?D*-. ' 1 ' ,)*' 2*8') ; ->) ' ,)6, ' . = - , ; 6/ .1> ^ *, ' 1 ' D*/ *+*-.' 8) >)' 410' 218' + . D/ I7 182*0' 6. ') . ' =*1=/*⅋ . ' ,)* ' 8*-*' ,) ; . ' >6//*0' 2, 1' 6' >1?12' */^ /18.) =' D ' ,)*' 41.=*/' ,) . ' .*1 2*, ?>. ' , *-?*0' ,)*' -' +1>6, 12T' 6. ' ,)*' 1DA*>, ' 1 ' ,) .') ; ->)' ..6, *' 86. ' , 1' =-1?1, *' `)1/ 2*.. ' , ' . ', *-?*0' 6' `)1/ ' +1>6, 12T' 6. ' .62>, , ' 86. '-* ; -*0' 1 ' ,)*' ?*?D*-. ' ,)* ' 8*-*' .6 0', 1')6+*' D**2' `>6//*0', 1' D*' .6 2, .T' 6. ' , )*' 26/ -*. ; /, ' 86. ' , )-1 ; 5)' , )*' ?*-> ' 1 ' 410', 1' D*' *, *-26/ / *' 8*' )*6-' 1 ' `,)*')1=*' 1 ',)* -' >6// 25 ' 620' 1 ',)* -' D* 25' `>6//^ *0', 1') .' *, *-26/ 5/1- ' D ')- ., ' B*. ; .⅋ I

I7⅋ ( )*.*' + *8.' 8 // 6D ; 2062, / ' *L=/6 2' ,)*' +6^ - 1 ; .' =6..65*.' 2' 8) >)' ,)*' , *-?' '1>>; -.' 2',)*' *= ../*. a` +*2' ; .' 8)1?' )1' )6, )' # 1' 21, ' 1', )*' B*8 .' 12/ ' D ; ,' 6/. 1' 1', )*' 4*2, /*. ' M 1?⅋ L' \b8: , )6, ' . ' 8)1?' )*' )6, )' ?60*' ?*?D*-. ' 1 ' ) .' ) ; ->)' , )-1 ; 5)' 6 , )⅋ ` ; ' ; 2, 1',)*?' 8) >)' 6-*' ' D1,)' B*8 .' 620' 4-**9. ')- . ',)*' =18*<' 1 ' 410' 620',)*' 8 .01?' 1 ' 410T',)*' 8 .01?' 620' * >6> ' 1 ' , 7/ ' 41.^ =*/ D* 25' 1 ' >1 ; -. *' 6>9218/*05*0' 2',)* -' +*- ' =-1^ *.. 12' 1 ')- ., ' 2' 1==1. , 12', 1',)1.*', 1' 8)1?',)*' =-*6>) 25'1 ' ')- . , '>-; > *0I' 86. ' 6. . ; ?' D/ 25CD/1>9I' 620' ` 11/ . )2*.. ' M ' 1-⅋ ' K X⅋ ` .' 62 ' ?62' ' MD-1 ; 5), ', 1' 6>9218/*05*')- . , ' 620', 1' D*>1?*' 6' ?*?^ D*-' 1 ') .') ; ->)X' ' D* 25' > ->; ?> . *0' H /*, ') ?' 21, ' D> 1?. ' ; 2> ->; ?> . *⅋ ' .' 62 ' ' 2' ; 2> ->; ?^ > . 12' H /*, ') ?' 21, ' D*' > ->; ?> . *0' M ' 1-⅋ + ' QX⅋ ' ( )6, ' *' 86/9' 81-,) ' 1 ' ,)*' ' 8)*-*8 ,)' *' 6-*' >6//*0⅋ ( )*-*' .' 12*' D10 ' 620' 12*' = - , ' *+*2' 6. ' *' 6-*' ' 2' 12*')1=*' 1 ' 1 ; -' >6// 25' M =) ' + ' X⅋ ' ( )6, ' *' 81 ; /0' 86/9' 81-,) ' 1 ' 410' 8)1')6,)' + ' 1 ; ' , 1') .' 9 2501?' 620' 5/1- ' M ' ( )*. . ' ' KX⅋ ' ( )-1 ; 5)' .62>, >6, 12' 1 ' ,)*' = - , ' 620' D*/ * ' 1 ' ,)*' , -' ; ,) ' 8)*-*; 2, 1')*' >6//*0' 1 ; ' D ' 1 ; -' 1-0' B*. ; .')- . , I' MK' ( )*. .⅋ ' N' X⅋ ` &)1')6,)' .6+*0' ; .' 620' %! ' ; . ' 8 ,)' 6')1/ ' >6// 25T' 21, ' 6>>1-0 25', 1' 1 ; -' 81-9. ' D ; , ' 6>>1-0 25', 1') .' 182' =; -=1. *' 620' 5-6>*' 8) >)' 86. ' 5 +*2' ; .' 2')- . , ' B*. ; .' D* 1-*' ,)*' 81-/0' D*562' D ; , ' .' 218' ?60*' ?62 *. , ' D ' ,)*' 6==*6- 25'1 ' 1 ' ; -' 6+ 1 ; -' B*. ; .')- . , ' MK' (?⅋ ' R' X⅋ 2',) .' =6..65*' 81' ?6 ' -*?6-9',)6, ' ,)*⅋ ' >6// 25I' 620',)*' =; -=1. *' ?*2^ , 12*0' 2' , ' ? ; . , ' 1 ' 24>*.. ,A7D*' 2, *-=-*. *0', 1' -* *-', -P ,)*' *. , 6D/ .)?*2, ' 1 ' ,)*') ; ->)' 12',)*' =- 2> =/*' 1 ' 6 ,)' #,)6, ' ,' ? 5), ' 2>/ ; 0*' ?*2' 1 ' 6// 26, 12. T' 620' 21, ' 6. ' 1-?*-/ ' D*' -*. , - >, *0', 1' 26, ; -6/ 0*. >*2, ⅋ 1-' %'B ' 620' 6' =; -=1. *' 1 ' % ' >1 ; /0' 21, ')6+*' D**2' D 00*2' , // ?62 *. , *0' D ' ,)*' `6==*6- 25'1 ')- . , ' . 2>*' *+*- ' 2. , 62>*' 1 ' , -; *' >12^ +*-. 12', 1' 410' 2' 62 ' 65*' =- 1-' , 1' ,)*' 6==*6- 25' 1 ') - . ' 81 ; /0' D*' 6. ' ?>)' 6' ?62 *. , 6, 12' 1 ' *, *-26/ */*>, 12' 620' 62' 2. , 62>*' 1 ' =*-. 126/ * *>, ; 6/ >6// 25' 6>>1-0 25', 1',)*' 6/+ 2 . , >' . >)*?*' 6. ' , '86. '6 , *-',)*' 6==*6-62>*' 1 ')- . ,⅋ ( )*' 6=1. , /*' . ' . =*69 25' 1 ' 6' =; -=1. *' 1 ' 410' 8) >)' 86. ' 9*=, ' ', // -*+*6/*0' D ' ,)*') - . , 62' . . , *?' 1 620' -1?' +6- 1 ; . ' 1,)*-' =6-6// *' =6. . 65*. ' 8*' /*6-2',)6, ' ,) . ' . *>-*. ' ,) . ' ` ? . , *- ' 6. ' )*' 1 , *2' >6// . ' , ' 86. ' , )*' ; 2 12' 1 ' , )*' B*8 . ' 620' 4*2^ , /*. ' 2' `12*' D10 ' 1-') ; ->) ' D ' 6 ,)⅋ ' 2' 212*' 1 ' ,)*. *' =6. . 65*. ' . ' ,)*' 01>, - 2*' 1 ' ,)*' *L>/ ; . +*' >6// 25' 1 ' 6' . *, ' 2 ; ?D*-' 1 ' ?*2' >12, 6 2*0T' 620' ,)*' ?10' 1 ' 1-, ' 6. ' ,)1 ; 5)' ,)*' */, ' ,) . ' 12/ ' 6, , *?=, ' , 1' ' ,)*' 01>, - 2*' -1?' 6', *L, ' 6/-*60 ' ~ ; 1, *0' D ; , ' 8) >)' 8*' 8 // 218' ?1-*' ; // ' 21, >*⅋ ~ &)1?') *' 0 0' =-*0*. , 26, *' ,)*?') *' 6/. 1' # .' 620' 8)1?')*' ',)*?') *' 6/. 1' 1A ; . , *0T' 620' 8)1?')1' A ; . , *0' ,)*?') *' 6/. 1' 5/1- *0' M 1?⅋ + ' N X' ( ) .' . ' ,)*' , *L, ' 12' 8) >)' ,)*' 6/+ 2 . , ' >) * / ' -*. , ' -' 01>, - 2*' 1 ' * *>, ; 6/ >6// 25T⅋620', -6> 25', ' 6. ' ,)*' .6 ' ,)-1 ; 5)' , .' . , *=. ' 620' / 29. ' ,)*' >12>/ ; 0*' ,)6, ' 6' .*, ' 620' 0*, *-? 26, *' 2 ; ?D*-' 1 ' =*-.12. ')6+ 25' D**2' =-*0*. , 26, *0' ; 2, 1' .6/+6, 12' ,) . ' .*, ' 2 ; ?D*-' 12/ ' 6-*' ' ',)*2' A ; . , *0' 620' 26// ' 5/1- *0⅋ ; ',) .' =6..65*' 86. ' *+ 0*2, / ' 21,) 25', 1',)*' =; -=1.*

"

?/*..' ,')60' .=19*2' 1 '6' .*,' 620' 0*,*-? 26,*' 2; ?D*-' 1 ' ?*2' 6.' =-*0*., 26,*0' 620' >6//*07' 20*=*20*2,'1 '62 ' >12. 0*-6, 12' 1 ',)* -' 6 ,)' 620' 1D*0 *2>*' 8) >)' 2; ?I')*-' 6.' D* 25' 0*,*-? 26,*' 81;/0 ' D ' >12.*_;*2>*' *L^ >/;0*' ,)*' -*..,' ( )*' >12,*L,' 0*>/6-*.' ,)6,',)1.*' 8)1' 6-*' 1-*92182' 620' =-*0*., 26,*0',1' *,*-26/ 5/1- ' 6->' ,-;*' D*/ '+*-..' ,)1.*' 8)1' `/1+*' 410 ' 1.' ..6,*0' 2' 6' .;D.*_;*2,'+*-.*1' 1-'1 '.;>)' 12/ ',)*' 6=1./*' .=*69.1' 620' 8)*2')*' 600. ' '<1-*1+*-' 8)1?')*' 0 0' =-*0*.,^ 26,*',)*?')*' 6/.1' >6//*0' 620' 8)1?)*' >6//*0',)*?')*' 6/.1' A;., *0' 620' 8)1?')*' A;., *0',)*?')*' 6/.1' 5/1- *0 ')*' .)18.' 2' =6-, >;/6-')18',)*' 0 + 2*' =;-^ =1.*' ,1' 5/1- ' D*/ *+*-.' .' >6-- *0' 2,1' * *>,' ,)-1;5)' 6// ,.' ..65*.' ()*' 5-*6,' 2.,-;?*2,'1 'D- 25 25' ?*2' ,1' '/1 *' 410 ' .' ,)*' 41.=*/1' ,)* ' 6-*' ,)*-* 1-*' J' *0' 2+ ,*0' D ' , ',1',) .' ..,6,*' 620' D*2* ,1' ,)*' >6// 25' D* 25' 1D* *0' ,)* ' '* 1 * .' 620' D* 25' A;., *0' 620' >12, 2; 25' 2',)6,' .,6,*' 1 '5-6>*' ,)* '6-*' *+ !' 1,) 25')18*+*-' .')*-*' .6 0',1' 6+1-' ,)*' >12>/;. 12' ,)6,' ?62 ' 1,)*-.' 8)1' 8*-*' 'D ' ,)*' 41.=*/' D;,' -* ;.*0' ? 5),'21,')6+*' D**2' A;., *0' 620' 5/1- *0' 6.' 8*// 6.' ,)* 1' 21,) 25',1' 0 ., 25; .)',) .' >6// 25' 2,1' >1? ?12' 620' * *>,;6/1' 620',)*' +*- '5; /,' 8) >)',)1.*' 6-*' * 7- ' 8)*-*' -*=-*.*2,*0' 6.' >12,-6>, 25' 8)1' 0*^ .= .*0',)*' 41.=*/>6// 25' .)18.',)6,',)*A' -*A*>,'6' 5-6>*' 8) >)' .' .; > *2,' 620' . 2>*-*/ ' 2,*20*0' ,1' .6+*' ,)*?%J ' &6,.12' 1' 'N K' ._%1' :*-[15' 5 J' 6 + % 1' ' 1' ,[.>)' " " ' " 1' g 1' 77 677*2'$!' -" 1'=' % ' O' ' " ' '1',)*' 41.=*/ .' -*56-0*0' D ')- ., 62.' 5*2*-6// '6.' =-1>**0 25' -1?' 4 10' 620' ,)*');->)' 1' 25/620' ,)*' -1,*.,62,' =.>1=6/);->)' 620',)*' <*,)10 .,' =.>1=6/);->)' -*_;-*' 1 '>620 06,*.' 1-' 1-0 26, 12' 62' *L=-*..' =-1 *.. 12',)6,' ,)* ',-;..',)*' 6-*' .1' ?1+*0' 1 ',)*' : 1/ ' 4)1.,' **' #! ' ' .' 62' 2+ ,6, 12' 12' ,)*' =6-,' 1 '6' >125-*56, 12',1' 6'=-*6>)*-',1' D*>1?*' ,)* -'.*,,/*0' =6.,1-%1' **' ? ! 6//*2D*-5 '(' % ' ' 86.' D1-2' B62^ ;6- ' K SR ' 2' 6L*C41,)6% : *' ..;0 *0' 6,' :6//*' 5 + 25' .=*> 6/ 6,,*2, 12',1',)*' - *2,6/ /625;65*. ',1' 8) >)I')*' 86.' 1- 5 26// ' /*0' D ' D*>1? 25' 6' ?*?D*-' 1 ',)*' ' ' -" I1 ' 8) >)' 86.' *.^ ,6D/ .)*0' 6,' : 6//*' 2' K% : *')60' 1-' .=*> 6/ ,.;.1-' 1/1?12' *5- '6' /*6-2*0' - *2,6/ .,' -1?' 6?6.>;.% : *' 86.' 6==1 2,*0' =-1 *..1-' I !(8 1 '=) /1.1=) ' 2' K ' 620' =-1 *..1-' I% !(8 1 ',)*1/15 ' 2' NR% : *' D*>6?*' 0**=/ ' 2,*-*.,*0' 2' -1,*..62,' ? .. 12.',1' ,)*' 6.,' *.=*> 6// '6?125',)*' B*8.' 620' <1)6?? *^ 062.% 2' KQ)*' 1-562 [*0' 6'.>)11/ 1-',)*' *0;>6, 12' 1 ' ? .. 126- *.' 620')*' 6 ,*-86-0' *.,6D/ .)*0' 6,') .' 182' *L=*2.*' 6' =- 2, 25C1 >*' 1-',)*' =;D/ >6, 12' 1 ' 81-9.' 2' 4*-?62' -6D >' 620' : *D-*8' 1-',)*' ;-^ ,)*-62>*' 1 ',)*' ? .. 126-A 7>6;.*% : .',.;0*2,.' 8*2,' 1;,' 1+*-' ;-1=*' 6.' ? .. 126- *.',1',)*' B*8.' 620' .1?*' 1 ',)*?' *+*2',1' . 6' 620' ->6% : *' =- 2,*0' 2' -6^ D >' =1-, 12.' 1 ',)*' % (%',)*' 8)1/*' 1 ',)*' % (%' ;^ ,)*-.' $" ' " 1',)*' 'D ' " ' M.1?*8)6,'>;-,6 /*0X' =1-, 12.' 1 ' 4-1, ;.' 12',)*' - "' ' " ' '5 N 1',)*' 5 ' +' & ' 1' 620' 1,)*-' 81-9.' ',)*' ;.*' 1 ' ? .. 126- *.' 2',)*' 6.,% & ,)' 6' + *8',1',)*' >12+*-. 12' 1 ',)*' B*8.')*' 8-1,*'6') / '& + '/ 'D "=- + ' $% + ' M)1-,' 2,-10;>, 12',1',)*' =**>)' 1',)*' 4*-^ ?62' B*8. ' +1' NNX',1' 8)>)')*' 600*0' 2' NS 6% 1 '. ;/=);-0*=1. ,*0';=12',% 2'-*6>) 25',)*' D1,,1?' 8*' 1;20' 1;-.*/+*.'6,'8)6,' ?6 'D*',*-?*0'6')1,'- +*-' .1'>1= 1;.' 620' -6= 0' .' ,' 620',..')*6,'.1'/ ,,/*' 6D6,*0% 1-'.1?*' 86 ',)*',*?=*-6,;-*' .'9*=,';='D ',)*' >12^ .,62,'.;==/*.'1'86,*-',)6,'/18' 2,1',)*'- +*-% 2'1-^ 0*-',1' + . ',),)*.*' .1;->*.' 2' .;>>*.. 12' 8*'>-1..*0'1+*-' ,1',)*' - 5),'D629'620'6.>*20 25'D ',)*' ?1;2,6 2'. 0*' 8*' =6..*0' 1;-' 6D;2062,' -. 25. 6//' 8 ,) 2',)*' 0 .^ ,62>*' 1 ')6/ '6' ? /*' 0 .>)6-725',)*?.*/+*.' 2,1',)*' .,-*6?'6,'- 5),'625/*.'8 ,)',..'>1;-.*% & *A;05*0',)*' 0 .,62>*' -1?',)*' *60' *6'D ',)*'-6+ 2*',1'D*' 6D1;,' 12*')1;-' 620'6')6/ % <6>/*62' .6 .',)*-*' 86.'6'>, 6//*2D*-5' 0*.*-+*.' 6/86 .',17 F*' >)*- .)*0' 2',)*')- ., 62' ;->)' 6.',)6,' 1' 12*' 1',)*' 1;20*-.' 1' -1,*.,62,' ? .. 12.' 620' 1' 6' 0*+1,*0' 620' .*/ C.6>- ^ > 25' /6D1-*-' 2',)6,' >6;.*% ' 1*- 25' ' ? " ' -" %" ' 4>2*-6*'+ ' K K' -.>)' _20' 4-;D*-' &2 J' '6 % 1'.%+% 6//*20*-' c/ .)6' ? 2.,*-'1',)*' -.,' 6=, .,' >);->)' 2' 1.,12' 86.',)*' .12' 1' // .' 6//*20*-' 8)1' 1 >6,*0' 6.' =6.,1-' 1',)*' -.,' 6=, .,' >);->)' 2' 1.^ ,12' 1-' ?62EI' *6-.' 0 25' 6D1;,' S' 6,'6D1;,' *5), % *6-.' 1' 65*% ()*' .12' / .)6' 86.' D1?' 2' 1.,12' 620' 5-60;6,*0' 6.' D6>)*/1-' 1 '6-,.' 6,' : 6-+6-0' 1//*5*' 2' % : *' 86.' D6=, [*0' 620' 60? ,,*0',1' >);->)' ?*?D*-.) =' ;5;.,' ' N' 620' 86.' 1-06 2*0' 6.' 6' 6=, .,' ? 2 .,*-' <6 'K Q' 620' -.% 2>-*6.*' 620' 1,,12' <6,)*-' 620' <-% &*DD' ,)1;5)' 1' 6' 0 *-*2,' 0*21? 26, 12' 56+*' ,)* -' 6.. .,62>*% ,' .' .6 0',)6,' ()1?6.' : 1/$.' M6' 6=, .,X' 86.' .1' ?=-*..*0' D ',) >6,)1/ >' =-1>*0;-*' 8)*2')7')*6-0' 1' ,' 2' 25/620'),)*' ?60*') .' 8*//C92182' D*2* 6>, 12.',1' : 6-+6-0' 1//*5*' 2' >12.*_;*2>*% <-% 6//*20*-' 6D1;20*0' 2' /6D1-.' 21,' 12/ ' 2' 1.,12' D;,' ,)-1;5)1;',)*' >1?^ ?128*6/,)',//) .' 0*6,)' <6->)' N' NQ% : *' 86.' ,)*' -.,' ?*-.>62' 6=, .,' ?2 .,*-' 8)1')60' -*>* +*0' 6' >1//*5*' *0;>6, 12% ' =-65;*' + ' N' //*2' ; %" ' ' f' .% + % 6//*20*-' B1)2' 62' *? 2*2,' 6=, .,' ? 2 .,*-' 2*=)*8'1' / .)6' 6//*20*-' 86.' D1-6' 6D1;,' S' 620' 5-60;6,*0' 6,' : 6-+6-0' 1//*5*' 2' KN% : *' 86.' 1-^ 06 2*0' >1//*65;*' 8 ,)' <-% *>9)6?' 6.' =6.,1-' 1',)*' >);->)' 6,' *8=1-,' >,% N' N % : *-*')*' /6D1-*0' ;.* ;//X I' 1-' .*+*2,**2' *6-.' 620' 0 *0' B62% 7 ' Q% 3 :*' >1//*>,*0' ?6= ' =6=*-.' -*/6, 25',1',)*') .,1-' 1' ,)*' 6=, ,..' 2',) .' >1;2,- ' 8)>)' 8*-*' ;.*0' D ' 6>9^ ;.% : *' =;D/ .)*0' 6' # ' ' ' '5" ' 9 ' ' ' ' M NRXT' 6/.1' 6' $ ' D' " ' , '(' 'D "' ' M NRXT' 620' 6' $ J' ' ' " ' ' "' ' !' %2' 7 % ' M I X% ' ' =-65;*' & !1' + ' N' //*2' ; %" ' ' 9 !' .% 6// 25' M>d=M(,>' -1>1V 1X' 6',*-?' ;.*0' 2',)*1/15 ',1' 0*. 526,*',)*0 + 2*' 2+ ,6, 12',1' ?62' ,1' .)6-*' 2' ,)*' 5 ,' 1 '.6/+6, 12% *** ! 6// --)1*' M 6dd ==1=' " (8!',)*' 26?*' 5 +*2',1' >*-,6 2' 86-?' .=- 25.' 12',)*' *6.,*-2' . 0*' 1 ',)*' B1-062' 21,' 6-' -1?' 620' /18 25' 2,1',)*' *60' *6',1' 8)>)' : *-10',)*' 4-*6,'-*.1-,*0' 0;- 25') .' /6.,' //2*..' D ',)*' 60+ >*' 1 ') .'=) . > 62.' MB1.*=);.' & L+ ' ' X% ()*' .6?*' 6->' =-1D6D/ ' ?*62,' D ',)*' J' M (' ;,)% *-.' ?;/*.JX' 1' 4*2% L+ ' K *>' ! / 2A I' M+' SX' 6/.1' 0*.>- D*.',)*?' M >6/ C' 0;.' 12.' ?*0 >.*' .6/;D- ,6, .JX' 6.'=1..*.. 25' ?*0 > 26/ =-1=*-, *.' M */620' ' !'=% N K' S QX% 2' <6 ' Q Q' ,)*.*' .=- 25.' 8*-*' + . ,*0' D ' -D '620' <625/*.% ' ,)*' +6//*' 1' 6// --)1*',)*' .6A I' I- '=% S C RXa' ()*' &)1/*' D1,,1?' .' //*0' 620' 2' 6' ?622*-' >)19*0' ;='8 ,)' 6'>-180*0',) >9*,'1' >62*.' 620' 6.=*2.' 1' 0 ^ *-*2,'.=*> *.' 2,*-? L*0' 8 ,)',)*' =6/?' 8)>)' .'6/.1' .**2' - . 25' 2',; ,.' 2',)*' -*>*..*.' 1',)*' ?1;2,6 2.' 0*' 2' *+*- '=/6>*' 8)*2>*' ,)*' .=- 25.' ..;*% 2' 12*' =/6>*' 6' >12. 0*-6D/*' .,-*6?' 1')1,'86,*-' .' .**2' =-*> =^ ,6, 25' ,.*/' -1?' 6') 5)' 620' =*-=*20 >;/6-' .)*/' 1' -1>9' 8) >)' .'.,-125/' , 2,*0' 8 ,)',)*' D- // 62,' *//18' ?62' B*8. ' +1' NNX',1' 8)>)')*' 600*0' 2' NS 6% 1 '. ;/=);-0*=1. ,*0';=12',% 2'-*6>) 25',)*' D1,,1?' 8*' 1;20' 1;-.*/+*.'6,'8)6,' ?6 'D*',*-?*0'6')1,'- +*-' .1'>1= 1;.' 620' -6= 0' .' ,' 620',..')*6,'.1'/ ,,/*' 6D6,*0% 1-'.1?*' 86 ',)*',*?=*-6,;-*' .'9*=,';='D ',)*' >12^ .,62,'.;==/*.'1'86,*-',)6,'/18' 2,1',)*'- +*-% 2'1-^ 0*-',1' + . ',),)*.*' .1;->*.' 2' .;>>*.. 12' 8*'>-1..*0'1+*-' ,1',)*' - 5),'D629'620'6.>*20 25'D ',)*' ?1;2,6 2'. 0*' 8*' =6..*0' 1;-' 6D;2062,' -. 25. 6//' 8 ,) 2',)*' 0 .^ ,62>*' 1 ')6/ '6' ? /*' 0 .>)6-725',)*?.*/+*.' 2,1',)*' .,-*6?'6,'- 5),'625/*.'8 ,)',..'>1;-.*% & *A;05*0',)*' 0 .,62>*' -1?',)*' *60' *6'D ',)*'-6+ 2*',1'D*' 6D1;,' 12*')1;-' 620'6')6/ % <6>/*62' .6 .',)*-*' 86.'6'>,

1 ')*' .6?*' 26?*' 2' +6//* ' 1 ' 6// --)1*' 2' 8) >/ ' 8*' ,/ 29')*' ? ; .,'D*' 8-12'Al' . 2>*',) *-*' .' 21,' .=6>*' 1-' &',182') ',)*' +6//* '6.' 6-'6.' 8*' .68' ,' ( )6,' : *-10' ? ; .,')6+*')60' .1?*' /105 25' 8) *2')*' + . ,*0' ,) *.*' .=- 25.' .',-;*'620',) *-*' 6-*' .; > *2,'=*?6 2.',1'=-1+*' ,)6,' .1?*' .1-,'1 'D; /0 25.')6+*'D**2' *-*>,*0%J >^ >1-0 25',1'B1.*=) ; . ' ,)*' 1-,-*..' 1 ' <6>)A*-; .' 8) >)' 86.'-*D; /,'D ' : *-1 /' 86.' ;=12',) .')1,C86,*-'.,-*6? ' 620' 21,' 6-' -1?',)*' 1;2,6 2.%' ,' .' .; ==1.*0',)6,' B1)2',)*' 6=, .,' 86.' ?=- .12*0'620'D*)*60*0' 2',) .' 1-,-*.. ' 620',)6,',)*' *6..'86.'6/.1' ?60*'6,' <6>) *-;. ' 8) >)' D*. 0*.' D* 25'6' .,-125C)1/0' 86.' 6/.1'6' =6/6>*' D; :'D ' : *-10',)*' 4-*6,' 620',)6,' : *-10') ?.*/' 86.' 218' 12',) .' -1;,*',186-0',)*',*-- ,1- ' 1 ' -*,6. ' 8 ,)' 8)1?')*' 86.' 6,' 86.% ()*' -; 2.' 1 ',) .' 1-,-*..' .,//* *L .,' MB1.*=) ; . ' & ' L+ ' ' T' L+ ' ' KT' ' ' NN' X% ()*' U ; -96' <6 2' 8) >)' *?=, *.' ,.*/' 2,1',)*' *60' *6' + . ,*0' 620' 0*.>- D*0' D ' **,[*2' ID ' ' NN4' ._%X' .' 0*.>- D*0' 6.' 6' .8**,' 620',)*-?6/' .,-*6?' 620' .' 01;D,/*..' ,D>' 1;,/*,' 1 ',)*')1,' .,-*6?.' 1 ' 6/C / --)11' M ,,*-' ' L+ ' S K' NX' *;,% 2>) ' 8)1' *L=/1-*0' ,' 2' Q Q' .6 .a' ()*' .,-*6? ',8*/+*' **,' 8 0*' 620',*2' 2>)*.' 0**=' -; .)*.' 2' 6' .1;,)*-/ '0 ^ -*>, 12' 8 ,)'5-*6,'+*/1> , ' 2,1',)*' .*6% (*?=*-6,;-*' 1 ',)*' 6 -' jT' 1 ',)*' .*6' Qj T' 1 ',)*' .,-*6? ' R jT' 12*' ? /*' 1 ',)*' >)6. ? ' R j% ,' 86.'6'/ ,,/*' .;/=) ;-*^ 1;.',1',)*',6.,*% ()*' .,-*6?')6.'81-2' ,.' D*0',)-1;5)' ,)*'-1>9' 620' /18.' D*,8**2',)*'=*-=*20 >;/6-' .0*.' 1 ' ,)*'>)6.?' 620',)-1;5)',)*'0*/,6' D*20 25',1',)*' .1;,)' 6D1;,' ,81' ;-/125.' ,1',)*' .*6% D629.' 1',)*' .,-*6?' 6/125',)*' 0*/,6' 6-*' - 25*0' 8 ,)' >62*.' ,6?^ 6- .9.'620',)*'>6.,1-CD*62% ()*')6.?' .'NKK' **,'8 0*' 6,',)*' ?1;,)' 620' 1-' 12*' ? /*' ;=' 6.' 6-'6.' 8*',-6>*0' ,' 01*.' 21,' /*..*2' 2' 8 0,)% ()*' .0*.' 1 ',)*')6. ?' 6-*' 6D1;,' * 5), ' **,') 5)' 8)*-*' ,' 1=*2.' ;=12',)*' 0*/,6' D;,' 8 ,) 2',)* '-.*' 2' 6/, ,;0*',1' ;=86-0' 1 ' ' **,' 12' *6>)' .0*' 8)*-*',)*',-6=' 1226, 12' .' *L) D ,^ *0% 2',)*' D*0' 1',)*')6.?',)*-*' 86.' 12*'.,-*6?' 12' ,)*' .1;,)' .0*' *5),' **,' 8 0*' 620',81' 0**=' 620',81' .?6// .,-*6?.' 2' ,)*' >*2,-*' 6// -;.) 25' 0182' 6,',)*' -6,*' 1 ' .' L' 921,.' =*-' =;-% ()*-*' 8*-*' 21' D1;/0*-.' 2' ,)*' D*0' 1',)*' -6+ 2*' 8) >)' 2',)*' 8 2,*;' ?;.,' ,)-1;5)1;,' ,.' 8 0,)'620') 5)' ;=',)*' .0*.' =1;-'0182' 62' ?=*,;1;.' /110% ()*' 86//.'1',)*')6.?'6->'/1 ,' 620'=*-=*20 >;/6-' 1 '-*0' 620' *//18' .620.,12*' *_;6/^ / '?6A*.,>'620' ?=1. 25' D;,'21,'81-2' 2' .;>)' 62,6.^ ,>'.)6=*.' 21-' 1 '.1'- >)' 6') ;*' 6.',)1.*' 1 ',)*' ?12% &60*0' ;=' 6D1;,'6' ? /*' 620' .68'6' *8' 06,*C=6/?C,-**.' 5-18 25' 2',)*' >)6.?% ()*' ,;-2.' 6D1;,' K ' 6-0.' 6=6-,' 6,' -.,' 5*2,/ ' -1;20*0' D;,' .;D.*_:*2,/ '.)6-=' 620' 625',/6-% ()*-*' 86.' 6'.;>>*.. 12' 1 T-6= 0.' 620' 6' >6.>60*' 1 ' 1;-' 620' 6' =*-=*20 >;/6-' 6// 1 ' +*' 1-' .L' **,% '/ ,,/*' 6D1+*',)*' -6= 0',-6=' .)18.' 1+*-' .620^ .,12*% ()*'>;--*2,'86.' .1'.,-125,)6,' 8) /*'D6,) 25' '>1;/0' 21,' 8 ,)' ? ' **,'656 2.',)*',>1*-*2,/ '9**=' -1?' D* 25'>6-- *0'0182',)*' .,-*6?'1' 620' 86/9 25' 8)*-*' ,' 86.' D;,' ,81' **,' 0**=' 12/0' 8 ,)' 0 >;/, ' -*,6 2' 6' 11,)1/0' 8 ,)' ? ' .)1*.' 1/% ,' ' %<%'D6,)*0' -.,' M ?1.' + 'KT' *=,' 1?,.' +%-% 6 0V_'1-'O O *EX' D;,'21,'/125'6 ,*-' ,'D*>6?*' 8 ,)',)*'-*.,'1 '& *.,*-2' . 6' 6'=-* ',1',)*' .. - 62.'M .6% L' RX% D1;,' S' *6-.'/6,*-' 6/2*)' 86.' .,// 6' >12. 0*-6D/*' ,182' 2.' 2 ?6 ' D*' 2 *--*0' -1?' .,' D* 25' ?*2, 12*0' D ' [*9 *// MLL+ ' KNX' 6?125',)*'=/6>*.' 8) >)' ,-60*0' 8 ,)' (-*% &1'?6 '56,)*-' -1?' >- =,;-*',)6,' 2',)*' 5),)'>*2^ ,;- ' % % 6/2*)' 86.',69*2' D ' 12*' 1',)*' .. - 62' 9 25.' 620' 2*+*-' -*>1+*-*0' ,' =-1.=*- ,' % : *2>*' .' >1?=6-*0' 6->)*? .)' : 6?6,)' 620' 46,)' M .6% d' RT' ?1.' + ' KX' 620' -*56-0*0' 6.' 6' =-11 '1 ',)*' -*^ . .,/*..' ? 5),'1 ' .. - 6% ()*' .,*' 1 ' ,*. =)12' 86.' 6 ,*-86-0' 1>>;= *0' D '62 ' % *' ' '> 8' 1 '8) >)',)*' 12/ '-*?6 2.' 6-*',)*'-; 2.' 1 '6' -*?6-96^ D/*'=6/6>*' >6//*0' - + 1 ' ->)' 1 ') 1.-1*. J' .1?*' ?1;20.' 1 '-;DD .) ' 620' 6' >12. 0*-6D/*' *L,*2,' 1 ' ?6.. +*' 86//,186-0',)*'- +*-% M ** ? ,) .' ' ' ' ! ? ! .% +% ,*. =)12%X <1-*'-*>*2,'*L=/1-*-.') 6+*'-*20*-*0' ,'=-1D6D/*',)6,

=6..*0',1',)*' 6DD* ' 1 % < ; 2..,*-7' 8)*-*')*%,6;5),',)*' 1;25' ?129.T' 620' /*>,;-*.' 8) >)')*' ,)*-*' -*60',1',)*?' 1-?*0',)*' D6. .' 1 ') .' 77 1?2?*2,6-*.' 12',)*' /0' 620' *8' (*.,6?*2,. J' 8) >)')*' 8-1,*' 2' 6, 2' D;,' ,-62./6,*0' 2,1' -*2>)' 620' =;D/ .)*0' 2' 620' S' 2' KN +1/;?*.' ,1% () .' 81-9' 86.' 1//18*0' ' ') .' # '$ ' ' N& ' ' 7 ' - ' ' : .,1- ' 1 ',)*' /0' 620' *8' (*.,6?*2,.' M 6- .' Q' K+1/.% ,1X' 620') .' >*/*D-6,*0' D ' ' ' ; 2' dQ)1' 86.' ?60*' 6DD1,1 ' ,% *1=1/0 .' 6,' 62> ' 620',*2' *6-.' 6 ,*-')*' 86.' -*?1+*0',1',)*' 6DD* ' 1 ' *212*.' 8)*-*')*' 0 *0' M)6+ 25'-* ;.*0' 6' D .)1=- >' % 8' >,% K ' % : .' ' 86.' 8 -,,*2' D ' 625 ') .' 2*=)*8' M SN' +1X' 8)*-*' 6' >1?=/*,*' / .,' 1 ') .' 2;?*-1;.' 81-9.' 8 // D*' 1;20% ()*' D*.,' *0 ^ ,12' M -*2>)X' 1 ',)*' ; ' ' 4 ' ' 4 ' ' ; ' .',)6,'1 ' 6- .' N ' M ' +1/.% 1DX% ()*' D*.,' 25/ .)'*0 ,12.'6-*',)1.*' 1 ' RN M ,1 ' 8 ,)' 600 , 12.X' 620' 1 ' Q ' M*0 ,*0' D ' (6 /1-' '+1/.% ,1X% : .' 12C * ' 2 ' ' ' ' 'N& ' ' ' 1;C ' - 'M-*=- 2,*0' 6,' 6- .' N' KS' +1/.% ,1' 6/.1' R' +1/.% 1/%X' 86.' 6D- 05*0' 620' =;D/ .)*0' 2' +1/.% ,1' 6,' + 5212' S C NT' 6/.1',-62./6,*0' 2,1' 6, 2' 8 ,)',)*' ; ' D ' <62.*'M& ->*D7' QR' R' +1/.% ,1X' 6/?>, .' ' ' '" ' ; ')6. ' ;2^ ,/' /6,*/ ' 1-?*0',)*' D6. .' 1 '6//' .;D.*_:*2,' 81-9.' 1' ,)*' .6?*' 9 20% ()*' D*.,' 6D- 05?*2,'_',)6,' 1 ' 1D^ 2.12' 8)1.*' 600 , 12.'6-*'=*-)6=. ',1',)*' ?10*?' .,';^ 0*2,' 1 ' ?1-*' +6/;*',)62' ,)*' 1- 5 26/' 81-9 ' ; ' 2 '+ ' T% 62012' 6 ' ' ' R % *1' >C' (1L ; .' :8 3!

6/2*)' M : *D%) "(' I7N7NT' *=,% O O 1 8' ,)*' 1 ;-,)' 1 ' ?-10 .' > , *.' M 4*2*L' X' 620' =-1/PC' 6D/ ' 21,' 0 *-*2,' -1?' ,)*' . ' M : *D%) E' I N7NT' *=,% O O % 8' 1 ' .6% L' R' 1-' ,)*' . ' :%*D%) ' / NT' *=,% O 8' 1 ' [*9% LL+ ' KN% ()*' 81-0' .',)1;5),',1' ?*62' ,)*' 1-,'1',)*' 510' & ' *'& ((' 8)1' 86.'12*'1',)*' >) *'1DA*>,,'1' 6D ^ /12 62' 81-.) =% >>1-0 25',1',)*')6/0*'*',-6$ 7/6, 12' 8 ,)' 8) >)' ; .*D ; .' 620' B*-1?*' 65-**',) .' .',)*' .6?*' =/6>*',)6,' 86.' .;D.*_:*2,/ '>6//*0' % "' ! ' /6 ' 12',)*' (5- .' 1==1. ,*' */*;>6 ' 620' 86.' 1-' 6', ?*',)*' >6=,6/1',)*' 6-,) 62.' 620',)*' 8 2,*-'-*. 0*2>*' 1',)*' 6-,) 62' 9 25.' M ,-6D1' L+ ' =% N KT' *//6-' 7 ! ' T' .*' 1>)6-,' " ' +' QT' < >)6*/.' $% ' KKQX% () .' 1= 2 12' -*.=*>, 25' 6/2*)' 0*- +*.' .1?*' .;==1-,' -1?',)*' > ->;?.,62>*',)6,',)*' 0 .,- >,' 26?*0' ,*. =)12' 86.' >6//*0' D ',)*' 4-**9." " ' M / 2 ' # !' 7 !'%+ ' KS' K T' 1/ D% + ' XT' D;,' 12',)*-')620',) .' =-1+ 2>*' 01*.' 21,' 6==*6-',1')6+*' *L,*20*0' .1' 6-' 8*.,' 6.' 6/2*)' ?;,')6+*' /6 2% ? ? 62;.' < 6->*// 2;.' MLL ' S KNX' .,6,*.',)6,' ,' 86.',)*' *-. 62' 9 25' 6>1-;7' M 8)1'-* 52*0' -1?' % % ',1' X' 8)1' >)625*0',)*' 26?*' 1',)*' ,*. =)12' T D;,',)6,' 26?*' ?;.,')6+*' D**2' ?1-*' 62> *2,' 6.',' .' ?*2, 12*0' D ' 1/ D ;.% 2',)*',?*' 1',)*'=-1=)*,' ?1.' 6/2*)' 6==*6-.',1')6+*' 12.,,;,*0'62' 20*=*20*2,'=- 2> =6/,' ? 6 ' D*' 2 *--*0' -1?',' D* 25' ?*2, 12*0' D ' [*9 *// MLL+ ' KNX' 6?125',)*'=/6>*.' 8) >)',-60*0' 8 ,)' (-*% &1'?6 '56,)*-' -1?' >- =,;-*',)6,' 2',)*' 5),)'>*2^ ,;- ' % % 6/2*)' 86.',69*2' D ' 12*' 1',)*' .. - 62' 9 25.' 620' 2*+*-' -*>1+*-*0' ,' =-1.=*- ,' % : *2>*' .' >1?=6-*0' 6->)*? .)' : 6?6,)' 620' 46,)' M .6% d' RT' ?1.' + ' KX' 620' -*56-0*0' 6.' 6' =-11 '1 ',)*' -*^ . .,/*..' ? 5),'1 ' .. - 6% ()*' .,*' 1 ' ,*. =)12' 86.' 6 ,*-86-0' 1>>;= *0' D '62 ' % *' ' '> 8' 1 '8) >)',)*' 12/ '-*?6 2.' 6-*',)*'-; 2.' 1 '6' -*?6-96^ D/*'=6/6>*' >6//*0' - + 1 ' ->)' 1 ') 1.-1*. J' .1?*' ?1;20.' 1 '-;DD .) ' 620' 6' >12. 0*-6D/*' *L,*2,' 1 ' ?6.. +*' 86//,186-0',)*'- +*-% M ** ? ,) .' ' ' ' ! ? ! .% +% ,*. =)12% <1-*'-*>*2,'*L=/1-*-.') 6+*'-*20*-*0' ,'=-1D6D/*',)6,

:

that of Eusebius. Jerome took up his residence in the Holy Land in the latter part of the fourth century, and remained there till his death. (For an estimate of the value of these geographical authorities, see Reland, *Palæst.* p. 467 sq.) Pilgrims now streamed to Jerusalem from all parts of the world, and that site was fixed for Golgotha which has remained to the present hour.

4. *Erection of the "Church of the Holy Sepulchre" over the Site.*—The acts of the Emperor Constantine and his mother Helena gave a permanent and public expression to this tradition. This empress, when very far advanced in life, visited Jerusalem for the express purpose of erecting a church on the spot where the Lord Jesus had been crucified. The preceding details show that the preservation of the memory of the locality was any thing but impossible. Helena would naturally be solicitous to discover the true spot, whence ensues the likelihood that she was not mistaken. She had previously heard that the holy places had been heaped up and concealed by the heathen, and resolved to attempt to bring them to light, εἰς φῶς ἀγαγεῖν (Theoph. in *Chron.* p. 18). "On her arrival at Jerusalem, she inquired diligently of the inhabitants. Yet the search was uncertain and difficult, in consequence of the obstructions by which the heathen had sought to render the spot unknown. These being all removed, the sacred sepulchre was discovered, and by its side three crosses, with the tablet bearing the inscription written by Pilate" (Robinson, *Bibl. Res.* ii, 14; Theodoret, i, 17). This account of her proceedings, taken from one who labors to bring into discredit the whole of Helena's proceedings, and who is far too indiscriminate and sweeping in his hostility to the *primitive* traditions of the Church, shows sufficiently that Helena was cautious in her proceedings; that there did exist a tradition on the subject; that by that tradition the empress was guided; and that she found reason to fix the site of Calvary on the spot where the heathen had erected their temple and set up their profane rites. That no small portion of the marvellous, not to say legendary and incredible, is mixed up in the accounts which the ecclesiastical historians have given, we by no means deny; but we see no reason whatever, and we think such a course very unphilosophical, to throw doubt unsparingly over the whole, as (by no means in the best taste) does Dr. Robinson. However, on the site thus ascertained, was erected, whether by Constantine or Helena, certainly by Roman influence and treasure, a splendid and extensive Christian temple. Socrates (*Eccles. Hist.* i, 17) says, "The emperor's mother erected over the place where the sepulchre was a most magnificent church, and called it New Jerusalem, building *it opposite to that old* deserted Jerusalem" (comp. Euseb. *Vit. Const.* iii, 33). This church was completed and dedicated A.D. 335. It was a great occasion for the Christian world. In order to give it importance and add to its splendor, a council of bishops was convened, by order of the emperor, from all the provinces of the empire, which assembled first at Tyre and then at Jerusalem. Among them was Eusebius, who took part in the solemnities, and held several public discourses in the Holy City (Euseb. *Vit. Const.*; Robinson, ii, 13). The Church of the Holy Sepulchre was burnt by the Persians in A.D. 614. It was shortly after rebuilt by Modestus with resources supplied by John Eleemor, patriarch of Alexandria. The basilica or martyrion erected under Constantine remained as before. The Mohammedans next became masters of Jerusalem. At length Harûn er-Rashîd made over to Charlemagne the jurisdiction of the holy sepulchre. Palestine again became the scene of battles and bloodshed. Muez, of the race of the Fatimites, transferred the seat of his empire to Cairo when Jerusalem fell into the hands of new masters, and the holy sepulchre is said to have been again set on fire. It was fully destroyed at the command of the third of the Fatimite caliphs in Egypt, the building being razed to the foundations. In the reign of his successor it was rebuilt, being completed A.D. 1048; but instead of the former magnificent basilica over the place of Golgotha, a small chapel only now graced the spot. The Crusades soon began. The Crusaders regarded the edifices connected with the sepulchre as too contracted, and erected a stately temple, the walls and general form of which are admitted to remain to the present day (Robinson, ii, 61). So recently, however, as A.D. 1808, the church of the holy sepulchre was partly consumed by fire; but, being re-

Front View of the Church of the Holy Sepulchre.

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D; /,' D ' ,)*' 4-**9. ' ,' 218' 1 *-.' 21' ,-6>*.' 1 ' ,.' -*^ >*2,' 0*.1/6, 12%
1' , * ' ' + ' 7 ' ( )*' .1/*' *+ 0*2>*' 1 '62 ' 8 *), ' 2' ,)*' 1==1. ,*' D6/62>*' .' ,)6,' ;-IT*0' D ' 1D/2.12 ',)6,',)*'=/6>*' 1 ',)*' >-;> L 12' 620',)*' .*=^ ;/>)-*' 6->' 218' 1;20' 2',)*' ? 0..' 1 ',)*' ?10*?' > , % ;,' ,1' -*20*-' ,) .' 6-5; ? *2,' 0*> . +*' ,' .)1;/0' D*' =-1+*0' ,)6,',)*' 1>>;= *.' 218' ,)*' .6 ? *' 5-1;20' ,)6,' ,'1>>;= *0' 2',)*' 06 .' 1 ')- ..% ,' .' 6,'/*6., ' 6.' / 9*/ ' ,)6,',)*' > , ' .)1;/0')6+*' ;20*-512*' >)625*.' 6.' ,)6,',)*' . ,*' 1 ',)*' >-;> L 12' .)1;/0')6+*' D**2' ? .,69*2% ( )*' 0*2, ,E' 1 ' .;>)' 6' .=1,' .' ?1-*' / 9*/ ' ,1' D*' =-*.*-+*0',)62',)*' . [*' 620' -*/6, +*' =-1=1-, 12.' 1 '6' > , ' 8)>)')6.' ;20*-512*' ?1-*' + 1/*2,' >)625*.' ,)62' =-1D6D/ '62 ' 1,)*-'=/6>*' 12' *6-,)% ( )*' =-*.*2,' 86//.' 1 'B*-;.6/*?' 8*-*' *-*>,*0' .1',6,*' 1.' % % KT' 620' 1D 2.12') ?.*/ ' -*?6-9.' ,)6,'6' =6-,' 1' U 12' .' 218' /* ,' 1 ;' M=O S X% ' ,)*2',)*' > ,A')6.' D**2' >12^ ,-6>,*0' 12',)*' .1;,)' 620' '6/.1' ,' 86.'6 ,*-',)*' 0*6,)' 1 ')- .,' *L=620*0' 12',)*' 21-,) ' 8)6,' .)1;/0' 8*' *L^ =*>,'D;,',1' 060' 41/51,)6' 2',)*' ? 0..' 1 ',)*' ?10*-2' > , H
B*-;.6/*?' 2' ,)*' 06 .' 1 ')- .,')60',81' 86//.' ,*-?*0',)*' -., I620',)*' .*>120%J' ,' .' 8 ,)',)*' .*>120' 86//',)6,' 8*' 6-*)*-*' >) * / '>12>*-2*0% ,'D*^ 562' 6,' 6I',18*-' 26 ,>0' 4*226,)' 1 ',)*' -.,' 86//' >;-+*0' 1;,86-0',1',)*' 21-,)' 620' *20*0' 6,',)*' >6../* 1' 2,12 6I' ( )*',)-0' 86// *?D-6>*0'6' 8 0*' .;D;-D' 12',)*' 21-,)' 620' 21-,)C8*.,' C( ) .' >1?=-*)*20+78' 6' .1-,' 1 '218' > , ' 620' 86.' D; /,' 2' >12.*_;*2>*' 1 ',)*' /6-5*' =1=;/6, 12' 8) >)' D '0*5-**.' L*0',)* -' 6D10*' 2' ,)*' .=6>*' 8) >)' 6//.' D*,8**2',)*' .*>120' 620',) -0' 86//.% ( ) .' 86//' 86.' D*5;2' ;20*-' /6;0 ;.' 6,'/*6..', 1-, C12*' *6-.' 6 ,*-')- .,' MB1.*=);.' 1-' + ' KT' >1?=% (6> ,% # ' + ' KX% (<.',) -0' 86//',)*2' 0 0' D ' ( )-;5=' I& ' D ' *20% Q X% ' ,')6.' 21,' *L .,' 2',)*', ?*' 1 '1;-' 1-0' 620' 1D 2.12' 6//18.' ,)6,' ',)*'=-*.*2,'. ,*' 1 ',)*'.*=;/>)-*' *// 8 ,)1;',)*' 6,'D ' ?62 '1,)*-' 8- ,*-.' 8)1'?6 'D*' ,P0*0'6.'D*/125^ .*>120' 86//'6// ,)*' >120 , 12.' 1 ',)*' 5*2*-6/ _;*., 12' 81;/0' D*' .6, . *0% <62 '76+*//*-.' 620' 62, _;6- 62.')6+*' 0*> 0*0',)6,',) .' 86.',)*' >6.*' 8) /*' 1,)*-.' ?1-*' 2;?*-1;.' =*-)6=. ' D;,' 21,' D*,,*-' _;6/ *0',1' A;05*' / 6+*' >1?*' ,1',)*' 1==1. ,*' >12>/;.12% *>' ($ 4 B% <'I1- % %" 8' M ,' .' 81-,) ' 1 '-*?6-9',)6,' -% *=*-,' 1 ' *-/ 2',)*' ?1.,'*L=*- *2>*0' >6-,15-6=)*-' =-1D6D/ ' *.=*> 6// '12',) .' 620' 9 20-*0' .;DA*>,. ')6.' +6>776,*0' 12',) .' =1 2,' 2',)*' ?6=.' 1 ') .' 18 2' >120^ .,-;>, 12' .1?*' 1 ',)*?' 2>/;0 25'620' 1,)*-.' *L>/;0 25' ,)*' >12,*.,*0' . ,*' 6/125',)*' >1;-.*' 1 ',)*' 86// 2' _;*.^ , 12%X ( )*' 8)1/*' _;*., 12',;-2.' ;=12',)*' =1. , 12' 1 ',)*' 56,*' 4*226,)a ',) .' 86.' 6,',)*' *L,-*?*' 21-,)^ 8*.,' 625/*' 1 'U 12',)*2',)*' .*>120' 86//' 2' 1-0*-' ,1' D*' 6,' 6// > ->/ 25J ' >1;/0' 21,' 8*//)6+*' *L>/;0*0',)*' . ,*' 2' _;*., 12' D;,' '6.' .' ?1-*' =-1D^ 6D/*' ,' 86.' .1?*' 0 .,62>*' *6.',1',)*',18*-' : == >;.' M 1-' 8) /*' B1.*=);.' ' %1' *L=-*../ 'D*5 2.',)*' -.,' 620',) -0' 86//.' -1?',) .' ' .,;6,*0' 6/125',)*' 21-,)*-2' =6-,' 1',)*' -.,' 86/X',)*2',)*' .*>120' 86//>1;/0')6-0/ ')6+*' D*2,' .;' > *2,/ ',1',)*' 8*.,',1' 2>/;0*' ,% ** & ' ! ( )*' > , 'D;/5*0' 1;,'12',)*' 21-,)' 6.' ,'>12,-6>,*0' 12' ,)*' .1;,)',);.'D- 25 25' 41/51,)6' 2,1' ,.'>*2,-6/*=6-,.% 1D 2.12')18*+*-' 6..*-,.',)6,',)*' .*>120' 86// ?;.,' * ,)*-')6+*' *L>/;0*0',)*' 11/1' : *[*9 6)' 8) >)' M6.')*',) 29.X 86.' 2',)*' > , ' 1-' 2>/;0*0',)*' . ,*' 1',)*' ZH=/>)-*' 8) >)' 86.' 1;,' 1',)*' >,EW ( ) .' 6/,*-26^ ,+*')18*+*-'6/,)1;5)' D '21' ?*62.' 6' 6,6/ 1DA*>, 12' .' 21,' 6D.1/;,*/ '2*>*..6- '6.' ?6 'D*' .**2' 12'-* *-^ *2>*' ,1' +6- 1;.'=/62.' 1 ',)*' >, ',)6,')6+*' D**2' >12^ .,-;>,*0' 2' 8) >)',)*' .*>120' 86// /*6+*.' D1,)' 8)*-*' ,)*' >-=,;-*.' =/6>*' ,)*?% **' % - ' ' 11-PI' ;',)*' 0 .,62>*' 1?',)*' 8*.,*-2'=1 2,' 1',)*' (*?=/*' ,1',)*' =-*.*2,'. ,*' 1',)*' .*=;/>)-*' 1D 2.12' >12. 0*-.' 2.;> *2,' ,' D* 25' 12/ ' 6D1;,' 6' ;6-,*-' 1 ' 6' ? /*% & *' 9218' 21,',)6,',)*-*' .' 62 ',) 25' 2' .>- =,;-6/ 61I' >1;2,' 8) >)' 5 +*.' .;==1-',1',) .' 21, 12% '0 .,62>*' 176' _;6-,*-' 1 '6' ? /*' 6==*6-.' _;,*' *21;5)' 1-',)*' -*^ >1-0*0' *7 *2,.' ,1' .6 '21,) 25' 1',)*' *..*2, 6/ 8*692*.. 1' .;>)' 6' =1. , 12' 1-')18' >62' 1D 2.12' 9218',)6,') .' ?*6.;-*.' *L,*20*0' 6/125',)*' .6?*' 5-1;20' 6.' 1;-' 1-0' 86.');-- *0' 1+*-'H ;,'-*6.12')6.' 6/-*60 'D**2' 5 +*2' 8) ',)*' B*8.' .)1;/0')6+*',69*2' 21' +*- ' =-1^ ,-6>,*0' >1;-.*% (81'1-',)-**' 600, 126/ 6>,.' 2' >12 -?6, 12' 1',)*' 0*2, , '1',)*' =-*.*2,' =/6>*' ?6 ' 26// ' D*' 600;>*0% ;>9 25)6?' I ' =% KQN% .6 .' ( )*' =-*.*2,'-1>9' >6//*0' 6/+6- '620' 2>/1.*0' 8 ,)2' ,)*');-)' 1',)*' : 1/ ' *=;/>)-*' D*6-.' ?6-9.' 2' +*-' =6-,',)6,' .' 26^ 9*0' 1 ' ,.')6+ 25' D**2' 6'-1;20' 210;/_71'-1>9' .,620 25' 6D1+*',)*' >1? ?12' /*+*/ 1',)*' .;- 6>*%7 >)1/[' I ' ,1' D*' =-*.*-+*0',)62',)*' . [*' 620' -*/6, +*' =-1=1-, 12.' 1 '6' 86//' 8<>)' -62' 6.',)*' .*>120' 86// 12',)*' =/62' -;2.' *L>/;0 25' 41/51,)6' 620',69 25' 2',)*' 11/1' : *[*9 6)' M 6;?*-' =% N KX' ,' ?6 '6/.1' D*' -*?6-9^ *0',)6,'. 2>*',)*' =;D/ >6, 12' 1' 2.12.' 81-9' 6;^ ?*-')6.' =;,' 1-,)'6' = *>*' I; '/ '; !' ? ' Q NX' 2' 8) >)')*' -*+ .*,') .' .1' 6-' 6.' 1D 2.12.' 6.>*-,6 2*0' -*.;/,.' -*20*-' 2*>*..6-A'E D;,' D*' -*?6 2.' 1',)*' .6?*' 1= 2 12' 2' -*56-0',1',)*' =1.. D /,'1',)*' =-*.*2,' ;)-:>)' 1',)*' *=;/>)-*' D* 25' 1;,'1',)*' >,% ,' ?1.,'6'+*-' *8');20-*0' 6-0.' 12/ '>62',)*' 1- 5 ^ 26/ 41/51,)6')6+*' /6 2' -1?',)*' =-*.*2,' . ,*' 620',)*' *+ 0*2>*' 2' 6+1-' 1' ,' 0*2, ' '21,'0*> . +*' .' 6-' .,-125*-',)62' 62 ',)6,')6.' D**2' 600;>*0' 656 2.,' ,' ,)*' D*. ,',)*2'+*- '.?6/' .',)*' -*6.12' 1-'0 .,;-D^ 25',)*' >12+ >, 12.' 620' 0 .,-*.. 25',)*')*6-,.' 1',)*' . 2>*-*' D*/ *+*-.' 8)1'+ . ',)*' : 1/ ' *=;/>)-*' 2' 1-0*-' ,1' 5 +*' +*2,',1',)* -',*6- ;/5-6, ,;0*' 620' >)*- ./ ,/ * -' = 1;.' 6 ,)% '. ? /6-'>12>/;. 12' .' 86-?/XI7>12,*20^ *0' 1-' D ' -% / 2' I- ' '" '6 ' 'K S ._ X '620' ,// ?1-*' 6,'/*25,)' D ' <-% & // 6?.' I# ' ' +1/% ' >)% '620' X% ' .' 6/.1'6D/ '*L6? 2*0' 620' ?6 2,6 2*0' D ' ( )-;5=' I& ' D ' *20% Q X% ' ,')6.')18*+*-' D**2' * ,)*-' .,1;,/ '0*2 *0' 1-' / 5),/ ' .2**-*0' 6,'D ' ?62 '1,)*-' 8- ,*-.' 8)1'?6 'D*' ,P0*0'6.'D*/125^ 25',1',)*' ?10*-2' 62, C,-60 , 126- ' .>)11/% ',)1' D*60' 1 ',)*.*' .' -' 1D 2.12' 8)1',69*.' *+*- '1>>6^ .12',1' ?=;52',)*' 6;.,)*2, > , '1 '.>- =,;-A / /1>6/ , *.' 2' 5*2*-6/ '6.' 218' =1 2,*0' 1;,% ' ,,1' .% ' *>' & L ' ! B
' (: '6' 26?*' 5 +*2' 2' 1?62' 6,)1^ />'>1;2,-*.',1' 6'-*=-*.*2,6, 12' 1',)*' +6- 1;.'.>*2*.' 1',)*' =6.. 12' 620' >-;> L 12' 1 '1;-' 1-0' *',)*-' 2' 6' >)6=*/'1-'*L,*-26/',1',)*' >);->)'6.' 6,' ,%B6>_;*.' 6, 2,8*-=% ,'>12. .,-' 1',)-*** >-1..*.' 8,)',)*' 5;-.*' 1')- .,'620',)*',) 1+*.' ;.;6// '6.' /6-5*' 6.' / *' .;-^ -1;20*0' D '6' 2;?D*-' 1' 5;-*.'-*=-*.*2, 25',)*' +6- ^ 1;'=*-.1265*.' 8)1',119' =6-,' 2',)*' >-;> L 12% ' LC/6C)6=*//*',)*' 6/+6- ' .' 6'>);->)' 12',0*',1=' 1' 6') //'.;--1;20*0' D7' ,8*/+*' .>;/=,;-*0' .,12*.' *6>)' ?6-9 25' 62' *+*2,' 8) >)',119' =/6>*' 12',)*' A1;-2*' 1' ,)*' 6+ 1;-',1' < 1;2,' 6/+6- ' ( )*' 6==-16>)',1',)1' 6/+6- '.I>6//*0',)*' N ' ' '*6>)' 1',)*' .,12*.' ?6-9 25' 8)6,' .'>6//*0' 6' .,6, 12' 6,' 8) >)',)1' = 1;.' .6 ' 6' =-6 *-' 2' =6.. 25%J ')6?D*-.' 6 % Q% %
6/+6- ' 125-*56, 12' 1 ' ;-' 67 ' 1 '62' 1-0*-' 1 ' *2*0 >, 2*' 2;2.' 1-5 26// ' 1;20*0' 6,' 1^ ,*-.'D ' 2,1 2*,,*' 1 ' -/*62.' 1 ',)*')1;.*' 1 ' 125;>C +//*% 1=*' 6;/ '>12 -?*0',) .' 1-0*-' 2' S T 6-0' 2',)1' .6?*' *6-',)*' 1;20-*..',119' =1..*.. 12' 1 '6' >12+*2,'2*8/ 'D;/,'6,' 1 ,*-.' 8*2',)',8*2,C 1;-2;2.' 1',)*' 1-0*-'1 ' 12,1+-6;/,% 2' SK ' <6- '0*' <*0>.' 7?1+*0',)*.*', ;2.',1' 6- .' 620' *.,6D/.)*0',)*?' 2*6-',)*' ;L*?D1;-5' 6/6>*% ( )*' 0*. 52' = ',)*' -' *.,6D/.)?*2,'86.',1')121-',)*?.-*- '1-,)*' .1--18' 71',)*' -5 2' 1-',)*' .; *- 25.' 1')-.,' 620' .1?*' 1-' 1,)*-' 1',)*' 2;2.' 8*-*' >1?=*//*0',1' D*' 06 '620' 2 5),'D* 1-*',)*' >-1..% (186-0',)*' >/1.*' 1',)*' /6.,' >*2,;- ',)*' 1-0*-' >1;2,*0' 6D1;,',8*2, >12+*2,.'6//1' 8) >)' 8*-*' 0*.,-1A7>0' D ',)*' -*2>)' *+1/;,12% 2>*',)6,',?*' 6' >12+*2,' 2' 6- .' 620' .*+*-6/ ?1-*' 2' 1,)*-'=6-,.'1 ' -62>*')6+*' D**2' -*.,1-*0%
6/+*-,'(' % '6' <*,)10.,' = .>1=6/ ? 2.,*-

)1;/0' 2' ,)' > ->; ? .,62>*.' 2' 8) >)')*' 86.' 218' '>;/, +6, 12' 86.' 2')6-?12 '8 ,)' ,' >6/ 5*-'0*>/6-*.' =/6>*0' .)18' ?6-9.' 1 ' 2,1/*-62>*' ,186-0' 1,)*-. ' ' ,)6,' 6,' ,8*2,A7C,81' 6/+ 2' 86.' ,)*' ?1.,'/*6-2*0' ?62' 21,' . ;-=- . 251' 620',1' .**9' 6'=6// 6, 12' 1 ') .'5; /, '8*' 2' ;-1=*%)**0' 21,'51'D6>9',1',)*' , ?*' 8)*2')*' D*/125*0',1',)*' ()(->)'1' 1?*'21-' *,',1',)*' 21, 12.'1'> + /'620'-*^ / 5 1; .' / D*-, ' =-*+6/*2,' 2') .' 65*% *')6+*' 12/ ' ,1'-* /*>,' M',)*' >12., ;:, 12' 1',)*') ; ?62' ? 20'620' ,)*' >12..62,'>6-*' 2*>>..6-A7 ,1' =-*+*2,' =18*-' 2' 62 ')620.' -1?'0*5*2*-6, 25' 2,1',A -622 % : .' >120;>,' ,186-0' *-+*, ;.' \.**' > # ;')6.' D**2'A; ../ ' >12^ 0*?2*0' *,',)*' =; 2 .) ?*2,'1 ' *-f *, ; .' 86.'6= '-1+*0' 1 'D ' ?*2' 1 ' ; 201; D,*0' 81-,) ' 620' *+*2' D ',/T*' ? /0' */62>,)12% 1-' 86.') .',-*6, ? *2,'1 ' 1/.*>'M %'+%X 8 ,)1; ,' -*=-16>)% 2' N ' 6/+ 2' =; D/ .)*0' 6' 81-9' 12',)*' 6/ * 9* 2' 0* *2>*' 1 ' 1 .. ' M %'+%X ' 62' 6..>?D/E78)>)' 2') .' + *8' =-1? .*0',1')*' 1 '5-*6,' >12.*_;*2>*' 620' 8)>)' 86.' 20**0'-*?6-96D/*' 2',) .'-*.=*>,',)6,' -1?' ,)6,', ?*',)*' 1//18*-.' 1 ' 6/+ 2' D*>6?*' 92182' 6.' 6' 0 ., 2>,'.*>,'D*6- 25',)*' 26?*' 1',)* -'/*60*-% (1',)*' /6.,')*' ?6 2,6 2*0' ,)*' .6?*' -?2*..' 1 ' >)6-6>,*-' 8)>)')60' 0 ., 25; .)*0') ?' ,)-1;5)' / *% 2') .' 0*6,)CD*0')*' ,119' 410',1' 8 ,2*..' ,)6,')*')60'=-*6>)*0' ,)*' 41.=*/=; -*/ '620'*L)1-,*0'6//' 6D1;,') ?',1'86/9' 81-,) ' 1 ' ,)*' 0 + 2*' 51102*..d) .' ./*20*-' -6?*' 5-60;6// 'D*>6?*'_; ,*'*?6> 6,*0'620'12',)*' K ,)' 1 ' <6 ' : ')*' 0 *0' 8 ,)1;,'6' .,-;55/*' 2',)*' , C ,)' *6-' 1 ') .' 65*% ()*' =*-.12' 1 ' 6/+ 2' 86.' ? 00/*C . [0' 620' 26,;-6// ' 0*/ >6,*T) .')6D ,.' 8*-*' -;56/ 620' ;21..,*2,6, 1; .T 620')*' 86.' .1'.=6- 25' 2') .' 110'),6,' 1-' ?62 ' *6-.')*' ,119' 12/ '12*' ?*6/' 2',)*' 06 % : *')60' 6'>/*6-' ;20*-.,620 25'62'*L,-61-0 26-A' ?*?^ 1- '620'6' -?2*..' 620' 2 /*L D / , '1 ';=;-=1.*' 8)>)' 21'1====1.- , 12'>1;/0'1+*->1?*'21'+6-*,E' 1 '1DA*>,.' 0*^ *6,' 21' + > .. ,;0*' .)69*% 2') .' =- 2> =/*.')*' 86. ' 0*+1;,' 620' . 2>*-*' 620',)*' =; - , '1 ') .' >)6-6>,*-' 2' =- +6,*'/ *' 86.' 8 ,)1;,'6' .,6 2%J ' 6 1 + % ! ' .' ?=1.. /0*' ,1' >12,*?=/6,*' 8 ,)1;,' 6..,12 .)^ ?*2,',)*'/6D1-.'1 ' 6/+ 2'0;- 25',)*'/6.',8*2, ' *6-.' 1 'D`.' / *% :*' =-*. 0*0'1+*-',)*' *>>/*. 6., >6/' 620' =1/ , >6/ 6 6 -.' 1 ' 4*2*+6T)*' =-*6>)*0' '>/6 ' /*>,;-*0',)- >*' 6' 8**9' 86.' =-*.*2,' 6,'*+*-A' ?**, 25' 1 ',)*' 12. .,1-E '620' *,' 1;20', ?*' 1-' 6'+6.,'>1--*^ .=120*2>*' 620',1'>12, 2;*') .'+1/; ? 21;.' / ,*-6- '/6^ D1-.% *. 0*.') .'=- 2,*0'81-9.' ,)*-*' 6-*' 218' 2',)*' / D-6- ' 1 ' 4*2*+6' K K ' .*-?12.' 2' < % : .')*6/,)' 0;- 25' 6//' ,) .' =*- 10' 86.' **D/*' *,')*' >12, 2;*0') .' +6- 1;.' ,1 /.' 6/?1..' ;=' ,1' ,)*' +*- ' 06 ' 1 ') .' 0*6,)% : *' >)1.*',1'D*' =11-' -* ;. 25'12' .*+*-6/' 1>^ >6. 12.' =-*7=1.*0' 00, 12.',1') .' +*- '?10*-6,*' .6/C 6-A7 620' .' .6 0' ;2 1-?/ ',1')6+*' 0*>/ 2*0' ->* + 25' =-*.*2,. ' ;2/*..' 1-' ,)*' .69*' 1 '5 + 25' ,)*?' ,1' ,)*' =11-% -1?') .' 2; ?*-1;.' =;D/ >6, 12.' ,' .' D*/ *+*0' ,)6,')*' 0*- +*0' 21' =*>;2 6- '=-1 ,T 620' *,' 6.' 86. ,)*' >6.*' 8 ,)' & *./* ')*' 86.' 6..6 /*0' 12' 6//' . 0*.' 6.')6+ 25' 6?6..*0' 5-*6,' 8*6/,) % ' .** J' .6 0')*' 8)6,' 2> ,*.' ? ' *2*? *.' ,1' ;-5*',)*.*' 6/.*)110.% ()*' ?*6.:-*' ?*' 6>>1-0 25',1',)* -' 182' 0 .=1. , 12.' D*/ *+ 25',)6,' ' ? ;.,' D*')*6= 25' ;=' ?12*' 12' 6// . 0*.' D*>6;..*' '*2A1 '.;>)' 6+1-6D/*' 1==1-,;2 , *.' 1-' 01 25' 1% ;,' 6..;-*0/ ' ' ')6+*' 21,' D**2' 6D/*' ,1' 6+1 0' ,)*' -*=;,6, 12' 1' D* 25' - >)' 0;- 25' 2E' / *' 0*6,)' 8 // 6,'/6.,' -**' ?*' -1?',) .',.6 2%J' 20' .1' ,' 86.% ') .' /6.,' 8 // 6/+ 2' 0 .=1.*.' 1 ') .' *2, -*' =-1=*-, W6?1;2, 25',1' 6D1;',81') ;20-*0' 620',8*2^ , C +*' 01//6-.' 620' 12',)*' K ,)' 06 ' 1 ' S ' D*^ 25' 8 ,) 2' 6' *8' 8**9.' 1 ' ,A C +*' *6-.' 1 '65*' 1)*^ >6/?/ 'D-*6,)*0' .' /6.,' 2',)_' 6-?.' 1 ') .' - *20' *[6% : *' 86.' D;- *0' 6>>1-0 25',1') .' 182' -*_;*.,' 8 ,)1;,' =1?=' 620' 21' ?12;?*2,' ?6-9.') .' /6.,'-*., 25C=/6>*% 6/+ 2.' 2,*//*>,' 86.' 1',)*' +*-.' -.,' >/6.,' 6,' 12>*' 6>;,*'=*2*,-6, 25'=-1 1;20'620'>1?=-*)*2. +*% : . >/6 5*-'0*>/6-*.' ,)' ,% ,' 8 ,)' 8 ,)' ,' 8 ,)' ,' 8 ,)' ,

/62>,)12'12') .' . 0*% < */62>,)12'>6//*0') ?',) *' ?10^ *-2'U*21 ' 8)1' 862,*0',1' 2,-10;>*' 6' .,1 >6/'2*>*.. , ' 2,1',) *') ;->) ' 620' *L=-*..*0') ? .*/ '+*- ' 86-?/ ' 656 2.,') ?' I % '5 ' + ' RNKX% &)*2' 6/C + ;-7 *2,' < */62>,)12') .' 12 *.. 12' 1 ' 7 ,) ' ,) *' /6,^ ,*-' 86.' .1' *L> ,*0',)6,') *' .,-;>9') .' =*2',)-1;5)' ,) *' 8)1/*' =6..65*' 12' =-*0*., 26, 12% 6/+ 2' -*?6-9*0' ,)6,',) .' 86.' +*- ';2/ 9*') . ' .',)6,')*'>1;/0'21,' ?65 2*')18'6'?62'1 '< */62>,)12 .'6>;,*^ 2*..'>1;/0'-*A*>,',) .'01>,- 2*'620'.6 0'-*=-16>) ;// ' ,)6,',) *' >1;/0'21,'D*/ *+*',)6,',) *')*/0',) *' 01>,- 2*.',) *' =-1 *..*0' 8 ,)' 6' . 2>*-*')*6-,% 2'6>>1;2,' 1 '6' 01>^ ,- 2*',1' 8) >)' .=*>;/6, 12')60'D '21' ?*62.' /*0') ? ')*'-*=-16>)*0') ?' 8 ,)'A;05 25' %"2 %" '>12^ >*-2 25' -**' 8 //\' 6/+ 2' =-1 *..*.' ,1' D*' 12/ '6' " ' -1?' ,% ;^ 5;., 2*' I * 'D9% '>)% LL 'g NXT' 620')*'-*=;0 6,*.' ,) *' >12.*.;*2>*.',)6,')6+*'D**2'>)6-5*0';=12') .'01>^ ,- 2*% 1-' 2.,62>*') *' .,-*2;1;./ ' ?6 2,6 2.',)6,' 410' .' 21,',) *' 6;,)1-'1 '. 2',)6,'? *2' 6>,' -**/ '620' 6>>1;2,6D/+'620',)6,' */*>, 12' .' 6' ., ? ;/;.',1' 5110' 81-9.'-6,)*-',)62' 62' 1= 6,*',1' 26>, 12' MV2.,% D9% ' >)% LL 'g N R KX% **' 'g + L ! % ! ' ()*' D*.,'*0 , 12' 1 ',)*' 6, 2' 81-92' -*2>)' ' '5 ' " ' '4 ' 31' 6/+ 2' .',)6,'1 ' ?.,*-06?' M S 'R' +1/.% 1/%X% ' 2*8'*0 , 12' .' 218'51 25'12' 2',)*' % '5 1' 1';20*-',)*', ,/*' ', % '4 ' % ' ' M+1/.% C+ ' -;2.8 >9' QS QS X% 2' *L>*//*2,'620' +*- '>)%6=*0 , 12'1 ',)*' ' '7!' -!'*0 ,*0') ' ()1/;* >' 86.' =;D/ .)*0' 6,' : 6//*' M QNSCNQ '+1/.% +1XT' 12*' 1 ',)*' ' ' 'M QNS'K'+1/.%X' 620' 1 ',)*' '5 ' " # '86.' / 9*8 .*' *0 ,*0' D ' ()1/;>9'M : 6//*' QN QN 'K'+1/.% +1XT' 12*' 1 ',)*' ' ' !' ? 'M QNQT' +1X' D ' : *25..*2C')*-5% <1.,'1 ' 6/+ 2 .'8- , 25.')6+*'D**2',-62./6,*0' 2,1' 25/ .)' 620' 6' 2*8'620'-*+ .*0' *0 , 12')6.'D**2' ..;*0' ;20*-',)*' 6;.= >*.'1 ',)*' ' 6/+ 2' (-62./6, 12' 1> *, J' 2' +*- ')620.1?*' ..A/*' *,' >)%6=' M 0 2D% *.% ' ' +1/.% +1X% ,.' >12,*2,.' 6-*' 6.' 1//18 .a ' ' " ' " '5 1' 1' N' +1/.%T - ' " ' 5 1' 1' N' +1/.%T ' ' ? 1' K' +1/.%T # 9 ' ' " ' '@ ' ; " ' ' " ' "!' ' +1/.%T ' ' + ' ' D " !' ' +1/%T ' ' $' ' +1/.%T ' ' 9 ' 'D "' ' 1' ' +1/.%T =' - 2 ' ' 6/ + 1' K' +1/.%T 1' K +1/.%T ' ' ' # ' ' +1/%T ' ' D !'& !' ' , "' ' +1/%T ' 'D "' + ' '7 " ' ' +1/%T ' ' # # +' . %" "' ' !' ' +1/%T ' ' . " =' + ' ' + ' ' +1/%T # ' ' " ' $ % ' 6 'N' +1/.%T ' ' D " (' ? % 'K' +1/.%T ' ' & ' " ' &% 'K' +1/.%T ' ' 5 ' ' +1/%T ' J' + 'K' +1/.%T ' '? '6%" ' '+1/ T ' ' " %% ' '-" =' 2 ' ' +1/%T ' ' - " ' - ' ' ' ' +1/%T 'U' # ' ' +1/%T 9 ' ' 'D " 'D ' 'D 'R' +1/% ()*-*' 6-*' 25/ .)' ,-62./6, 12.' 1 ') .' ' D ' B1)2' //*2' M 120% Q N'-*=- 2,*0' 2' .*+*-6/ *0 , 12.'D ',)*') /60*/=) 6' -*. DA ,*- 62' 16-0' 1 ' ;D/ >6, 12X' 620' DA!' *+*- 05*' M 0 2D% QSN Q+1X% 6/+ 2 .'/ *' 86.'8-.^ ,*2' 2'D- *'DA7 *[6' M 25% *0% Q ' 0 2D% (-62.% 1>%T 6/.1' D /6% QNS K?1X' 620' 6-*/T D ;',' 8 ,) 2' ,)*' /6.' *8' *6-.' .*+*-6/ D 15-6=) *.') 6+*' 6==*6-*0% ()*' ?1.,'>1= 1 ;.'620'*/6D1-6,*' .' D!' ('+12' 0D/' : *2- ' % 'M : 6?D% QN C Q 'N' 1/.% +1X' ()*' 6;^ ,)1-'=-1>;-*0' 1-') .'81-9',)*' 2*0 ,*0'/*,,*-.'1 ' 6/+ 2' 8) >)' 6-*' =-*.*-+*0' 2' 4*2*+6'620'5 +*.',)*' ?1.,' ?^ =1-,62,'1 ',)*?' 2',)*' 6==*20 >*.' 8) >)' ?69*' 2=' 5-*6,' =6-,' 1 ' : *2 7.' 81-9% ' 1?62' 6,)1/ >' D 15-6=) ' D ' ;0 2' >% = ' ! ' *1!' '% D!' < % % ;0 2 ' 6- .' K' +1/.% Q X')6.',)*' .1/*' ?*-.',' 1 '6' / +*/ '620' = _;62,'., /*% 2' 25/ .)',-62./6, 12')6.' D**2' =;D/ .)*0' 2' 6/, ?1-*' I # ' ! ' 'D " ' ' ' '& 'D ' B1)2' < `4 //' +1XT' 620' ,')6.' 6/.1' D**2' ,-62./6,*0' 2,1' 4*-?62' M ;5.D% Q NC K' +1/.%X' 2,1' ,6/ 62' M 2' -1,,6 .' ; " !' 6 !' +1/.% L' 620' L' < /62' Q NX' 620' 2,1' 1,)*-' /625;65*.% ' 5-6=) >' D;,'.;=>-0> 6/' D 15-6=) ')6.' D**2' =;D/ .)*0' D ' ()1?6.' :% *-' M 120% Q 3 % ' : 6-=*-.' NQ X% 'D 1A -6=) % ,1^ 5*,)*-' 8 ,)' .*/*>,' 8 - , 25.' 1 ' 6/+ ; 86.' =;D/ .)*0' D ' ,6)*/ 2' ID!' ' ! ! % " ' $ " ' /D*- */0' K' +1 % QS QSNX% ()*-*' .'6'5110' .9*,>)' 1 ' 6/+ 2 .' / *' D ' 1DD 2 .' 2',)*' ; " ' $ ' ' + '+1/% 'D 9% T 6-,% g 620'5 ' " ' QSN' =% K T ;22 25)6?' -" ' 5 ' ' -" ' ' " ' 5 ' ..6 .' + CL% *>' 6/.1' (;//1>)' 1 ' " '5 ' 'M2*8' *0% 120% QS XT ;25*2>-' ' " ' ' + ' M 0 2D% QSK QfI1X% -" ' ' ' -1?' 1- 5 26/ < % ' 8*-*' -.,'*0 ,*0' D ' 122*,'620',-62./6,*7D ' 12..6^ D/*' M 0 2D% QS ' ' +1/.% +1' -*=;D% D ' -*.DA ,*- 62' 16-0' \ ) /60*/=) 6hX% ' 2*8' *0 , 12' 1 ',)*' ' ' 5 ' " ' '4 ' ' 6==*6-*0' 2' 6- .' Q R' MK' +1/.% +1X% ,'>12,6 2.' 62' 2,-10;>, 12' D ',)*' *0 ,1-.' 8 ,)' 6') .,1- ' 1 '=-*+ ^ 1;.' *0 , 12.% **' "!' !' 5 ' >,% Q '6-,' T & '-" !' 5 ' *D% QS '=% KRT' 7 "' ; # !' 5 ' +1/% L T ; '@ '6 !' 5 ' 1% LLL T ; "!' $ ' L + '=% K T 1.,/ 2' 2' $ =' ' !') + ' QSQ' ' % 6/+ 2 .? '=-1=*-/ ',)*' 8)1/*' . ..*?' 1 ',)*1/1^ 5 ',6;5),' DE' B1)2' 6/+ 2' 2>/;0 25') .' 01>,- 2*' 1 ',)*' 6>-6)?*2*2,.' *,>% ,' .'218')18*+*-'5*2*-6// ';.*0' ,1' 0*21,*',)*',)*1- ' 1 ' 5-6>*' 620' =-*0*., 26, 12' .*,' 1-,)' 2' 6/+ 2 .' '620' 601=,*0 ' 8 ,)' ?1-*' 1-' /*..' ?10 >6, 12' D ' .'+*-6/ 1 ',)*' -1,*.,62,'>);->)^ *.% *** ! ('>5('N 'M ;=-6/6=.6- 62X% ' ()*.*' 6-*' .*,' 1-,)' M -1?' *620*-X' ;20*-',)*' 6-, >/*' ! 'M % %X% & *' 5 +*')*-*'. ?=/ ' .;>)' 6-,)*-' *L,-6>,.' -1?' 6/+ 2 .' 182' 8-, 25.' 6.' 6-*' 2*>*..6- ' ,1' .)18' D 5' . .,*? MN%X -*0*., 26, 12' D ' 8) >)' 410' 601=,.' .1?*',1' ,)*')1=*' 1 '/ *' 620' 60A;05*.' 1,)*-.',1' *,*-26/ 0*6,)' 21' 12*' 0*. -1;.' 1 ',)*' >-*0 ,*0 ,'1 '= *, '06-*.' 6D.1/;,*/ ' ,1' 0*27% ;,' ,' .' 2+1/+*0' 2' ?62 '>6+ /.' *.=*> 6// ' D ' ,)1.*' 8)1' ?69*' 1-*9218/*05*' ,)*' >6;.*' 1 ',% & *' ?6 2,6 2',)6,' D1,)' D*/125',1' 4 10' D ;,' ,' .' =-*^ =1.,*-1;.',1' -*=-*.*2,' 12*' 6,' 0*=*20*2,'12',)*' 1,)*-% -*0*., 26, 12' 8*' >6/',)*' *,*-26/' 0*>-**' 1 ' 410' D ' 8)>)')*')6,)' 0*,*-?2*0' 2') ?.*/' 8)6,')*' 81;/0')6+*',1' D*>1?*' 1 '*+*- ' 20 + 0;6/' 1 ' ?629 20% 1-' ,)*' 6-*' 21,' 6// >-*6,*0' 8 ,)' 6' . ? /6-' 0*., 2' T D;,' *,*-26/ / *' .' 1-*1-06 2*0' 1-' .1?*' 620' *,*-26/ 06?^ 26, 12' 1-' 1,)*-.% +*-A7' ?62',)*-* 1-*' D* 25' >-*6^ ,*0' 1-' 12*' 1-',)*' 1,)*-'1 ',)*.*' *20.' 8*' .6A!')*' .'=-*^ 0*., 26,*0' * ,)*-',1' / *' 1-' ,1' 0*6,)%J' ,*-') 6+ 25' .=19*2' 1 ',)*' */*>, 12' 1 ',)*' -6>*' ML' D-6)6?'620' ,)*2' 1 '=6-, >;/6-' D-62>)*.' 1 ',)6,'-6>*')*' =-1>**0.a ()1;5)' ,' .' ; > *2,/ '>/*6-',)6,' 410' 2' D .' .*>-*,' >1;2.*/' -**/ '>)11.*.' 8)1?')*' 8 //'620'-*A*>,.' 1,)^ *-.') .' 5-6,;,1;.'*/*>, 12' .' D;,')6/'0 .=/6 *0',// 8*' >1?*',1'=6-, >;/6-' 20 + 0;6/.',1' 8)1?' 410' 21,'12/ I' 1 *-.' .6/+6, 12' D;,' ' ,' 2' .;>)'6' ?622*-',)6,' ,)*' >*-,6 2, ' 1 ',)*' * *>,' .' / 6D/*' ,1' 21' .;.=*2.*' 1-' 01;D,%J' :*' .;?.' ;=',)*' >)6=,*-' 2' 8)>)' 1' ;.' 5*2*-6// ' .,6,*.' ,)*' 01>,- 2*' 2' ,)*.*' 8I1-0.a ' 2' >12 1-?, ' ,)*-* 1-*' ,1' ,)*' >/*6-' 01>,- 2*' 1' ,D1' >- =,;-*' 8*' 6..*-,',)6,' D '62' *,*-26/' 620' ?? ;,6D/*' >1;2.*/' 410' D6,)' 12>*' 1-' 6// 0*,*-? 2*0' D1,)?')*' 81;/0' 60?',',1' .6/+6, 12' 620' 8)1?')*' 81;/0' >12^ 0*?2',1' 0*.,?>, 1 ' & *' 6 -?',)6,',) .' >1;2.*/' 6.' 6-' 6.' >12>*-2.',)*' */*>,' .' 1;20*0' 12') .' 5-6,;,1;.' ?*-> ',1,6// ' --*.=*>, +1' 1 ') ;?62'62*-,'T D;,',)6,' ,1',)1.*' 8)1?')*' 0*+1,*.',1' >120*?26, 12',)*' 56,*

0 '/ *' .' >/1.*0' D ' 6' A; .,' 620' --*=-*)*2 D/*' D ; ,' 1'
% " ' A ; 05 ? *2,%' 2' ,)*' */*>,' 8*' >12. 0*-'
>6// 25'6.' 62' *+ 0*2>*' 1 '*/*>, 12†' 620' A ; ., >6, 12' 6.'
621,)*-',19*2' 1 ' ,.' ?62 *.,6, 12 ' , //' ,)* ' 6-- +*' 2'
5/1- ' 8) >)' >12., , ; ,*.' ,.' >1?=/*, 12% .' 410' .*6/.'
) .'*/*>,'D ' +1>6, 12' 620' A ; ., >6, 12 ' .1 ' X+
,)*' -*=-1D6,*' -1?' ,)*' 9218/*05*' 1 ') .' 26?*' 620'
.62>, >6, 12' 1 ') .' = - , ')*' 6 1-0.'621,)*-' 20 >6, 12'
1 ',)*' A ; 05 ? *2,' ,)6,' 686 , .' ,)*? %J 'O\(. V ; *.' D9% '
>)%LL % C
MK%X' .',1' ,)*' ,)*1- ' ,)6,'=-*0*., 26, 12' 0*=*20.' 12'
1-*9218/*05*' 1 ')1/ 2*..' 6/+ 2' .6 .†' ' , ' .' 6' 21^
, 12' >1? ?12/ ' *2,*-,6 2*0' ,)6,' 410' 1-*.** 25' 8)6,'
81 ; /0' D*' ,/ *' -*.=*>, +*' ?*- ,.' 1 ' *+*- ' 20 + 0 ; 6/'
?69*.' 6' >1--*.=120*2,' 0 ., 2>, 12' D*, 8**2' 0 *-*2,'
=*-.12.d ,)6,')*' 601=,.' 6.') .' >) /0-*2' . ; >)'6.')1' 1-*^
9218.' 8 //' D0' 0*.*-+ 25' 1 ') .' 5-6>*' 620' 0*+1,*.' ,1'
,)*' 06?26, 12' 1 ' 0*6,)' 1,)*-.' 8)1.*' 0 .=1. , 12.')*'
.**.' 8 //' D*' 2>/ 2*0',1' 8 >9*02*..' 620' ?= *, % ( ) ; .'
,)*' 21,' 12/ '1D.>;-*' */*>, 12' DE' >1+*- 25', ' 8 ,)',)*'
+* / 1 ' 1-*9218/*05*' D ; ,' =-*,*20',)6,' ,' 1- 5 26,*.'
' 2' 621,)*-'%>6; .*J' MD9% ' ' >)% LL X% 12. .,*2,/ '
8 ,)',) . ')*' 6' / ,,/*' ; -,)*-' 12' 6..*-,.' ,)6,' */*>, 12'
01*.' 21,' /18' -1?')1/ 2*..' D ; ,')1/ 2*..' -1?' */*>^
, 12d 1-' 8)*2' ,' .' .6 0' ,)6,',)*' 6 ,) ; / 6->' */*>, C
0' ,)6,',) ' .)1 ; /0' D*')1/ ' ', ' .' ; // ' ?=/ *0',)6,',)*'
)1/ 2*..' ,)* ' 8*-*' 2' ; , ; -*' ,1' =1..*..')60' ,.' 1- 5 2'
2' */*>, 12%J' : *' =-1>**0.' ,1' _ ; 1,*' ,)*' *L6?=/*' 1 '
B6>1D' 620' .6 ; ' 6.' /1+*0' 620')6,*0' D* 1-*' ,)* ') 60'
012*' 5110' 1-'*+ / ',1' .)18',)6,',)*' 12/ '-*6.12' 1 '*/*>^
, 12' 620' -*=-1D6, 12' .' ,1' D*' =/6>*0' 2' 410 .' .*>-*,'
>1 ; 2.*/%J' M 9% ' >)% LL %X
MN%X' 1 ' 6.' ,1' ,)*' 5-1 ; 20' 1 ' -*=-1D6, 12d ' ' 410'
) 6,)' ?*-> ' 12' 8) 1?')*' 8 //') 6+*' ?*-> ' 620' 8) 1?' ',
)*' 8 //')*') 6-0*2*,) % ' 1 ; '. ***) 18') 6' M,) 1' 6=1. , /*X'
6, ,- D ; , *. ' "' ,1' ,)*' ' 1 ' 410% ' ,) *-* 1-*' '
8*' >62' 6.. 52' 21' -*6.12' 8) ') *' 5-62, .' ?*-> ' , 1') .'
=*1=/*' D ; ,' D*>6 ; .*' . ; >)' .') . '=/*6. ; -*' 2*,)*-' .) 6//
8*' 20' 62' 1 ,) *-' >6 ; .*' D ; ,' + ' 1-' ,) *' *=-1D6, 12'
1 ' 1,) *-.% 1-' 8) *2' 410' .' .6 0' , 1') 6-0*2' 1-' .) 18'
?*-> ' , 1' 8) 1?')*' =/*6.*. ?*2' 6-*', 6 ; 5) , ' D ' ,) .'
0*>/6-6, 12', 1' .**9' ' ' '" ' = N(M D 0%X'
' < 62 ' 20**0' 6.' ' ,)* ' 8 .) *0', 1' 6+*-, ' 10 ; ?' -1?'
410' 60? , '*/*>, 12' 2' . ; >)' 6' 86 ' 6.', 1' 0*2 ' ,) 6, ' 62 '
12*' .'-*=-1D6, *0% ; ',) .' .'=; *- /*' 620' 6D. ; -0' D*^
>6 ; .*' */*>, 12' .*/ ' >1 ; /0' 21, '*L . ', 8 ,) 1 ; ' D* 25' 1=^
=1.*0', 1' -*=-1D6, 12† 8) 1?' 410' '" ' "
% :' 620' U ' ' " ' ' ,) 62') .' 0*, *-? ^
26, 12', 1' *L>/ ; 0*',) *?' -1?' ,)*' 2) *- . ,62>*' 8) >)') *'
=-*0*., 2*.' 1-') .' >) /0-*2%J' M 9% ' >)% LL %X
M %X' 6/+ 2' 0*2 *.' ,) 6, ') .' 01>,- 2*' ?69*.' 410' ,)*'
6 ; 71-' 1 '. 2' 6..*-, 25',) 6, ',)*' -; 2' 1 '. 22*-.' .',)*' -'
182' 81-9d ' ( ) * -' =*-0 , 12' 0*=*20.' 12' ,)*' 0 + 2*'
=-*0*., 26, 12' 2' .; >)' 6' ?622*-' ,) 6, ' ,)*' ' 620'
' 1 ' ,'6-*' 1 ; 20' ' " ! @ ' " ' ' ' '
' ' " ' ' " ' ' " %% ! % 12*' ') *') 60' 0*, *-? 2*0', 1' /*6+*' ,)*' 8) 1/*') ; ? 62'
( ) *' -*6.12' 1 ' ,) .' 0*, *-? 26, 12' .' ; 292182', 1' ; .%' -6>*' ; 20*-' . 2' 620',) *' >; -.*' 620', 1' >120*?2' ,) *?' 12'
< 62 ' ,) *-* 1-*' 6//.' 6>>1-0 25', 1' ,) *' %% ' 1 ' 6>>1 ; 2, ' 1 ' . 2' 6>>1-0 25', 1' ,) 1.*' 81-0.' 1 ' ,) *' 6=1.^
+ 2*' -1+ 0*2>*' D ; , ') *' 6//.' D ' " ' ' ! @ ' ' ,/*' ` /' ,) *' 81-/0' .' D*>1?*' 5 ; /, 'D* 1-*' 410' M 1-A%
1-0') 60' ' / ,,/*' D* 1-*' =-121 ; 2>*0' *+*- ' ,) 25',) 6, ' R' KNT' + ' KNX' ( ) 6, ' .1?*' ' ') 6+*' 6 ,)'
) *') 60' ?60*', 1' D*' '+* ' 5110% ! ' &) *2>*',) *2' >1?*.' 5 +*2',) *?' DE' 410' 620' 1,) *-.') 6+*' , ' 21, ' 5 +*2' =-1C'
,) *' 0*=-6+ , ' 1 ' ?62', 1' -*+1/, ' -1?') . ' 410' H 1.', ' >**0.' -1?') .' *, *-26/' 0*>-**†' 1-' `92182' ; 2, 1' 410'
.) 1 ; /0' D*' ,) 1 ; 5) , ' 1' >1?*' -1?' >-*6, 12' 410' 6=^ 6-*' 6//) .' 81-9.' -1?' ,)*' D*5 22 25 I' *, >% M >, .' L+ '
=-1+*0' 620' >1? ?*20*0' 8) 6, ' D60' =-1>**0*0' -1?') ?^ Q† =) *' X% >>1-0 25', 1' 8) >)' 0*>-**') *' 5-6^
.*/ % ') .' 182' 8 >9*02*..' ,) *-* 1-*' ?62' >1--; =, ^ > 1 ; ./ ' .1 , *2.' ,) *') *6-, ' 1 ' ,) *' *'>, ') 18*+*-') 6-0 '
0' ,)' 26, ; -*') *') 60' -*>* +*0' =; -*' -1?' ,)*' 1-0' 620' 620') *'%D*20.' ,) *?' , 1' D*/ *+*† D ; , ' ,)*' 212C*/*>, ') 1'
D ') .' 6//) *' 0-*8' 6// ') .' =1. , *-. , ' 8 ,)') ?', 1' 0*^ /*6+*. ' 2') .' A ; 05 ? *2, ' , 1' ,) *-' 182' =*-+*-. , ' 620'
., -; >, 12%II 6 02*..%' 20') *-*' *. =*> 6// ' -' 182' 0**=' 0 .>- ? 26^
M %X' 2' ? ; >)',) *' .6 ?*' ?622*-' D*' >12, *20.',) 6, ',) *' , 12' 6, ',) *' .6 ?*' , ?*' D1,)' ?*-> ; /' 620' A ; ., .†' 6' 0 .^
2*>*.. , '1 '. 22 25' .' /6 0' ; =12',) *' -*=-1D6, *' D ',) *' >- ? 26, 12' 1 ' ?*2' *_ ; 6// ' /1., ' 1=*2.' ,.*/ ', 1' ; .†' 1-'
1-0 26, 12' 1 ' 410' 620' *, ' 0*2 *.' 410', 1' D*',) *' 6 ; ,) 1-' ,) 6, ' 0*>-**' 1 ' */*>, 12' 620' -*=-1D6, 12' 8) >)' .' -*C'
1 ',) *' -' . 2 ; /' 6>, .' . 2>*' ,) *' >1--; =, 12' 1 ' ?*2' 86.' +*6/*0' 2' ,) *' 81-0' 1 ' 410' 8) >) ' 6.' =-*+*-.*' ?C'
0*- +*0' -1?' 06?' D ') .' 182' 6 ; /, ' 620' 21, ' -0?' G=; -*' 620' ; 2., 6D/*' =*-.12.' 01' 8 -*.', , 1',) *-' 182' 0*^
410% : *' *L) 1-, .' ; .' '-6,) *-', 1' >12, *?=/6, *' ,)*' *+ ^ .,-; >, 12' .1' , '6 1-0.' 2* 6D/*' >12.1/6, 12', 1') 1/ '620'
0*2, ' >6 ; .*' 1 '>120*?26, 12' 8) >)' .' 2*6-*-', 1' ; .' 2' = 1 ; .' `.1 ; /.% ; , ' */*>, 12' .',) *' ? ? ; , 6D/*' =; -=1.*'
,)*' >1--; =, ' 26, 8*' 1 ' ?629 20' ,) 62' .*6->) ' 6 , *-' 6' 1 ' 410' D ' 8) >) ' D* 1-*' ,) *' 1 ; 206, 12.' 1 ',) *' 81-/0'
D 00*2' 620' 6/, 15*,) *-' 2>1?=-*) *2. D/*' 12*' 2' ,) * 8*-*' /6 0 ') *' >) 1.*' 1 ; , ' 1 ',) *' 8) 1/*') ; ? 62' -6>*' 6//I

=-*0*., 26, 12' 1 ' 410%II' 1-',) 1 ; 5) ' D ',) *' *, *-26/
=-1&0*2>*' 1 ' 410' ?62' 86.' ', 1',) 6, ' ?.*- ', 1'
8) >)') *' .' . ; DA*>, ' *, ',) *' '1 ',) *') 6.' 0*- +*0'
-1?') ?.*/ ' 21, ' 410' . 2>*') *' .',) ; .' -; 2*0' .1/*/ '
2' >12.*_ ; *2>*' 1 ') .') 6+ 25' 0*5*2*-6, *0' -1?',) 1'
=; -*' >-*6, 12' 1 ' 410', 1' > 1 ; .' 620' ?=; -*' 0*=-6+ , % I
**' *.=*> 6// 'D 1' D9% ' >)% LL ' g' K ' 620' >) '
LL + g'
-1?',) *' 6D1+*' =6. 65*.' , ' 8 //) 1' .**2',) 6, ' 6/+ 2'
8*2, 'D* 120',) *' ; 5 ; ., 2 62',) *1-AJ1 '=-*0*., 26, 12'
620') */0', 1',) *' . ; =-6/6=. 6- 62' + *8% ; =-6/6=. 6- 62C'
. ?' -*56-0.' ?62' ',) *' 6// ' 6.',) *' 1DA*>, ' 1 ',) 1'
; 2>120 , 126/ 0*>-**' 1 '. 6/+6, 12' 1-' 06?26, 12†' ; DC'
/6=. 6- 62 . ?' 12',) *' 1,) *-') 620' ?69*.',) *' 0*>-**'
3 ; D1-0 26, *' , 1',) *' >-*6, 12' 620' 6// 1 ' ?62% >^
>1-0 25', 1' -%) *00I.' 0* 2 , 12' ' . ; =-6/6=. 6- 62 . ?'
) 1/0.',) 6, ',) *' 0*>-**', 1' *, *-26/ D/ . .' 1-' 81*=-*>*0*. '
2',) *' 1-0*-' 1 '26, ; -*',) *' 0*>-**', 1' 6=1. , 6. † 2 -6C'
/6=. 6- 62 . ?') 1/0.',) 6, ' , ' . ; >>**0.' , J' >#
' ' RKX% ( ) *' ; =-6/6=. 6- 62.') 1/0' ,) 6, ' 410'
',) *' 6// 1 ' 06?† , / *' ; D/6=. 6- 62. ',) 6, ') *'
% ', % 1?*' 8-, *-.') 6+*' ?6 2,6 2*0',) 6, ' 6/^
+ 2' 86.' C21, ' 6' . ; =-6/6=. 6- 62' D ; ',) 6, ' + *8' 1 ') .'
, *6>) 25' .C) 6-0/ ', *26D/*% 6/+ 2', *-?.' ',) *' *L>/ ; ^
. 12' 1 ',) *' 6// 1 ',) *' -.,' ?62' -1?',) *' 0 + 2*' =-*^
0*., 26, 12' 1(M ' >)% LL ' g' X'
1' 6/.1 ' g') *' .6 . ' '# ; ; ?' *-51' 2' . ; 6' >1? =, 12*'
=*-*; 2, ' M) 1? 2*.X' 2) /' 6/ ; 0' _ ; 6?' =1>26./ ; ; 2, ' *A ; C'
0*?' >6/6? ,6, . ' 2' _ ; 6?' % '% ' %='
' '& 6>' =1., *-2.' . ; 1.' =-6*> = , *.' .*>; ?', -6L ,%'
, ' .' 12',) .' =6-, > ; /6-' =1 2',) 6, ' 6/+ 2' 51*.' 6-,) *-'
6, ,- D ; , *. ' "' , 1',) *' ' 1 ' 410% ' ,) *-* 1-*' '
8*' >62' 6.. 52' 21' -*6.12' 8) ') *' 5-62, .' ?*-> ' , 1') .'
=*1=/*' D ; ,' D*>6 ; .*' . ; >)' .') . '=/*6. ; -*' 2*,)*-' .) 6//
8*' 20' 62' 1 ,) *-' >6 ; .*' D ; ,' + ' 1-' ,) *' *=-1D6, 12'
1 ' 1,) *-.% 1-' 8) *2' 410' .' .6 0' , 1') 6-0*2' 1-' .) 18'
?*-> ' , 1' 8) 1?') *' =/*6.*. ?*2' 6-*', 6 ; 5) , ' D ' ,) .'
0*>/6-6, 12', 1' .**9' ' ' '" ' = N(M D 0%X'
' < 62 ' 20**0' 6.' ' ,)* ' 8 .) *0', 1' 6+*-, ' 10 ; ?' -1?'
410' 60? , '*/*>, 12' 2' . ; >)' 6' 86 ' 6.', 1' 0*2 ' ,) 6, ' 62 '
12*' .'-*=-1D6, *0% ; ',) .' .'=; *- /*' 620' 6D. ; -0' D*^
>6 ; .*' */*>, 12' , .*/ ' >1 ; /0' 21, '*L . ', 8 ,) 1 ; ' D* 25' 1=^
=1.*0', 1' -*=-1D6, 12† 8) 1?' 410' '" ' "
% :' 620' U ' ' " ' ' ,) 62') .' 0*, *-? ^
26, 12', 1' *L>/ ; 0*',) *?' -1?' ,)*' 2) *- . ,62>*' 8) >)') *'
=-*0*., 2*.' 1-') .' >) /0-*2%J' M 9% ' >)% LL %X
M %X' 6/+ 2' 0*2 *.' ,) 6, ') .' 01>,- 2*' ?69*.' 410',) *'
6 ; 71-' 1 '. 2' 6..*-, 25',) 6, ',) *' -; 2' 1 '. 22*-.' .',)*' -'
182' 81-9d ' ( ) * -' =*-0 , 12' 0*=*20.' 12' ,) *' 0 + 2*'
=-*0*., 26, 12' 2' .; >)' 6' ?622*-' ,) 6, ' ,) *' ' 620'
' 1 ' ,'6-*' 1 ; 20' ' " ! @ ' " ' ' ' '
' ' " ' ' " ' ' " %% ! % 12*' ') *') 60' 0*, *-? 2*0', 1' /*6+*' ,)*' 8) 1/*') ; ? 62'
( ) *' -*6.12' 1 ' ,) .' 0*, *-? 26, 12' .' ; 292182', 1' ; .%' -6>*' ; 20*-' . 2' 620',) *' >; -.*' 620', 1' >120*?2' ,) *?' 12'
< 62 ' ,) *-* 1-*' 6//.' 6>>1-0 25', 1' ,) *' %% ' 1 ' 6>>1 ; 2, ' 1 ' . 2' 6>>1-0 25', 1' ,) 1.*' 81-0.' 1 ' ,) *' 6=1.^
+ 2*' -1+ 0*2>*' D ; , ') *' 6//.' D ' " ' ' ! @ ' ' ,/*' ` /' ,) *' 81-/0' .' D*>1?*' 5 ; /, 'D* 1-*' 410' M 1-A%
1-0') 60' ' / ,,/*' D* 1-*' =-121 ; 2>*0' *+*- ' ,) 25',) 6, ' R' KNT' + ' KNX' ( ) 6, ' .1?*' ' ') 6+*' 6 ,)'
) *') 60' ?60*', 1' D*' '+* ' 5110% ! ' &) *2>*',) *2' >1?*.' 5 +*2',) *?' DE' 410' 620' 1,) *-.') 6+*' , ' 21, ' 5 +*2' =-1C'
,) *' 0*=-6+ , ' 1 ' ?62', 1' -*+1/, ' -1?') . ' 410' H 1.', ' >**0.' -1?') .' *, *-26/' 0*>-**†' 1-' `92182' ; 2, 1' 410'
.) 1 ; /0' D*' ,) 1 ; 5) , ' 1' >1?*' -1?' >-*6, 12' 410' 6=^ 6-*' 6//) .' 81-9.' -1?' ,)*' D*5 22 25 I' *, >% M >, .' L+ '
=-1+*0' 620' >1? ?*20*0' 8) 6, ' D60' =-1>**0*0' -1?') ?^ Q† =) *' X% >>1-0 25', 1' 8) >)' 0*>-**') *' 5-6^
.*/ % ') .' 182' 8 >9*02*..' ,) *-* 1-*' ?62' >1--; =, ^ > 1 ; ./ ' .1 , *2.' ,) *') *6-, ' 1 ' ,) *' *'>, ') 18*+*-') 6-0 '
0' ,)' 26, ; -*') *') 60' -*>* +*0' =; -*' -1?' ,)*' 1-0' 620' 620') *'%D*20.' ,) *?' , 1' D*/ *+*† D ; , ' ,)*' 212C*/*>, ') 1'
D ') .' 6//) *' 0-*8' 6// ') .' =1. , *-. , ' 8 ,)') ?', 1' 0*^ /*6+*. ' 2') .' A ; 05 ? *2, ' , 1' ,) *-' 182' =*-+*-. , ' 620'
., -; >, 12%II 6 02*..%' 20') *-*' *. =*> 6// ' -' 182' 0**=' 0 .>- ? 26^
M %X' 2' ? ; >)',) *' .6 ?*' ?622*-' D*' >12, *20.',) 6, ',) *' , 12' 6, ',) *' .6 ?*' , ?*' D1,)' ?*-> ; /' 620' A ; ., .†' 6' 0 .^
2*>*.. , '1 '. 22 25' .' /6 0' ; =12',) *' -*=-1D6, *' D ',) *' >- ? 26, 12' 1 ' ?*2' *_ ; 6// ' /1., ' 1=*2.' ,.*/ ', 1' ; .†' 1-'
1-0 26, 12' 1 ' 410' 620' *, ' 0*2 *.' 410', 1' D*',) *' 6 ; ,) 1-' ,) 6, ' 0*>-**' 1 ' */*>, 12' 620' -*=-1D6, 12' 8) >)' .' -*C'
1 ',) *' -' . 2 ; /' 6>, .' . 2>*' ,) *' >1--; =, 12' 1 ' ?*2' 86.' +*6/*0' 2' ,) *' 81-0' 1 ' 410' 8) >) ' 6.' =-*+*-.*' ?C'
0*- +*0' -1?' 06?' D ') .' 182' 6 ; /, ' 620' 21, ' -0?' G=; -*' 620' ; 2., 6D/*' =*-.12.' 01' 8 -*.', , 1',) *-' 182' 0*^
410% : *' *L) 1-, .' ; .' '-6,) *-', 1' >12, *?=/6, *' ,) *' *+ ^ .,-; >, 12' .1' , '6 1-0.' 2* 6D/*' >12.1/6, 12', 1') 1/ '620'
0*2, ' >6 ; .*' 1 '>120*?26, 12' 8) >)' .' 2*6-*-', 1' ; .' 2' = 1 ; .' `.1 ; /.% ; , ' */*>, 12' .',) *' ? ? ; , 6D/*' =; -=1.*'
,)*' >1--; =, ' 26, 8*' 1 ' ?629 20' ,) 62' .*6->) ' 6 , *-' 6' 1 ' 410' D ' 8) >) ' D* 1-*' ,) *' 1 ; 206, 12.' 1 ',) *' 81-/0'
D 00*2' 620' 6/, 15*,) *-' 2>1?=-*) *2. D/*' 12*' 2' ,) * 8*-*' /6 0 ') *' >) 1.*' 1 ; , ' 1 ',) *' 8) 1/*') ; ? 62' -6>*' 6//I

2' D ' ,) -' 182' 6 ; /,' -1?' ,) * -' =- ? *+6/' 2,*5- , ' 2,1' . 2' 620' 0*..-;>, 12 ' 6>>1-0 25' ,=' ,)* ' ?1.,' -**' % ' 1 ') .' 182' 8 // ' 620' 1 ' 1' 6' >*-^ ,6 2' 2 ; ? D*-' 1 ' ? *2 ' 2* ,)*-' D*.,*-' 21-' 81-,) *-',)62' 1,)*-. ' D ; ' / 25' 2' ,)*' .6 ?*' ? ' .*- ' P ,)' ,)*' -*.,' ,'1' .6/+6, 12' 2')- .,' 8)1 ? ')*')60' *+*2' -1 ?' *,*-2 , ' >12., ,:,*0' < *0 6,1-' 620')*60' 1 '6// ,)*' */*>, ' 620' ,)*' 1 ; 206, 12' 1 ' .6/+6, 12† 620' ,)*-* 1-*' D*' 0*>-**0' ,1' 5 +*' ,)*?' ; 2,1') ?' ,1' D1' .6+*0 '620' * *>,;6// ',1' >6// 620' 0-68' ,)*?' 2,1' >1? ? ; ? 12' 8 ,)') ?' D ') .' &1-0 620' = - ,† 1-')*' 0*>-**0') ? .*/ ' ,1' 5 +*' ; 2,1' ,)*?' ,-;*' 6 ,) ' ,1' A ; ., ' ,1' .62>, ' 620' 6,'/*25,) ' =18*-^ ;// ' ,1' 5/1- ',)*? ' *,>% M =) % ' C4† 1?% + ' X% ( ) .' .6 ?*' */*>, 12' .' 21,' ?60*' -1 ?' ' 6 ,)' 1D*0 *2>*' 1 ' 6 ,) ')1/ 2*.. ' 1-' 62 ' 1 ,) *-' 5110' _ ; 6/ ' ' 620' 0 .=1. , 12 ' 6.' '% 4 (' >6 ; .*' 1-' >120 , 12' 2' ,)*' ? 62' 8)1' .)1 ; /0' D*' */*>, *0 ' *, >% '/ *')6,)' >)1.*2' ; . ' 21,' D*>6 ; .*' 8*' 8*-*' D ; ' .,)6,' 8>' "' D*')1/ ' M =) % † :1-2' L ' : C N† >,.' L ' QX% <1-*1+*-')1/ ' >- =,;-*' 01,)' // ; .,-6,*' 620' >1 ? ?*20' ,1' ; .' .) .' *,*-26/' 620' -**' 5-6>*' 1 ' 1 ;-' */*>, 12 ' 2' ,) .' ?1-*' *.^ =*> 6// ' ,)6,' ,'01,)' ,*.., '6// ' ?*2' 21,' ,1' D*' */*>,*0' D ; ' ,) 6,' .1 ?*' 6-*' 212C>/*>, ' % '" ' 2' ,)*' *,*-^ 26/' */*>, 12%1 ' 410' 8)1 ?' ,-;/ ' 410' -1 ?' ?1.,' -**' A ; .,' (*=-*)*2. D/*' 620' ? ? ; ,6D/*' 5110' =/*6. ; -*' 0*>-**0' ,1' /*6+*' 2' ,)*' ' 2,1' 8) >)' .)*')60' D ' " ' ' >6.' ,)*? .*/+*.† 620' 21,' ,1' D*.,18' 12' ,)*?' / + 25' 6 ,) ' 620' ,)*' 5-6>*' 1 ' >12+*-^ . 12† D ; ')6+ 25' D**2' /* ,' 2' ,)* -' 182' 8 6 . ' 620' ; 2^ 0*-' A ; .,' A ; 05 ? *2, ' 6,' /*25,) ' 21,' 12/ ' 12' 6>>1 ; 2, ' 1 ' ,)* -' ; 2D*/ * 'D ; ' 6/.1' 1 '6/// ,)* -' 1,)*-' . 2. ' ,1' >12^ 0*?2' 620' *,*-26// ' =; 2 .)' ,)*? ' ,1' ,)*' ?62 *.,6, 12' 1 ') .' 182' A ; .,>*%% 20' ,) .' .',)* 0*>-**' 1 ' % " =1' + 1' 8) >)' 0*,*-? 2*.' ,)6,' 410' .' 2' 21' 8 .*' ,)*' 6 ; ^ ,)1-' 1 . 2' M8) >)',1' D*' ,)1 ; 5),' 1 ' .' D/6.=)*? X ' D ; ,' 6' ,-*?*201 ; . ' 2>1?=-*)*2. D/*' A ; .,' A ; 05*' 620' 6+*2^ 5*-%J

MK%X' ' , ' " ' ' "' ' " !(1 ' 6.. 25' 1+*-' 1-' D-*+ , .' .69*' 8)6,' .' .6 0' 1 ' ,)*' 2*>*.. ,A ' 1 '6,12*^ ?*2, ' 2' 1-0*-' ,1' =6-012 ' 620' 1 ')- .' ,)6+ 25' 1 D-*0' ,)6,' 6,12*?*2, ' 620' .6, . k>, 12 ' ,' .' 600*0 ' ( ) .' 0*6,)' 1 ' ,)*' 12' 1 ' 410' .' 6' . 25/*' 620' ?1.,' =*- *>,' .6>- >*' 620' .6, . 6>, 12' 1-' . 2 ' 1 ' 2 2 ,*' +6/ ;*' 620' =- >*' 6D ; 2062,/ ' .' > *2, ' ,1' *L= 6,*' ,)*' . 2. ' 1 ' ,)*' 8)1/*' 81-/0' D ; ,' D*>6 ; .*' ?62 ' 8)1' 6-*' >6//*0(P ' ,)*' 41.=*/ 01' 21,' -*=*2, ' 21-' D*/ *+*' 2')- .,' D ; ,' =*-^ .)' 2' ;2D*/ * ' ,) .' 01,)' 21,' 6- .*' -1 ?' 0* *>,' 1-' 2^ .; > *2> ' 1 ' ,)*' .6>- >*' 1 *-*0' D ' M)- .,' ;=12' ,)*' >-1.. ' D ; ,' -1 ?' ,)*' -' 182' 6 ; /,% 410' 8 //*0' ,)6,')- .,' ,)-1 ; 5)' ,)*' D/110' 1 ' ,)*' >-1.. ' .)1 ; /0' 1 ; ,' 1 '*+*- ' =*1^ =/*' ,- D*' 26, 12 ' 620' /625 ; 65*' 1-' -*0** ?' 6//' ,)1.*' 620' ,)1.*' 12H ' 8)1' 8*-*' -1 ?' *,*-2 , ' >)1^ .*2' ,1' .6/+6, 12 ' 620' 5 +*2' ,1') ?' D ' ,)*' 6,)*-' ,)6,')*' .)1 ; /0' >12 *-' 12' ,)*?' ,)*' 5 ,' 1 ' 6 ,) J' *,>% MN%X' B/' (' % ' ! ' // ?*2' 6-' >12^ >* +*0' 2' . 2 ' 620' D1-2' ,)*' >) /0-*2' 1 ' 8-6,) ' 20 .^ =1.*0' I % 8' ,1' 6// .6+ 25' 5110' =-1=*2.*' ,1' *+ /' 0*60' 2' . 2 ' 620' ,)*' ./6+*.' 1 ' . 2† 620' 8 ,)1 ; ,' ,)*' -*5*2*-^ 6, 25' 5-6>*' 1 ' ,)*' : 1/ ' = - ,' ,)* '2*' ,)*-' 6-' 8 // 25' 21-' 6D/*' ,1' -*, ; -2' ,1' 410' ,1' >1-->', ,)* -'0*=-6+*0' 26^ ,;-*' 1-' ,1' 0 .=1.*' ,)*?.*/+*.' ,1' ,)*' >1--*>, 12' 1 ' ,%J ' *0' 620' 9*=, ' D ') .' =18*-' ,)-1 ; 5)' 6 ,)' ; 2,1' .6/+6C M %X' ' , '? ' '@ A]) ' ;,' 2' / 9*' ?622*-' ' 6. ' D ' ,)*' 6// ' ?62' 01*.' 21,' >*6. *' ,1' D*' ?62 ' *2018*0' 8 ,)' 2, *//*>, ' 620' 8 // ' 2* ,)*-')6,)' . 2 ' 8) >)')6,)' =*-+60*0' ,)*' 8)1/*') ; ?62' .=*> *. ' D ; ,' ,')6,)' 0*=-6+*0' 620' .= - ,;6// ' ..,6 2*0' ,TO.1' ,)6,' *+*2' ,) .' 0 + 2*' 5-6>*' 1 '-*5*2*-^ 6, 12' 01>.' 21,' 6>,' ;=12' ?*2' / 9*' .,1>9.',) 0' ,-**. ' 21-' ,69*' 686 ' ,)*' =-1=*-. *.' 1 ') .' 8 // ' 1-' + 1^ /*2,/ ' >1?=*/ ,' 8) /*' ;28 // 25†' D ; ,' ,' .= - ,;6// ' _ ; >9*2. ')*6/. ' >1--*>, . ' 620' .8**,/ ' 620' 6, ' ,)*' .6?*' , ?*' =18*-. ;// ' 2>/ 2*.' ,† .1' ,)6,' 8)*-*6.' D*' 1-*' ,' 86.' 8)1// ' 51+*-2*0' D ' ,)*' -*D*// 12' 620' -*. .,62>*' 1 ' ,)*' D " ' 218' =-1?=,' 620' . 2>*-*' 1D*0 *2>*' 1 ' ,)*' = - ,' ?6 ' D*5 2' ,1' -* 52† 2' 8) >)' ,)*' -*2*86/ 1 ' 1 ; -' . = - ,;6/' 8 // ' 620' 1 ; -' / D*-, ' ,-;/ ' ?12. .,)*' 2' 8) >)' ?622*-' M1-' 1-' 8) >)' -*6.12X ' ;2/*. .' ,)*' 60 ? ^

-6D/*' ;,)1 +1 '6// 5110' .)1 ; /0' 81-9' 2' ; . ' ,)*-*' >1 ; /0' D*' 21')1=*' ,1' ?62' 1 '- . 25' -1 ?' ,)*' 6// D ' ,)6,' 1' 'D ' 8) >)' 8)*2' .,620 25 ')1' *// 2,1' - ; 2%J M %X' ' , ' ! ' 410' 8)1' .' - >)' 2' ?*-> ' -1 ?' D .' ? ? ; ,6D/*' =; -=1.*' 1 ' */*>, 12' 01>.' 21,' 8)1// ' ,69*' 686 'D .' : 1/ ' = - ,' -1 ?') .' 182' *+*2' 2' /6 ?*2,6D/*' 6//.† 21-' 01*.')*' .1' =*-? ,' ,)*?' ,1' 5/ 0*' 0182' I1% 8' ,)6,' ,)*' .)1 ; /0' 6// -1 ?' ,)*' 5-6>*' 1 ' 601=, 12' 620' ,)*' .,6,*' 1 ' A ; ., >6, 12† 1-' >1 ? ? ,' ,)*' . 2' ; 2,1' 0*6,) ' 1-' 656 2 .',)*' : 1/ ' = -^ ,†' ,)6, ' D* 25' 0*.*-,*0' D ') ? ' ,)* ' .)1 ; /0' >6.', ,)*?C ' .*/+*.')*60/125' 2,1' *,*-26/ 0*.,-;>, 12% 1' ,)6,' 21,' D ' ,)* -' 182' ?*-, .' 1-' .,-*25,) ' D ; ,' D ' ,)*' 5-6, ; ,1 ; . ' ?*-> ' 1 ' 410' ,)* ' 1D,6 2' , ' ,)6,' ,)*' 2* ,)*-' ' -1 ?' 6 ,)' 620' 5-6>*' ' ' ' 2' ,)* -' 6// .' 620' =*- .)%J ()*' 12 *.. 12.' 1 ' ,)*' * 1-?*0') ;-,)' 65-*-*' ?1-*' 1-' /*.' >/1.*/ ' 8 ,)' ,)*' ..,6,*?*2.,' 1 ' 1-, ' 8)*,)>' ,)* ' =-*>*0*0' 1-' 1//18*0' ,' 2' 06,*% *>' ,)*' = ' ? ' 6-,% K† ' ; ' 6-,% S† @ ! ? ' # ' 6-,% ' 620' R† ' # ! ' % M **' & 2*-' %! ' 2 ' L ' † : 65*2D6>) ' D 1' L ' ' ' ' ' g K R%X ()*' ' .' ,)*' .,6206-0' 1 ' ,)*');->)' 1 ' >1,/620' 620' 1 ' ,)*' +6- 1 ; .' -*.D ,*- 62');->)*.' 2' ;-1=*' 620' ?*-^ >6% ,.' NO' 6-, >/*' .,6,*.' ? (' 6 ' ' ' 6.' 1/^ /18.'d #/I' ? (' 6 ' ' ! ' 410' -*?' 6//*,*-2 , ' 0 0' D ' ,)*' ?1.,' 8 .*' 620')1/ '>1 ; 2.*/ 1 ') .' 182' 8 // ' -**/ ' 620' ; 2>)625*6D/ ' 1-06 2' &)6,.1*+*-' >1?*.', 1' =6..† *,' .1' 6.' ,)*-*D ' 2*.,)*-' .' 410' ,)*' 6 ; ,)1-' 1 ' . 2' 21-' .' + 1/*2>*' 1 *-*0' ,1' ,)*' 8 //' 1 ' ,)*' >-*6, ; -*. ' 21-' .' ,)*/ D*-, '1-' >12, 25*2> '1 ' .*>120' >6 ; .*.', 69*2' 686 ') ; ' -6,)*-' *.,6D/ .)*0% /,)1 ; 5)' 410' 9218 .' 8)6, .1*+*-' ?6 ' 1-' >62' >1?*' ,1' =6..' ;=12' 6// .;=^ =1.*0' >120 , 12. ' *,')6,)')*' 21,' 0*>-**0' 62 ,) 25' D*^ >6 ; .*' D*' 1-*.68' ,.' ; ,-*' 1-' 6.' ,)6,' 8) >)' 81 ; /0' >1?*' ,1' =6..' ; =12' .;>)' >120 , 12.% ' ,)*' 0*>-*' 1 ' 410' 1-' ,)*' ?62 *.,6, 12' 1 ') .' 5/1-E ' .1?*' ?*2' 620' 625*/.' 6-*' =-*0*., 26,*0' ; 2,1' *+*-/6., 25' / *' 620' 1,)^ *-.' 1-*1-06 2*0' ,1' *+*-/6., 25' 0*6,)% ()*.*' 625*/.' 620' ?*2' ,) ; .' =-*0*., 26,*0' 620' 1-*1-06 2*0' 6-*' =6-^ , >; /6-/ ' 620' ; 2>)625*6D/ ' 0*. 52*0' 620' ,)*' -' 2; ?^ D*-' .' .1' >*-,6 2' 620' 0* 2 ,*' ,)6,' ,'>6221,' D*' *,)*-' 2>-*6.*0' 1-' 0 ? 2 .)*0% ()1.*' 1 ' ?629 20' ,)6,' 6->' =-*0*., 26,*0' ; 2,1' / *' 410' D* 1-*' ,)*' 1 ; 206, 12' 1 ' ,)*' 81-/0' 86.' /6 0' 6>>1-0 25' ,1') .' *,*-26/%620' ?*2 ; ^ ,6D/*' = ; -=1.*' 620' ,)*' .*>-*,' >1 ; 2.*/ 620' 5110' =/*6.^ ; -*' 1 ') .' 8 // ')6,)' >)1.*2' 2')- .,' ; 2,1' *+*-/6., 25' 5/1-EW 1 ; ,' 1 ') .' =*-*' -**' 5-6>*' 620' /1+*' 8 ,)1 ; ,' 62 ' 1-*. 5), ' 1 ' 1 ,) ' >-' 5110' 81-9. ' 1-' =*-. *+*-62>*' 2' *' ,)*-' 1 ' ,)*-) ' 1-' 62E' 1,)*-',) 25' 2' ,)*' >-*6, ; -1, ' 6. ' >120 , 12. ' 1-' >6 ; .*-' ?1+ 25') ?' ,)*-*; 2,1† 620' 6// ' ,1' ,)*' =-6 .*' 1 ') .' 5/1- 1 ; .' 5-6>*% .' 410')6,)' 6=^ =1 2,*0' ,)*' */*>, ' ; 2,1' 5/1-A ' .1')6,)' ?*2' 6-*' =-26/ 620' ?1.,' -**' =; -=1.*' 1 ') .' 8 //' '-*1-06 2*0' 6// ,)*' ?*62.' ,)*-*; 2,1% &)*-* 1-*' ,)*E' 8)1' 6-*' */*>,*0' D* 25' 6// *2' 2' 06?' 6-*' -*0** ?*0' D ')- .,' 6-*' * ^ *>, ; 6// ' >6// *0' ,1' 6 ,)' 2')- .,' D ') .' = - ,' 81-9 25' 2' 0 ;*' .*6.12† 6->' A ; ., *0' 601=,*0' .62>, *0' 620' .6+*0' D ; ,' ,)*' */*>,' 12/ ()*' -*.,' 1 ' ?629 20' 410' 86.' =/*6.*0' 6>>1-0 25' ,1' ,)*' ; 2.*6->)6D/*' >1 ; 2.*/ 1 ') .' 182' 8 // ' 8)*-*D ')*' *L,*20*,)' 1-' 8 ,))1/0>,)' ?*-> ' 6.')*' =/*6.*,D ' 1-' ,)*' 5/1- ' 1 ') .' .1+*-* 52' =18*-' 1+*-') .' >-*6, ; -*. ' ,1' =6..' D ' 620' ,1' 1-06 2' ,)*?' ,1' 0 .)121-' 620' 8-6,)' 1-' ,)*' -' . 2 ' ,1' ,)*' =-6 .*' 1 ') .' 5/1- 1 ; .' A ; ., >*%J ()*' ,)' 6-, >/*' 1 ' ,)*' " '" ' 6 ' .' 6.' */^ /18.'a #/I' ' ' 6 ! ' ->0>., 26, 12' ,1' / *' .',)*' *+*-/6., 25' =; -=1.*' 1 ' 410' 8)*-*D 'MD* 1-*' ,)*' 1 ; 206, 12.' 1 ' ,)*' 81-/0' 8*-*' /6 0X')*')6,)' >12^ .,62,/ ' 0*>-**0' D ') .' >1 ; 2.*/ ' .*>-*D,1' ; .' ,1' 0*/ +*-' -1 ?' >; -.*' 620' 06?26, 12' ,)1.*' 8)1 ?' D*')6,)' >)1.*2

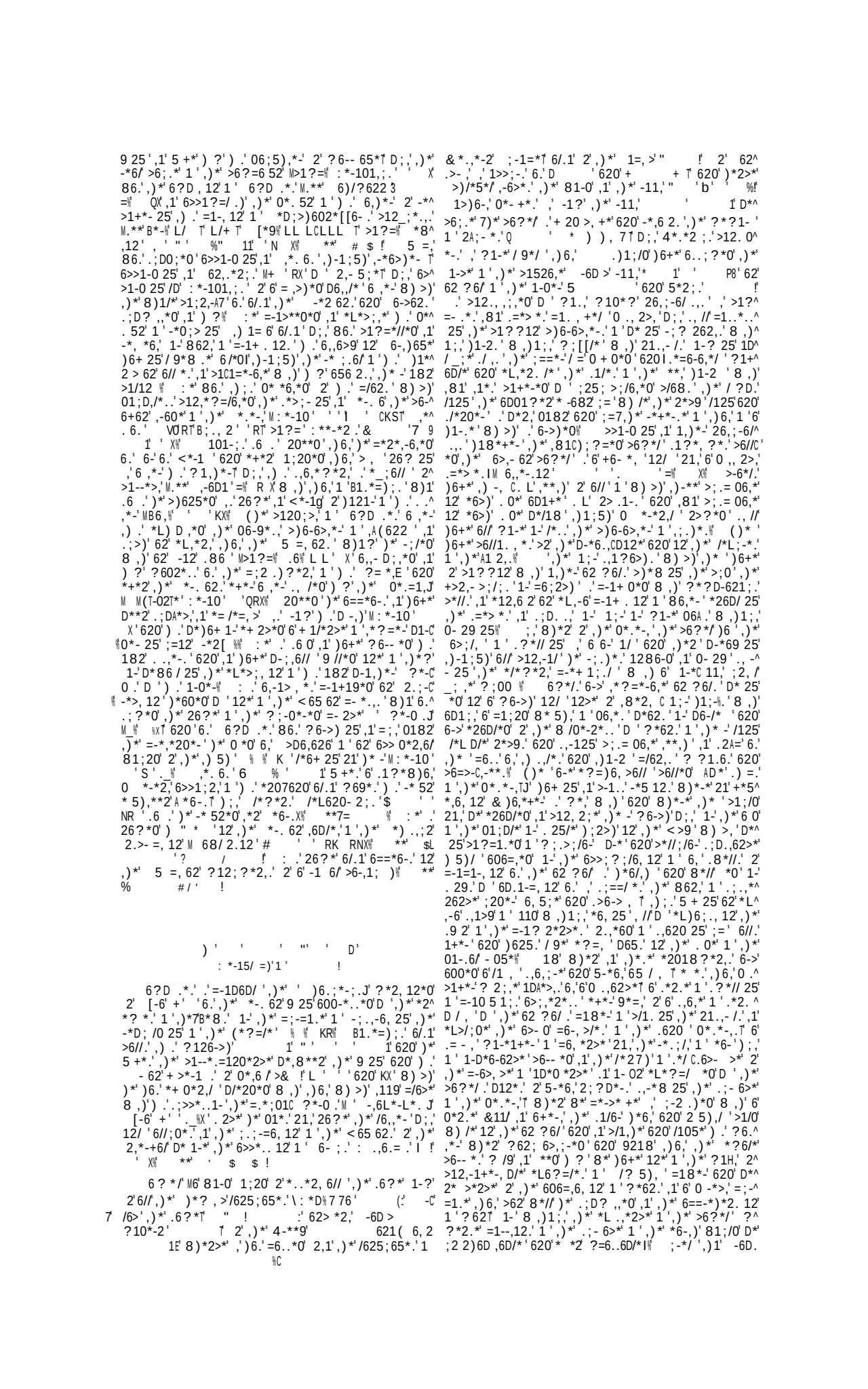
&

>6//*0' 5 ' 1) ; ->) * ,' 6.' 0 .,?=>6 .)*0' -1?' ,)*' " ') ; ->) ,' .' ../$' ' ; .*0' ,1' 6' >*-,6 2' *L^ ,*2, ' *.=*> 6// ' 2' -62>*' 620' ; .,- 6 M %X' ,' .' 218' 5*2*-6// ' 2' ; .*' ,1' 0*. 526,*' ,)1.*' 8)1' -*>* +*' ,)*' ,)*1/15 >6/ ,*2*,.' 1 ' 6/+ 2 ' 8 ,)1 ; ,' -*56-0' ,1') ; ->) ' 1-' .*>,* ** 'g ! 2' ,)*' *6-/ ' =6-,' 1 ',)*' ,)' >*2,; - ' ,)*' 5 ' >) ; ->) *.' 1 ' 8 ,[*-/620 ' : ; 256- ' -62>*' 4*-?62 ' 620' : 1//620' 8*-*' 6// 6/+ 2 .,> 2' ,) .' .*2.*T 218' ,)*' =-1=1-, 12' 1 ' 6/+ 2 .,' 2' .1?*' 1 ',)*?' .' .?6//* ( )*' -*.D ,*- 62' >) ; ->)*.' 1 ' 25/620 ' >1,/620 ' -*^ /620 ' 620' ?*- >6' 6-*' 8 ,)' *8' *L>*=, 1 ; . ' 6/+ 2 .^ , >* 1' 6/.1' 6-*' ?62 ' 1 ' ,)*' 20*=*20*2,' 620' 12^ 5-*56, 126/ >) ; ->)*. ' D1,)' 2' 25/620' 620' ?*- >6* 2',)*') ; ->)' 1 ' 25/620 ' 620',)*' -1,*.,62,' = .>1^ =6/) ; ->)' 1 ',)*' $2 ,*0' ,6,*. ' 6/+ 2 .?'=-*+6 /.',1' 6' >*-,6 2' *L,*2, ' D ; ,' .,6, ,, >.' 6-*' 862, 25* .)1= ; -5*. .' -*?6-9.' ,)6,' 6/,)1 ; 5)' ,)*') ; ->)' 1 ' 25C' /620')60' D**2' -*=-*.*2,*0' 6,' ,)*' 210' 1 ' 1-,' ,' >/*-5 ' 6> ; *.>*0' 21,' 6,' 6// 2' ,)*' 0*,*-?26, 12' 1 ' ,)6,' 6..*?D/ '620',)*' D .)1=.' 8)1' 8*-*' ,)*-*' 8*-*' 6?125',D*06.,' 1 ',D* ' 1-0*-' 8)1')6+*' 8-,,*2' ;=12' ,)*' . 0*' 8)>)' 86.',)*-*',- ; ?=)62,* ()*' 6/+ 2 .?' 1 ',)*') ; ->)' 5-*8' 6 2,*-' , // ' .>6->*/ ' ..-;55/*0* ,' 86.' 21,' .1' ?;>)' 1+*->1?*' 0 -*>,' 6..6;/,.' 6.' .;==/62,*0',)-1;5)',)*' ?1-*'*>>/*. 6., >6/ .= - ,'8)>)' =-*01?26,*0'6,',)*' *.,1-6, 12* 1-'6'>*2,;- '6 ,*-' ,.' +1 >*' 86.' 6/?1.,' ;2)*6-0' *L>*=,'6/125' 8 ,)',)*' --*5;/6- , *.' 1 ' &) ,*0*/0' 620',)*2' ,'%86.' ?;>)' ?1-*',)62' 1+*-D6/62>*0' D ',)*' -? 2 62 .?' 1 ' & *.^ /* ' & ,) 2',)*' /6..',>*2,;- ' ,')6.' D**2' -*+ +*0' 2' ,)*' 8- , 25.' 1 ' ?62 ' = 1 ; .' ?*2 ' D ; ,' >62' .>6->*/ ' D*' + *8*0' 6.')6+ 25' +*- ' /6-5*/ ' 6 *>,*0',)*' =-*+6/*2,' ,*6>) 25' 1 ' = .>1=6/62.' * ,)*-' 2' 4-*6,' -,6 2' 1-' 2' ?*- >6J' > ; " '$ (' Q4N'=' Q4NX' ()*' ;,>)' * 1-?*0') ; ->) ' ,)*' /6-5*-' =6-,'1 ',)*' 6=, ,.,' 620' 1 ',)*' & */.)' < *,)10 .,, ' 6-*' 6/.1' 6/+ 2 .,.% 6/+ . ; . ' ' 1-' 6/8 ,['6'>*/*D-6,*0' >)-1C 21/_5 .,A' 86.' D1?' 6,' 41- >)/*D>2' ( ) ; - 25 6 ' *D' K ' ' : *' .,; 0 *0' 6,' -629*2D6 ; .*2' 620' <650*D ; -5 ' 8)*-*')*' 56 2*0') .' D-*60' D ' . 25 25' 2',)*' .,-**,.' 620' /6 0' D ' *21 ; 5)',1' .; ==1-,') ?' 6',)*' >60*?' 1 ' : */?.,60,' 8) ,)*-')*' 8*2,' 2' R' 620',)*2>*' ,1' >=.>* : *' 56 2*0' 6'=-1 1 ; 20' 9218/*05*' 1 ' ? ; . >' ' >)-121/15 ' 6.,-121? ' 620' : *D-*8* : *' 0 *0' 6,' * =.>' 1+* KN' S ' /*6+ 25' D*. 0*.' 1,)*-' &1-9.' 6 1 ' & ' 4 ' ' ' 7 ' ' % ' ' " ' M - ; -0,' S ' ,1XT' 6/.1' 6 + ' ' ? ' M : * 0*/D* 7' S KX* ; ;') .' =- 2> =6/ 81-9' .' *2, ,/*0' ,% ' + 1' *L' ' 6 ; >,1- ,6,*' =1, . . ? ; -6' 62>,* >- =, ; -1A' *,' D .,1- >1C -; ?' 0*' 0 52 . . ?1-; ?'60' ?1, ; ?'/ ; ? 26- ; ?' >1*/>.C ,) ?' ,*?=1-6' *,' 6221.' 0 .,25 ; *2, ; ?J' M -629 1-,' 1/1' S ' 620' SQ X* 2',) .' 81-9')*' *20*6+1-*0',1' .; ==/ ',)*' 0* *>,.' 620' >1--*>,' ,)*' *--1-.' 1 ' >6/ 5*-' 620' 1,)*-' >)-121/15 .,. ' D ')6+ 25' -*>1 ; -.*' ,1' 6.,-1^ A 21? >6/ >6/>;/6, 12. ' 2' 1-0*-',1' L' ,)*' =-*> .*' ,?*' 1 ' 0 *-*2,' *+*2,.* 1-' ,) .' =; -=1.*')*' >6/>;/6,*0' ?1-*',)62' 12*') ; 20-*0' 620' ,' *>/ =.*.* B1)2' *=^ /*-' 6+ 0' 6-*; .' 620' 1,)*-.' 86-?/ ' 6,,6>9*0') .' 81-9' 12' ,.' 6==*6-62>*' D ; ,' >6/ 5*-' .=19*' 1 ' ,' 2',)*') 5)*.',*-?. ' 0*>/6- 25' ,' 2' 6' /*,,*-',1' .66>' 6.6;C D12',1'D*' ' " ' 6/+ . ; . .' 81-9.' 6-*' 2.*-,*0' 2',)*' 1?62' 20*L% ' : 1* *-' ; 0' ? 9 ' 1' ' K QT' 62022'6 + !' ' % ' % 6 ? 6/0 ; /*.' > 1' ' 8'6'-*/ 5 1 ; .' 1-0*-' 1 ; 20*0' 6D1 ; ,' 'D ' 1?;6/0 ; .' 8)1' D ; /,' 6' ?126.,*- ' 6,' 6?=1' <6/01/ ' 1-' 6?6/01/ ' 6' + //65*',) -, ' ? /*.' *6.,' 1 ' /1-*2>*' 620' D*/125 25',1' 6' /1-0' 26?*0' <6/01/ ' 8)*2>*',)*' 1-0*-' .1?*' , ?*' 6 ,*-',)*' 0*6,)' 1 ' 1?;6/0 ; .' ,119' .' 26?*% $=',1',)*' *20' 1 ',)*' /*+*2,)' >>2,;-EP7 ,)*' D1-*',)*' 26?*' 1 ',)*-' 1 ; 20*-' 620' 8*-*' >6//*0' 1?;C 6/0 2*.* ()*' ?129.' 1D.*-+*',)*' -;/*' 1 ' ,* *2*0 >,' ' 8 ,)' .1?*' 6/,*-6, 12.' 620' 600 , 12.' 620' >1?D 2*',)*' >1*21D ,>' 620' *-*? , >6/ / *% ,' -.',)* ' 81-*' 6 D/6>9' 0-*..T D ; ,' 1?;6/0 ; .')6+ 25' .**2' 6' + . 12' 1 ') .' ?129.' ?1 ; 2, 25' 6' /600*-' ,186-0')*6+*2' 620' 6//* >/1,)*0' 2' 8),*' >)625*0' ,)*' -')6 X ,' -1?' D/6>9' ,1' 8),*% 2',)*' 6*+*2,**2,D' 620' * 5),**2,)' >*2,;- *.' ,)*' 1-0*-' 86.' 0 + 0*0' 2,1' +*' >125-*56, 12. ' ; 20*-' .1' ?62 ' 5*2*-6/.' 1-' ?6A1-. J' 8 ,)' 6D1 ; ,' ' ?*?^ D*-.% ()*' / *' 1 ',)*.*')*-?,.' 8'6.' 1- 5 26// ' +*- ' .*+* >T D ; ,' / 9*' ?1.,' 1,)*-' 1-0*-.' 6.' ,'5-*8'- >)' , D*>6?*' >1--;=,% ()* ' 8*-*'-*C 1-?*0' 2' N ' D ' ;^ 5*2*' ' 620' 656 2' 2' N ' 2*8' 1-0*-' 8 ,)' 6' .,- >,*-' -;/*' 86.' 1-?*0' D ' 4 ; . , 2 62' 2' K 620' . 2>*' ,)6,' , ?*' D1,)' 0 + . 12.' *L 7,' 20*=*20*2,/ % ()*' 6==*6-' 2*+*-',1')6+*')60' 62' *.,6D/ .)?*2,' 2' 25/620% 2' -62>*' ,/ *-*' 86.' D ; ,' 12*' >12+*2,' 1 ' 6?6/0 ; /*.' 1-' 6?6/01/ ' + [% ' 6,' 4-1.D1 . ' 2*6-' 6-^ .% ()* ' 8*-*' 1 ',)*' >125-*56, 12' 1 ' ' ; -' 60H+' 1 ' 12.1/6, 12%J' ()*' 6?6/0 ; /*' >1*21D ,*. ' ,1' 8)1?' 1=*' 4-*51- ' d ' D*/125*0')6+*',)*' -'=- 2> =6/' 12^ +*2,' 6,' 1?*' 620' 6' *8' ?1-*')1 ; .*.' 2' ,6/ ' 8 ,)' 6D1 ; ,' 12*') ; 20-*0' ?*?D*-7' ()*')*-?,.' 6-*' 6' / ,,/*' ?1-*' 2 ; ?*-1 ; . ' >1 ; 2, 25' ; =86-0I1 ' ,81') ; 20-*0' ?*?D*-. ' 8 ,)' ,81' ?6A1-.' 6,' 6?6/01/ ' 620' / /12,*' 1-126' 2*6-' *-;56% ()*-' >12+*2,.' 6-*' / 9*8 .*' 6/' 2' ,6/ ' 80,)' ,)*' *L>*=, 12' 1 ' 12*' 2' 1/620 ' ' ()*-*' 86.' 6/.1' 6' >125-*56, 12' 1 ' 6?6/0 ; /*' 2 ; 2.' ' 1 ; 20*0' D ' ,)*' 1 ; -,)' 5*2*-6/' 1 ' 6?6/0 ; /*.' ; 01/C =) ; .' 2' QS ' 6,' < ; >*//621' 2' (; .>62 % ()* ')60' 2',)*' .*+*2,**2,)' >*2,; 7',8*2, C 1 ; -' >12+*2,.' 1 ' 8)>)' 2' QS ' 12/ ' ,8 1' 8*-*' /* , ' 6,' 1?*' 620' 6,' /1-*2>*% ' 7 *)-' ?)' " 1' ' . %T : */ 1,' , 0'5 ' ' T 620 ; 2 ' 6 !' ' ' S% 6?D-05*' <6? >-=,' : . 4' 4 .' -1?' ,' =-*.*2,' =/6>*' 1 '0*=1. ,X' >6//*0' 6/.1' , .' 8 -!' M -1?' ,' 0*=1. ,1-X' ; . ; 6// ' 0*. 526,*0' 6.' ' ',)*' 41.=*/.' 620' >,. ' .' 12*' 1 ',)*' ?1.,' ?^ =1-,62,' ; 2> 6/' < % 1 ',)*' % (* -' >12,6 2.' ,)*' 4-**9',*L,' 8 ,)' 6' 6, 2',-62./6, 12' 12',)*' 1==1. ,* =65*' 1 ',)*' *2, -*' 1 ; -' 41.=*/.' M 2',)*' 1-0*-' <6,,)*8 B1)2' <6-9' ; 9*X' 620' >,. ' 8 ,)' .' .*+*-6/' 56=.' M <6,,' ' CK T' + ' K C L ' KT' LL+ ' KC KT' B1)2' ' C ' KST' >,.' + ' KRCL ' T' LL ' KC C Q' 8)>)' =6.^ .65*' .**?.' ,1')6+*' D**2' *L,62,' 2' & *,.,* 2 .' , -6*AT' LL ' CK ' KRCLL+ ' N ' 2' 6// 8)>)',)*I' ? +' .' 8)1// '6D.*2,T' 620' <6,,' ' C ST' <6-9' 9+ ' CK T' B1)2' L+ ' CLL ' N' 8)*-*',)*' 4-**9')6.' D**2' .;=^ =/ *0' D ' 6' .>- D*' 21,' *6-/ *-' ,)62',)*',*2,)' >*2,;- T 7D*. 0*.' 6D1 ; ,' 6.' 2 ; ?*-1 ; .' *? .. 12.' 620' . ? /6- -*.C ',1-6, 12.' 1 ',)*' U1,% 8' D ; ,' ?1.,/ ' 6,' 0 *-*2,' =/6>*.' -1?',)*' 1-*51 25X' 620' 6' *8' +*-.*.' 1 ',)*' >6,)1/ >' = .,/*.' MB1)2' ' C ' 2',)*' 6, 2' 12/ X' 8)>)' 12>*' .,110' *2, -*' /*, 8 **2',)*' 41.=*/.' 620' >,.% ()*' < % .' 6' _ ; 6-,1' +1/ ; ?*' ' 2>)*.')5)' D ' ' D-160 >12. ., 25' 1 ' '/*6+*.' M '1',)*?' ?1-*' 1-'/*..' ? ; , C% /6,*0' 620' R' 1,)*-.' D ' /6,*-')620.X' 8' ,)' D ; ,' 12*' >1/C ; ?2' 12' *6>)' =65*' ,)*' 4-**9' D* 25' 12' ,)*' /* ,' =65*' 620',)*' 6, 2' 12',)*' - 5),% ()*' +*//; ?' .' 21,' +*- ' 2*% ()*-*' 6-*' NN' / 2*.' 12' *6>)' =65*' 620',)*' 6-*' 1 ' ; 2*_ ; 6/ /*25,) ' ,)*' < % D* 25' 6--625*0' 2' >/6 ; .*.' 1-' '620',)*' >1--*.=120 25' 12*.' 2',)*' 6,% 620' 4-' 6.' 2*6-/ ' 6.' =1.. D/*' 1==1. ,*' *6>)' 1,)*-% B7,' D66' 21,' ,)*' /6-5*') 1 + ' 1-' ; .*D 66' >6212.' D ; ,' 12/ ' ,)*' ? ?12 62' .*>, 12.' 620',)*.*' 1 ,*2' 2>1--*>,/ ' =/6>*0' 1D+ 1 ; ./ ' D I' 6' /6,*-')620% ()*' /*6+*.' 6-*' 6--625*0' 2' _ ; -*.' 1 ' ' .)**,.' '/*6+*.' X*6>)' ,)*' 2 ; C' ?*-6/ . 526, ; -*.J' 1 ' 8) >)' 6-*' .*,' D ' ,)*' -.,')620' /18' 2',)*' ?6-5 2' 6,',)*' 11,' 1 ',)*' /6..; 65*' 1 ' *6>)% ,' 1- 5 26// ' >12. .,*0' 1 ' ; =86-0' 1 ' S ' _ ; -*. ' 620' 12*' 1 ',)*' 56=. ' 8)>)' 1? ,.' S ' *20 25' 8 ,)' N' B1)2' ' 81 ; /0' D*' ,11' 5-*6,' 6' .=6>*' 1-' 6//',)*' >6212 >6/ =.^ ./*.' ?*-*/ % ()*' -.,' ,)-*' / 2*.' 1 '*6>)' D119' 8*-*' 8- ,,*2' 2' D- 5),' -*0' 29' 8)>)' &6.' 6/.1' 1>>6. 126// ' *?=/1 *0' *//.*8)*-*' D ' 86 ' 1 ' 1-26?*2,% ()*' >)6-^ 6>,*-.' D*,-6 ' 6' /6,*-' 65*',)62' 10>*.' /*L620- 2 ; 6' 6, >62 ; .' 620' =)-6*?' M ' 620' X' 620' >6=.6/.' 0>>;-' 6.' 2' 10*L' 26 , >; .' M ,X% ,.' /*L620- 2*' 1-?.' 81 ; /0' 6-5 ; *' 62' 5 =, 62' 1- 5 2' D ; ,')*' 6>,' 1

M

"

,) *' 6, 2' ,-62./6, 12' .)18.',)6,' ,' .'6' & * 1c' *?'>1= ' ,' .'6.. 52C *0' 8 ,)' 5-*6,' =-1D6C D / , ' ,1',)*' . L,)'>*2C ,;- ' ,' .'>) * / '-*C ?6-99D/*' 1-' ,.' D1/0 620'*L,*2. +*' 2,*-=1^ /6, 12. ' 6?1;2, 25' ,1' .1?*' . L' ;20-*0' 2' ,)*' >,.' 6/12*' 12' 8) >)' 6>>1;2,' ,')6.' D**2' >6;, 1; ./ ' *?^ =/1 *0' D ' >-, >.' 21,^ 8 ,) .,620 25' ,.' 5-*6,' 62, _-' :8 3! () .' < ' 86.' =-*^ .*2,*0' ,1' 6?D- 05*' $2 +*-. , ' 2' Q 'D ' ()*101-*' *[6' 8)1' .6 .') *'1D,6 2*0' ,'0;-^ 25' ,)*' -*2>)' 86-.' 2' SK' 8)*2' ,' 86.' 1;20' 2' ,)*' ?126.^ ,*-' '1 ' ,' -*2.*;.' 6, 12. ' 620' 01;D,/*..' -*.>;*0' D ' .1?*' : ;^ 5;*21,' .1/0 *-' ,' .**?.',1')6+*'D**2',)*' .6?*'21,*0'6.' C 2',)*' ?6-5 2' 1 ' ,*=)*2. 7 ,) -0' *0 , 12' ,' 86.' -.,'>1?=/*,*/ ' L6?^ 2*0'D ' 6,- >9' 1;25' ,)*'/ D-6- 62'1 ')6-/*.' ' 620' 2*L,' >1//6,*0' D ' $.)*-' 1-'f 6/,12 .' * " ' -' =/ 25' =;D/ .)*0' ,' 2' ;// -1?' 6>C. ? /*' , 7=*. D;' 8 ,)',)*' ;2>- , >6/ 2.*-, 12' 1 ' 2624F7 1,)*' ?6-5 26/ -*60 25.' D ' ,)*' .*>120')620' 2,1' ,)*' ' I ' -+ ' ; / ' =' " ' RN' K' +1/.' 1/%X' >- +*2*-')6.' . 2>*' -*=- 2,*0' ,' ?1-*' >6-* ;// ' 2' 1-0 26- ' , =*. ' 8 ,)' 2,-10;>^ , 12 ' 6221,6, 12. ' 620' *L6>,' 6>C. ? /*.' I 9 ' ; / ' *,>%' 120' QS ' +1X% ' >- +*2^ *-' D ! =' RS' ._' (-*5*//*.' 2' : 1-2* .' ' !' M2* 8' *0%X' + ' =' SR' ._' **' $L / ' :8 3! 6?D- 05*' /6, 1-?' 6'.A .,*?' 1');->)' 0 .^ > =/ 2*' 65-**0' ;=12' D ' ,)*' */0*-.' 620' ?*..*25*-.' 1 ' ,)*' *8' 25/620' >);->)*.' 6..*?D/*0' 2' .7?10' 6,' 6?D-05*' S Q' ()*' 1DA*>,'1 ',)*' . 210' 86.',1'0*^ 2*' 6>>;-6,*/ ',)*' *>>/*. 6., >6/' =1. , 12' 1 ',)*' *8' 25/620' >);->)*.' 2' ?6,,*-.' 1 ' 6 ,)' ,)*' 8*-*' 65-**0'D;',)*-*' 8*-*'0 *-*2>*.' 2' -*56-0',1');->)' 51+*-2?*2,' .1?*'D* 25' 2>/ 2*0',1'6'?1-*' .,- >,' -*.C D !,*- 62 .?' .1?*',1'6'?1-*'/11.*' 20*=*20*2> W8)/*' ,)*' 5-*6,'?6A1- , ' 8*-*' 125-*56, 126/ ,,.' .'-*56-0.' ',)*' . ?10'0*>/6-*0',)*' -'60)*^ . 12',1',)*' & *.,? 2.,*-' 12 *.. 12' D;',)*' '0 0' 21,' 6>>*=;',)6,'>12 *.. 12' 2'-*56-0',1'0 .> =/ 2*' D;','=-1^ >**0*0',1'>12.,-;>,' 6'=/6, 1-?' 1 '8) >)' 8*' 5 +*',)*' 1//18 25'6D.,-6>,d ,'0*>/6-*.',)6,',)*' '1 ');->)' 51+*-2?*2,' .' 12*' ? ? ;,6D/*' 620' =-*.>- D*0' 2',)* & 1-0' 1 ' 410' () *');->)' 2' 5*2*-6/ >12. .,.' 1 ',)*' 8Q1/*' >1?=62 ' 1 ',)*' -*0**?*0' D;',)*' .,6,*' 1 ',)*' + . D/*');->)' ? / ,62, ' 86/9 25' 2' 1-0*-' 86.' D* 1-*' ,)*' /68*'*>121? >6/' 1-' 2' 6? / *.' ;20*-' ,)*' /68 ' 26^ , 126/' . 2>*')- .,' 12/ ' >125-*56, 126/' 7()*' ?6,^ ,*-' 1 ',)*' + . D/*');->)' 2' _;6/, ' >12. .,.' 1 ' .6 2,.' D ' >6// 25' ' 620' 2' _;62, , ' 6' >);->)' 1;5),' 21,',1' D*' 1 '5-*6,*-'2;?D*-',)62' ?6 ' 1-0 26- / ' ?**,',15*,)^ *-' >12+*2 *2,/ ' 2' 12*' =/6>*' 21-' *8*-',)62' >62' >12C +*2 *2,/ I >6-- ' 12' >);->)' 81-9' ()*' .6 2,.' ?;.,')6+*' 6'+ . D/*' =1/ , >6/' ;2 12' 6?125',)*?.*/+*. ' 620' ,) .' 1-?' .',)*' + . D/*' >1+*262,' 8)*-*D ',)* I 5 +*' ,)*?.*/+*.';=',1',)*' 1-0 ' ,1',)*' 1D.*-+ 25'1 ',)*' 1-^ 0 262>*.'1 ')-..',15*,)*-' 2',)*' .6?*.1> *, 7 ()*' % '% ' 2',)*');->)' D*/125.',1'B*.2.')-.,' .;D1-0 26,*' =18*-' 6.'*L,-61-0 26- W,1'6=1.,/*.' *,>%' 6.' 1-0 26- %,1'*+*- '=6-, >;/6->);->)' ()*' ' 2' 6' >);->)' 6-*' 2*>*..6- ',1' ,.' 8*//CD* 25' D;',' 21,',1' ,.' *L .,*2>*' ()*' *L,-61-0 26- W6.' 6=1../*.' 6-*' ,*?C =1-6- 7' ,)*' 1-0 26- W8)>)' 6-*' */0*-.' M1-' D .)1=.X' 620' 0*6>12.' 6-*' =*-=*,;6/' ()*-*' .' 6'0 *-*2>*' D*^ ,8**2',*6>) 25' 620' -;/ 25' ! ()*' -;/ 25'*/0*-' ,' ,1' 6.. .',)*' ,*6>) 25' */0*-' 2' -;/ 25' ()*' (1 >*' .'>12 2*0',1',*?=1-6/ , *.');->)' '6-*' */*>,*0' X7,)*' >);->)' 2' 8)>)',)*' '6-*',1' ? 2 .,*-' 620' ,)*' >);->)' ?2 ' 0*=1.*' 6.' 8*// 6.' */*>',)*?' ,)1;5)',)*' 60+ >*'1 '2* 5)D1- 25'>);->)*.' 2' .;>)'>6.*' .)1;/0' D*' .1;5),');->)'1 >*-.' 6-*',1' D*' 1-06 2*0' ',)*-*/*>,12' D ',)*' >);->)' 1-0 26, 12' .' ,)*' .1/*?2'=;,, 25'6' ?62' 2,1') .'=/6>*');.' 01*.' 21,'>12^ .,;,*' 62'1 >*-' .',)*' =*1=/*' ?6 '*/*>,',)* 7?6 ' 6/.1' 1-06 21' ,)1;5)' 8)1-*',)*-*' 6->'*/0*-.',),*.*' 6.' -*=-*.*2, 25',)*' >);->)' 6->',1' =*- 1-?',)*' .*-+ >*' 1 ' ?=1. , 12' 1 ')620.' 2' -*.=*>,',1')-.,',)*')*60' ,)*' ->)' .' 6' ?126->) C' 2' -*.=*>,',1',)*' D-1,)*-^)110',)*' D10+',' -*.*?D/*.' 6' 0*?1>-6>X' 2' -*.=*>,' ,1',)*' -*7P ,*- W,' .'62'6- .,1>76> 7' ;->)' 51+*-2^ ?*2,'1-'-;/*' .' =/6>*0' D ')-.,' 2',)*' 1 >*-.' 1 ',)*' >);->)' 8)1' 6-*' .;DA*>,' ,>',)*' =18*-' 1 ',)*' >);->)' 8)1'=-121;2>*'.*2,*2>*' 8 ,)'>12.*2,'1 ',)*' >);->)% 2' - 5),' 60? 2 .,-6, 12' 6//>);->)' 6>,.' =-1>**0' 6 ,*-',)*' ?622*-' 1 '6' ? L*0' 60? 2 .,-6, 12' ()*-*' 6-*' -;/*.' 6/.1' 1-',)*' .;==1-,' 1 ');->)' 1 >*-.' 60^ ? .. 12' 620' 0 .? .. 12' 1 '?**D*-.' *L>1??;2 >6, 12' *,>%' 6//' D6.*0' 12',)*' =-*>*0 25' =- 2> =/*.T' 620' ,' .' 0*>/6-*0',)6,' >);->)*.' ,)1;5)' 0 ., 2>,' 620' *_;6/' 1;5),',1'=-*.*-+*' >);->)'>1??;2 12' 8 ,)' *6>)' 1,)*-' .,' D ' 86 ' 1 ' ?;.,;6/' >6-*' 0' D ' 86 ' 1 '>12.,;,6^ , 12' NO' D ' 86 ' 1 '60?12 , 12' ,)' D ' 86 ' 1 '=6-^ , > =6, 12' 2' 6>,.' 1 ' 81-.) = '*,>%' ,)' D ' 86 ' 1 '-*>^ 1?**206, 12' 4,)' D ' 86 ' 1 '-*/ * ' 620' .;>>1-' 2' 56,)*- 25'6' >);->)' ,) .'>1??;2 12' .)1;/0' 6/86 .' D*' 6,,*20*0',1% 210.' 6>>1-0 25',1',)*' =6,,*-2C1 ' -,.' L+' ,)1;5)' 21,2*>*...6- ',1',)*' D* 25' 6-*' ;.* ;/ 1-',)*' 8*//C/X*C 25' 1 ',)*' >);->)*.' .*20 25' 1-,)*'*/0*-.' 620' 1,)*-' ?*..*25*-.',1' ?**,',15*,)*-' 2',)*' 26?*' 1 ')-.,' ' ?65.,-6,*')6.' =18*-',1' >6//' 6' . 210' D;',)*' >12.,;, 25' 1 '6' . 210' .' 6' >);->)' 6>,' %+210.' 6-*' 21,' 1' *L*-> .*' >);->)' >*2.;.*.'D 786 ' 1 '0 .> =/ A*' D;',1'0*D6,*' 620' 0*,*-? 2*',)*' =- 2> =/*.' 12' 8)>)' .;>)' 6>,.' 6-*' D6.*0' 620' .1' 6-' 6.'>12.1262,'8 ,)' 410 .' & 1-0',)*' 6-*',1' D*' -*>* +*0' 8 ,)' -*+*-*2>*' 620' .;D? .. 12% 210.' 6-*' 21,'=*-?62*2,'*>>/*. 6., >6/' D10*.' 2' 6-, >/*' 12',)*' =18*-' 1 '> + /' ?65 .,-6,*.' 2' ?6,*-.' *>>/*. 6., >6/' >1?^ =/*,*.',)*' =/6, 1-?' 6+65*.' " %1'+1/' 1.^ ,12' >0' ' $ " +' 1:')*00' # ' '' 1' QK' *>' ! 6?D .*.'M 2VVN, FF>' 6' 42*> [*0' 1-?' 1 ',)*' 1/0' *-.>') * ,' 6' D6-0 J' 68/2.12' # ' X',)*' .*>120' *-. 62' ?126->)' 1 ',)*' 26?*' 86.' ,)*' .12' 1 ' -;.',)*' 4-*6,'MD;'D ' 8)6,' ?1,)*-' .' 0 .^ =;,*0X' 8)1?')*' .;>>**0*0' % %' N' 2',)*' ,)' *6-`1 ') .'-* 52')*' 2+60*0' 5 =,',69 25'1 *2>*' 6>^ >1-0 25',1' : *-101,;.'M ' X' 6,',)*' -* ;.6/1 ' ?6. . ,)*' 6,)*-'1 ' .6??*2 ,;. ',)*',)*2'-* 52 25' 5 =, 62



are right: "Job's beast is a monument of God's mercy!"

1. The Bactrian camel (*camelus Bactrianus* of authors) is large and robust; naturally with two hunches, and originally a native of the highest table-lands

Bactrian Camel.

of Central Asia, where even now wild individuals may be found. The species extends through China, Tartary, and Russia, and is principally imported across the mountains into Asia Minor, Syria, and Persia. It is seldom seen at Aleppo (Russel, *N. H. Aleppo*, ii, 170). One appears figured in the processions of the ancient Persian satrapies among the bas-reliefs of Chehel Minar, where the Arabian species is not seen. It is also this species which, according to the researches of Burckhardt, constitutes the brown Taous variety of single-hunched Turkish or Túrki camels commonly seen at Constantinople, there being a very ancient practice among breeders, not, it appears, attended with danger, of extirpating with a knife the foremost hunch of the animal soon after birth, thereby procuring more space for the pack-saddle and load. It seems that this mode of rendering the Bactrian cross-breed similar to the Arabian camel or dromedary (for Burckhardt misapplies the last name) is one of the principal causes of the confusion and contradictions which occur in the descriptions of the two species, and that the various other intermixtures of races in Asia Minor and Syria, having for their object either to create greater powers of endurance of cold or of heat, of body to carry weight, or to move with speed, have still more perplexed the question. From these causes a variety of names has arisen, which, when added to the Arabian distinctions for each sex, and for the young during every year of its growth, and even for the camels nursing horse-foals, has made the appellatives exceedingly numerous. We notice only—

2. The Arabian camel or *dromedary* (*camelus dromedarius* or *Arabicus* of naturalists, בִּכְרָה, *be'ker*; and female and young בִּכְרָה, *bikrah'*, both "dromedary," Isa. lx, 6; Jer. ii, 23) is properly the species having naturally but one hunch, and considered as of Western Asiatic or of African origin, although no kind of camel is figured on any monument of Egypt (Wilkinson, *Anc. Eg.* i, 234), not even where there are representations of live-stock such as that found in a most ancient tomb beneath the pyramid of Gizeh, which shows herdsmen bringing their cattle and domesticated animals to be numbered before a steward and his scribe, and in which we see oxen, goats, sheep, asses, geese, and ducks, but neither horses nor camels. That they were not indigenous in the early history of Egypt is countenanced by the mythical tale of the priests describing "the flight of Typhon, seven days' journey upon an ass." We find, however, camels mentioned in Genesis xii; but being placed last among the cattle given by Pharaoh to Abraham, the fact seems to show that they were not considered as the most important part of his donation. This can be true only upon the supposition that but a few of these animals were delivered to him, and therefore that they were still rare in the valley of the Nile, though soon after there is abundant evidence of the nations of Syria and Palestine having whole herds of them fully domesticated. These seem to imply that the genus Camelus was originally an inhabitant of the elevated deserts of Central Asia, its dense fur showing that a cold but dry atmosphere was to be encountered, and that it came already domesticated, toward the south and west, with the oldest colonies of mountaineers, who are to be distinguished from earlier tribes that subdued the ass, and perhaps from others still more ancient, who, taking to the rivers, descended by water, and afterward coasted and crossed narrow seas. Of the Arabian species two very distinct races are noticed; those of stronger frame but slower pace used to carry burdens varying from 500 to 700 weight, and travelling little more than twenty-four miles per day; and those of lighter form, bred for the saddle with single riders, the fleetest serving to convey intelligence, etc., and travelling at the rate of 100 miles in twenty-four hours. They are designated by several appellations, such as *Deloul*, the best coming

Arabian Camel.

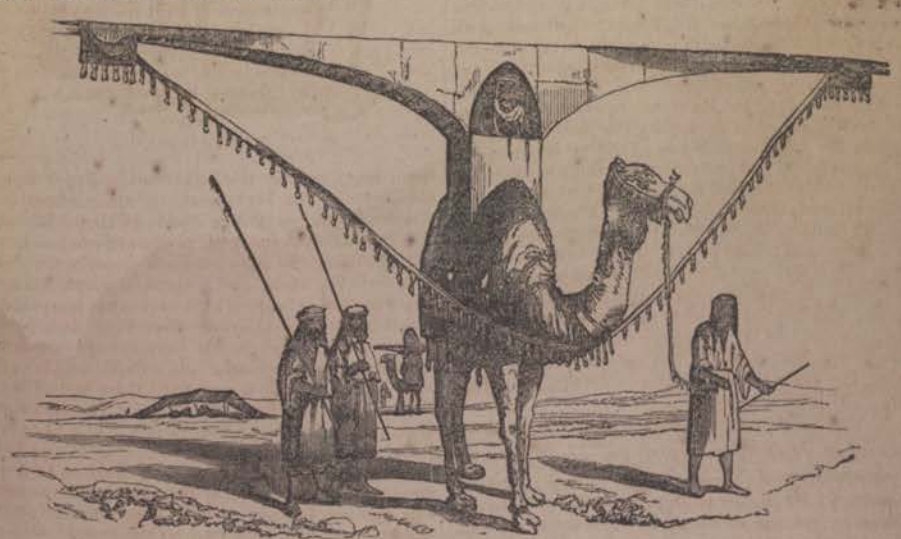
from Oman, or from the Bishareens in Upper Egypt; also *Hejin* by the Turks, and still other names (e. g. *Ashaary*, *Maherry*, *Reches*, *Badees* at Herat, Rawahel, and Racambel) in India, all names more or less implying swiftness, the same as δρομάς, *swift*; the difference between them and a common camel being as great as that between a high-bred Arab mare and an English cart-horse (Layard, *Nineveh and Bab.* p. 292). Caravans of loaded camels have always scouts and flankers mounted on these light animals, and in earlier ages Cyrus and others employed them in the line of battle, each carrying two archers. The Romans of the third and fourth centuries of our era, as appears from the "*Notitia*," maintained in Egypt and Palestine several *alæ* or squadrons mounted on dromedaries; probably the wars of Belisarius with the northern Africans had shown their importance in protecting the provinces bordering on the desert; such was the *ala dromedariorum Antana* at Ammata in the tribe of Judah, and three others in the Thebais (comp. 1 Sam. xxx, 17). Bonaparte formed a similar corps, and in China and India the native princes and the East India Company have them also.

It is likely the word אַחַשְׁתְּרָנִים, *achashteranim'* (Esth. viii, 10, 14), rendered "camels," more properly signifies *mules* (being explained by the addition "sons of mares," mistranslated "young dromedaries"), and implies the swift postage or conveyance of orders, the whole verse showing that all the means of dispatch were set in motion at the disposal of government (see the dissertation on this word by Schelhorn, in the *Misc. Lips.* x, 231–44). On the other hand, רֶכֶשׁ, *re'kesh* (translated "mules" in the above pas-

sage, and rendered "dromedary" in 1 Kings iv, 28; "swift beast" in Mic. i, 13), we take to be one of the many names for running camels (as above), used to carry expresses; or post-horses, anciently *Asiandi* or *Astandi*, now *Chuppar* or *Chuppaw*, which, according to Xenophon, existed in Persia in the time of Cyrus, and are still in use under different appellations over all Asia. The *kirkaroth'* (כִּרְכָּרוֹת, rendered "swift beasts") of Isa. lxvi, 20, were probably also a kind of dromedary.

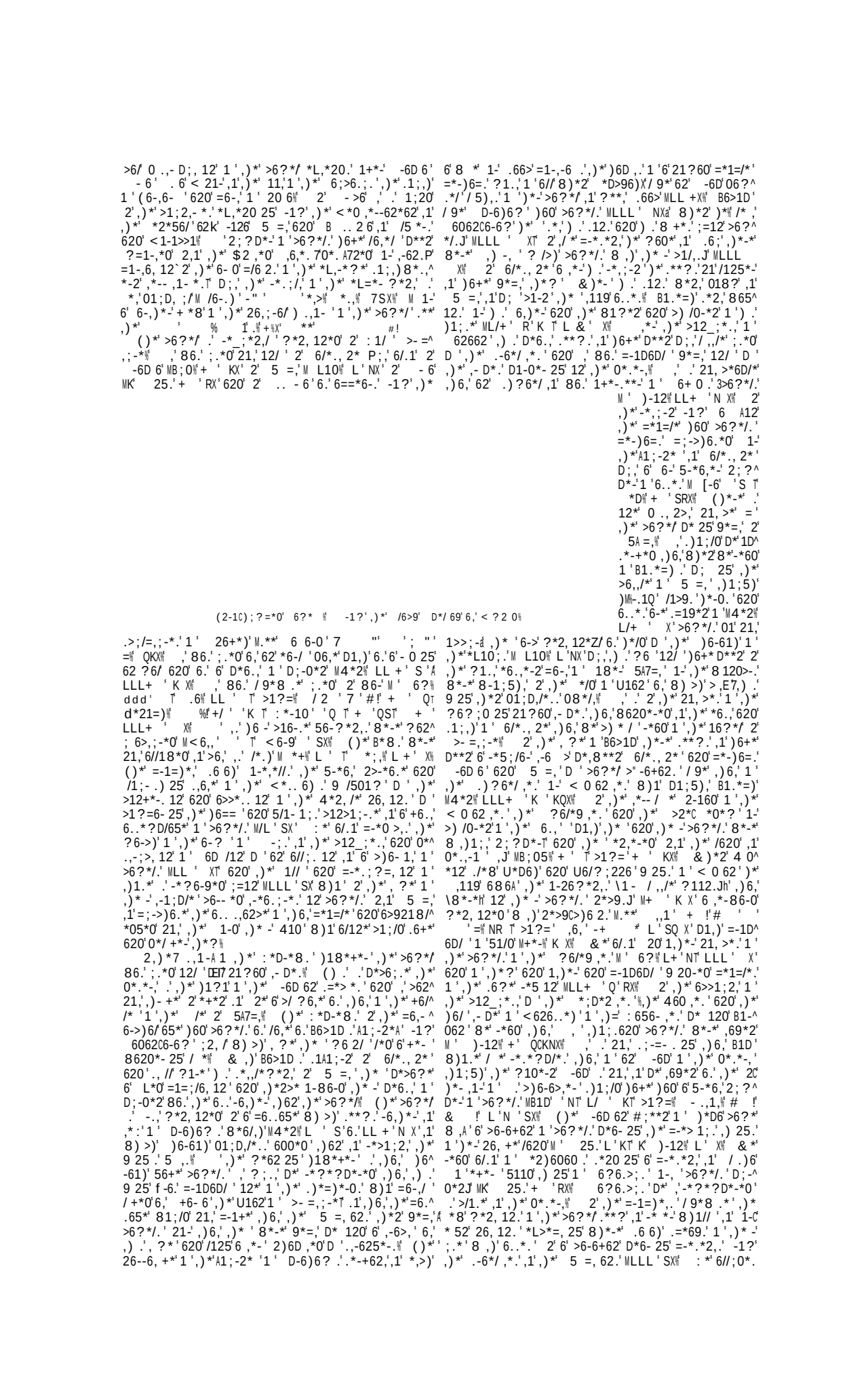
Camel for Baggage.

All camels, from their very birth, are taught to bend their limbs and lie down to receive a load or a rider. They are often placed circularly in a recumbent posture, and, together with their loads, form a sufficient rampart of defence against robbers on horseback. The milk of she-camels is still considered a very nutritive cooling drink (Aristot. *Hist. Anim.* vi, 25, 1; Pliny, *N. H.* xi, 41; xxviii, 9), and when turned it becomes intoxicating (such, according to the Rabbins [Rosenmüller, *Not.* ad *Hieroz.* i, 10], was the drink offered [Judg. iv, 19] by Jael to Sisera [comp. Josephus, *Ant.* v, 5, 4]). Their dung supplies fuel in the desert and in sandy regions where wood is scarce; and occasionally it is a kind of resource for horses when other food is wanting in the wilderness. Their flesh, particularly the hunch, is in request among the Arabs (comp. Prosp. Alp. *H. N. Æg.* i, 226), although forbidden to the Hebrews, more perhaps from motives of economy, and to keep the people from again becoming wanderers, than from any real uncleanness. Camels were early a source of riches to the patriarchs, and from that period became an increasing object of rural importance to the several tribes of Israel, who inhabited the grazing and border districts, but still they never equalled the numbers possessed by the Arabs of the desert. In what manner the Hebrews derived the valuable remunerations obtainable from them does not directly appear, but it may be surmised that by means of their camels they were in possession of the whole trade that passed by land from Asia Minor and Syria to the Red Sea and Egypt, and from the Red Sea and Arabia toward the north and to the Phœnician sea-ports. On swift dromedaries the trotting motion is so hard that to endure it the rider requires a severe apprenticeship; but riding upon slow camels is not disagreeable, on account of the measured step of their walk; ladies and women in general are conveyed upon them in a kind of wicker-work sedan, known as the takht-ravan of India and Persia. In some cases this piece of female equipage presents almost a formidable appearance.



A Shammar Lady on a Camel.

The camels which carried the king's servants or guests, according to Philostratus, were always distinguished by a gilded boss on the forehead. The camel, being a native of Asia, from the earliest ages to the present day has been the chief means of communication between the different regions of the East, and from its wonderful powers of endurance in the desert has enabled routes to be opened which would otherwise have been impracticable. "Their home is the desert; and they were made, in the wisdom of the Creator, to be the carriers of the desert. The coarse and prickly shrubs of the wastes are to them the most delicious food, and even of these they eat but little. So few are the wants of their nature, that their power of going without food, as well as without water, is wonderful. Their well-known habit of lying down upon the breast to receive their burdens is not, as is often supposed, merely the result of training; it is an admirable adaptation of their nature to their destiny as carriers. This is their natural position of repose, as is shown, too, by the callosities upon the joints of the legs, and especially by that upon the breast. Hardly less wonderful is the adaptation of their broad cushioned foot to the arid sands and gravelly soil which it is their lot chiefly to traverse . . . . . As the carriers of the East, the 'ships of the desert,' another important quality of the camel is their sure-footedness" (Robinson, *Researches*, ii, 632–635). The present geograph-



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( )*' >6?*/ .' >/6. . *0' D ' <1. *.' 6?125' ; 2>/*62' 62^ ?6/.' M *+% L A' X' D*>6; . *')*' >)*8*, ' ,)*' >; 0' D; , ' 0 + 0*,)'21, ' ,)*')11 %J' < >)6*/ .' A; . , / '-*?6-9. ' ,)6, ' 2' ,)*' >6.*' 1 ' >*-, 6 2' _ ; 60-; =*0.' 6' 01; D, ' ?6 ' 6- .*' 8)*,)*-' ,)*' 01' ;// ' 0 + 0*' ,)*')11 '%1-' -; ?26, *% 2' 6, 2 ' ' /10 ; .' \ , *P% SS A' * *-' \ *5 1?% S Rh' *, [/*2' \ , *D% S NhX% <62 ' *L=1. , 1 -. ' 6-*' 1 '1= 2 12' ,)6, ' ,)*' 6//; . 12 ' .' 21, ', 6',)*' >6?*/ ' D; , ' , 1' ,)*' >6D/*' D ' 8)>)' 62' 62>)1-' .' ?60*' 6. /, 1',)*' .)=' >)62725') %*O ' ' !', >') %O ' ' .' D; , ' 1-' ,) .' ,)*-*' .' 21' >- , >6/ 1; 206, 12T 620' 5), C' 11, ' 620' 1,)*-. ')6+*' .)182',)6, ' , 1' .=*69' 1 '6' >6?*/' 1-' 62 ' 1,)*-' /6-5*' 62 ?6/ ' 6. ' 51 25',)-1; 5/-',)*' * *' 1 '6' 2**0/*' 86. ' 6' =-1+*-D 6/ *L=-*.. 12 ' ? ; >)' ; . *0' 2' ,)*' B*8 .)' .>)11/. ' 0*21, *' 6',) 25' +*- ' ; 2; . ; 6/ 1-' +*- ' 0 >; /,% ()*-*' .' 6' . ? /6-' *L=-*.. 12' 2',)*' 1-62a' ()*' ?=1; . ' 8)1' 2') .' 6--1562> 7 .)6// 6>>; .*' 1 ; -' 01>, - 2*' 1 ' 6/. , ' .)6// 20',)*' 56, *.' 1 ')*6+*2' .) ; , T 21-'3.)6//)*' *2, *-' ,)*-*' , //' 6' >6?*/ .)6//=6. . ' ,)-1 ; 5)',)*' * *' 1 '6' 2**0/*% ' . ' ,) ; . ' ,)6, ' 8*' .)6// -*>1?=*2. *',)*' 8 >9*0%J' 1D*-, . ' ?*2, 12. ' 6' =6-6//*/ =-1+*-D' ; . *0' 2' 20 6', 1' .)18',)*' 0 >; /, ' 1 ' 6>>1?=/ .) 25' 62 ',) 25a' B; . , ' 6. ' .112' 8 // ,)*' */*=)62, ' =6. . ' ,)-1; 5)' ,)*' .=1; , ' 1 ' 6' 9*, , /*%J

21,)*-' =-1+*-D 6/ *L=-*.. 12' 1>>; -. ' 2' <H , , % LL ' K a' J' , -6 2' 6, '% +d 78X' 6' 526, '620' . 86//18' 6' >6?*/%J' -% 06?' /6-9*' =-1+*.' ,)6, ' 6, J')6. ' D**2' . ; D. , ^ , ; , *0' 1-' ' 1' ; , J' D ' 6' , =15-6=) >6/*' *--1-' 2' ,)*' *0 ^ , 12' 1 ' S ' 2' 1 ; -' +*-. 12 ' 1 ' ; , J' 6>>; -- 25' 2' ->)^ D .)1=' 6-9*-. ' 1 ' SQ% ()*' -* *-*2>*' . ' , 1' 6' >; . ^ , 1?' ,)*' B*8 . ')60' 1 ' /, *- 25',)* -' 8 2*' 1-' *6-' 1 ' . 86//18 25' 62 ' 2. *>, ' 1-D 00*2' D ' ,)*' /68' 6. ' ; 2^ >/*62% ()*' *L=-*.. 12' . ' ,)*-* 1-*' , 1' D*', 69*2') C' =*-D1/ >6// ' 620' , 1' ?69*' ,)*' 62, ,)*. . ' 6. ' . , -125' 6. ' =1. . D/*' , 81' ,) 25. ' 6-*' . *'*>, *0' ,)*' . ?6//*. . ' 2. *>, ' 620' ,)*' /6-5*. , ' 62 ?6/% ()*' =-1+*-D' . ' 6==/ *0' , 1' ,)1. *' 8)1' 6-*' . ; =*-. , , 1 ; . / '62L 1 ; . ' , 1' 6+1 0' . ?6// 6 ; /, . ' 620' *, ' 01' 21, ' . >-; =/*' , 1' >1?? ' ,)*' 5-*6, *. , ' . 2. %

' % ' M-=, L 4') % #6' ?6, *- 6/ 1 ' >/1,) 25' B1)2' ,)*' 6=, . , ' 86. ')6D, *0' 2' -6 ?*2, ' 1 ' >6?*/. ')6 -' MB /6, , % ' T < 6-9' SX' 620')6-0 2' . , 6, *. ' ,)6, ' . ; >)' 56-?*2, . ' 6-*' 81-2' D ' ,)*' ?10*-2' 0*-+ .)*. % ()*-*' .' 6' >16-. *' >/1,)' ?60*' 1 ' >6?*/. I')6 -' 2' ,)*' 6. , ' 8) >)' . ' ; . *0' 1-' ?62; 6>, ; - 25',)*' >16, ' 1 ' .)*=)*-0. ' 620' >6?*/C0- +*-. ' 620' 6/. 1' 1-' ,)*' >1+*- 25' 1 ', *2, . ' M : 6-?6-' , f ' Q T >1?=' %7/ 62 ' 7 !' ' L+ ' N I% , ' 86. ' 01 ; D, /*. ' ,) .' >16-. *' 9 20' 8)>)' 86. ' 601=, *0' D ' B1)2% ' ,) .')*' 86. ' 0 ., 2^ 5; .)*0' -1?' ,)1. *' -*. 0*2, . ' 2' -1 6/ =6)6-*.' 8)1' 81-*' '-6 ?*2, % / A6)' . ' .6 0' 2' ,)*' 25/ .)' D/*' , 1')6+*' D**2' 6')6 - ' ?62J' MK' 25. ' ' QXT' D; , ' ?6 ' ?*62' 6' ?62' 0-*. . *0' 2')6 -J ' ,)6, ' . ' >6?*/. I')6 -% 2' U*>)% L ' ' 6' -1; 5)' 56-?*2, J ' ,)6, ' . ' 6' 56-?*2, ' 1 ' 6')6 - ' ?62; 6>, ; -* ' . ' >)6-6>, *- . , >' 1 '6' =-1=)*, % M **' ' '" '& 1' % %

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6?*-6- ; . ' (' 12** 1 ' ,)*' ?1. , ' .>)1/6-^ / ' ?*2' 1 ' ,)*' . L, **2,)' >*2, ; - ' 86. ' D1?' 6, ' 6?^ D*-5' =- / ' K % ()*' 1- 5 26/ 26?*' 1 ') . ' 6?^ / ' 86. ' *D)6-0 ' 8)>)' 86. ' >)625*0' 2, 1',)*' 6, 2' 6?*-6- ; , ' M)6?D*-/6 2X' D*>6; , *') . ' 62>*. , 1-. ')60' D**2' >)6?D*-/6 2. ' 6, ' ,)*' >1; -, ' 1 ' ,)*' D .)1=. ' 1 ' 6?D*-5% : *' 86. ' . *2, ' , 1',)*' $2 +*-. , ' 1 ' * =C' [>' 8)*-*')*' . , ; 0 *0' 4-**9' ; 20*-' >)6-0' 4-19*

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0 ., 2>, / ' ?6-9*0' 6D1+*' D ; , ' D*/18',)*' 0 + . 12' . '/ ?^ , *0', 1',)*' 62, *- 1-' =1-, 12' 1 ' ,)*' 11, ' ,)*' , 1*. ' D* 25' >; .) 12*0' ; =12' 620' >12 2*0' D ' ,)*' */6. , >' =60' ; =12' 8)>)',)*' >6?*/ 51*. % ( ) . ' =*>; / 6-' >12 1-?6, 12' 1 ' ,)*' 11, '-*20*-. ' ,)*' 0 + . 12' 2>1?=/*, *' 620' <1. *. ' 1-' ,)*' =; -=1. *. ' 1 ' ,)*' /68 ' ,)*-* 1-*' 0*>0*. ' ,)6, ' . ' 0 ^ + 0*. ' 21, ' ,)*')11 % *-)6=. ' 2' ,) . ' 2 >*/ ' D6/62>*0' _ ; *., 12',)*' 0*, *-? 26, 12' 656 2. ' ,)*' ; . *' 1 ' ,)*' >6?^ */ 1-' 110' 86. ' ?60*' 8 ,)' ,)*' *8' 1 '9**= 25',)*' .^ -6*/ , *. ' 0 ., 2>, ' -1?' ,)*' 1,)*-' 0*. >*2062, . ' 1 ' D-6^)6?' 8 ,)' 8)1?' ,)*' -' >122*>, 12' 620' >1 2> 0*2>*' 2' ?622*-. ' 8*-*' 1,)*-8 . *' . 1' >/1. *% ()*' =, *-0 >, 12' 1 ' ,)*' >6?*/' 620' 1 '>1; -. *' , . ' ? /9' 86. ' 8*/ ' >6/>; /6, *0' , 1' =-*+*2, ' ,)*?' -1?' *2, *-, 6 2 25' 62 ' 0*. -*' , 1' >12^ , 2; *' 2' -6D 6' 1-' -1?' 656 2' 0*+1, 25',)*?. */+*. ' , 1' ,)*' 6+1-, *' 1>>; =6, 12' 1 ' 21?60*')*-0. ?*2 ' -1?' 8)>)' , ' 86. ' 1D+ 1; . / ' ,)*' 2, *2, 12' 1 ' ?62 ' 1 ' ,)*' /68. ' , 1' 8*62',)*?% 2' -6D 6' 6' =*1=/*' 81; /0' D*' 2' 6' +*- ' ; 2>1? 1-, 6D/*' >120 , 12' 8)1' >1; /0' 2* ,)*-' *6, ' >6?*/. ' /*.)' 21-' 0- 29' , . ' ? /9% ',)*' >12. , 62, ' ; . *' 1 ' , . ' ? /9' D ',)*' -6D. ' , -6+*//*-. ' -*_ ; *2, / ' . =*69T 620' 8*' 862, *0' 6' ?*0 >6/ -*6.12' 1-' , . ' 2, *-0 >^ , 12 ' , ' ? 5), ' D*' 1; 20' 2' ,)*' 6>, ' ,)6, ' , 1' , . ' >12^ . , 6, , *. ' ,)6, ' . ; >)' 56-?*2, . ' 6-*' 81-2' D ' ,)*' ?10*-2' 0*-+ .)*. % ()*-*' .' 6' >16-. *' >/1,)' ?60*' 1 ' >6?*/. I')6 -' 2' ,)*' 6. , ' 8) >)' . ' ; . *0' 1-' ?62; 6>, ; - 25',)*' >16, ' 1 ' .)*=)*-0. ' 620' >6?*/C0- +*-. ' 620' 6/. 1' 1-' ,)*' >1+*- 25' 1 ', *2, . ' M : 6-?6-' , f ' Q T >1?=' %7/ 62 ' 7 !' ' L+ ' N I% , ' 86. ' 01 ; D, /*. ' ,) .' >16-. *' 9 20' 8)>)' 86. ' 601=, *0' D ' B1)2% ' ,) .')*' 86. ' 0 ., 2^ 5; .)*0' -1?' ,)1. *' -*. 0*2, . ' 2' -1 6/ =6)6-*.' 8)1' 81-*' '-6 ?*2, % / A6)' . ' .6 0' 2' ,)*' 25/ .)' D/*' , 1')6+*' D**2' 6')6 - ' ?62J' MK' 25. ' ' QXT' D; , ' ?6 ' ?*62' 6' ?62' 0-*. . *0' 2')6 -J ' ,)6, ' . ' >6?*/. I')6 -% 2' U*>)% L ' ' 6' -1; 5)' 56-?*2, J ' ,)6, ' . ' 6' 56-?*2, ' 1 ' 6')6 - ' ?62; 6>, ; -* ' . ' >)6-6>, *- . , >' 1 '6' =-1=)*, % M **' ' '" '& 1' % %

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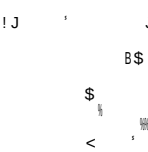
6?*/*12% **' ' ! 3

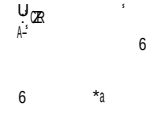
6?*-6- ; . ' (' 12** 1 ' ,)*' ?1. , ' .>)1/6-^ / ' ?*2' 1 ' ,)*' . L, **2,)' >*2, ; - ' 86. ' D1?' 6, ' 6?^ D*-5' =- / ' K % ()*' 1- 5 26/ 26?*' 1 ') . ' 6?^ / ' 86. ' *D)6-0 ' 8)>)' 86. ' >)625*0' 2, 1',)*' 6, 2' 6?*-6- ; , ' M)6?D*-/6 2X' D*>6; , *') . ' 62>*. , 1-. ')60' D**2' >)6?D*-/6 2. ' 6, ' ,)*' >1; -, ' 1 ' ,)*' D .)1=. ' 1 ' 6?D*-5% : *' 86. ' . *2, ' , 1',)*' $2 +*-. , ' 1 ' * =C' [>' 8)*-*')*' . , ; 0 *0' 4-**9' ; 20*-' >)6-0' 4-19*

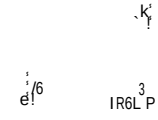
*1 ?, ' 1 ' *¶ : *' -.,' 6> _; -*0' 21, >*' D ' D .' D1/0' 1==1. , 12' ,1',) *' L2*6. ; -*. I1 ')6-/*.' : ' 1-' *2 1-> 25' ,) *' = .>1=6/ 1- ?' 1 ' 81-.) =' 12' ,) *' >1,, .)' =*1=/*¶ ( ) *' ? *6. ; -*.' 601=,*0' D ' ,) *' 51+*-2 ? *2, ' -1; . *0' ,) *' =*1=/*' 620' 6 ? 125' ,) 1. *' 8) 1' 56+*' ;//*. ,' *L=-*. . 12' ,1',) *' =1= ; /6-' . *2, ? *2,. ' 86. ' >)6-0' 6 ? *-12¶ : *' D*/125*0' ,1',) *' *L,-* ? *' =6-, ' 8) 1') */0' D ' ,) *' =*-^ =*, ; 6// ' D 20 25' 1D/ 56, 12. ' 1 ',) *' 1/* ? 2' *65 ; *' 620' 1+*262, ' \.**' ; ' 8) >)' 8 *-*' . *, ' 6. 0*' 6, ' ,) *' -*. ,1-6, 12' 1 ')6-/*. ' ¶ /125' 8 ,)' .1 ? *' 1,) *-. ') *' . ,-*2 ; 1 ; ./ ' -*. . , *0' ,) *' ? *6. ; -*. ' ,) 6, ' -* 2. ,6, *0' ,) *' = .>1=6/) ; ->)' 2' >1, /620 ' 620' ,) 6, ' =-1.>- D*0' ,) *' ? **, 25. ' 1-' =; D/ >' 81-.) =' 1 ' ; 26 ; ,) 1- [*0' -*^ / 5 1 ; ' D10 *. ¶ 12, -6- ', 1' /68 ') *' =*-. . , *0' 2' =-*6>) ^ 25' 2',) *' */0. ' 620' D*>6 ? *' 1D21L 1 ; .', 1' 51+*-2 ? *2, ' ,1' 8) >) ' 20**0') *' 26// ' 6. . ; ? *0' 62' 6,, , ; 0*' 1 ' 0* 62>*¶ 1, ' 12/ ' 8 *-*') . ' 01>, - 2*. ' 1D21L 1 ; . ', 1' ,) *' 51+*-2 ? *2, ' D ; , ' ? 62 ' 1 ') . ' D-*,) -*2' 1 ',) *' >/*-^ 5 ' 0-*60*0') . ' [*6/ ' 8) >)' ,) * ' >12. 0*-*0' *L, -* ? *' 620' 6, ' 6' ? **, 25') */0' 2' 0 2D ; -5) ' 2' S ',) * ' 1-^ ? 6// ' -*=-1+*0') ?¶ : *' -*, -*0', 1' : 1//620 ' DA ; ', 112' -*, ; -2*0 1' 620' 12',) *' KK0' 1 ' B ; 2*' SQ ' 2' >1 ? =62 ' 8 ,) ' 6D1 ; ', 8 *2, ' 1,) *-' =*-. 12. ') *' *2, *-*0',) *' , 182' 1 ' 62_ ;) 6-' 2' ; ? - *. .) -*' 620' 6, ' ,) *' ? 6-9*, C >-1. . ' =-1>/6 ? *0',) 6, ')6-/*. ' . ; 6-, ') 60 ' D ') . ' =*-^ A ; - *. ') . ', -622 >6 '51+*-2 ? *2, ' 620') . ' ; . ; -=6, 12 ' 1- *, *0' 6//- 5), ' 620', , /*', 1',) *' >-182¶ ( ) *' =6-, ' 9*=, ', 15*,) *-' 2' 6- ? . ' 1-' 6' I ? 12,) † D ; ' 12', ,) *' K ,) ' 1 ' B ; / ' 8) /*' / 25' 6, ' -0. ? 1. . ' 2' /*',) *' 8 *-*' . ; -=- . *0' D ' 6' /6-5*' D10 ' 1 ') 1-. *' 620' 11, ' 620' 2',) *' .9 - ? .) ' 8) >)' 1//18*0' 6 ? *-12' 86. ' 9 //*0 ' 620') . ' 1//18*-. ' 8 *-*' 0 .=*-. *0' 1-' , 69*2' =- .12*-. ' ' 2*6, ? 12 ; ? *2, ') 6. ' D**2' -*>*2, / '=/6>*0' I12 ,) *' .=1, ' 8) *-*' 6 ? *-12' *// ' -*=/6> 25' 62' 1/0' 620' =/6 2*-' . , -; >, ; -* 3' T 6 "' 1 :' 6 % 6) :' : *,) C *- 25,12 ' # ' ' " "' '$! ' ' S' ._¼ ? ; ! 'M 0 2D¶ QN '+1/¶ X¶ *** 6 ? *-12 62. ' M ¾X ',) *' ? , 56, *0' 6/+ 2 ,, ' 8) 1' 1//18*0' ,) *' 1= 2 12. ' 1 ' B1) 2' 6 ? *-1' M_¶ +¾X¶ MK¾X ( ) *' 6 ,, C=-*/6, >6/ =6-, ' 2' >1, /620 ' .1' >6//*0' -1 ? ' >)6-0' 6 ? *-12' M_¶ +¾X¶ *** ! 6 ? *-12 . , . ¶ *>' ! 6 ? . 6-0 . ' M -1 ? ',) *' -*2>) ' 1' 6' =*6. 62, . ' A6>9*, X ' 6' . *>', > ' 626, >. ' M ? 60*' . ; >) ' D ' 1== -*.. 12X' 2' -62>*', 186-0',) *' *20' 1 ',) *' .*+*2, **2,) ' >*2, ; - ¶ ( ) *' =-*0 >, 12. ' 1 ' -1 ; . . 12' M_¶ +¾X' 620' B ; - *; ' 6. ', 1' ,) *' >1 ? 25' 0182 6// 1 ',) *' =6=6> ' 620',) *' *20' 1 ',) *' 81-/0' . **?', 1') 6+*' 5 +*2' 6' D*2', ' 1',) *' ? 20. ' 1 ',) *' -1, *. , 62, . ' 1 ' 6 ; =) 2*' 620' +6-7 . ¶ 2' SQQ +*' 1-' . L') ; 20-*0' -1, *. , 62, . ' 1 ' D1,) ' . *L*. ' 56+*' ,) *? ^ . */+*. ' 1 ; ', 1' ID* =-1=) *, . ' 620' 2. = -*0' 1 ',) *' : 1/A' 4) 1. , ¶ ( ) *') 60' . , -625*' , . ' 8) >)' >6 ? *' ; =12',) *? ' 8 ,)' 6 2, 25. ' 6. ' 2' 6' . 8112 ' 8) >)' ? 60*',) *? ' . , -*, >) ' 1 ; ',) *' -' 6-? . ' 620' /*5. ' 620' . , 655*-¶ ( ) *' . , -; >9' ,) *? . */+*. ' 8 ,)',) *' -') 620. 1' ,) *' ' */// 12',) * -' D6>9. ' .) ; ',) *' -' * *. ' 620') *6+*0',) *' -' D-*6. , . ¶ ( ) *' . ? =^ , 1 ? . ' 62. 8*-', 1',) 1. *' =-10 ; >*0' D ' 2. = - 25' 2 , -1 ; . ' 1L 0*' 620 ' 8*-*' ,) *' 6>', ,) *2' 0 .>1+*-*0' 8*' .) 1 ; /0') 6+*' D***2', *? =, *0', 1' . ; . =*>, ' ? =1. , ; -*¶ ( ) *' ' -^ ? 6 2*0' 6' 8) /*' 2', -62>*. ' 620' >1 ? 25' 1 ; ' 1 ',) *? ' 0*>/6-*0',) 6, ',) * ' . 68',) *') *6+*2. ' 1=*2',) *' 625*/. ' =6-60 . *' 620') *//¶ ( ) 1. *' 7+) 1' 8*-*' A ; . ' 12',) *' =1 2, 1 ' -*>* + 25',) *' . = - ' 1 ' =-1=) *> ' 0-1==*0' 0182 ' 21, 12/ ' 2',) *' 6. . *? D/ *. ' D ; ' 2',) *' */0. ' 620' 2',) * -' 182') 1 ; . *. ' >- 25' 1 ; ' ! ( ) *' /*6. , ' 1 ',) * -' 6. ^ . *? D/ *. ' ? 60*' ; =' 1 ; -' 1-' +*') ; 20-*0 ' 620' . 1 ? *' 1 ' ,) *? ' 6? 1 ; 2, *0', 1' *+*2',) -*** 1-' 1 ; -',) 1 ; . 620¶ ( ) *') //. ' -*. 1 ; 20*0' 8 ,) ',) * -' /1 ; 0' >- *. ' 1-' ? *-> ' 620' 8 ,)' ? =-*>6, 12. ' 656 2. , ' ,) *' =- *. , . ' ,) *' =1=*' 620') . ' 62,)- . , 62' 01 ? 2 12' 8 ,) I' =-*0 >, 12. ' 1 ' ,) *' 6==-16>) 25' 6// 1 ' =1=* ¶ // ',) * ' . 6 0' 6, ' ,) *. *' , ? *. ' 86. ') *6-0' 620' -*>* +*0' 8 ,)' -*+*-*2>*' 620' 68*¾J' ( ) *' 51+*-2 ? *2, ' 26//X7 2, *- *-*0' 8 ,)' 6' + ^ 1/*2>*' 8) >)' 26, ; -6// ' 2>-*6. *0' ,) *' 0 .1-0*-¶ 2' K' 6' 2 ; ? D*-' 1 ',) *' 6? .6-0. ' 8*-*' =; ', 1' 0*6,) 8 ,)', 1-, ; -*¶ '86-'6-1. *' 2' 8) >)' 6+6/ *-' 6' 1 ; 25¾ 1 ',) *' 1-0' 86. ' =/6>*0' . ; --1 ; 20*0' D ',) *' , - D*' 1

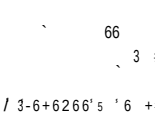
D69*-' D*>6 ? *' =-1 ? 2*2, ' 6. ' 62' 6D/*' /*60*-¶ ( ) *' < 6-^ .) 6/ 0*' < 12, -*+*/ 86. ' . *2, ' D ',) *' >1 ; -, ', 1', _ ; *// ,) *. *' 0 . , ; -D62>*. . ' 620' 6 , *-') ? ' < 6-.) 6/ //6-. ' 620' 6 , *-' 6' /125' . *-* . ' 1 ',) *' ? 1. , ' D6-D6-1 ; . ' ? 6. . 6>-*. ' 620' =*- 0 1 ; . ' >-; *//, *. ' ,) *. *' 8-*, >) *0' =*1=/*' 8*-*' 26// ' 2' = ; ' 0182¶ 6+6/ *-' . ; D ? , , *0 ' 620' 6 , *-86-0' 8*2, ' 1' 25/620¶ 6+62>*' 6, 26, ' 620' -62> [' ,) -**' 1 ',) *' -' /*60*-. ' 8*-*' D ; -2*0' 6/ +*' 620' /6. ' 620' B12 _ ; *, ' 6/. 1' >1 ? 620*-. ' 1 ',) *' -' 1-> *. ' , 15*,) *-' 8 ,)', 81') *->) 62, . ' 8) 1' 6. . , *0' ,) *? ' D-1^ 9*2' 12' ,) *' 8) **/¶ < 62 ' 1 ') >. *' 6? .6-0. ' /*0', 1' 25/620¶ **' ? *0/7 ' 5 '5 ' '@ ' +1/¶ ' >)¶ dd † -" '$ +' V ' M 12012 ' 'D ' < 6L ' < ..12 ',) *' >) 7 ' .1 ; ->*' 1 ' 2 1-? 6, 12X† -" ' ' ' " ' ' ' 'M ; D/ 2 ' KSX† >) ; /[' ? " " ' ' M & * ? 6-' R X† 1 ; -, ' # ' ' ' ' ' M //* -62>) *' S X† # ' ' ' ' M *20¶ X† * -6, ' # ' ' 1 ' ' ' M 6- . ' Q KX† : 1 / (? 622 ' "! & " ' ' ' 1 ' M 1-0/ 25*2 ' QN X¶ ** ' ' + / ' ! 6 ? ? *-) 1 ' (' ' 12*' 1 ',) *' -., ' D .) 1=. ' 1 ',) *' < 1-6+ 62') ; ->)' 2% ? *- >6 ' 86. ' D1-2' 2*6-' < 650*D ; -5 ' 4*-? 62 ' B ; / ' KQ ' K ¶ 2, *- 25' ,) *' < 1-6+ 62' ? 2 . , - ') *' 86. ' . *2', 1' ? *- >6' 6. ' 6. ^ . . , 62, ', 1',) *' =-*. 0 25' D .) 1= ' 620' 6-- +*0' 6, 06', ? *' 8) *2',) *') ; ->)' 6, ' *,) /*) *' ? ' 86. ' 6' >*2, -*' 1 ' ? . ^ . 126- ' 6>, + , ' 6 ? 125',) *' ? *- >62' 20 62. ¶ ' ' 2' 6// ,) *' ? .. 12' ., 6, 12. ' 2' *22. /+62 6' 620' *8' 1-9' 6 ? ? *-) 1 ' 86. ' 6>, +*' =-1>/6 ? 25',) *' >-; >*0' 12*' 8 ,)' 5-*6, ' =18*-', 1',) *' 8 /0' 86-- 1-. ' 620',) -1 ; 5) ' ,) *' 65*2> ' 1 ' 6 ,) ; /' 2, *-=-*, *-. ' 6 ? 125' 8) 1 ?' 86. ' ,) *' 6 ? 1 ; . ' ? .. 126- ' 6+ 0' U* .D*-5*-' 2+ , 25' ,) *? ' 2' *1/_ ; *2, ' 6==*6/. ' , 1' /119' ; =' 620' . *' ,) * -' .6/^ +6, 12' 2 .) *0¾J' : *' 812',) *' >12 0*2>*' 1 ',) *' 2^ 0 62. ' *. =*> 6// ' 1 ',) *' */686-*. ' 620',) *' L' 6^ , 12. ' 620' 2' Q) *' 86. ' 1-? 6// ' 601=, *0' D ',) *' 2* 06. ' 6. ' 6' ? *? D*-' 1 ',) * -' , - D*¶ 2' ') *' 6, ^ , *20*0' 62' -1_ ; 1 . ' >1 ; 2> / 6, ' 2120651 ' ¶ ' , -6+^ *// 25' D ' >621*. ' ; =' ,) *' ; . _ ; *) 6226' 1-' N 06 . ' 620' ,) *2>*' 12' 11, ' ,) -1 ; 5) ' ,) *' 8 /0' ? 1 ; 2, 6 2' -*5 12. ' 1 ' 1 ; ,) *-2' *8' 1-9' 6' 1-, 2 5), ' ? 1-*¶ ( ) *' A1 ; -2* ' D-19*' 0182') . ' >12. , ; , 12' 620') *' 0 *0' 6, ' *,) /*^) *? ' =- / KQ ¾ ' -" ' C ' *=, ¶ KS QS ¾ 6 ? 12' M : *D¶) (' =*-/) =. ' ' + ' 1-' 5-6 2 1' *=, ¶ < ' +¶ -¶ + 3$ B3B =/6>*' 2' 8) >)' B6 -' M_¶ +¾X' ,) *' B ; 05*' 86. ' D ; - *0' MB ; 05¶ L ' X¶ . ' ,) *' .>- =, ; -6/ 21, >*. ' 1 ') ? ' 6// -* *-', 1',) *' >1 ; 2, - ' *6. , ' 1 ' B1-062 ',) *-*' . ' 21' -*6.12' 656 2. , ' 6>^ >*=, 25',) *' . , 6, *? *2, ' 1 ' B1. *=) ; . ' I& ! ' + ' SX',) 6, ' 6? 12' M 6V B X' 86. ' 6' > , ' 1 ' 4 /*60¶ 2' . ; ==1-, ' 1 ' ,) . ' . ',) *' ? *2, 12' D ' 1/ D ; . ' M+ ' KX' 1 ' 6' C ' IN ' 1-' >-V 1 ; -X 2' >1 ? =62 ' 8 ,)' *// 6' 620' 1,) *-' , -62. CB1-062 >' =/6>*. ' , 69*2' D ' 2, 1*D ; . ' M */620' ! =¶ S RT' ,, *-' 6 +!' L + ' KSX¶ ; ^ . *D ; . ' 620' B*-1 ? *' I , ! . ¶ +¶ 678G7' 6 ? 12X' *+ 0*2, / ' >12 1 ; 20' , ' 8 ,)',) *' ' MB ; 0 ,) ' + ' NX' 2',) *' =/6 2' 1 ' .0 6*/12' 620',) . ') 6. ' ? . /*0' >) 86-[' 7 I ' =¶ KNNX¶ , ' . ' =1.. D/ ' ,) *' ? 10*?' 5 ' M>1 ? =7 ,) *' *=, ' -*60 25' 5" 8' 1 ; -' 620' 6' !/ 6/ ' ? /*. ' 8*. , C21-,) C8*. , ' 1 ' B*-6.) ' 1-' 4>-6. 6' M 62' 0*' */0*. ' %8!

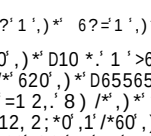
6 ? =' " "(' 62' % ' 8) *,) ^ *-' 1 ', -11=. ' 1-' 21 ? 60*. ' *. =*> 6// ' 1 ' ,) *' .-6*/ , *. ' 2',) *' 0*. *-, ') *2>*' 6/. 1' =; ' 1-' % ' 1-' 6' % ' , . */ ' 12>*' 2) V ' " "E' % ' ¶ *¶ =/6>*' 1 ' *2>6 ? =? *2, ' K' 25. ' + ' QT' % % $ O *' : *D¶ L ' ' NT' *+¶ d d ' RT' */. *8) *-*' >6. ,/*JX¶ ' >) ,) *' B*8^ .) ' . ,* ? ' 1 ' *2>6 ? =? *2, ' ,) *' <1.6 >' D119. ') 6+*' /* , 6' 0*, 6 /*0' 0*. >- =, 12¶ -1 ? ',) *' =*- 10' 1 ',) *' .1I' A1 ; ? ' 2',) *' 8 /0*-2*. . ', 1',) *' >-1. . 25' 1 ',) *' B1-062' ,) *' , 8*/+*' , - D*. ' 8*-*' 1-? *0' 2, 1' 1 ; -' 5-*6, ' 6-? *. ' *2>6 ? = 25' 2' 6. ' ? 62 ' -12, . ' 1-' 1-? 25' 6' ._ ; 6-*' 8 ,)', 1-, ; -*¶ '86-'6-1. *' 2' 8) >)' 6+6/ *-' 6' 1 ; 25¾ 1 ',) *' 1-0' 86. ' =/6>*0' . ; --1 ; 20*0' D ',) *' , - D*' 1

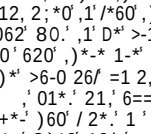


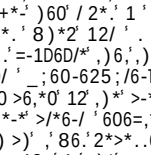


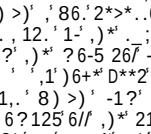


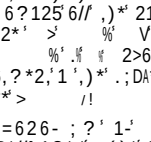


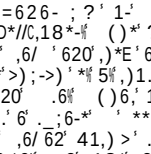


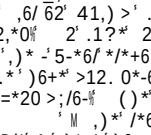


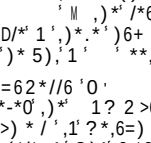


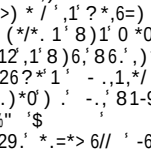


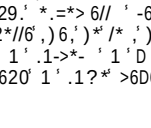












: *' -*A*>,*0',)*' 0 + 2 , ' 1 ',)*' : 1/ ' = - , '620',6 ; 5),'
,) 6,',)*' 12'1 '410' .' 1 ',)*' .6?*' .;D..62>*' 8 ,)',)*'
6,)*-') ;'21,'>1*,*-26/
% , ' 2') .'& ' ',
+E'# '=*2,'L+ 'g' '=, '>)' +H' : *-[15'5 =
6 + % 1 ' ' RKT 1?*-' ' ' " '0 +
+1/ ' =S#
6= =D*// ' /*L620*-' 1;20*-' 1 ',)*' 6?=C
)*// ,*. '1-' .> =/*.'1 ') - .,'M_ %X'C86.'D1-2' 2',)*'
,1;2,'1 ' 2,- ?' -*/620 ' 2',)*' *6-' R'620'86.'
*0;>6,*0'6.'86.') .' 6,)*-' D* 1-*') ?' 6,',)*' $2 ^
+*-. , '1 ' 4/6.518 ' >1,/620 ' D1,)' 1 ',)*?'6.' -*.^
D ,*- 62'>/*-5 ?*2' ()1?6.' 6?=D*//',)*' =1*,' 86.'
6'-*/6, +*' 620' >/6..?6,*' 1 ') .' 6,)*-' 2',)*' 12*
. 0*') .'62>*.,- '86.'1 ' >1,>)'1- 5 2'620'12',)*'1")*-'
: ;5;*21,' -*2>) : *'*? 5-6,*0',1' ?*- >6'2' Q R'
,81' *6-.'6 ,*-') .' 6,)*-'620'.*,,/*0'6,' -.,' 2'&6.)^
25,12'>1;2, ' *22%'2*6-',)*'.=1,' 2'&*.,' -5 2 6'
,1'8) >)')*' .112'6 ,*-86-0'-*?1+*0'620'12'8) >)')*'
/ +*0'0;- 25',)*'-*?6 20*-'1')./ *' ()6,'.=1,'218'
,)*' + //65*' 1' *,)62 ' 86.',)*2'6'8 /0'620'.*>/;0*0'
/1>6/ , '6?0',)*') //. : *'86.'6,' -.,'6'0.*.)*' *8'
3',6?*2,');->)'*',)*-' 2'*L=-*..',*-?.'1-'D '6==-1+*0'
=-*>*0*2,%J' ()*'=-1?;/56, 12'1',)*.*'1=2 12.'>6;.^
25'0 .,;-D62>*' 2',)*' -*.D ,*- 62');->)'D1'620'
) .' 6,)*-' 6D62012*0' ,' 2' Q '620' 1-?*0'6'2*8'.1^
>*, ' 6,' -;.)' ;2' *22 2' Q K')*'D*>6?*' >12^
+ 2>*0',)6,' ?2*-. 12' .',)*'=-1=*-' 1-?' 1 'D6=, .?'
620')*'620') .'>125-*56, 12'8*-*' ?2*-.*0 2'>12^
2*>, 12'8 ,)') .' 6,)*-',)*' +*' ()1?6.' 6?=D*//'
)*' 1-?*0'.*+*-6/>125-*56, 12.'8) >)';2 ,*0' 8 ,)',)*'
0.,12' 6=, .,' ..1>6, 12'D;,'=-1,*..*0'656 2.,'6//
);?62'>-**0.'6.'6'D120'1';2 12'6>>*=, 25',)*' D/*'
6/121' 6.',)*' -;/*' 1' 6 ,)' 620'=-6>, >*' * 25'*L^
>/;0*0'-1?',)*' *//18.) =' 1',)*' 6=, ,' >) ;->)*.' 2'
QK ') .' 1//18*-.'D*562',1'1-562 [*' 2,1'6'.*=6-6,*'
D10 '8) >)'). 6.'. 2>*' .=-*60' 2'6//=6-,.'1',)*' $2 ,*0'
,6,*.' *.=*> 6// ' 2' -5 2 6' (*22*..**' 620' *2^
,;>9 % ()*' 2;?D*-' 1' 0 .> =/*.' 86.' *., ?6,*0' 2'
QS '6/,15*,)*-' 6,' 6D1;,' N '?*?D*-.' 1' 8)1?'
12/ '6'.?6// 2;?D*-' D*/125*0',1'4-*6,' -,6 2 *'
/ ' ' ' f 2' QKN <-' 6?=D*// D*562'
,)*' =;D/ >6, 12' 1' -" ' " ' ; % ' 6 ,*-86-0'
?*-5*0' 2',)*' ' D - 1' 8) >)',)*' -*^
?6 2*0' *0 ,1-' 0;- 25') .' / *' 2' Q ' / *' 1;20*0'
*,)62' 1//*5*!'620')*' 86.' ,' =-*. 0*2',1',)*'06'
1') .'0*6,)' B:*' 7 6.'6' ?*?D*-' 1',)*' -5 2 6' 12^
., ,;., 126/ 12+*2, 12'1' QKRCN % ,'86.' 2',)6,'D10 '
,)6,)*' 56+*'=-1=)*, >'21, >*'1 '8)6,'81;/0';/, ?6,*/ '
D*' ,)*' >1;-.*' 1' & *.,*-2' -5 2 6' 620' 1' 8)6,)*'
/ +*0',1'.**' 6>>1?=/ .)*0' 2' Q ')*' + . ,*0' ;-1=*'
-*>* + 25'?6-9*0'6,,*2, 12.'-1?'?62'1',)*'=1/ ,>6/
620'-*/5 1;'./*60*-' 2',)*' /6+*-A'>12 />,')*'86.'
'>12.*-+6, +*%J' '<-' 6?=D*// 2*+*-'86.',)*'>)6?^
=12'1' ?*>62'./6+*-Ef' :*'D*/ *+*0')18*+*-',)6,'
,)*'-*/6, 12'1'?6.,*-'620'./6+*')60'*L .,*0' 2' D/>6/
, ?*.' ;20*-',)*'0+2*I'.62>, 12'1-'6,'6//*+*2,.',1/^
-62>'620'8) /*')*0 0'21,'0*. -*',1'D1'-*56-0*0'6.'
,)*'6=1/15 .,'1' ?*->62'./6+*- ')*>12,*20*0',)6,'
,' .)1;/0'21,'D*'6',*.,'_;*., 12'1,'>1?? ;2 12' 2',)*'
>);->)*.' : .'182'./6+*.')*')60'*?62>=6,*0'?62'
6-.'D 1-*J
: .'/ *'86.' ;//1'/6/P1-.'8*//.;==1-,*0'D '6'=) C
>6/ -6?*'1'6,)/*, >'+ 51-' ;,' 2' QS')*'D*562',1'
6/'620')*'0*0'6,' *,)62 '<6->)' QSS : *')10
? 62 '1',)*'5-*6,'_;6/, *.'1 '6'-* 1-?*-'620'6?125'
,)*?'8*-*' =*-.126/*2*-5 '620'=;526>, % : .'>6^
-**-' /*0')?' -*_;*2,/'2,1'=;D/>' 0*D6,*.TJ',)*'
?1.,'?=1-,62,'1'8)>)'8*-*'6.'1//18.' & ,)',)*'
+%B1)2'&6/9-'6'?2.,*-'1',)*' *>*.. 12C -*.D C
,*- 62')>);->)' 2',)*' ,6,*'1')1')*/0'6,'<,' /*6.^
62,' 2',)*' *6-' QK ( ) .' 0*D6,*' >-*6,*0'6'5-*6,'
/1>6/ 2,*-*.,',)-1;5)1;,'6//,)6,'.*>, 12'1'>1;2,GEJ'
620'86.'6,,*20*0'D '6'+6.,'>12>1;-.*'1'=*1=/*% *L,'
1//18*0') .' 0*D6,*'8 ,)',)*' *+% & // 6?<> 6//6'12'
')-., 62' 6=, .?')*/0' 2'!&6.) 25,12' % ' 2',)*'
*6-'NQKNT' 2*L,') .' 0*D6,*'8 ,)' 1D*-,' 8*2'6,' 2^
> 226, ' 2',)*' *6-' QKQ'12',)*'(-;,)'1')-., 62 , T
2*L,') .' 0*D6,*' 2',)*'4*6-' QQS'
8 ,)' ->)D .)1=' ;->*//' 12',)*' 2 6// D/, '1',)*'
);->)'1' 1?*T 620' 26/, ' 2',)*'A*6-' Q N') .' 0*^
D6,*' 8 ,)',)*' +% % ' >*') */0' 2',)*' >, '1'
L 25,12' ',).=*> =1 2,.'8*-*') 8*-*'),)*'
6>, 12' .;DA*>,'V*. 52' 620' 60? 2 .,-6, 12' 1')-.^
, 62' D6=, .?T'6/.1',)*' >)6-6>,*-'1'.=-.;6/ 2/;^
2>' 2'>12+*-. 12'620'.62>, >6, 12'620',)*' `L=*^
0*2>'620',*20*2> '1'*>>/*. 6.,>6'2>-**0.'6.',*-.?.'
1';2 12'620'>1=2;2 12%'J' -% 6?=D*// 86.') 5)C
, '*2018*0'6.'62'1-6,1-T 6'21D/*'=-*.*2>*'620'6'.1^
21-1;.'620'=18*- ;/ +1>*'56+*'* *>',1') .' +51-1;.'
,)1;5),'620'/;*2,'*2*-5*,>'.=**>)% 6.,'6;0*2>*7
56,)*-*0',1')*6-') ?' 2') .'A1;-2* .',)-1;5)',)*'
&*.,% :* 8-1,* /6-5*/ ')>) * / ' 2') .' #
D;,')*'=;D/.)*0'6/.1'6'.;??6-E'1',)*1/15 '>6//*0',)*'
" ';'M1 ,*2'-*=-2,*0X'T 6',-*6.,.*'12'5 9
'U';'MNO'*O% Q SX' ' 1" (%9
'M 2> 226, 'QS 'Q+1X% **'6/.1',)*'6-, >/*' L
/ '<+' ' !J " 21!-!81' 1%NKQT'& !'
" '5 ' K'._ %T ' ?/!:/6->)'Q S' 62^
0.'5 "'-+'M % % Q Q+1X' >)6-0.12' !'
'&% % 'M) /% QSQX% **' / 'O' !
6?=D*//' /*L620*-' ;5;.,;.'6' -*.D ^
,*-62'?2.,*-'86.'D1?'2' ?)*-.,'>1;2, ' 6' *>%
N QR% :*' -.,;0*0'?*0>2*'620'2' Q '5-60^
;6,*0'<% % 6,')/60*/=)6' '+1/*2,'6,,6>9'1'A*/C
/18' *+*-' 86.',)*' ?*62.'1')./ >12+*-. 12'620')1'
5 4 ;=',)*=-6>, >*'1'?*0>2*'620'6==/ *0') ?.*/'
,1',)*1/15 % :*'86.'/>*2.*0',1'=-*6>)'D ',)*' -*.C
DA,*-'1'1- ,)' /6D6?6' =-/K' QKK'620'1-06 2*0'
6.'62'*+625*/..,' *=,% KR QKN% :*'86.'6,' -.,'62'
,2*-62,',)*2'1-' 1;-'A*6-.' -1?' QK '=6.,1-'6,'
(;.*?2D 6'620' ;..*//.+//*' /6%T 0*>/2 25'6'>6//
-1?',)*');->)'1' /1-*2>*' /6%)*')18*+*-' -*^
?6 2*0',)*-*',81' *6-.'% 8,)'5-*6,'.;>>*..'-*?1+ 25'
,1':6 8110'>1;2, '&*.,'(*22%'2' QKRC> '8)*-*')*
=-*6>)*0'6.'6' ?.. 126-XJ : 6+ 25'-*>*+*0'6'>6//
-1?',)*');->)'2'B6>9.12'(*22%')*'86.' 2.,6//*0'
=6.,1-' >,% N' QNN',)*-*')*=-*6>)*0'/*>,;-*0'*0,^
*0'6'2*8.=6=*-'620'=-6>, >*0'?*0>2*'=-2> =6//'
6?125',)*')*-19**'620' -**9'?.. 126-*.'6,',)*'
.6?*',2*'/6D1-25' 6,);/GE7';2,/')./ 0*6,)'<6EJ
K ,)' Q S% <-% 6?=D*//=;D/.)*0'6',-*6,.*' 12'
$ % ';% 'M Q X% ' =-65;*7' & ' +'S %

6?=D*//',)*'% ! ->) D6/0'6'D .)1='1',)*'
>1,,.)' =.>1=6/);->)'>12.*>-6,*0'2' '6,' ;2^
0**% 2'6>>1;2,'1'0 >;/,*.'8,)',)' .'>/*-5'6.',1'
;.65*.J'D*'/* ,' >1,/620' 2' K'620'-*,;-2*0',1'
12012'8)*-*')*.=*2,'?1.,'1',)*'-*?6 20*-'1')./
% 2') ./6,,-'06A.')*'>6-- *0') 212A;-25'=-2^
>=/*.'1;,')E'>12.*>-6, 25'6'D .)1='8 ,)1;,'62'6.. .,^
62>*% ()*'06,*'1') .' 0*6,)' ;292182% :*',),)*'
6;,)1-'1'.*+*-6/',)*1/15 >6/'81-9.'8)>)'6-*' .,-125^
/ ' 1?62 [25' ?125',)*?'6-*'-" ' ' '
' $ ' ' "' ' ! '*,>% M *20% N' 1/%X'620'-" '
7 '5 'M *20% NR Q+1X% 2') .'81-9'
12',)1'<00/* ,6,*')*',*6>)*.' ,)6,',)*-*' .'62' 2^
,*-?*0 6,*'1-'?00/* .,6,*' 1-'0*=6-,*0'.1;/.',1'6D 0*
2'D*,8**2'0*6,)'620',)*-*.;--*>, 12' 6-'0 / *-*2,'
-12 +)6,',)* '6-*'6 ,*-86-0',1'D*' 2'8)*2'1;-'D/*..^
0' 1-0'B.;.')-.,'.)6//6==*6-'6,') .'.*>120'>1? 25"

,)6,' ,)*-*' .' 21' ? ?*0 6,*' A;05? *2,' ' 0*6,)T ,)6,' ,1' =-6 ' 620' 1 *-' 1-' 620',1' >1? ?*?1-6,*' 1';-' 0*>*6.*0' D-*,)-*2' .' 21,' 12/ '/68 ;/ 620' ;.* ;/ ' D;,' 6/.1' 1;-' D1;20*2' 0;, 'I ,)6,',)*' 2,*-?*0 6,*' ..6,*' D*,8***2' 0*6,)' 620',)*' -*.:--*>, 12' .' 6'.,6,*' 1 '=;-^ >6, 12' 2' ,.'/18*-' 6.' 8*/E 6.' 1 ' L*0'A1 '620' *2A1 ^ ?*2,' 2' ,.') 5)*-' ?62. 12.T 620',)6,',)*' ;// =*-^ *>, 12' 1 '=;- , '620')1/ 2*..' .' 21,' .1',1' D*' 6,,6 2*0' 2' 62 '?62. 12' 1 ' : 60*. ') 5)*-' 1-'/18*-' 6.',)6,'62 ' .1;/ ' 1 ' ?*-*' ?62' >62' D*' 60? ,,*0',1' *2,*-' 2,1',)*' D*6, >' + . 12 ' 2',)*') 5)*.',)*6+*2. ' D* 1-*',)*' -*.^ ;--*>, 12 ' 620',)*',- 6/ D ' -*' 8)>)' ,' ?;.,',)*2' 51' ,)-1;5)%J ' :119 'a !'; %" 1' ' %

6?=D*//' 4*1-5*' % %' 86.'D1?'6,' D*-0**2' *>%K R' 620' 86.' *0;>6,*0' 6,',)*' <6-.>)6/ 1/^ /*5*' 6,' D*-0**2% %,*-' /*6+ 25' >1//*5*')*' .,;0 *0' /68 ' 620' 86.' 6==-*2, >*0',1' 6' 8-.*-',1',)*' 52*,'6,' 0 2D;-5)'D;,')6+ 25' 6' .,-125' D*2,',1',)*1/15%W)*' 1D,6 2*0' 6'-*/*6.*' -1?') .' ?6.,*-' 620' .,;0 *0' ,)*1/15 ' 6,' 0 2D;-5)% 2' Q)*' 86.' 6==1 2,*0' ,1',)*' =6.,1-6/ >)6-5*' 1 ',)*' =6-.)' 1 ' 62>)1- ' (*-C 262' 2*6-' D*-0**2' 620' 2' S ')*' 1D,6 2*0' 6'=6-.)' 2' D*-0**2% 2' R')*' 86.' ?60*' =-2>=6/ 1 ',)*' 7/6-.>)6/ 1//*5*% 2' SN')*' =;D/.)*0')' ' 9 ' ' 1' 2' 1==1. , 12',1' : ;?*' 8)>)' 86.' ,-62./6,*0' 2,1' .*+*-6/ 12, 2*2,6/ /625;65*.' M2*8' *0% 0 2D' QKN Q+1X' ()*' D119')60' 62' ?? *2.*' .;>^ >*..' 620' =-1>;-*0' 1-' ,.' 6;,)1-',)*' 0*5-*'*' 1 ' % % ,*-').' 0*6,)' 6==*6-*0').' 9 22*-' D.)1='1 ' D*-0**2% : .' ?1.,' ?=1-,62,' 81-9' 86.') .' - ' '" ' @ ' ? 1 1' "' ' 1' 8)>)' 6==*6-*0' 21,'/125'D* 1-*').'0*6,)' 620')6.' D**2' -*=*6,*0/ '-*=;D/.)*0% ()*' D*..' *0^ ,12' .',),6,'1 ' D*-0**2'M Q ' '+1/.% Q+1X' D;',),)*-*' .' 6' +*- ' 5110' 620' >)*6=' ?*-> 62' *0 ,12' M QN 'K +1/.%X% : *' 8-1,*'6/.1' ' '" ' ' " ' M 120% Q ' Q+1X' " %" ' ;" ' M S' Q+1' 2;?*-1;.' *0 ,12.X' ' % '6 4 'M 120% Q 'Q+1'2;?*-1;.'>6^ ,12.X% : *'-*,-*0' -1?') .'>1//*5*0;,*.' .1?*' *6-.' D* 1-*').' 0*6,)'620'->*+*0'6'=*2.12'1'cN '6' *6-' -1?' 4*1-5*' % : *' 0 *0' =-/ RS% ()*'/ *' 1' -% 6?=D*//)6.' D**2' 8-,,*2' D ',)*' *+% 4% * ,)%' 6-/ 25' %(' ; %" ' ' S T B6?*.12' %' ' ' 5 ' ; %" 1' ' RRT' B12*.' " ' ; %" 1' .' +%

6?=D*//'B1)2' % %'86.'D1?' 2' 0 2D;-5)' <6->)'Q Q% : .'/ *'86.'0*+1,*0',1'/,*-6,;-*'620').';D/>6, 12.' 8*-*'+*-'2;?*-1;.% : *' *0 ,*0',)*' II 15-6=)6' -,622 >6 J'620' 86.' 12*' 1',)*' 8-.*-' 1',)*' $2+*-.6/' : .,1- %J' : .', /*',1'?*2, 12' 2',) .' 81-9' -*.,.' 12',)*' =;D/>6, 12' 1 '&' ' ' 'M Q'NO' *0% Q+1X' -" " ' ' % ' 5 ' $ * ' M R' Q+1X' & ' ' % ' # ' '" '# ' ; 'M NN'K'+1/.% N 8!=? ' ; !J' 1' ' RT' 6-/ 25' "% ' ; 1' %" 1' ' SR%

6?=D*//'B1)2'62' 20*=*20*2,' ?2.,*-'86.' D1?'6,' 0 2D;-5)' 2' <6->)' SS'620'6==-*2,>*0',1' 6'51/0.?,)% D1;,' QR'6,'8)>)',?*')*'86.'6>^ ,+*/ '*2565*0' 2'?*6.;-*.' 1-',)*'*L,*2. 12'1 ' ;2^ 06 C.>)11/.')*'D*562',1'=-*=6-*')?.*/' 1-',)*')-.^ ,62' ?2.,-E% : *' .;D.*_;*2,/' + . ,*0' 12012',1' ,69*' >)6-5*' 1',8*2, C 1;-' 1;25' 26,+*.' 1' -> 6' 8)1'8*-*'D-1;5),' -1?' *--6' *12*',1'D*' 2.-;>,*0' 2')- ., 62 , ' 8 ,)' 6' + *8',1',.' 2,-10;>, 12' 2,1' ,)*-'26,+*'/620'1 620' 2' Q ')*'D*>6?*'=6.,1-'1',)*' 20*=*20*2,');->)' 2' 25./620'6'>)6-5*' 8)>)'),)*-*,6 2*0';2,/') .'0*6,)' =-/ ,D' Q % <-% 6?=^ D*//,119'62'6>,+*'=6-,' 2',)*' 1-?6, 12' 1 %,)*' -,^ .)'620' 1-* 52' D/*' 1> *, '620'.*+*-6/1,)*-' ?^ =1-,62,'-*/5 1;.' 6..1> 6, 12.% 2' Q K' D*' ?60*' 6' A1;-2* ',1',)*' ..,6, 12.'1',)*' 12012' < .. 126- ' 1^ > *, ' 2' 1;,)' ->6' -1?'8)>)')*'-*,;-2*0' 2A % ',) .'A1;-2* ')*'=;D/.)*0'62'6>>1;2,'M Q 'Q+1X%

2' Q QCK')*'-*+ . ,*0' ->6'620' 1;20'.1?*' 2,*-^ *., 25'>)625*.'=-10;>*0'D',)*'>+/[6, 12' 2,-10;>*0' D',)*' ? .. 126- *.% ()*'A1;-26/1')..*>120'+ . ,' 6==*6-*0' 2' QKK' IK'+1/.% Q+1X% <-% 6?=D*// =;/P' /.)*0'2;?*-1;.' 81-9.')*/')' 1-C,)*' 2.,-;>, 12' 1' 1;,)'620')*' 86.',)*' 1;20*-'620' 1-'*5),**2' *6-.' ,)*'*0,1-'1',)*'< "(' / 1'6'-*/5 1;.'=*-10^ >6/1'5-*6,';,/, 'B6?*.12'5 '; '=%/$ %

6?=D*//'()1?6.'12*'1',)*' 1;20*-.'1',)*' -*/5 1;.'0*21? 26, 12' 5*2*-6// '>6//*0' .>=/*. J' 86.'D1-6' *D% SN' 2' -*/620'620'0*.>*20*0' -12% 6' 6?/ ',)*' 6?=D*//.'1' -5 /* ' 8)>)'?69*.'6' =-1?2*2,' 5;-*' 2' >1,,.)').,1-EI% 2' RQ')*'*2^ ,*-*0',)*' ? 2.,- ' 2' >122*>, 12' 8,)',)6,'D-62>)'1'),)*' -*.D ,*-62');->)'8)>)'.'92182'6.' *>*0*-.' 1-' *>*0 25' -*.D ,*-*.% ** + # ! 2' Q ')*'*?5-6,*0',1',)*' $2,*0' ,6,*.'620'86.' -*>* +*0'6,')/60*/=)6' 2,1',)*' >1?? ;2 12' 1',)*' ..1>6,* 210'1' 1-,)' ?*->6% 1-'6D1;,',81' *6-.')*' .;=/*0'8,)' ? 2 .,*-6/ /6D1-',)*'0*.,.;.*' >);->)*.'1',).'>122*>, 12' 2' & *.,*-2' *22. /+62 6%)1-,/'6,*-' 2' Q R')*'86.'A1 2*0'D)' .'12' /*L^ 620*-' 6?=D*//C M_% +%X% 1,)' 6,)*-/620'.12' .112' 0*>/6-*0'656 2.',)*' ;.*'1'62')';?62'>-**0'>12 *.^ .12'1' 6,)'1-' 1-?;/6-*.' 1' 01>,- 2*' 620')>);->)' 51+*-2?*2,T 620'8)*2',)*' -'+*8.'8*-*' -*A*>,*0'D'),)*' *>*0*-.'6.'6'D10 ',)*'0-*8';='6' 0*>/6-6, 12' 620'600-*.. J' 2' 8)>)',)*'=1;.'1'6//,)*0*21? 26^ ,12.' 2',)*'+>2,'8*-*' 2+,*0',1'1-?'6';2 12'8,)' ,)*' 81-0'1',)*' D/*' 6.',)*-'12/'>-**0% '>125-*^ 56, 12' 12',)*'D6..'1',)*.*'=-2>=/*.'86.'1-562 [*0' 6,' -;,.)' ;2% ** / ' d % ()1?^ 6.' 6?=D*//-*,6 2*0'6,' -.,' 2 62,'D6=,.?'6/,)1;5)').'.12' /*L620*-'=-*..*0';=12/'>-**0% '>125-*^ 2C >125-; ,A'1'0*?620 25'62' *L=-*..' =-*>*=,'1-'=-*>*^ 0*2,' 1-'62 '=1. , +*' >);->)'1-0 262>*' 620' *,'=-6>^ ,>25' 2 62,'D6=,..?' 1-' 8)>)'2*,)*-',)*' 12*' 21-' ,)*' 1,)*-' >1;/0')*' =-10;>*0%J' 4-60;6// '()1?6.' 6?=D*//>)625*0')..'+*8.'12',)*'_;*.,12' 1'D6=^ ,.?'T 620'12'B;2*' K Q K'D1,)')*'620')..'12' /*L^ 620*-',15*,)*-'8,)',)*' ?*?D*-.'1',)*-'>125-*56^ ,12'8*-*' ??*-.*0'/ ' /0*-' ;.*'1',)*' 6=,..'>12?*^ ?;2, % 2' Q NC,)*'8*-*'-*>*+*0' 2,1' *0.,12*' 6=,..' ..1> 6, 12'.,=;/6, 25' 2' 8-,25',)6,' 21' ,*-?.'1';2 12' 1-'>1??;2 12' 1,)*-',)62',)*' :1/' >-=,;-*.').1;/0'D*'-*_;-*0%J' :*2>*1-,)' /*L62^ 0*-' 6?=D*//,119'2.,*60'1')..' 6,)*-'()1?6.',)*' /*60' 2',)*'-*/5 1;.'?1+*?*2,'8)>)'6,'/*25,)'*+*2,^ ;6,*0' 2',)*' 1-?6, 12' 1',)1.*' 8)1' . ?=6,) [*0' 8 ,)',)*?' 2,1'6'.*=6-6,*'0*21? 26, 126/'>122*>, 12% ()1?6.' 6?=D*//6D1-*0'8,)'5-*6,'[*6/'6.'62', 2*^ -62,'?2.,*-'1-',)*'0..*? 26, 12'1')..'+*8.';2,/' Q S' 8)*2'1/0'65*'>1?=*//*0')?',1'-*.,% :*'.=*2,' ,)*-*?6 20*-'1')./'*'6,' *,)62'8,)',).'.12' /*L^ 620*-% 2' Q ')*'86.'0*=-*0'1')..5),';.)' 2,*//*>,'-*?6 2*0';2>/1;0*0% :*'0*0'B62;6-' ' Q % *>' /*L620*-' 6?=D*//' ' 6 ' -" ' % 'M 2>226,' QS Q+1X' 620',)*'6-,^ >/*.' / ' . 'g / ' ' ' ! 6?=D*// .?%' **' / ' ' ' ! 6?=*' (' % ' 6' 4*-?62' >/*-5 ^ ?62' 620' 6;,)1-'86.' D1?' 2' S' 6,' **2.*2' 2' -;2.8 >9a' D*>6?*' 2' N' ?/,6- ' >)6=/6 2' 6,' 1,.06?T 2' S'0 -*>,1-'1'62'*0;>6, 126/'2.,,;^ ,122' 2' *..6;% 2' ')*'*.,6D/.)*0')..'182'*0;^ >6, 126/.>)11/6,'(-.,18'2*6-':6?D;-5'8)>)')* .1/0' 2' QN% 2' Q ')*'+-6.'6==1 2,*0'.>)11/C>1;2^ >//1-' 2' -;2.8 >9'620' 2' QS '>6212% : *'0 *0'6,' -;2.8 >9' 2' Q Q% : *' .'12*' 1',)*' 8)>)'.)6?1;.' 4*-?62'6;,)1-.'1'A;+*2/*' 81-9.'*.=*>6// ' 81-9.' 1',-6+*/% : .' 81-> 5 ' 'D 'M 1D 2.12' ,)*' 1;25*-*(')6.'D**2',-62./6,*0' 2,1' 6//' ;-1=*62' /625;65*.'620',.' ?? ?*2.*' =1=;/6-,' 2' 4*-?62' ?6'D*' 2 *--*0' -1?',)*' 6>',),)6,'6'S ,)' *0 ,12'1',' 86.' =;D/.)*0' 2' QS % : .' 8-,25.' =-*=6-*0' 2' 6' -6, 126/.,>' .= - ,'>12, D;,*0'/6-5*/ ',1' /*60' 686

,)*' A12,)' 1 ' 4*-?62 ' -1?' . ?=/*' 6 ,)' 2')- .C' , 62 , % ()*' >1?=/*,*' *0 , 12' 1 ') .' A; +*2 /*' 81-9.' cX/.N '+1/; ?*.'>$ " ') D " D 1' N,)' *0% -;2.8 >9' QKRCNKX% ' *-*-' 2 2 3 =' + 1'.% (%T : ;-.,' # ' '5 1'=% QQ%

6?=*5 1'M1,)*-8 .*' / ' / 5$ 3') - ' 6-0 26/' 86.' D1-2' 2' ' D*>6?*' =-1^ *..1-' 1 '/68' 6,' 60;6'620 '12',)*' 0*6,)' 1 ') .' 8 *' ,119' 1-0*-.' 6.' 6' =- *.,% : *' D*>6?*' 6;0 ,1-' 1 ',)*' ,/1,6 'D .)1=' 1 ' */,- '620' 2;2> 1' 2' 4*-?62 % *1' d'*/*+6,*0') ?',1',)*' =;-=/*% 2' K ')*' 86.'/*56,*' 6,',)*' ;-*?D*-5' *,'620',)*-*' 620' */.*8)*-*')*' *L*-,*0'6//) .' .9 //' 1 ' 2,- 5;*' 656 2.,',)*' * 1-?6^ , 12' 8 ,)' 5-*6,'.;>>*..% 2' KQ)*' 86.' .*2,'/*56,*' ,1' : *2- ' ' M8)1' 2' 6' 1-?*-'? .. 12')60' ?60*') ?'D .)1=' 1 ' 6/ .D;- X',1' * *>,'.1?*'.*,,/*?*2,'1 ',)*' _:*., 12' 1 ',)*' 0 +1->*% $=12',) .' 1>>6. 12')*' 86.',)*' D*6-*-' 1 '6' D;// D*..,18 25';=12' &1/.* ',)*' ?1.,'6?=/*'=18*-.',1' * *>,',)*' 0 +1->*% ()*.*'=18^ *-.')18*+*-' 8*-*' .)1-,/ ' 8 ,)0-682' 620' 6?=*^ 5 1'-*,;-2*0',1' 1?*' .)1-2' 1 'D .' D .)1=-' 1 ' 6/ .^ D;- %' : *' 86.' 6' ?62' 1 '5-*6,',6/*2,. '620' 2, ?6,*' 9218/*05*' 1 ',)*' *>>/*. 6., >6/' /68% : .' /*,,*-.' 6-*' =-*.*-+*0' 2',)*' >1//*>, 12' *2, ,/*0'6% ' 2' ' '$ ' " ' O' M 6./*' ' 1/1X% ()*-*' 8*-*' '=-*/6,*.' 1 ',) .' 6? / % ' ; ' 2 ' + ' SNN% **' ;-2*,' # ' '6 !'5 !' +1/% ' =6.. ?%

6?=*2 'B6?*.' 62 '12*' 1 ',)*' >)*.' 1 ',)*' 26D6=, .,.% ,*-',)*' *L=;/. 12' 1 ',)*' .*>,' -1?' 4*-?62 ')*' 8*2',1',)*' *,)*-/620.'620'B1)2' 1>C' >1/0'M_% +%X'6==1 2,*0') ?' 2' N 'D .)1=' 1 ' ?.,*-^ 06?% : *' 86.'*L*>;,*0' 2' N %

6?=*2 'B1)2'0*'86.'D1-2'6,' 6?=*2' 2' +*-C' 7..*/'6D1;' R %% : *'.,;0 *0' : *D-*8';20*-' *;>)C' /2'620' //*0',)*' : *D-*8' =-1 *..1-.)=' 6,' 1;+6 2' -1?' R',1' N '6 ,*-' 8)>)')*' ,-6+*//*0' 2,1' ,6^ /' 4*-?62 '620' 1/620% ,' 1?*')*' 86.'*2-1//*0' 6?125',)*' : *D-.* .,.'1 ',)*' =1=*% 2') .' 86 'D6>9' ,1' 1;+6 2%)*' 0 *0'1 ',)*' =/65;*' *=,% ' NQ% : *' =;D/ .)*0' ' ' ' % '# " =' 6 ' ' % ' 'M SK K?1XT' 6/.1' ' * '# " ' '% =' %+ ' % ' M NK S?1T ,-62.% 2,1' 25^ /.)' 120% N K ?18ST %" ' '$ '6A' '620' 1 2' '6% !' ' '5 !' ' ? !M *2>*'E 1(8!=1; !' 2 !'+'SQ T' 62012' 6 !' ' ' K %

6?=*2'()1?6.' 62% **' 1 / '(21 ,C '

6?=) -*'M 7 N * = , %'8T-=1 T' 6,%>C' % ',)*'>=2 .C/18*-X'-*20*-*0' 2'1 ;-'?6-5 2' ZC' % '7 62,% ' T' +'NX%

,'.'*2, -*/'0 *-*2,' -1?',)*' ?10*?' ' 1' %" '6/,)1;5)',)*'26?*.'6==*6-',1'D*'*, ?1/15>6// '>122*>,*0% ()*'/6,,*-' .'6'=-10;>,'1'6',-**'/6-5*/' >;/, +6,*0' 2',)*' ./620'1' 1-?1.6',)*' %" ' ** '1',)*' 6,% ' !' (/*-> .'62^ 1,)*-',-**',)*' " % ' 1' ;?6,-6' 8)>)'6/.1' */0.'>6?=)1-T' D;',' .' ?=-1D6D/*',)6,' ,)*' .;D..62>*' .*>-*,*0' D' *',)*-' 1',)*.*' ,-**.' 86.' 9218 2',1',)*'62> *2,.% ()*'=/62,' 2' ;*., 12' .' >12^ >*0*0',1'D*',)*' 2# '1',)*' -6D.'ID* ' 620' 1 '1' 22.*;.'8)>)' 6?6->9'620'.1?*'1,)*-' 26,;-6/ .,.' -*56-0'6.',)*' .6?0'.=*>*.' 620' 26?*' ,' ' 6//*5 25',)6,',)*' ,)1-2 ' *20.' 1',)*' D-62>)*.'>)6-6>,*- .,>'1',)*' /6,,*-' 6-*' 0;*' 12/ ',1' 1/0'65*T' D;',*6>)' .**?.',1'-*,6 2' ,'=*>;/6-',-6 ,.' ;20*-'>;/, +6, 12X'0*.>-D*0'D ' 1.>1-0*.'M ' KSX'620' / 2 'ML ' K X'6.'5-18 25' 2' 5A7=,'620' =-10;>25' 101- *-1;.' /18*-.' -1?' 8)>)' 86.'?60*',)*' ' % ! < 62,'-*?6-9.',)6,' ,)*' .)-;D92182' 2',)*' : *D-*8'/625;65*'D ',)*'26?*'1'+ %" ' .'>1?^ ?12' 2',)*' ./620'1' =-;.'620',)*2>*')60',.' 6, 2' R6?*' 6/.10',)6,' ',)*' ; ' % ')6.'D**2' .;=^

=1.*0',1'D*'6'9 20'1'-6-*'620'*L_; . ,*'5-6=*.',-62.^ =/62,*0' -1?' =-;.',1' 25600 T D;',)*' ; ' .' 92182',1',)*'26, +*.'1' =-;.'6.'62'101- *-1;.'.)-;D' >6//*0'" '1-' + !(J 1' % *2'<*/*9'M60' f' ' X'6.'_;1,*0'620',-62./6,*0'D ' */. ;.' I# f' 'KKNX% '8*'-* *-',1',)*'81-9.'1',)*' -6D.'8*' 20' D1,)' 2' *-6=12'620' +>*226'-* *-*2>*' -1?',)*-' 2 ',1',)*'0*.>-=, 12'D ' 1.>1-0*.'620'46/*2'1') % '1-' % ! =-*25*/ .,6,*.'> ' ' ' =' ' ' K '21,*X',)6,',)*' 2)6D,62,.'1' ;D6'>6//' ,)*')*226C=/62,')" "(:')*'-* *-.',1' */.*'>@ ' *6 % !'%!'R\8!' '81'*L6?2*',)*'81-9.'1' -*2,6/ ,-6+*//*-.'620'26,;-6/ .,.'8*'.)6// 20',)6,',) .'=/62,' .';2+*-.6// '*.,**?*0'2' 6.,*-2'>1;2,-*.'620'6=^ =*6-.',1')6+*'D**2'.1' -1?',)*'*6-/*.',?*.'D1,)'12' 6>>1;2,'1',)*' -65-62>*'1',.' /18*-.'620',)*'>1/1-25' =-1=*-,*.'1' ,.'/*6+*.'M.**' -1.=% /=2%>% NX% ,

,*?'1',)*' '8 ,)'*2/6-5*0' *8'1',)*' /18*-' *-'>6-='620' **0%

86.'*.=*>6//'6D;2062,'2*6-' .)9*/12'M /2 ' L ' T'B1.*=);.' +'Q'NX% ();.' 6;81/ '8)*2' 6,'(-=1/'>- ' +X' '1;20',)*-*'621,)*-',-**'21,' ;2/9*',2,1'1;-'=-+*,'D ',)*' -6D 62.' '& ' 1-'# '620'D',)*'4-*>62.' 2',)*-'+;/56-',125;*' ; " '8)>)',)*' ')6+*' -1?' 5A=,'8)*-*'D;' 6D1+*'6//'2' 6 -*',)*'5-18' 2' 6D;2062>*% ()*' (;-9.'620'<11-.'2;-.*',)*.*';='8 ,)'5-*6,'>6-*'620' 0/5*2>*'D*>6;.*' 1',)*-'.8**,C.?*// 25' /18*-.% ()*'6/.1'6.'6?'?182*09**=',)*-'=/*6+*.'6//8 2^ ,*-'8)>)'/*6+*.',)*' =180*-'620'?L'8 ,)',)*'A; >*' 1'>,-12.'620'.,6 2',)*-*8 ,)'656 2.,'5-*6,')1/06 .' ,)*)6-'620'26/.'1',)*-')/0-*2'1'6'-*0'>1/1-' %8)>)'>1/1-'?6'=*-)6=.'D*'.**2'+ ,)',.'12',)*'?62*.' 620',6/.'1'(;-9.)')1-.*.J'M.**'6/.1' */12' ' X% ()*'+6- *, ' OO ' ' % '.'/6-5*-',)62',)*' 1,)*-'5-18 25',1'6')*5),'1'-1?'1;-',1'.L' **,T ,.' /18*-.'6-*'/*..'6D;2062,'620'/*..' -65-62,'D;',)6+*' 6'?1-*'=18*-;// '>1/1-25'=-1=*-, %I' 2'6==*6-62>*' D1,)'=/62,.'-*.*?D/*'? -,/*T ,)*' /18*-.'M8)>)'5-18' 2'>/;.,*-.X6-*'.?6//620'D*);.; // '8),*'620'*L)6/*' 62'65-**6D/*'101-% ()*'81?*2',69*'5-*6,'=/*6.;-*' 2',)*?% ()*')1/0',)*?'2',)*-')620'>62',)*?' 2',)*-'D1.1?'620'9**=',)*?'2',)*-'6=6-,?*2,.',1' =*-;?*',)*'6-'M>1?=% 62,' ' NX% (1'=-*=6-*',)*' /*6+*.'1-',)*';.*',1'8)>)',)*'=/62,'.'.1'5*2*-6// ' 6==/*0'D',)*'81?*2'1' 5 =,',)*'6->'56,)*-*0' 6D1;',)*'>1?2>*?*2,'1'.=-25'620')6+25'D**2' *L21.*0',1',)1'6-',//,)1-1;5)/'0- '6-*'-*0;>*0',1

-*,6- ' 1 ' ,6,* ' 620')1' 86.' 6--*.,*0 ' >6-- *0' ,1' ,)*' (18*-' 620' =; ,' >-; *// ' ,1' ,)*' ,1-,;-* 8) >)')*' D1-*' >1; -65*1; ./ ' 2' ,)*' .,' 1 ' *>* ?D*-' Q ')*' ,W' 5*,)*-' 8 ,)' .*+*-6/ 1,)*-' 1? .)'=- *.,. ' 86.')625*0' 6,' (D; ?' 12' ,)*' >)6-5*' 1 ') 5)',-*6.12 ,)*-' 81-9.' 1 ' 6?= 62' 6-*' 7 ' ' ' # ' N ' M 1;6 ' SKKX' 6% ' ' ' M,)*' 5*2*-6/ 1 ',)*' B*.; ,.' 2,8*-=' SN X' 6' # ' ' ' M ;D/ 2 ' SNN' 1/%X' '+1/; ?*' 1 ' , '6% ' 620') .' ,-*6, .*' ' '- ' ;" ' 8*-*' =; D/ .)*0' 2' 121' +1/; ?*' 6,' 251/.,60,' M S KX% : .' / *' 86.' 8- ,,*2' D ' 6; / 1?D 21 '6' B*.; ,' MD*.,' *0 , 12 ' < 62^ ,;6 ' SK ' Q+1X% ' : ; ?*' # ' '6 ' >)% L / ' : 119 ' 6 !' ; ' ' KQ%

6?= 62' < 62; .>- =,': .' / 5 ' ' >6//*0' -1?',)*' DD ' 0*.' 6?=. ' 8)1' =-*.*2,*0' ,' ,1' 1; .' d ' 2' X' 6' D*6;, ; / ,,/*' 4-**9' < % 1 ' ,)*' 1;-' 41.=*/.' 2' +* ' 2*6,' ;2> 6/ /*,,*-. ' .;==1.*0' ,1' D*/125' ,1',)*' 2 2,)' 1-',*2,)' >*2,;- % ,' 86.' ;.*0' D ' & *,.,* 2 ' -*C*L6? 2*0' D ' >)1/['>1= *0' D ' (.>)C *201- ' 620' >1//6,*0' D ' (-*5*//*. ' ,' >12,6 2.' ?62 ' 5110' -*60 25.% *. 0*.' ,)*' 20 >6, 12.' 1 '.*>, 12.' 2' ,)*' ?6-5 2',)*-*' 6-*' 6/.1'.>)1/ 6 '.1?*' 1 ',)*?' 2',)1' ?1.,' ? 2;,*' 8-, 25% *. 0*.' 6>>*2,.' 620' D-*6,)^ 25. ' ,)*' 81-0.' 6-*' ?6-9*0' 8 ,)' 6' ? ;. >6/ 21,6, 12% ()1' < % .' 218' 2' ,)*' ?=*- 6/ D-6- ' 6,' 6- .' M8)*-*' ,' .' 2; ?D*-*0' QX' 620' .' 9217+2' 6.' <' 1 ',)*' 41.=*/.% ' >- +*2*-' !' '7!' -!'=% % **' L $ / ' 8 !

,

;1=' E '!P' ' ' K #*0

=180*-' 8) >)' D* 2!' 6 ,*-86-0' ?60*' 2,1' 6' =6.,*' .' ,)*2' ,' 1-' ,.*% (25' =6.,*' -*_; -*.' 6D1;,' +*')1;-.' ,1' 0- ' ;=12' 8)6,*+*-' =6-,' ,' ?6 ' D*' /6 0 ' 620' ,)*' -*0' , 25*' ,' ?=6-,.' .' 0; -6D/*% ,' 86.' 62> *2,/ ' 6==/ *0' ,1' ,)*' 26 /.' 1 ' ,)*')620.' 620' **,' ,1' ,)*' .1/*.' 1 ',)*' **,' 620' ,)*' =6/?.' 1 ',)*')620.' 620' .1?*, ?*.' ,1' ,)*')6 -% - 0*.' 2' *-. 6' 6-*' ., //' ,) ; .' 1-26?*2,*0' 12' ,)*' 2 5),' D* 1-*' ?6-- 65*M -' & ?% ; .*/*A7.' - ' *?6' ' S X' -1?',)*' 6==*6-62>*' 1 ',)*' 2) /.' 1 '?; ?? *.',)*-*'>62' D*' 21' 01; D;',)6,' ,' 86.' ; .*0' 2' ,)*' .6?*' ?622*-' D ',)*' 5 =, 62.' 6.' ,' .' D ',)* -' 0*7' .>*2062,I I' 2',)*' =-*.*2,'06 7' ()*' *L=-*.. 12' -*20*-^ *0' 2' *;% LL ' K' 2' 0 -*>, 25',)*',-*6,?*2,'1 '6' *^ ?6/*' >6=, +*' =6-*')*-' 26 /. J' .' .; ==1.*0' ,1' ?*62' '601-2')*-' 26 /. J' 620' 81; /0' ?=/ ',)*' 62, _; , '1 ' ,) .' =-6>, >*' 6/,)1; 5)' 1,)*-.' 6-*' 1 ' 1= 2 12',)6,',)*' ?6-5 26/ -*60 25 ' '.; / *-' ,1' 5-18 J' .',)*' ?1-*' >1-^ -*>,'.*2.*' 6.' 62' 6>,'1 ' ?1; -2 25% **' + ! 1-',)*' .> *2, >' >/6.. 0>6, 12' 1 ',) .' =/62, ' .**',)*' % 1' .% +% 68.12 6% ()*' .)-; D' .' 5C I' -*0' 620' 0*.>- D*0' D ' 122 2 ' - 1' ' S T' .**' 6/.1' *0?622 '$!' 'R T' + ' K' ._% T: 6..*/_ .,' - ' =% NT')68 ' - ' =% NT' : 6-,?622 ' # !' ' N S' ._% T ;7.*/' & %% 1' ' N T' < 6- , ' =% T' 1-C .96/' V 1-% =% T ;->9)6-0,' & ' =% KT' 62*' !' 6 !' ' KT' 1.*2?;//*-' ; !' ; '=% NNT ! /9 2C Q12' & !' 6 !' 'N % **' ?8 #!' ± =

6?=); .*2' 0 ' ' / ' -' 6' ;.>)' ,)*1/15 62' 86.' D1?' 2' SQ' 6,' 41-9; ?% :*' 86.' -.,' 6' /620.>6=*' =6 2,*-' 620' -1.*' ,1' *? 2*2>*' 2') .' 6-,% ,*-86-0')6+ 25' 0*+1,*0') ?.*/' ,1',)*1/15 >6/ .,; 0^ *.')*' D*>6?*' 12**' 1',)*'/*60*-.' 1',)*' 1> 2 62.% :*' 86.' *L=*//*0' -1?') .' =6- .)' /*,,*2' 620' 0 *0' 6,' 1>>; ?' 2' SKS% :*' =; D/ .)*0' -" " ' + ' M ?.,% S ' Q+1T' S K' ,1X' 620' 6' -) ?*0' ,-62./6^ ,12' 1 ',)*' ,6/?.' 2' ;,>)' SQ % ' D 15-6=) ' 1 ' 6?=); .*2' 86.' =; D/ .)*0' D ' -1=?62' M ?.,*-06?' Q X% ' /1* *-' ; !' ?+ ' + ' NRR

6?= 62' > $ ' 62' 25/ .)' 6=1.,6,*' 620' B*.^ ; ,' 86.' D1-2' 2' 12012' 2' ' 620' 86.' *0; >6,*0' 6,')- . ,.' : 1.= ,6/% :*' ,119') .' 0*5-**.' 6,' L 1-0' 8)*-*')*' ?60*' 62' 1-6, 12' D* 1-*' #; **2' / [6D*,)' 12')*-' + . ' ,1' ,)6,' $2 +*-. , % ,*-86-0')*' =6..*0' 1+*-' 2,1' -*/620' 620' 6D1; ,' ' =-1>**0*0' ,1' 1; 6' 8)*-*')*' 1=*2/ ' -*21; 2>*0' ,)*' * 1-,2*0' 6 ,)% :*' 8*2',1' 1?*' 620' 86.' 60,2 ,,*0' 6' B*.; ,' 2' N% :*' 86.' .*2,'D ' 4-*51- ' d '6/125' 8 ,)',)*' B*.; ,' 6-^ .12.' 2,1' 25/620' 2' B; 2*' Q % :*-*' =*- 1-?^ *0' 6//',)*' 0; ,*.' 1 '6' [*6/1; .' =-1+ 2> 6/ ' 620' 0 / 5*2,^ / ' =-1=656,*0' D .' 1= 2 12.% 2' Q ')*' =- 2,*0' 5 ' ' '

-*?6 2*0' .*+*-6/ 06 .7' 08*// 25' 2' ,*2,.% ,' 86.' 6' 8120*- ;/ 1>>6. 12% *>,6- 62' 0 + . 12.' .**?*0' ,1')6+*' D**2' 1-51,,*2' 2' ,)*' 5*2*-6/ >12>*-2' 1-' ,)*' = >+6/*2>*' 1 ' .= - .,;6/ -*/ 5 12% ()*' .*-+ >*.' 8*-*' >120;>,*0' D ' -*.D ,*- 62. ' 6=, .,. '620' < *,)10 .,.% ()*' -* . ;/,' 86.' ;2=6-6//*/*0' 620' . ;55*.,*0' 621,)*-' ?**, 25' 1 ' ,)*' 9 20 ' 8) >)' 86.')*/0' 12' ,)*' < ;00 ' +*-' 620' ., //621,)*-' 12' 8)6,'86.'>6//*0',)*' 05*' D1,)'1 ' 8) >)' 8*-*' 6,,*20*0' D ' ? ?*2.*',)-125.% ' 6'=-;07=,' *., ?6,*' ,' 86.'-*>912*0',)6,' 12*') ;20-*0' .1;/.' 8*-*' 600*0',1',)*' 1-07'6,',)*/16.,C26?*0'?**,^ 25% -1?',) .';2=-*?*0 ,6,*0'D*5 22 25',)*.*'?**,^ 25.' 8*-*' *L,*20*0' 2>-*6. 25' 2' =18*-' 620' ;.*^ ;/2*.. ' ;20*-' ,)*' .=*> 6/ 0 -*>, 12'1 ' -*.D ,*- 62.' 620' <*,)10 .,.% *>6;.*' 1 ',) .' ;2 12' 1 '.*>,.' 2' ,)* -' .;==1-,',)* ' 8*-*' >6//*0' `5*2*-6/ >6?=C?**,^ 25.%' ,' .' .6 0',)6,',)*' -160.'/*60 25',1',)*' 5-1+*' 8)*-*',)* ' 8*-*')*/0'8*-*'/ ,*-6// '>-180*0'620',)6,' *2, -*' 2* 5)D1-)110.' 8*-*' 1-.69*2' 1',)* -' 2)6D ,^ 62,.% ' -*.D ,*- 62' ? 2 .,*-' >6/>;/6,*0',)6,',)*-*' 8*-*' 6,'/*6..',8*2, ',)1;.620'=*-.12.' =-*.*2,'6,'12*' ?**, 25')*/0' 2' *2,;>9 % ,'/*25,)')18*+*-',)*' -*.D ,*- 62.' 5-60;6// ' -*, -*0' -1?',)*' */0'D;,' ,)*' <*,)10 ..,' >6-- *0',)*?' 2,1' 1,)*-' =6-,.' 1 ',)*' >1;2,- ',// ,)* 'D*>6?*' 5*2*-6/ 2',)*' >122*>, 12% & ,)'?1-*' 1-'/*..' * >6> ',)*' ')6+*' D**2'>12, 2;*0',1',)*' =-*.*2,', ?*'21,')18*+*-'8 ,)1;,'1==1. , 12' 12',)*'=6-,'1 '.1?*'620' ? .5 + 25.'8 ,)' ?62 '1,)*-.' 2'-*56-0',1',)* -' *L=*0 *A > J'16 ' ' %= 9 1'=% C X% ()*' >6?=C?**, 25.' 8*-*' 2,-10;>*0' 2,1' 25/620' D ' *+% 1-*2[1' 18' M_% +%X' 62' *6-2*.,' <*,)10 .,' =-*6>)*-' 8)1'6 ,*-' /6D1- 25' 1-' .1?*' , ?*' 2' 25^ /620'6.'62' 20*=*20*2,' , 2*-62, '620' 20 25' 2' Q ' 6' 5*2*-6/ -*/ 5 1;.' 2,*-*.,' 2' ,6 1-0.)-*' .;55*.,^ *0',1',)*' =*1=/*' ,)*' =/62' 1 ' >6?=C?**, 25.%I' ()*' =*1=/*' ?**0 6,*/ ' 601=,*0',% ' 065' 86.')1 .,*0' 12' 18' : //T ,)*' =1=;/6, 12' 56,)*-*0',1' ,' -1?' 6//,)*' .;-1;20 25' -*5 12.' 620',)*' -.,' 25/ .)'>6?=C' ?*>,/25'86.')*/0' & // 6?' /18*.'620' : ;5)' 1;-2*' 8)1'8*-*' 6?125',)*' ?1.,' [*6/1;.' 620' ;.* ;/ /6 ?*2' 2',)*' -*+ +6/.' 1 ',)6,' =*- 10',119' 62' 6>, +*' =6-,' 2' ,)*' -.,' ?**, 25.% 1;-2*' + 20 >6,*0',)*?' 2'6'=6?^ =)/*, ' 8) >)'>6//*0' 1-,)'>1;2,*-'=;D/ >6, 12.' -1?',)*' =-*6>)*-.' 1 ' ;-./*?' 620' <6>>/*. */0' > ->; ,.% .' ,' 86.'6//*5*0',)6,' ?62 ' *L>*..*.'6,,*20*0' .;>)' 1;,^ 011-' .*-+ >*.',)1' &*./* 62' 12 *-*2>*' 2' Q '0*^ >/6-*0' ' ,' .' 1;-'A;05?*2',,)6, '*+*2' .;==1. 25' .;>)' ?**, 25.',1' D*' 6//1866D/*' 2' ?*- >6',)*' '6-*') 5)/ ' ?=-1=*-' 2' 25/620'620' / 9*/ ',1' D1' =-10;>, +*' 1 ' >12. 0*-6D/*' ? .>) * ' 620' 81' 0 .>/6 ?' >122*>, 12' D;.' I' 8 ,)',)*?IJ' ()*-' 60+1>6,*.')18*+*-' >12, 2;*0',1')1/0',)*?% :;5)' 1;-2*' 8)1'6-1;.*0',)*' =*1=/*' 1 ' / 2>6.) -*')*.) -*' 620% ,6 1-0.) -*' 8 ,)') 0' *L^)1-,6, 12.'620'=-6 *-.' 86.' *L=*/*0' 2' Q Q' -1?',)*' >122*>, 12' D ',)1' ;-./1?' # ;6-,*-/ ''-/**, 25T 620' ,81' *6-.'/6,*-' /18*.' 8)1' >12, 2;*0',1' 6,,*20',)*' >6?=C?**, 25.'86.'6/.1'*L=*//*0% /18*.'>1?7?*2>*0' 6'>1;-.*' 1')1?*C? .. 126- '/6D1-.'5 + 25';=') .'D;. I' 2*..' 1-',)*' =;-=1.*% 2' Q ',)*' - ?, +*' <*,)^ 10 .,J' 0*21? 26, 12' 86.'1-562 [*0' 8) >)' .62>, 12*0' ,)*')6D ,' 1 '=-*6>) 25' 2' >6?=C?**, 25. '6.' 8*//6.' 2' ?6-9*,C=/6>*.' 620' 12',)*') 5)86 .% **' L ' + ! ()*' & *./* 62' 12 *-*2>*')65' 2*+*-',69*2'/76*9' ,.'0 .6==-1+6/'1 ',D1'>6?=C?**, 25.'D;,',)1' & *./> 62.' 2' -*/620'>1?7?*2>*0',1')1/0'>6?=C' ?**, 25.' 2' Q# '620',)*-'162-"' ' "'6 ' ,119' 5-1;20' 2' 6+1-' 1',)*?% C *>& ' 6 ' ' %A I '17!' % QI RX% ,*+*2.'# ' ' "9 ' ' KK T 625.'# ' ' !'61' " "' ' T 1-,*-' % ' ' " 1' =% S' SQ' 1-,*-' ' %= 'M % %K ?1XT "!' !' =' ' QS '=' QK% 6?;.'0> '+ ' .)1=' 1 ' *//* '86.'D1-2' 6,' 6- .' 2' QK'620'86.'>12.*>-6,*0'D .)1=' ;5% N ' S R% :*'0*+1,*0'6//') .'*2*-5 *.',1',)*'0;.*.'1 ') .' 0 1>*.*'*.=*> 6// ' 2'-* 1-? 25'6D;.*.'620'*20*6+1-^ 25',1'D- 25'D6>9',)*' ?129.'620'2;2.',1'6'-*5;/6-' / *% 2',)*'/6,.*-'=1 2,')*'86.'-5 0% 2' SKR')*' -*. 52*0') .'.**'620'-*, .*0'2,1',)*'6DD* '1 ' ;/26 7' 5 +*2',1') ?'D ',)*'9 25';=12') .' -*. 526, 12'1 ') .' D .)1=- >% :*'6 ,*-86-0'*2,*-*0',)*' :1.= ,6/1 ' 2^ >;-6D/*.'1 ' 6- .'8)*-*')*' 0*0' =-/ KS S N% ()*' 2;?D*-'1 ') .'8- , 25.' .' ?**2.*T ,)*' DD*' >' /*->' 6,,- D;,*.',1') ?'?1-*',)62',81') ;20-*0'+1/;?*. >12^ . ., 25' 1 '>12,-1+*-. 6/' ?1-6/' 620' 0*+1;,',-*6, .*.' .*-?12.''/*,,*-. '620'-*/5 1;.' 21+*/.% :*'86.'6'D .^ ,*-' 620' .6->6., >' 1*' 1 ',D*' <*20 >62,' 1-0*-.% ' 12^ 012' 6 ' ' ' ' KST >>-*2' LLL+ ' RK% 626'M 6-6X'6',182' 2'46/ /**'21,' 6-' -1?' 6^ =*-26;?'620'12'D 5D*-' 5-1;20'TF ,' .' ?*?1-6D/*' 6.' ,)*' .>*2*' 1 ')- .,.' -.,' ? -6>)*' MB1)2' ' C T' +' SXI'6.'8*//6.'1'6'.;D.*_;*2,'>2*'M+' SC X'620'6/.1' 6.',)*' 26, +*' =/6>*' 1 ',)*' 6=1.,/*' 6,)62 */'ML' 'KX% -" ' 626' .'21,'26?*0' ,)*' /0' (*.,6?*2,'D;,' .' ?*2, 12*0'D 'B1.*=);.' /.' 6'+ //65*' 1 '46/ /**' I ' 3 g' S' S T' ' ' ' X% ()*' .,*)6.';.;6// 'D**2' 0*2, *0' 8 ,)',)*'=-*.*2,'6(') '6'.?6//=/6>*' 6D1;,' 1;-'?'/*.'21-.)C*6.,'-1?' 6[6-*,)'12'12*' 1 ',)*'-160.',1'(D*-6.* ,'.'6'2*6,'+ //65*'=/*6.62,/' .,;6,*0'12',)*'0*.>*2,'1'6') // /119 25',1',)*' .1;,)C' &>.,'620'.;--1;20*0'D '=/62,6, 12.'1'1/ +*'620'1,)*-' -;,C,-**.% ()*-*' .'6'/6-5*' .=-25' 2',)*'2* 5)D1-^)110'*2>/1.*0'D '6'86//'8)>)' ',) .')*',)*' 626'1' ,)*' *8'(*.,6?*2,' .'01;D,/*..',)6,'-1?'8)>)'86^ ,*-'86.'0-6826',)*' , ?*'1'1;-' 1-0 .'+ .,% ,'.' 6/.1'1D.*-+6D/*',)6,' 6,*-C=1,.'1'>1?=6>;/?*.,12*' ('.., //';.*0' 2',) .'2* 5)D1-)110'620'.1?*' 1/0' 12*.' 6-*'6.'?5),'D*'*L=*>,*0'.)182'6.',)1.*')>)'12>*' >12,6 2*0',)*'? -6>;/1;.'8 2*% :*-*'6->'6)1',)*'-*^ ?6 2.'1'6'4-**9'>);->);.'.6 0',1'..,620'1+*-')*')1;.*' 2' 8)>)',)*'?-6>/*' 86.' =*- 1-?*0'620' 01;D,/*..' ?;>)' 1/0*-' ,)*' 1;2,6 2' -1?' 8)>)' ,)*' 86,*-' 1-' ,)*' ?-6>/*' 86.' D-1;5),'M<./2' ' NC X% ()*')-.,62.'1',)*'+ //65*' 6-*' *2,-*/' 1',)*' 4-**9');->)% ()*' 86,*-C=1,.'1'.,12*J'8*-*' .)182',1' <% 6?6-,2*',)1;5)' 6,' // D6/0.'+ .,'>*2,;-*.' D* 1-*',)*-*')60'D**2'D;,'12*'-*?6 2 25'16 '- !' =% X' 2',)*',)*'?*'1',)*' -;.60*.',)*' L'* ' 8*-*'!' =)/*,'8)>)'>6//*0' 1-,)'>1;2,*-'=;D/>6, 12.'-1?',)*' =-*6>)*-.' 1' ;-./*?'620' <6>>/*. */0' > ->; ,.% .' ,' 86.'6//*5*0',)6,'?62 '*L>*..*.'6,,*20*0' .;>)' 1;,^ 011-'.*-+ >*.',)1' &*./* 62' 12 *-*2>*' 2' Q '0*^ >/6-*0' ' ,' .' 1;-'A;05?*2',,)6, '*+*2' .;==1. 25' .;>)' ?**, 25.',1' D*' 6//1866D/*' 2' ?*- >6',)*' '6-*') 5)/ ' ?=-1=*-' 2' 25/620'620' / 9*/ ',1' D1' =-10;>, +*' 1 ' >12. 0*-6D/*' ? .>) * ' 620' 81' 0 .>/6 ?' >122*>, 12' D;.' I' 8 ,)',)*?IJ' ()*-' 60+1>6,*.')18*+*-' >12, 2;*0',1')1/0',)*?% :;5)' 1;-2*' 8)1'6-1;.*0',)*' =*1=/*' 1 ' / 2>6.) -*')*.) -*' 620% ,6 1-0.) -*' 8 ,)') 0' *L^)1-,6, 12.'620'=-6 *-.' 86.' *L=*//*0' 2' Q Q' -1?',)*' >122*>, 12' D ',)1' ;-./1?' # ;6-,*-/ ''-/**, 25T 620' ,81' *6-.'/6,*-' /18*.' 8)1' >12, 2;*0',1' 6,,*20',)*' >6?=C?**, 25.'86.'6/.1'*L=*//*0% /18*.'>1?7?*2>*0' 6'>1;-.*' 1')1?*C? .. 126- '/6D1-.'5 + 25';=') .'D;. I' 2*..' 1-',)*' =;-=1.*% 2' Q ',)*' - ?, +*' <*,)^ 10 .,J' 0*21? 26, 12' 86.'1-562 [*0' 8) >)' .62>, 12*0' ,)*')6D ,' 1 '=-*6>) 25' 2' >6?=C?**, 25. '6.' 8*//6.' 2' ?6-9*,C=/6>*.' 620' 12',)*') 5)86 .% **' L ' + ! ()*' & *./* 62' 12 *-*2>*')65' 2*+*-',69*2'/76*9' ,.'0 .6==-1+6/'1 ',D1'>6?=C?**, 25.'D;,',)1' & *./> 62.' 2' -*/620'>1?7?*2>*0',1')1/0'>6?=C' ?**, 25.' 2' Q# '620',)*-'162-"' ' "'6 ' ,119' 5-1;20' 2' 6+1-' 1',)*?% C *>& ' 6 ' ' %A I '17!' % QI RX% ,*+*2.'# ' ' "9 ' ' KK T 625.'# ' ' !'61' " "' ' T

,'86.'12>*'6'>12. 0*-6D/*'+ //65*'1'8*//CD; /,'D1;..*.'218'0*..*-,*0 <62'1',)*'08*// 25.'6-*'2'-;2.( )*-*'6-*'6/.1'..*+*-6/'6->)*.'D*/125 25',1'?10*?'I)1;..*.'D;,'8*'>1;/0'0.>1+*-'21',-6>*.'1'62,_;,J'I ';'5 "1'= QX

()*'/0'(*.,6?*2,'?*2, 12.',8D'1,)*-'=/6>*.'D',)*'.6?*'26?*'M 7 :X'12*'12',)*'D1;206-'D*,8**2'<626..*)'620'=/-6?'MB1.)'L+'QT'L+'R X',)*'1,)*-'2',)*',-D*'1'.)*-'MB1.)'L C+'KQX()*'-^6>')6.'6,26'1-',)*'626'1',)*'41.=*/.T'620',).'>1?=6-*.'.1?*8)6,'8,)',)*' "=+1'M_+X'12',)*'D1-0*-'1'U*D;/12'MB1.)'L L'NX'8)>)'6==*6-.'1')6+*'1>>;=*0',)*'.,*'1',)*'=-*.*2,'*-'*226&)*,)*-',)*'46//*62'+//65*') "'MG7BNX?*2, 12^*0'2',)*'(6/?;0'I< +1="-8'.',)*'.6?*'8,)'626'1'46//**'.';2>*-,6 2'M>1?=,)1' '5 "!=B X)()*-*'6-*',-*6, .*.'12'+6-1;.'=1 2,.'>122*>,*0'8,)')-.,.'-.,'?->/*'6,'626'2'6, 2'D'-*20*/M.*2D Q X'6.);.*2'M*-+ KSX'4*1-5;.'M ,*D X':*D*2..-* ,'MB*2 SRNX':1)*.*/M4*062 NKX'<6*-'M4-=) NX'*0*-'M 21/0 K X'1??*/M ;20 NX'(6D 25'M -*?' SRNX'*>)2*-ZM:*/?' S XT'620'2'4*-?62'D'/6,,'M2';.9 20.'/'L+'N'._X

6 2 6 7'M:*D)$! 1' HHHI'=.-)6=.' :'*=,'620' (E T B1.*=);.'d2-06, 1-X',)*'26?*'1'6'?62'620'1'6'>1;2,-'=*1=/*0'D ').'0*.>*2062,.

()*'1;-,)'.12'1':6?'620'5-620.12'1'16)'M4*2 d'ST'3)-12 'QT'>1?=B1.*=);.'& ''S' X ="=1.,'K ()*',-62.5-*..12'1').'6,)*-':6?'M4*2 L'KKCK X',1'8)>)'.1?*.;==1.* 62662',1')6+7* D**2'2'.1?*86'6'=6-,'56+*'1>>6.12',1'16)',1'=-121;2>*',)6,'011?'12',)*'0*.>*2062,.'1'62662'8)>)'86.'=*-)6=.'6,',)6,'?1=*;,'?60*'92182',1')?'D'12*'1',)1.*'*L,*?=1-62*1;.'2.=^-6, 12.'8,)'8)>)',)*'=6,-6->)6/6,)*-.'6==*6-'2'1,)*-'2.,62>*.',1')6+*'D**2'6+1-*0 *'8 '()6,',)*-*'.'21'A;.,'5-1;20'1-',)*'>12>/;.12',)6,'),)*'0*.>*2062,.'1'62662'8*-*';-.*0'6.'62'??*0^6,*'4'1',)*',-62.5-*..12'1':6?'.'.)182'D'-1*..1-'; .)'8)1'2').'7'?1')6.7 6 -/'?*,',)*'0>;/,*.'1',)*'.;DA*>,%' ,,1'A'%'+' D**'% !

()*=1..,*-,'1'62662'86.'2;?*-1;.' .'*/0^*.,'.12'U012'1;20*0',)*'>,'1',)*'.6?*'26?*'620'86.'6,)*-'1',)*' 012 62.'620')1*2>62.' 6^2662')60',*2'1,)*-'.12.'8)1'8*-*'6,)*-.'1'6.'?62',- D*.'08*// 25'2'6/*.,2*'620' -6'M4*2 L'C RT')-12' NX' ,'.'D*/'*+*0',)6,'62662'/+*0'620'0*0'2'6/*.,2*'8)>)'-1?')?'86.'>6//*0',)*'/620'1'62662 **'

K ()*.?=/*'26?*' 62662J'.'.1?*,?*.'*?^=/1*0'1-',)*'>1;2,-',..*/'?1-*'5*2*-6// ',,40*0',)*'/620'1'J' ,'.'.1'2'U*=) 'T'620'8*'6/.1'20' 625;65*'1'J'M.6 L'QXT' 6-.'1'J MB;05 XT' 2)6D,62,.'1'J'M L10 L+' XT' 25'1'J MB;05 +'K 7'K T'+' RXT' 6;5)^,*-.'1'J M4*2 LL+' 'S'QT'LLL+'KXT' 25^01?.'1'J M .6 >LLL+7' X' 2'600,12',1',)*'6D1+*',)*'81-0'1>>;-.'2'.*+*-6/=6..65*.'8)*-*',.'>12>*6/*0'2',)*' ;,D *-.'D'D*25',-62./6,*0 ()*.*'6-*'.6 LL 'Q',-6 >9*-.J'620'LL ' ',)*'?*->)62,'>, TJ':1. L'K':*'.'6'?*-^>)62,TJ'U*=) ' '?*->)62,C=*1=/*J'?,)Q ' ' '

) ' ' ':QRSS' 6>>1-0 25',1'.1?*'-1?',.'D* 25' .'.**'K)-12 LL+' RT' B1D'L/'K'6?125'1,)*-'=6..65*.'2'8)>)',)*'+*-D'.';.*OX'6'26?*'0*21, 25', ?'>1;2,-'8*.','1',)*'B1-062'620'*60' *6'M4*2 L' KT' *;, L'N X'620'D*,8**2',)1.*'86,*-.620',)*'<*0 ,*--62*62T .=*> 6// '1==1.*0',1',)*'/620'1'4 /*60J',)6,'.',)*')5)',6D/*C/620 12',)*'*6.,'1',)*'B1-062'M ;?'LLL 'KS NKT' LLL 'T B1.)'LL 'NKT .**'6/.1'4*2 L'T' LL 'K RT' LLL ' QT LLL ' QT' LLL+'ST' LLL+ ' T' L/+ ' T' L$L'N T ;?L 'K' T' LLL ' 'S T' B1.)'L+'KT' B;05'LL 'KX (-;*',)*'0.,->,',1'8)>)',)*'26?*'1' /18'/620J'.',);.'6==/*0',)*'>12,6 2*0'?62 '+*- '*/*+6,*0'.=1,.T D*>)*?'M4*2 LLL QX' :*D-12'MLL 'RX' *,)*/MLLL+'SX' *,)/*)*?'MA/+ 'X') /1)'MB1.)'LL 'KT' B;05 LL 'KX'8)>)'6-*'6//.,6,*0',1'D*'2',)* /620'1'62662J' ;,'5) 6.',)*'/*+*/1'?;)'1',)*'>1;2,-'8*.,'1',)*'B1-062';201;D,*0/'.',)*'6-*'.*+*-6/,)25.'8)>)'I?;,'6/86.'>)6+'=-*+*2,*0',-1?'/*6+25'6'?6-9*0'?=-*..12'1'5*2*-6/*/*+6,12 ()*.*'6-*'M X',)6,'-*?6-96D/*'8 0*'?6-,?*'=/6 2'1+*-'8)>)',)*'*'*-625*.'1-'?/*.'-1?',)*'>2,-6/D//.'6'*6^,;-*'1',)*'>1;2,-'8)>)'>6221,'D*'1+*-/119*0'D',)*'?1.,'>6.;6/1D.*-+*-'620'8)>)'?=-*..*.',.*/'?1.,'20*/D/'12',)*'-*>1//*>,12 MKX',)*.,//0**=*-'620'?1-*'-*?6-96D/*'620'?=-*..+*')1//18'1',)*'B1-^062'+6//*'6'+*8'2,1'8)>)'?6')*'>1?620*0'-1?'6/?1.,'62'1',)*')*'5),.'1'*2,-6/6/*.,2*1 620'MNX',)*-*'.',)*'6/?1.,'>12.D?,'=-*.*2>*'1',)*'/125')5)'/2*'1',)*'?1;2,6 2.'*6.,'1',)*'B1-062'8)>)'-1?',)*-'0.,62>*'1>6+*',)*'*>,'?1-*'1'62'*21-?1;'/'),)62'1'6'?1)6,6 2'-625*'/119 25'0182'12',)*'?1-*'D-19*2'620'.1/6,*0')//.'1'62662'620';-2.)25'K>12.,62,'.,6206-0'1')*5),'D*1-*'8)>)' ',)25'.'086-*0 ()*.*'>12.0*-6,12.'6->'D6.*0';=12',)*'.;==1.,12',)6,',)*'26?*'86.'0*^-+*0'-1?',)*'26,;-6/*6,;-*.'1',)*'>1;2,-' ;,),.'.'21,'>1?,*262>*0'D'>-=,;-*' 62662'86.',)*'.12'1':6?' :*'620')./8)1/*'6?/'>1/12 [*0'&*.,*-2' -6'620'8)/*',)*'8)1/*'-*5 12',119').'26?*'0*-*2,'.*>,12.'1','8*-*'>6//*0'6,*-')./.12.'M4*2 d' CK X' -6?'86.'6'.12'1')*?'620').'0*.>*2062,.'>1/12 [*0',)*'1>2,-'1'-6?'M4*2 L'K CN X' 2',)*'1,)*-')620'-6?'>6221,'6,'/*6.,'6D^.1/;,*/'D*',*-?*0'6')5)/620'-*5 12J' ,'>1?^=-.*0',)*'+6.,'=/6 2.'6/125',)*'D629.'1',)*' ;=)-6,*.'620'8*.,86-0',1',)*' -12,*.'620' 2, C D62;..'6^2662'12',)*'8)1/*')18*+*-'.'-6,)*-'6')//'>1;2,-'8,)',..-=.'1'=/6 2'6/125',)*'>16.,' 2'12*'=6..65*'.`:0.,25;.)*0'-1?',)*'/18'+6//*'1',)*'B1-062'M4*2 L' KX' 2'.)1-,',)*',*-?.'-6?'620'6^2662 C 'D*.,18*0'8,)'62'-*'*-*2>*',1',)*'>1?=6-6^,+*'*/*+6,12'1',)*'-*.=*>,+*'>1;2,-*.'')6+*'6'?*-*^/'-*/6,+*'.52 >62>*'T',)*'/6,,*-'/ 25'2*6-*-',)*'.*6C>16.,'8)/*',)*'1-?*-'*.=*> 6//',)6,'=6-,'1',)*8)*-*',)*':*D-*8'=6,-6->).'1-5 26,*0''.',;6,*0',186-0',)*'2,*-1-')*60C86,*-.'1',)*'5-*6,'-+*-'=)-6,*.' **' !

()*'*L,*2,'620'D1;206-*.'1' 62662'6->'5+*2'8,)',1/*-6D/*'*L6>,2*..'2',)*'D/*' 2',)*'8*.,)*'.*6'86.',.'D1-0*-'-1?' 012',1'46[6'M4*2 L RX' 2',)*'.1;,)',86.'D1;20*0'D'6'/2*'-;22 25'-1?'46[6',1',)*'.1;,)*'-2'*20'1',)*' *60'+6'2^>/;0 25',)*'B;0*62')//.');,'*L>/;0 25',)*'>1;2,-'1',)*'?6/*9,*.'M4*2 L'RT' ;?'L +'QX()*'>16.,'-1?' 012'21-,)86-0',1' -+60'620',)*'-05*'1' *D6212'8*-*' 2)6D,*0'D' 62662,*.',);5)',)*'01'21,'6==*6-',1')6+*'D**2'2>/;0*0'2' 62662'=-1=*-'M4*2 L'C R' **' 1>)6-,',*%'N Q._ T' 1/620' '=N'._X' 1-'5*15-6=) >6/620'1,)*-'0*,6/.'.**'+ !

()*'81-0' 62662J'2'6'*8'2.,62>*.';.>)'6.'U*=)' ',20'<6,,'L+'KK'86.'6==/*0',1',)*'/18'?6-,?*'=/6 2.'1')/.,6'620')1*2>6'W>1?=-6-9+'KST' 620'.**'4*.*2;.'12' .6 LL' X' 2',)*'.6?*'?622*-'D',)*'4-**9.',)*'26?*'O '86.';.*0'1-')1*2>6'%*',)*'.*6C.0*'=/6 2'21-,)'1',)*'(-^62' /600*-J'M.**',)*'*L,-6>,'2' */620' '=' 620'4*.*2;..'-" f=SRSX'620'D',)*'/6,*-')1*^2>62.'D1,)'1')1*2>6'=-1=*-'620'1',)*'2>'>1/I

12 *.' 2' - >6' M *2- >9 ' " ' =% ' K' S X% ( )*' 26?*' 1>>;-.' 2',) .' .*2.*' 12',)*' 5 =, 62' ?12I

!"

D ' ' ' IN' !' ' % ' 3

*-15/ =/L7X '

2?*2,.'1.' 8*// 6.' 12')1*2 > 62' >1 2.' M >9)*/' ' ' 7 !' ' RX' 620' 86.' 21,' *+*2' ;2921820',1',)*' 6-^ ,)65 2 62.' M4*.*2 ; . ' ? "!' 0 ' $% "!' =% SX% ()*' *=,' 2' ,81' >6.*.' 2' / 9*' ?622*-' -*20*-.' ,)*' : *D-*8' D ' -8+'1 N) * 'M L10%L+ 'N T B1.)% ' KT >1?=% ' X' 6.' ,)* ' 01' 62662 ,*.J' D ' C T4 56 2 ' 2' ; ?% L ' KR' ()*' : ,, ,*. ' 620' ,)*' B*D; . ,*. ' 620' ,)*' ?1- ,*.' 08*// 2' ,)*' ?1;2,6 2.T ' " ' ' ' " ' 'D DP' 2' K' 6?% LL - ' ' ,)*' 6C 2662 ,*.' 6-*' 0 ., 25; .)*0' -1?' ,)*' : + ,*6 ' ,)1;5)' ,)*' /6,,*-' 8*-*' 0*.>*20*0' -1?' 62662T 620' 2' .*+^ *-6/ =6..65*.',)*I' 62662 ,*.' 6-*' ?*2, 12*0' 8 ,)',)*' : ,,,*. ' ?1-,*. ' BAD; . ,*. ' *,>% ' 6.' ',)* ' >12., ^ ,',*0' 6' .=*> 6/=1-, 12' 1 ',)*' =1=;/6, 12' M L10% IQT *;% + ' T B1.) ' ' X% ()*' ?1.;' =-1D6D/*' *L^ =/626, 12' 1 ',)*.*'/ ? ,*0' 6==/>6, 12.' 1 ',)*' 26?*' .' ,)6,' 8) /*' .1?*' 1 ',)*' ,- D*.' 8) >)' 2)6D ,*0' - 6' -*,6 2*0' 1-',)* -',*-- ,1- *.',)*' 26?*' 1 ',)* -'>1?1?12' 62>*.,1-' 62662 ' 1,)*-.' =-* *--*0' ,69 25 ' 6.' 6' 0 .^ , 2>, +*' 6==*//6, 12 ',)*' 26?*' 1 ' .1?*' .;D.*_;*2,')*60

: ($ 0,' (1((1' 4%)5')53' ;0 %<%1(% ()%01#

1-'>) * '1 ',)*',- D*% ()*'+*- '.6?*'=-6>, >*'=-*+6 /.' ,1',) .'06 '6?125',)*' 5-*6,',- D*.'1 ' -6D 6% ' ?,)' a3+2' .% %T ,,1 ' "%!' .% +% ** !

') $ ' ' :Q:6US' ' 9

8' 1>>;-.' .6% L L ' Q' I8)*' ,' ;201;D,*0/ '0*.^ 526,*.',)*' /625;65*' .=19*2' D ',)*' B*8.' 08*// 25' 2' 6/*., 2*% ()6,',)*%/625;65*' .=19*2' D ',)*' 62662^ ,*.' 86.' .;D.,62, 6// ' 0*2, >6/ 8 ,)' : *D-*8' 6==*6-.' % -1?',)*' 6>',)6,',)*' =-1=*-' 26?*.' 1' 62662 ,.)' =*-.12.' 620' =/6>*.' 6-*' : *D-*8 ' 620' >62' D*' 6>>1;2,*0' 1-'*, ?1/15 >6// ' -1?',)*' : *D-*8' 6.' -*60 / ' 6.' : *^ D-*8' =-1=*-' 26?*.',)*?.*/+*.' M,);.' 8*')6+*' D ?C */*>)' A6,)C 6=)*-'*,>%X' K% /1.*' 6.' 86.',)*' 2^ ,*->1;-.*' 1 ',)*' : *D-*8.' 8 ,)',)*' 62662 ,*.',)*-*' .' 21') 2,' 1 ',)* -'2**0 25'62 ' 2,*-=-*,*-',1' ?*0 6,* D*,8**2',)*?' 8)>)' -*20*-.',' =-1D6D/*',)6,',)*' --*.=*>,+*' /625;65*.' 8*-*' .1' 2*6-/ ' 6// *0',1' *6>)' 1,)*-'6.',1'D*' .;D.,62, 6// ',)*' .6?*'T N% ()*'-*?6 2.' 1 ',)*')>*2 > 62' /625;65*' 8)>)' 86.' ;201;D,*0/ ' 62662 , .)' D*6-',)*' >/1.*.,' 626/15 7',1',)*' : *D-*8 ' 620' 6-*' D*.,' *L=/6 2*0' -1?' ,' 8)>)' =-1+*.',)*?' ,1' D*' .;.,62, 6//+',)*' .6?*' /625;65*' M 1>)6-,' ? ' $!' >1/% SRR' ._% ' *0% SQKX% (1' 6>>1;2,' 1-'_) .' .1?*')6+*' .;==1.*0',)6,',)*' 62662 ,*.' 620',)*' : *D-*8.' 8*-*' 1',)*' .6?*' 1-5 26/ .,1>9' 620',)6,',)*' 6>>1;2,' 2' 4*2*.' 1 ',)*' -' D* 2 7 0*.>*20*0' -1?' 0 *-*2,'D-62>)*.' 1',)*' 16>)>' 6?^ / ' .'6' >, 12',1' D*' =;',1',)*' 6>>1;2,' 1 '26, 126/ D 5^ 1,- '12',)*' =6-,'1',)*' 8-.,*-% ;',) .' .'6') =1,)*.' ;,*-/ '8 ,)1;' 1;206, 12' 620' 8)>)' >6-- *.' ,.' 182 >12 ;,6, 12' 2' ..*/ T 1-')60' 26, 126/ D 51,- '0 -*>,*0' ,)*' 8-,*-')*' 81;/0')6+*' *L>/;0*0',)*' 01? ,*.' ,)*' ? ?12 ,*.' ,)*' <16D ,*.' -1?',)*')*? ,>' 6? / ' 6.' 8*// 6.' ,)*' 62662 ,*.T 26 ')*' 81;/0')6-0/ ')6+*' 6//18*0',)D' 62662 ,*.',1'>/6 ?'0*.>*2,' -1?',)*' 2>),C *1;.' 16)% ()*' / .,' 1 ',)*' 26, 12.' 2' 4*2% L ' .' 6>^ >*=,*0' D ' .1?*' 1 ',)*' ?1.,' /*6-2*0' 620' ;2 *,,*-*0' .>)1/6-.' 1 ' 4*-?62 ' 6.' 6' +6/;6D/*' 620',-;.,81-,) ' 01>;?*2,' M 21D*/' 0*-' B7* T >-C ,D*6;' 6 ' =% ' RX% **' > ' / ' #! ;,' ',)*.*' 8*-*' 0 *-*2,'-6>*.')18' >6?*',)*' ,)*' ,1')6+*',)*' .6?*' /625;65*H' 21 */',) 29.' .),)6,',)*' >1;2,-' 86.' -.,'1>>;=*0'D '6')*?, >'-6>*' ',)*' 0*^ .>*2062,.' 1 ' ;0' 620',)6,',)*' :6? ,*.' 8*-*' ?? ^ 5-62,.' 8)1' 601=,*0',)*' /625;65*' 1',)*' >1;2,-' 2,1' 8)>)',&*' >6?*' M=% K ' ._%X% 2',)*' 1,)*-')620' 4-1, ;.' *' /*->'620'1,)*-.'6-*' 1'1= 2 12',)6,' D-6^)6?'6>_;-*0',)*' /625;65*' 1',)*' >1;2,-' 2,1' 8)>)')*' >6?*' 620',)6,' :*D-*8' .'>12.*_;*2,/ '6' :6? ,=' 620'21,'6')*? ,>'/625;65*' M4-1, ;.' ' ' ' ! # !'=-* L*0',1') .' :' *' /*->' ' ' ' ! D "!' ' *9*' , ' ; " ' =% K % 7 & 22 25' 9 ' ' % !' " ' =% K Xd D '.1?*' /6,*-' 8-,^ *-.' D-6)6?.'26, +*',125;*' .';.;==1.*0',1')6+*' D**2' 201C4*-?62 >' 1-' -62% 2',)*' >12,-6-AW ?1.' ?6 2,6 2',)6,' D-6)6?'-*,6 750',)*' ;.*' 1',)*' =-^ ?*+6/ /625;65*' 620' D-1;5),' ,' 8,)') ?',1' 62662T >12,*20 25',)6,')60')*'D1--18*0',)*' /625;65*' 1',)*' >1;2,-' 2,1' 8)>)')*' >6?*',)*' -*.;/,' 81;/0')6+*' D**2' 6' /*..' =;-*' /625;65*',)62',)*' : *D-*8' 620' 8*' .)1;/0')6+*' 1;20' 2',',-6>*.' 1' 01/6 -1;.' 21, 12.' 620';.65*.' M: 6+*-2 >9' 6 !' N ' % (% =% NNT 6C -*6;' ' '" % ' =% K ' % (% ' K X% () .' /6.,' .',)*' 1/0*.,' 1= 2 12' 620',)*-*' .' ?;>)',1' D*' ;-5*0' 2' ,.' 6+1-% ,' /*6+*.')18*+*-',)*' >/1.*' 6 2,' 1',)*' /625;65*' 1' D-6)6?'620',)6,' 1',)*' 62662 ,*.' 620',)6,',) .' -*?6 2*0' 2') .' 6? / ' ' '60? .. D/*' 81;/0' 6>>1;2,' 21,'12/' 1-',)*' 6 2, '1',)*' : *D-*8'*20')>*2 > 62' ,125;*.' D;,' 1-',)*' *6.*' 8,)'8)>)' D-6)6?'620') .' .12' ?60*',)*?.*/+*.';20*-.,110' 2' 5 =,'620' 1-',)*' 6 2, ' 1',)*' 62> *2,' 7 =, 62' 620' .*+*-6/ ?10*?' - >62' /625;65*.' 8,)',)_' : *D-*8% M **' /**9' 6 S' ' % (% =% S '._% T B% 4% <, //*-' 2' : *-[15 .' 5 =6 + %!' + ' K %X' ' ,,1 ' .0+%

672662 ,*'M: *D%' ; . ; 6// ' 2',)*' . 25%'620'8 ,)' ,)*'6-,%'" "=) N1'I ' %*%'6>>;-6,*/ '6>>1-0^ 25',1' : *D-*8' ; .65*' \4*.*2 ; . ' # ' ? 'g h' ,)*' 62662 ,*TJ' D ; ,' 2',)*' ;,)% *-.%'8 ,)' *8' *L>*=, 12. ' -*20*-*0' 6.' =/ ; -6/ ' 620%',)*-* 1-*' 20 .^ , 25; .)6D/*' -1?' 0I =HNN') (1' 8) >)' 6/.1' D ; ,' ; 2 -*_ ; *2,/ ' 1>>; -.T *=, ' 5*2*-6// 'O ' \1-'d> +6+6,1,hT D ; ,' L10% + ' T >1?=%B1.)% ' T ; /5% " 8' =-1=*-/ ' 6'0*. 526, 12' 1 ',)*' 0*.>*2062,.' 1 ' 62662',)*' .12' 1 ' : 6?' 620'5-620.12' 1 ' 16)' 2)6D ,62,.' 1 ',)* /620' 1 ' 62662' 620',)*' 60A1 2 25'0 .,- >,.% **' 5!

% % ' - ! ' 7% ()*.*' 6-*')1.,' -*_ ; *2,^ / ' *2; ?*-6,*0' 2',)*' 1-?; /6' ; .*0' 2',)*' >1?? 620' 620' .,6,*?*2,' 1 ',)* -' *L,*-? 26, 12' D ',)*' .-6*/^ ,*. ' 8) >)')18*+*-' 6..; ?*.',)*' 1//18 25' 0 *-*2, .)6=*.a

M %*' L' 26, 12.a' ,)*' 62662 ,*. ' : ,, ,*. ' ?1C - ,*. ' *- [[,*. ' : + ,*. ' 620'B*D ; . ,*.% () .' .',)*' ; . ; 6/ 1-?' 620' 8 ,)' .1?*' +6- 6, 12' 2',)*' 1-0*-' 1' ,)*' 26?*. ' ; .' 1 ; 20' 2' L10% 'Q' T LL ' KNT' LLL / 'KT' LLL + ' T *; ,%' LL ' T B1.)% L n T L ' QT' B ; 05% ' % 2' L10% L ' ',)*' .6?*' 26?*.'6-*' 5 +*2' 8 ,)',)*' 1? .. 12' 1 ',)* *- [[,*.%

MK%X & ,)',)*' 600 , 12' 1 ',)*' 4 -56.) ,*. ' ?69 25' ;=',)*' ? ., >' 2; ?D*-' .*+*2' M *; ,% + ' T B1.)' ' (T LL + ' X% ()*' 4 -56.) ,*. ' 6-*' -*,6 2*0'620',)*' : +,*.' 1? ,,*0' 2' *)% L 'Q' M>1?=% [-% L ' X% %

MN%X 2' L10% LL ' IKQ' 8*' 20',)*' 62662 ,*' ,)*' : ,, ,*' 620',)*' : +,*%

M %X ()*/ .' ,' 1 ',*2' 26, 12.' 2' 4*2% L+ ' RCK 'M8)*-*' ,)*' *2 ,*.' ,)*' *2 [[,*.' 620',)*' 60?2, .*' 6-*' 600*OX' 2>/ ; 0*.' .1?*' 12',A *' *6.,' 1 'B1-062 '620'=-1D^ 6D/ ' .1?*' 12',)*' .1 ; ,)' 1 ' 6/*. , 2*%

M %X 2' ' 25.' L ' K ',)*' 62662 ,*.' 6->' 1? ,,*0' -1?',)*/ .,%

K% *. 0*.' ,)*.*' ,)*-*' 8*-*' .*+*-6/ ,- D*.' 1 ',)*' 62662 ,*.' 8)1'/ +*0'D* 120',)*' D1-0*-.' 1 ',)*' -1?^ .*0' 620' 21-,)867 0% ()*.*' 8*-*' ,)*' -9 ,*. ' C 2 ,1. ' -+60 ,*.' U*?6- ,*.' 620' : 6?6,) ,*.' M4*2% L ' QX' 8 ,)' 8)1?' 1 ' >1 ; -.*' ,)*' .-6*/ ,*.') 60' 21' >12>*-2% ()*-*' 8*-*' 6/.1' 1,)*-' ,- D*.' 1 ' 62662 , .)' 1- 5 2' M1-' =1.. D/ ' 1,)*-' 26?*.' 5 +*2',1' .1?*' 1 ',)1.*' 6/-*60 ' ?*2, 12*OX' 8)1' 8*-*' 0 .=1..*..*0' D ' ,)*' .^ -6*/ ,*.' ()*>) * ' 1 ',)*.*' 8*-*',)*' ?6/*9 ,*.' ,)*' 269 ,*.' 620',)*' *=)6 ?' M1-' 5 62,. J' 6F',)*' '6-*' -*_ ; *2,/ ' >6//*0' 2' 1 ; -' ,-62./6, 12X% **' *6>)' 1 ' ,)*.*' 6.' 8*// 6.' ,)*' 1-*51 25' 2',)* -' 6/=)6D*, >6/ =/6>*%

% ? %" ' ' ! ' 2',) .' -*.=*>,' ,)*2>*.' ,' .' 0 >;/,',1'9218' 2' 8) >)' >6,*51- ',1'=/6>*' ,*-?' ' 62662 ,*J' .' ; .*0' 2',81' .*2.*.' 6' / ? ,*0' 620' 6' 8 0*' 6==/ >6, 12% % 1-' ,)*' ,- D*' 1 ' ,)*' 62662 ,*. J' 12/ ' 08*//*-.' 2',)*' /18/620' %*% 8)1' 08*/,' D ',)*' .*6' 620' D ',)*' >16.,.' 1 'B1-062J' M ; ?% L ' KRX% ()*' 8)1/*' 1 ',)*' >1; 2,- '8*.,'1 'B1-062' ? 5), '6.' 8*')6+*' .**2' D*' 2'.1?*' .*2.*' >6//*0'6' /18/620J' 6.' >1?=6-*0' 8 ,)',)*/1 , *-' 620' ?1-*' *L,*20*0',-6>,.' 12',)*' *6 .,T D ; ,' ,)*-*' 86.' 6' =6-,' 1 ',) .' 8*.,*-2' >1; 2,- ' 8) >)' 86.' ., // ?1-*' *?=)6, >6// '6' '/18/620%J' M6%X ()*-*' 8*-*',)*' =/6 2.' / 25' D*,8**2',)*' .)1-*' 1 ',)*' <*0 ^ ,*--62*62' 620',)*' 11,'1 ',)*') //.' 1 ' *2A6? 2'B ; 06) ' 620' =)-6 ? ',)*' D*=)*/6) ' 1-' =/6 2' 1 ') / ., 6 '12' ,)*.1 ; ,)T ,)6,' 1 ')6-12' D*,8**2'B6 6'620' 6-?*/T ,)*5-*6,' =/6 2' 1 ' .0-6*/12' 2' ,)*-*6-' 1 ',)*' D6 ' 1' 996T 620'/6.,/ ' ,)*' =/6 2' 1 ')1*2 > 6 ' >12,6 2^ 25' (-*' 012' 620'6/',)*' 1,)*-' > , *.' 1 ',)6,'26, 12% MS%X ; ,' .*=6-6,*0' *2, -*/ ' -1?' ,)*.*' 86.' ,)*' ., // /18*-' -*5 12' 1 ',)*' B1-062' 6//* ' 1-' -6)6)'M_ ' +%X ',)*' ?10*?' ?+ 1'6' -*5 12' 8) >)' *L,*20*0' 2' /*25,)' -1?',)*' .*6' 1 ' 22*-1,)' M4*22*.6-*,)X ,1' ,)*' .1 ; ,)' 1 ',)*' *60' *6' 6D1 ; ,' K ' ? /*. ' 8 ,)' 6' 8 0,)' 1 ' -1?' Q' ,1' % ()*' >/ ?6,*' 1 ',)*.*' . ; 29*2' -*5 12. ' *.=*^ > 6// '1 ',)*' +6// *' 1 ',)*' B1-062' .' .1' =*> ; / 6-',)6,' ,' .' 26, ; -6/ ,1' 20',)*?',)*' .=*> 6/ =1..*.. 12' 1 ' 12*' ,- D*% ?6/*9J7 .1' -; 2.' 12*' 1 ',)*' *6-/ *.', 620G ?1.,'=-*> .*' .,6,*?*2,.' 2',)*' 62> *2,'-*>1-0.'1 ' >- =^ ,;-* ' ?6/*9' 08*//.' 2',)*' /620' 1',)*' .1 ; ,)T 620' ,)*' : ,, ,*' 620',)*' B*D ; . ,*' 620',)*' ?1-,*' 08*// 2',)*' ?1 ; 2,6 2.T 620',)*' 62662 ,*' 08*//.' D ',)*' .*6' 620' D ',)*' . 0*' 1 'B1-062J' M ; ?% L 'KRX' () .' 0*.>- D*.',)*' 0 + . 12' 1 ',)*' >1 ; 2,- '6' *8' *6-.' 12/ ' D* 1-*',)*' >12_ ; *.,% ; ',)>-*')60' D**2' / ,,/*' 1-' 21' +6- 6, 12' 1-'>*2, ; - *.%)',)*' 21, >*' 8) >)' = ; -=1-,.' ,1' D*',)*' *6-/ *.,' 1 ' 6// ',)*' .*6,.' 1 ',)*' 62662 ,*' ,- D* ' 0 ., 25; .)*0' -1?',)*' . *.,*-',- D*.' 1 'U 012' ,)*' : ,, ,*.' ?1-,*.' 620',)*' 1,)*-' 0*.>*2062,.' 1 ' 62662 ' 6-*' 5 +*2' 6.' 12',)*' .*6C.)1-*' -1?' U 012',1' 46[6' 620' 2',)*' B1 TO62' 6//* ',1' 101?' 41?1--6)' 620' 6.)6'M6 ,*-86-0' 6// --)1*X' 12',)*' .)*1,)*' =-*.*2,' *60' *6'M4*2% L ' QCK X% 2' B1.)' L ' N' 6, 6', ?*' 8)*2',)*' .-6*/ ,*.' 8*-*' 6>, ; 6// ' 2',)*' 8*.,^ *-2' >1 ; 2,- ',) .' .' *L=-*..*0' ?1-*' D-160/ % ' ()*' 62662 ,*' 12',)*' *6.,' 620',)*' 8*..,J' .' >6-* ; // '0 .^ , 25; .)*0' -1?',)*' ?1-,*' 8)1')*/0' ,)*' ?1 ; 2^ ,6 2J' 2',)*' >*2,-*' 1 ',)*' >1 ; 2,- % 2' B1.)' L ' K' N' 8*' 6-*' ,1/0' 8 ,)' ?1-*' 0*,6 / ',)6,' '6//',)*' '> ->/*. I' M- DI /N6X' 1 ',)*') / ., 2*.%%%' -1?')1-'MH',)*' ' 1& "8' ; 2,1' 9-12' 21-,)86-0' .' >1 ; 2,*0',1',)*' 6C 2662 ,*%J' 6,*-'., // ',)*' 62662 ,*.' 6-*' ., // 08*//^ 25' 2',)*' ; ==*-' =6-,' 1 ',)*' B1-062' 6//* ' *,)C .)*62T ,)*' =/6 2' 1 ' .0-6*/12 ' (6626>D' D/>6? '620' < *5 001T ,)*' =/6 2' 1 ')6-12 ' 1-T 620'6/.1' 12',)*' =/6 2' 1 ')1*2 > 6 ' >>)1' 620' U 012% : *-*' 8*-*' >1/^ /*>,*0',)*' >)6- 1,.' 8)>)' 1-_ *0' 6' =-1? 2*2,' =6-,' 1 ',)*-' 6-? *.' MB ; 05% ' RT' +' NT' B1.)' L+ ' SX' 620' 8)>)' >1 ; /0' 20**0' D*' 0- +*2' 218)*-*' D ; ,' 2',)*.*' /*+*T /18/620.' M ,62/*' $ ' ' '=% N X% ()*=/6 2.' 8)>)',) ; .' 6==*6-',1')6+*' D**2' 2' =1.^ .*.. 12' 1 ',)*' 62662 ,*.' .=*> 6// ' .1' >6//*0' 8*-*' 21,' 12/ ' 1 ' 5-*6,' *L,*2,T ,)*' 8*-*' 6/.1',)*' - >)*.,' 620' ?1.,' - =1-,62,' =6-,.' 1 ',)*' >1 ; 2,- ' 620' ,' .' 21,' ; 2^ / 9*/ ',)6,',) .' 86.' 12*' 1 ',)*' -*6.12.' 8) ' K% *.' 26?*' 62662 ,*J' .' 6/.1' 6==/ *0' 6.' 6' 5*2^ *-6/ 26?*' 1-',)*' 212C .-6*/ ,*' 2)6D ,62,.' 1 ',)*' /620' 6. 8*')6+*' 6/-*60 '.**2' 86.',)*' >6.*' 8 ,)' ' 62662% 1 2.,62>*.' 1 ',) .' 6-*' 4*2% L ' 4T ; ?% LL ' N' 8)*-*' ,)*' 26?*' .' 6==/ *0',1' 08*//*-.' 2',)*' .1 ; ,) ' 8)1' 2' L 'KR' 6-*' >6//*0' ?6/*9 ,*.' T B ; 05% ' ' 8 ,)' 8)>)' >1?=% 4*2% L + ' N' 620' L ' Q' 620' B1.)' L ' ' 8)*-*' : *D-12' ,)*') 5)*.,' /620' 2' 6/*., 2*' 6²..,6*,0',1' D*' ?1-,*T 620' 4*2% L ' K' 8)*-*',)*' /620' 1 ' 6^ 2662J' .' 0 ., 25; .)*0' -1?',)*' +*- 'B1-062' 6//* ' ,^ */ % **' 6/.1' 4*2% LL + ' N' N T >1?=' LL+ 'K' 4T L10% L ' T >1?=% % ; ,' 2' ?62 ' 1 ' ,' 1>>; -* 1-' ,)*' ,' .' 0 >;/,',1'9218' 2' 8)>)' >6,*51- ',1'=/6>*' ,)*' 81-0% ()' . ' 2' 4*2% a' ,)*' /11-' 1 ' ,60' 86.' 6,' >,))15/6' >/1.*',1',)*' 8*.,' . 0*' 1 ',)*' B1-062' ,)*J*' 62662 ,*.J' ?f .,' D*' 2,*20*0' 2',)*' 26--18*-' 620' .,- >,*-' .*2.*T D ; ,' ,)*' *L=-*.. 12' ' 2)6D ,62,.' 1 ',)*' /620 16==*6-.' 6.' ' 2,*20*0',1' D*' ?1-*' 5*2*-6/% 56 2' 2' 4*2% L ' Q R' 8)*-*' .1?*' D*/ *+*',)*',- D*' ,1' D*' 2,*20*0' 4*.*2 ; .',69*.' ,',1' 6==/ ',1',)*' 8)1/*' 1',)*' 62662 ,*' 26, 12. ' ; ,A2',)*.*' 620' 1,)*-' . ?^ /6-' 2..62>*. ' 6//1862>*' ? ; ,' . ; -*/ ' D*' ?60*' 1-',)*' 0 *-*2,' 06,*.' 6,' 8)>)',)*' +6- 1 ; .' -*>1-0.',) ; .' >1?^ =6-*0' 8*-*' >1?=1.*0T 620' D*. 0*.',) . ' ,' .' 0 >;/, ,1' *., ?6,*')18' 6>> ; -6,*' 9218' /*05*' ,)*' .-6*/ ,*.' ?6' 1 ',)6+*' =1..*..*0' 1' 6' .*,' 1 ' =*,, ' 26, 12. ' -1?' 8)1?',)*' ')60' D**2' *2, -*/ '-*?1+*0' 1-' 1 ; -') ; 20-*0' *6-.' 620' 8 ,)' 8)1?',)*' 8*-*' 218' 656 2' D-1 ; 5), I' 2,1' >12,6>,' 12/ ' ,)6,',)*' ' ?5),' *L,*-? 26,*',)*?' 6.' .112' 6.' =1.. D/*% 56 2' D* 1-*' 8*' >62' .1/+*' .; >)' _ ; *., 12. ' 8*' 1 ; 5),' 6/.1',1' 9218' ?1-*',)62' 8*' 01' 1 ',)*' ; .65*.' 620' > ->; ?.,62>*.' 1 ' =*1=/*' 8)1' 0 *->>7 21,' 12/ ' -1?' 1 ; -.*/+*. ' D ' 2' 6' ?6,*' - 6/ 0*5-*' -1?',)*' - * -,6/.' 1 ',)*' =-*.*2,'06 % ()*' ,- D*' 8)1' =1..*..*0' ,)*' 62> *2,' > , ' 1 ' : *D-12' D*' . 0*.' D* 25' 6.' .)182' 6D1+*' >6//*0' 2,*->)625*6D/ ' 62662 ,*.' 620' ?1-,*.' 6-*' 2' 6',) -0' =6.,65*' M4*2% LL A X' >6//*0',)*' >) /0-*2' 1 ' : *,) ' 1-' : ,, ,*.' M>1?='

8)1' 8*-*' 08*// 25' 2' ,)*' /620' 1 ',)*' .1;,)' 8)*2' ,)*' .-6*/ ,*.' ?60*',)* -'6,,6>9'12',' ?6 ')6+*'D**2'0- +*2',1' ,)*.*') 5)*-' 620' ?1-*' D6--*2' 5-1;20.' D ' .1?*' 1,)*'-' ,- D*.' =1.. D/ 'D ',)*') / ., 2*.' 8)1'0 .=/6>*0' ,)*' + ,*.' 6/.1' 08*//*-.' 2' ,)*' /18' >1;2,- ' M *;,%' 'KNX% **' ;-,[' 2 !' '" ' , ' 21' +1/%I ' g % ' ? ,)' ' ' .% +% ' # ' ' " ' "' 5 ' ()*' .-6*/ >1-0 25',1' 62> *2,' ,-60 , 12' M.**' :*-D*/1,' ; 1' ,*.' 8*-*' 0*/ +*-*0' -1?' 5 =,' ;20*-' <1.*.' =' 1-0*-' "!' , ' .% +% 6/6.,) 2X'/* ;',)*' /620' 1 ' 62662' ,)6,',)* ' ? 5),',69*' =1..*.. 12' 1 ',)*' /620' 8)>)' 410' 12',)*' 6==-16>)' 1 'B1.) ;6 '620' *? 5-6,*0',1',)*' >16.,')60' =-1? .*0',1',)* -' 6,)*-.% ( ) .' >1;2,- ' 86.' ,)*2' 1' - >6' M,1' -? *2 6 ' 6>>1-0 25',1' ,,*-' 6 +!' + ' 2)6D ,*0' D ',)*' 0*.>*2062,.' 1 ' 62662' 6.' 0*.>- D*0' SQ X% -1>1= ;.' I ' ' ; 2 ' N 1' ' ' X' -*/6,*.' 6D1+*% ( )*. *' 26, 12.' 620' *.=*> 6// ',)*' . L' 1-' .*+*2' ,)6,',)*-*' 8*-*' 2' ;? 0 6 ' 6,' (5 .' M(278X',81' .1' -* _;*2,/ ' ?*2, 12*0' D ' 26?*' ,)*' .-6*/ ,*.' 8*-*' >1/;?2.' 12' 8)>)' 8*-*' 2.>- D*0' 2')1*2 > 62' >)6-^ >1? ?620*0',1' 0 .=1..*..' 620' ;,,*-/ ',1' 0*.,-1 'M L10% 6>,*-.' '& *'6-*',)1.*' 8)1' /*0' -1?',)*' 6>*' 1 'B1.) ;6 ' LL 'KNT ;?% LLL ' NT *;,% LL ' ' X% ()*' ,)*' -1DD*-' ,)*' .12' 1 ' 6;*%J' M **' 1>)6-,' " 1' 0*.,-;>, 12')18*+*-' 86.' 21,' ,1' D*' 6>>1?=/ .)*0' 6,' 'K T' < >)6*/ .' ' ' 1' 6-,% N '+1/% '=% S' 12>*% ()*' =-1? .*' 12',)*' =6-,' 1 '410' 86.' ,)6,')* ?,).',-62./ % 6>) *2*' ' /' ._ %T' < >)6*/ .V (A6>,C 81;/0 =;' 1;',)1.*' 26, 12.' D '/ ,,/*' 620'/ ,,/*' J' 620' ' SS .._ %T' :6?*/.+ */0' 'N '._ %X 'C ,,1' %' ,)*' >1? ?620',1',)*' .-6*/ ,*.' >1--*.=120*0' 8 ,)' ,'T' Q% +% **' + ' ! ,)*' -*6.12' 5 +*2' D* 25' 7<*.',)*' D*6.,.' 1 ',)*')*/0' 2^ ' " !JT ; ',)*' -' >)6- 1,.' M.**' >-*6.*' ;=12',)**J' M 710% LL 'KRT *;,% + 'KKX% 6D1+*A78*')6+*' 21' 0*8',1' 62 ' ?622*-.' 1-' >;.,1?.' ()*' 0*.,-;>, +*' 86-' >1? ?*2>*0' 8 ,)' 62' 6,,6>9' 12' 1',)*' 62662 ,*.% 9*' ,)*' .-6*/ ,*.' DE7 -60' 9 25' 1 ',)*' 62662 ,*.' 8)>)' ,)*')1*2 > 62.',)*' 8*-*' ...;*0' 2',)*' 0*.,-;>, 12' 1 '.*+*-6/ >, *.' 2',)*' *L^ =-1D6D/ ' 5 +*2' ,1' >1?^ ,-*?*' .1;,)' 1 ' 6/*., 2*',1' 8)>)',)*' 26?*' 1' : 1-' ?*->*' 620',);.',)*' 26?*' ?6)' 86.' 5 +*2' M ;?% LL ' CNX% ()*' .-6*/ ,*.')18^ 01;D,/*..' D*>6?*' 2' /6,*-' *+*-'0 0' 21,' 1'/18' ;=',) .' +>,1-X7 7) >)' 86.' .?=/' , ?*.' 62' 1>>6. 126/. 21^ ,)*' >12.*_;*2>*' 1 '62' ;2=-1+19*0' 6..6;/,' 12',)*' *L^ 2 ?' 1-' 6' ?*->)62,'MB1D' ,-*?*' .1;,)' 1 ' 6/*., 2*',1' 8)>)',)*' 26?*' 1' : 1-' D;.',;,-2 25' D6>9' 620' >1?=6.. 25',)*' /620' 1' 01?' L/ ' ST -1+% LLL ' K T' ?6)' 86.' 5 +*2' M ;?% LL ' CNX% ()*' .-6*/ ,*.')18^ >1?=% .6% LL ' Q' T *+*-'0 0' 21,' 1//18' ;=',) .' +>,1-X7 7) >)' 86.' .?=/' 1.% L ' KT' U*=D% ' % ,)*' >12.*_;*2>*' 1 '62' ;2=-1+19*0' 6..6;/,' 12',)*' *L^ ** *2- >9' " 1' =% D;.',;,-2 25' D6>9' 620' >1?=6.. 25',)*' /620' 1' 01?' KNKX% $20*-' ,)*' 26?*' ,)*' 6,,*?=,*0',1' =6..' ,)-1;5)' ,)*' >1;2,-' 12',)*') ' ,)*' 6==*6-' 12' 1,)*-' .0*' 1',)*' B1-062' 2)6D ,*0' D '6',- D*' 1',)*' 0*.,-1 *0',.' 2)6D ,62,.' 620' =-1>*0' 25' 128 6-0',1^ 5E =, 62' ?12;?*2,.' ?1-,*.% ()*-' =6..65*' D* 25' -* ;.*0' 620' 62' 6,^ 0 ., 25;.)*0'D '6'>16,'1' 86-0',)*' 60A1 2 25' 9 2501?' 1' 6.)62',)*' 2' / 9*' ,6>9' ?60*' 12',)*?' D ')12' 9 25' 1',)*' ?1-,*.' ?6 /' 620')*/?*,' 620',)*' ?622*-' 0*.,-1 *0',)*' 2)6D ,62,.' 1',)6,'0 .,-> ,' 620' 6' D6,,/*C6L*' . ? /6-',1' ,)6,'1' 5 =,'M& /9 2.12' ./*8' 5',)*' -' 9 25 '8)1' 86.',)*' /6.,'1',)*' :*=)6 ?' 6-%662 ,.)' 2>? *6'1',)*' I7 N'6D- 05?%X% 1-'5 62,.'M *;,% X% ()*,-6>,'1'8)>)',)*' ',);.' 2> *1,' C5P=, 62.% D*>6?*=1..*..*0' 86.' .;D.*;*2,/ ' 6//1,,*0',1',)*' ',)*' /620' D;,' ,- D*.' 1' *;D*2' 620' 460' 620',)*')6/',- D*' 1' <6C' ')' $ ' ! 26..*)% ***>. ! ()*' *,) 2 ? J' 1-' .*-+62,.' 1',)*' (*?=/*' .**?' o ,*-',)*' 0*6),' 1' <1.*.',)*' .-6*/ ,*.' >-1..*0',)*' ,1')6+*' 1- 5 26,*0' 2',) ;' 0*0 >6, 12' 1 '>6=, +*.',69*2' B1-062' 620' ;20*-' /A*' >120;>,' 1' B1.) ;6',119' =1.^ 2' 8 6-' -1?',)*' 6=*0' 620' 81-*' -*_;*2,/ ' ..-125' .*.. 12' 1',)*' 5-*6,*-'=6-,' 1',)*' -1? .*0' 620' 620' 2' /6,*-' ?*.' ',1' *21;5)',1')6-6..',)1;5)'21,',1'0 .=1..*..',)*' .-6*/^)6+*' ;2,*0',)*?.*/+*7' 2' .1?*' 86 ',1',)*' .-6*/^ 0*.,-1 *0',.' 2)6D ,62,.% *+*-6/ >, *.')18*+*-' ,*.' '620' 21,' 12/ ',1',)6+*' / +*0' 2' =*6>*' D;',1')6+*' ., /')*/0' 1;,'=6-, >;/6-GE'B*D;.'6 ,*-8 6-0'B*-;.6/*? ' D**2' >6=6D/*' 1')1/0 25' =/6>*.' 1')121-' 620' =18*-'B 8) >)' 86.' 21,' ,69*2' , /' ,)*' , ?*' 1' 6+ 0' MK' 6?% ,);.' $-6)' 12*' 1' 6+ 0 .' >6=,6 ?.' 86.' 6' :,,,*' 'SX' 620' 012' 8)>)'.**?.' 2*+*-',1')6+*' */0*0',1' M')-12% L ' X% 2',)*' ,?*' 1' 1/1?12' 8)*2',)*' ,)*' 0*.,-;>, 12' 1',)*' -' *//18 C>1;2,- ?*2% 20 + 0;6/.' 9 2501?')60' 6,,6 2*0',.')5)*.,' 5/1-' 620' 5-*6,*.' -1?' 6?125',)*' 62662 ,*.' .**?' 2' /6,*-',?*.',1' =18*-' 6//',)*' -*?262,.' 1',)*.*' 26, 12.' 8*-*' ?60*' ,-D;,6-' 620' D120C.*-+>*' 86.' *L6>,*0' -1?',)*?' M' 25.' L' K X% ()*' 4 -56.),*.'.**?',1')6+*' D**2' >,)*-' 8)1// ' 0*.,-1 *0' 1-' 6D.1-D*0' 2' 1,)*-',- D*.' ;) 60' 21' ?*2, 12' 1',)*?' .;D.*_;*2,',1',)*' D119' 1 'B1.) ;6' 620',)*' 1= 2 12',)6,',)*' 4*-5*.*2*.' 1-' 4606-*2*.' 2',)*' ,?*' 1' 1;-' 1-0' 8*-*',)*' -' 0*^ .>*2062,.')6.' /,,/*' *+ 0*2>*' *L>*=,',)*' .?/6-,' 1' 26?*.',1'.;==1-,' ,' M 1.>2?;*-' $ " ' ' ? f d' ST *620' 2 1' K '=% NQX% ()*' 269,*.' 8ZH> >1?=/*,*/ ' 0*.,-1 *0' D 'B1.) ;6' *L>*=,' 2',)-**' >,*.' 46[6' 46,)' 620' ./ 010' MB1.) ' L ' K CKNXT' 620' ,D1' =18*-;/' 26, 12' 1',)*' ?6/*9,>.' ?62 ', ?*.' 0*^ //% '

>1 ; /0' 2 7 7 * -' *L) D ,' 21-' =-*,*20' ,1' 62 ' .6>)' >/6 ?' 6.' .' 6>9218 /*05*0' 6.' 6' >6 ; .*' 1 ') 1. , / , ' 1-' - 5) , ' 1 ' ,) *' .1 ƒ 6 ? 125' > + / [*0' 26, 12. ') 6.' 5 +*2' 5-6+*' 1 ^ *2>*' ,1' ? 10*?' -6, 126/ .,. ' 620' 1>>6. 12*0' 21' / ,,/*' 0 >;/, ' ,1' = 1 ; .' D*/ *+*-.' 2' ,) *' *>121 ? ' 1 ' ,) *' /0' (*.,-6 ? *2,ⅈ ()*' *L6 ? =/*') 6.' *7+*2 D**2' =/*60*0' 2' A2. ,) >6, 12' 1 ' ,) *' .)6 ? * ;ƒ 1 ; ,-65*.' >1 ? ? ,,*0' D ')- ., 62.' ;=12' ,) *' 1-,)℃ ?*- >62' 20 62. ' 6.' ,' 86.' D ' ,D1' =62 6-0.' 2' ,) * -' .6+65*' >6 ? =6 52.' 656 2. ,' ,) *' =*6>* ;ƒ 620') 5) / ' > ; /, +6,*0' < *L >62.' 620' *-; + 62.† 21-'>62' ,' D*' 01 ; D, *0' ,) 6, ' ,) *' -*/*2, ^ /*. ' .= - ,' *+ 2>*0' 2' ,) *' .625 ; 26- ') .,1- ' 1 ' ,) *' L10*' 86.' /6-5*/ ' * ' ' ,) *' .,*?' 620' ? 6-, 6/ [*6/' 1 ' -1 ? 8*// 620' ,) *' ;- , 62.ⅈ & ,) 1 ; ,' 6, ^ , *?=, 25', 1' + 20 >6, *' 6// ,) *' 0*, 6 /.' 1 ' ,) *' 86-' ; 20*-' B1.) ; 6 ' 8) >)' 2' .1 ?*' 2.,62>*.' M*ⅈ5ⅈ 2' ,) *' > -> ; ?C .,62**.' 6,,*20 25',) *' =; 2 .) ? *2, ' 1 ' >)62' \Z/№+№h ' 8) 1 ' D ' -*6.12' 1 ') .' >1 ? =/ > , ' 8 ,) ' ,) *' 62662 , *.' 2' -*.=*>,', 1',) *' D62' 656 2. ,',) *? ' 86.' -*56-0*0' 6.' 6' ,-6 ,1- ' 620' 0*6/,' 8 ,) ' . ; ? ?6- / ' 6.' D ' 6' >1 ; -,C ? 6-^ , 6/ ' 1-' -6,) *-' D ' / 2>)C/6 8 JX' 6== *6-.' ,1') 6+*' ,-62^ .>*20*0' *+*2' ,) *' - 51-1 ; .' =-15-6 ? *' >12, *? =/6, *0' 2' ,.' 2>*=, 12' 6/,) 1 ; 5) ' ,' =-1D6D/ ' 8*2, ' 21' 6-,) *-' 2' .*+*-, ' ,) 62' ,) *' L ; 0*' A ; 05 ? *2, ' 1 ' ,) 1. *' >) 6-5*0' 8 ,) ' 1-' *2565*0' 2' ,) *' *L*>; , 12' 1 ' ,) *' .>) *? *' 0**? ^ *0' 2**0 ; ƒ 1-' ,) *' *20.' 2' + *8 ' 8*' 6-*' *, ' >6//*0' ;=12', 1' 2+*. , 56, *' ,) *' 5-1 ; 20.' ; =12' 8) >)' ,) *' ? *6.^ ; -*' 6.' 6' 8) 1/* ') 6.' D**2' 0* *20*0' 1-' ?6 ' D*' A ; ., ^ *0' 620' ,) .' .' ,) *' ?1-*' ?=*-6, +*' 26. ? ; >) ' 6.' , D1' 86- 6-*' 620' 1>>; =6, 12' ,) *? */+*. ' 8*-*' 21, ?=/ ' 8) /*' 2' =-15-*. . ' 1-'=6. . *0' 1+*-' 6.' ; 26+1 0^ 6D/*' 6 , -*-' ,) * -' 1>>; --*2>*' D ; ,' =1. , +*/ '-*=*6, *0/ ' 620' ., - > , /' *2A1 2*0' 8 ,) ' 6// ' ,) * -'*. .*2, 6/ *6, ; -*. ' 1 ' .1C>6//*0' 6, -1> , ' 1-' 2A; ., >*' D ' .=*> 6/ 0 + 2*' >1 ? ? 620' 6>>1 ? =62 *0' D ' ,) *' ? 1. ,' 68 ; ƒ .62>, 12. ' 0 ->*, ' 1 ? ') *6+*2' ,.*/ ⅈ ()*' _ ; *., 12' =-1=*-/ ' -*^ /6, *. ', 1', 81' .1 ? *8) 6, ' 0 ., 2>, ' =1 2, .ⅆ ⅈ ()*' - 5) , ' 1 ,) *' .-6*/ , *. ', 1',) *', *-- , 1-' , .*/ ' 620' K ⅈ ()*' ?1^ -6/ , ' 1 ' 86- 6-*' 2' 8) >)' 21' _ ; 6-, *-' 86.', 1' D*' 5 +*2' 620' 21' =-1=*-, ' 1 ' ,) *' *2*? ' , 1' D*' .=6-*0' ,) *' >12^ . 0*-6, 12' 1 ' ,) *. *') 18*+*-' .' .1' >122*>, *0 ' D1,) 7 2' ,) *. ? /6- , ' 1 ' ,) *' 1DA*>, 12.' 620' ,) *' >1 ? ? 12' 5-1 ; 20' 1 ' + 20 >6, 12' ,) 6, ' 8*' ? 6 ' ? 1. ,' >12+*2 *2, / ' , -*6, ' ,) *' ?', 15*,) *-⅊ < 62 ') 6+*' 6. . *-, *0' 2' 1-0*-' , 1' 6// *+ 6, *' ,) *' 0 ^ >; /, ' ,) 6, ' 62' 6// 1, ? *2, ' 1 ' ,) *' 81-/0' 86.' ? 60*' D ' 16) ' , 1' D .' ,) -**' .12. ' 620' ,) 6, ' D ' ,) . ' 6// 1, ? *2, ' ,) *' 620' 1 ' -1 ? . *' *// ,1' ,) *' .) 6-*' 1 ') *? ' ,) 6, ' ,) *' 0*.>*2062, .' 1 ' : 6 ? ' 8*-*' ,) *-* 1-*' ; . ; -=*-.' 620' 2^ , *-/1=*-. ' 620' ,) 6, ' 12' ,) . ' 5-1 ; 20 ' ,) *' .-6*/ , *. ' 6. ' ,) *' 0*.>*2062, .' 1 ') *? ') 60' ,) *' - 5) , ' , 1' 0 .1=. *. . ' ,) *? ⅈ () . ' *L=/626, 12' .' 6. ' 1/0' 6. ' = =) 62 ; . ' 8) 1' ,) ; . ' 62. 8*-*0' ,) *' 1DA*>, 12' 1 ' ,) *' < 62 >) . *62. ⅈ ,) ^ *-. ' A ; ., ' ,) *' 86-' 12' ,) *' 5-1 ; 20' ,) 6, ' ,) *' 62662 , *.' 8*-*' ,) *. ' -. ' 655-*. . 1-. ' 6' A ; ., >6, 12' 8) >)' 6=^ =/ *. ' 12/ ' , 1' ,) *' , *-- , 1- ' 12' ,) *' 1,) *-' . 0*' 1 ' ,) *' B1-062ⅈ < >) 6*/ . ' , 1' 8) 1 ? ' 8*' ? ; . ,' -* *-' 1-' 6' /*25,) *2* ' 2+*., 56, 12' 1 ' ,) *' . ; DA*>, ' ꞉ ' ℃ ÷ ' g KR' +1/*' = ' ℂ R ' ? ,) . ' , -62. /№ ' 0 . . 6, ,^ *0' 8 ,) ' ,) *. *' 620' 1,) *-' 6, ,*? =, *0' 6=1/15 *. ' 6. . *-, . ' ,) 6, ' ,) *' .-6*/ , *. ') 60' 6' - 5) , ' , 1' ,) *' /620' 1 ' 62662' 6. ' ,) *' >1 ? ? 12' =6. , ; -*℃/620' 1 ' ,) * -') *-0. ? *2 ' 2' >12^ . *_; *2>*' 1 ' ,) *' ; 20 . , ; -D*0' =1. . *. . 12' 620' 6==-1=-6^ , 12' 1 ' , ' -1 ? ' ,) *' , ?*' 1 ' D-6) 6 ? ' , /' ,) *' 0*=6-, ; -*' 1 'B6>1D' 2, 1' 5 =, †' ,) 6, ' ,) . ' >/6 ?') 60' 2*+*-' D**2' (*/ 2_ ; .) *0 ' 620' 86.' 8*// 9218 2' , 1',) *' 62662 , *. ' 620' ,) 6, ' ,) *-* 1-*' ,) *' . -6*/ , *. ' 12/ ' , 119' =1. . *. . 12' 1 ' ,) 6, ' 8) >)' D*/125*0' , 1' ,) *? ⅈ ()*' .6?*') =1,) ^ *. ' . ' .' ? 6 2, 6 2*0' D ' B6D2' ı# ' " ' >)ⅈ ' g d ' ,18*. ' . ' , -62. /%Xⅈ 2' ,) *' -65 ? *2, . ' 6, ^ , 6>) *0' , 1' (6 /1- . ' *0 , 12' 1 ' 6/? *, . ' ' ' M +' R ' RSX 621,) *-' 5-1 ; 20' 1 'A ; ., >6, 12' . ' .1 ; 5), ' 2' ,) *' . ; ==1. *0' 0*2, , ' 1 ' -6>*' 1 ' ,) *' 5 =, 62' 0 26. , ' ; 20*-' 8) >)' ,) *' .-6*/ , *. ' 8*-*I' 1===-*. . *0' 8 ,) ' ,) *' , - D*. ' ,) 6, ' 1+*--62' 62662 ' .1' ,) 6, ' ,) *' 0*. , -; >, 12' 1 ' ,) *' /6, ,*-' 86 9?*-*/ '62' 6>, ' 1 '-*, - D ; , +*' A ; ., >*' 1-' ,) *' 2A ; - *. ' 8) >)' ,) * -' >1 ? =6, - 1, .' 2' 5 =, ') 60 2 >, *0' 12' ,) *' .-6*/ , *. ⅈ (1' 6/' ,) *. *' 620' . ? /6-' 6, , *? =, . ' , 1' A ; ., ' 12' ,) *' 5-1 ; 20' 1 ' 2 ' e " ' ,) *' 1-> D/*' 1>>; =6, 12' 1 ' ,) *' /620' D ' ,) *' .-6*/ , *. ' 620' ,) *' *L, *-? 26, 12' M6, ' /*6. ., ' 1' 6' 5-*6, ' *L, *2, X' 1 ' ,) 1' *L . , 25' 1>>; =62, . ' , ' . ' , 1' D*' 1DA*>, *0' ,) 6, ' 21' . ; >)' -*6.12' 6. ' 62 ' 1 ' ,) *. *' . ' D ; , *0' 6, ' 2', G *' .6>-*0' -*>^ 1-0ⅈ ()*' - 5) , ' , 1' >6-- ' 12' 6' 86-' 1 ' *L, *-? 26, 12' . ' ,) *-*' -*. , *0' . ? =/ ' 12' ,) *' 0 + 2*' >1 ? ? 620' , 1' 01' .1ⅈ ( ) 6, ' ,) *' .-6*/ , *. ' 8*-*' 2. , -; ? *2, . ' 2' 410 , ') 620' . ' 6' /*. .12' 21, '12/ ' >12, 2; 6// ' ? =-*. . *0' 12' ,) * -' ? 20. ' D ' ,) *' , *6>) 25' 1 ' <1. *. ' D ; , ' *2 1->*0' " ' ,) * -' 0*^ *6, ' 8) *2*+*-' ,) *' -*/ *0' 12' ,) *' -' 182' . , -*25,) ⅈ ( ) 6, ' ,) *-*' ') 6+*' D**2' 5-1 ; 20. ' 1 'A ; ., >6, 12' 12' ,) *' =/*6' 1 ') ; ? 62' 1-' /*56/ - 5), ' 1 ' 5) , ' 1' 20**0' , 1' D*' 0*2 *0' D ; , ' , ' . ' 8*' ?65 2*' _ ; , *' >/*6-' -1 ? ' ,) *' 2 ; ? *-1 ; .' 6, , *? =, . ' , 1' 20' 8) 6, ' ,) *. *' 5-1 ; 20. ' 8*-*' ,) 6, ' ,) * ' 6-*' 21, ' . , 6, *0' 2' ,) *' /0' (*. , 6 ? *2, †' 620' , 1' . **9' 1-' ,) *? ' 6. ' ,) 1 ; 5) , ' .) * ' 8*-*' 2*>*. . 6- ' , 1' ,) *' A ; ., >6, 12' 1 ' ,) *' .-6*/ , *. ' . **? . ' , 1' D*' 62' 6D62012 ? *2, ' 1 ' ,) *') 5) ' 5-1 ; 20' 12' 8) >)' >/12*',) * -' A ; ., >6, 12' >62' D*' .6 *' / ' -*. , *0 ' 7,) *' *L=-*. . ' >1 ? ^ ? 620' 1 ' 410⅊ ' , ' ? 6 ' D*' .6 0',) 6, ' ,) . ' . ' 12/ ' .) , 25',) *' 0 ^ >; /, ' 620',) 6, ' A ; . , ' 2' =-1=1-, 12' 6. ' 8*' *L D/=6, *,) *' .-6*/ , *. ' -1 ? ',) *' >) 6-5*. ' 1 ' -1DD*- ' 620' ? ; -0*-' 2' ,) *' -' ? 69 25' 86-' 8 ,) 1 ; , ' 2' 5-1 ; 20 ' 8*' 1Ⅱ8*-',) *' >) 6-6>, *-' 1 ' ,) *' * 25' 8) 1. *' >1 ? ? 620. ' ,) * ' 1D* *0 ' 620',) -18' 01 ; D, ' 12' ,) 1. *' >1 ? ? 620. ' D* 25' -*6// ' 5 +*2' D ' 410ⅈ ( ) . ') 6. ' 20**0' D**2' 6' 6+1- , *' 1D^ A*>, 12' 1 ' 2 0*/. ' , 1' ,) *' 0 + 2*' 6; ,) 1- , ' 1 ' ,) *' /0' (*. , 6 ? *2, ⅈ ; >)' 1DA*>, 1-. ' 81 ; /0' 01' 8*// , 1' >12. 0*-' 8) *,) *-' 410') 6. ' 21, ' 62' 6D. 1/ ; , *' - 5) , ' , 1' 0 .=1. *' 1 ' ? *2' 6. ' D*' . **. ' , ' 620' 8) *,) *-' 62' *L, *-? 26, 25' 86-' -1 ? ' 8) >)' ,) *-*' 86. ' 6, ' /*6. , ' 62' 1==1-, ; 2 , ' 1 ' *. ^ >6=*' D ' / 5), ' . ' 6, ' 6// ? 1-*' 1==1. *0' , 1' 1 ; -' 21, 12. ' 1 'A ; ., >*' ,) 62' 6' 0*. , -1 25' /110' 1-' *6-,) _ ; 69*' 1-' =*. , /*2>*ⅈ 56 2' 8) *,) *-' ,) *' 6>, ' 1 ' ? 69 25' 6' >) 1. *2' 26, 12' 1 ' # ' 81-.) ==*-. ' ,) *' 2. , -; ? *2, ' 1 ' =; 2 .) 25' ,) 1. *' 8) 1. *' 80*9*02*. ' 86.' 21, 1- 1 ; . / ' 5-*6, ' 0 0' 21, ' ? ; >)' ? 1-*' ?=-*. . +*/ ' + 20 >6, *') . ' >) 6-6>, *-' 6. ' ,) *' 12/ ' 410' 8) 1' `8 // 21, ' 5 +*') . ' 5/1- ' , 1' 621,) *-' 21-') . ' =-6 . *' , 1' 5-6+*2' ?65*. I' ,) 62' ' ,) *' =; 2 .) ? *2, ') 60' D**2' D-1 ; 5) , ' 6D1 ; ' D ' 26, ; -6// >6 ; . *. ⅈ ;>)' >12. 0*-6, 12. ' 6. ' ,) *. *' ? ; . , ' 8*' 6==-*) *20 ' . /*2>*' ,) 1. *' 8) 1' >1 ? =/6 2' 1 ' 2A ; ., >*' 012*', 1' ,) *' 62662 , *. ⅈ ; ' ,) *2' , ' . ' 1DA*>, *0' ; -^ ,) *-',) 6, ' . ; >)' 62' 6--625*? *2, ' .' -6 ; 5), ' 8 ,) ' *+ ƒ , 1' ,) 1. *' 8) 1' 6-*' ? 60*' ,) *' 2. , -; ? *2, . ' 1 ' = ; 2 .) ? *2, ' 620' 6. ' 62' *L6 ? =/*' . ' =*>2/ 6- ' / 6D/*' , 1' D*' 6D; . *0' D ' 6// 8) 1') 6+*' ,) 1' =18*-' , 1' =*-*. *>; , *ⅈ . ' , 1' ,) *' -. ' , 1') *. *' 1DA*>, 12. ' , ' ? ; . , ' D*' -*? *? D*-*0' ,) 6, ' ,) *' >120 ; >, ' 1 ' ,) *' 86-' 86.' 2*+*-' = ; ' 2, 1',) *') 620. ' 1 ' ,) *' .-6*/ , *. † ,) 6, ' ,) * ' 8*-*' >12, 2; 6// ' -*? 20^ *0' ,) 6, ' , ' 86.' 1-' ,) *' 8 >9*02*. . ' 1 ' ,) 1. W 26, 12. ' ,) 6, ' ,) *' 8*-*' 0- +*2' 1 ; , †' 620' 6D1+*' 6// ' ,) 6, ' ,) *' ?^ . *+/+*. ' 81 ; /0' D*' *L=1. *0' , 1' . ? /6-' = ; 2 .) ? *2, ' ,) * ' 8*-*' .*0 ; >*0' 2, 1' 01/6, - ' 62' *+ ƒ , 1' 8) >)' ,) * ' 8*-*' *. = *> 6// ' =-12*ⅈ . ' , 1' ,) *' 7*L6 ? =/*' . ' >62' 6==/ ' , 1' 21' >6. *' 8) *-*' ,) *-*' . ' 21, 62' *_ ; 6// ' >/*6-' *L=-*. . 12' 31 ' 410 . ' 8 //ⅈ ' =*-. 12' 8 ,) 1 ; ' . ; >)' 6' >1 ? ? . . 12' 6. ' 21' ?1-*' - 5) , ' , 1' =/*60' ,) *' *L6 ? =/*' 1 ' ,) *' .-6*/^ , *. ' 2' A ; ., >6, 12' 1 ') . ' *L, *-? 26, 25' 1-' *+*2') 6-^ 6. . 25',) 1. *' 8) 1 ? ') 1' 65 2*. ' 410 . ' *2*? *. ' ,) 62', 1' =/*60' ,) *' *L6 ? =/*' 1 ' <1. *. ' 2' A ; ., >6012' 1 ') . ' =-1 ? ; /56, 25' 6' 2*8' /68' =; -=1-, 25', 1' >1 ? *' 410ⅈ 2' 6' 81-0 ' ,) *' A ; ., >6, 12' 1 ' ,) *' .-6*/ , *. ' 6. ' , ' 6==*6-. ' , 1' ; . ' . ', 1' D*' .1 ; 5), ' 2' ,) . ' 6/12*' ,) 6, ' ,) * ' 8*-*℃>/*6-/ ' >1 ? ? .. 12*0' D ' 410', 1' 6>>1 ? =/ .) ' ,) . ' 81-9' 1 ' A ; 05 ? *2, ' ,) ; . ' 6, ' 12>*' 5 + 25' = ; D/ > ' , . ' , ^ ? 12 ' , 1' 620' -*>* + 25' 62' 68 ; ƒ ?=-*.. 12' 1 ' : . ' =18*-' 620' 6 ; ,) 1- , ' .' 1' 6. ' 2' .1 ? *' ? *6. ; -*', 1' >) *>9' ,) *' 1 ; -65*1 ; .' 01/6, - ' 2, 1' 8) >)' ,) 6/ ? 1. ',) 78) 1/*' 81-/0') 60' . ; 29J' M .,,1 ' %' Q ⅈ +№ ' ** ,,1 ' !' # ' ' " ' D $' ' NNS' . _ ⅆ 6/. 1' ' ' ; ' D ' ' KN ' . _ ⅆ † =ⅈ) *-/1>9' D- * I' +' † -*8 ' $ % ! ' $ 1' =ⅈ ' KK' . _ † 6/* ' $ ' =ⅈ KR† < / / ' $ ' M Q X ' =ⅈ ' A ? *12' + ' :

SRS‘ >1,,‘ -" ‘ 6 % ‘ ‘ " ‘ ‘ I$ 9
1‘ ‘KRN%._%X‘ ,?62‘ ‘ ‘ ‘ " ‘ =‘
‘ I16 ‘$!‘ ‘ Q ‘ ._%X I‘ =% < 62,. ‘ 6 9
‘ ‘ " ‘ ‘I1$ 1‘ ‘ N ‘ . %X‘ >2A1 2‘
N ‘ *,>% M 12O% R X‘ , *D- ,[‘ ‘ ‘* ,
" ‘ !‘ ‘M : 6/% SRX‘ 1D*-,‘ ‘ ‘
‘ ‘ ‘ ‘M < 6-D% QX‘ 122* ‘ ‘ ‘
* ‘ ‘ ‘ ‘ ‘M -*?%
X‘ _,;D*-,‘ ‘ * ‘ ‘ ‘ ‘M4-* .8%
X‘ :*25.,*2D*-5 % & " ‘ ‘ " ‘ "‘
‘ NQ ‘ ._

(‘ 1-‘ -6,)*-‘ ‘ M *>* +*0‘
(*L,‘ \8 ,)‘ ,)*‘ 10*L‘ 26 , >; .h ‘ S‘ 6+6 - A>‘ 1^
0*L‘ ‘) G1a f ‘ 6>) ? % 8 ,)‘ ‘ ‘1‘) ‘
‘ d6+6+? 1>‘ P ;/5% " (8‘ ,)*‘ 0*. 526, 12‘ 1 ‘
,)*‘ 6=1.,/* ‘1,)*-8 .*‘ 9218 2‘ 36.‘ ?12‘ U*0‘
/1,1.%I I‘ ,‘ 1>>;-.‘ 2‘ < 6,,‘ L ‘ ‘ < 6-9‘ ‘ Q% ( ) .‘
81-0‘ 01*.‘ 21,‘ . 52 ‘ 6‘ 0*.>*2062,‘ 1 ‘ 62662‘ ,) 6,‘
D* 25‘ 2‘ ,)*‘ 4-**9‘ D1,)‘ 1 ‘ ,)*‘ *=,‘ 620‘ ,)*‘ % (%
O ‘ b ‘ M>1? =% < 6,,‘ L+ ‘ KK‘ 8 ,)‘ < 6-9
+ ‘ KS X% 1-‘ 01*.‘ ,‘ . 52 ‘ 6.‘) 6.‘ D**2‘ . ; 55*.,*0 ‘
6‘ 26, +*‘ 1 ‘ 626‘ . 2>*‘ ,) 6,‘ 81 ; /0‘ =-1D6D/ ‘ D*‘ 6‘
$% ‘ 6,‘ ,‘ >1?*.‘ -1?‘ ,)*‘ : *D% " (1
/ ‘ 1-‘ -6,)*-‘ -1?‘ ,)*‘)6/0***) (‘ 1-‘
- 6>‘) "‘ D ‘ 8) >)‘ ,)*‘ B*8 .)‘ .*>,‘ 1-‘ 6>^
, 12‘ 1 ‘ ,)*‘ U*6/1,.J ‘ .1‘ =-1? 2*2,‘ 2‘ ,)*‘ /6.,‘ 06 .‘
1 ‘ B*-;.6/*? ‘ 86.‘ 0*. 526,*0‘ M.**‘ ;L,1- ‘ 1 ‘
- ! >1/% K S X% () .‘ - 6>‘ 81-0‘ .‘ ,)*‘ -*60 25‘ 1 ‘
,)*‘ *.) ,1‘ +*-. 12% ()*‘ 4-**9‘ *_; +6/*2,‘ .‘ . *‘
O ‘. ‘620‘ ,) .‘ ; 9*‘ M+ ‘ T‘ >,.‘ ‘ NX)6.‘
>1--*>,/ ‘ =-*.*-+*O% < 6,,) *8‘ 620‘ < 6-9‘ 12‘ ,)*‘ 1,)^
-‘)620‘)6+‘ / ,*-6// ‘ ,-62. *--*0‘ ,)*‘ - 6> 81-0‘
6.‘ ,)*‘ *=,‘ 0 0‘ -*_;*2,/ ‘ D* 1-*‘ ,)*?% ()*-*‘ .‘ 21‘
2*>*.. , ‘ ,1‘ .;==1.*‘ 6.‘ <-% ;-*,12‘ 01*.‘ >7 ‘
5 ‘ LLL+ X‘ ,)6,‘ ,)* ‘ ? .,119‘ ,)*‘ 81-0‘ 1-‘) =
"‘ b‘ O ‘ 6‘ 62662 ,*‘ 1-‘ 0*.>*2062,‘ 1 ‘
62662% ()*‘ +625*/ .,‘ >1;/0‘)6-0/ ‘ >1? ? ,‘ .;>)‘
62‘ *--1-‘ 8)6,*+*.‘ .;D.*_;*2,‘ ,-62.>- D*-.‘ 1 ‘ ,)* -‘
81-9.‘ ?6 ‘)6+*‘ 012*% ;‘ ,)6,‘ ,) .‘ ? *62 25‘ 86.‘
6 ,*-86-0‘ 6,,6>) *0‘ ,1‘ ,)*‘ 81-0‘ .‘ =/6 2‘ -1?‘ ,)*‘ -*60^
25.‘ 1 ‘ ,)*‘ 10*L‘ *[*‘ M X‘ 620‘ ,)*‘ ;/56,*‘ 6D1+*%
()*‘ .=*// 25‘ 1 ‘ ,)*‘ % %)6.‘ 01;D,/*..‘ /*0‘ ? 62 ‘ ,1‘
,)*‘ .6 ?*‘ >12>/;. 12‘ 620‘ ,‘ 81;/0‘ D*‘ 8*//‘ ‘ ,‘ 8*-*‘
6/,*-*0‘ ,1‘ ‘ 6262 ,* J‘ 1-‘ .1 ?*‘ 1,)*-‘ 1-?‘ M6.‘ 86.‘
012*‘ 2‘ ,)*‘ /6,*‘ -*+ . 12‘ D ‘ ,)*‘ ?% D‘ 1> *, ‘
8)1.1‘ .,6206-0J‘ ,*L,‘)6Zf 6262 ,*J X‘ 0 ., 25; .)^
0‘ -1?‘ ,)‘ 8*//C92182‘ 12*‘ 2‘ 8) >)‘ ,‘ 218‘ .,620.% ‘ ‘
? ,)‘ ‘ .‘ % +% **‘ 2

62>*//6- ‘ : ‘ #3‘ 12*‘ 1 ‘ ,)*‘ 2^
- 1-‘ >/6...‘ 1 ‘ .*-+62,.‘ 1 ‘ ,)*‘ 62> *2,‘) ;->)‘ 620‘
>/*-5 % ()*‘ =-*> .*‘ 26,;-*‘ 1 ‘ ,)*‘ -‘ 0 ;. *.‘ .‘ 01;D, ;/%
25)6?‘ .;==1.*.‘ ,)*?‘ ,1‘)6+*‘)60‘ .1?*‘ .;>)‘ 1 >*
2‘ ,)*‘) ;->)‘ 6.‘ ,)1.*‘ 1 ‘ ,)*‘ .6?*‘ 26?*‘ 2‘ ,)*‘ .,6,*‘
620‘ ,)6,‘ ,)* ‘ 6>,*0‘ 6.‘ 5;6-0.‘ 1 ‘ ,)*‘ A;05* .‘ >12. .,1- %
,)*-.‘ .;==1.*‘ ,)*?‘ ,1‘)6+*‘ D**2‘ 0*2, >6/ 8 ,)‘ ,)*‘
‘ 1-‘ ‘ 8)1.*‘ 0;. ‘ ,‘ 86.‘ ,1‘ 86,>)‘ 1+*-‘
,)*‘ - 5),.‘ 1 ‘ ,)*‘) ;->)‘ I‘ ,1‘ 6>,‘ 6.‘ .;=*- 2.*20*2,.‘ 1 ‘
,)*‘ % ‘ 620‘ ,1‘ .**‘ ,)6,‘ 6// >/*-9.‘ 6,,*20*0‘ ,)*‘ >*/*^
D-6, 12‘ 1 ‘ ?1-2 25‘ 620‘ *+*2 25‘ .*-+ >*‘ 2‘ ,)*‘) ;->)% J‘
‘ 25)6?‘ , ! 6 ! D9% ‘ >)% L ‘ g‘ ST‘ 6--6-‘
6 ! ‘ ‘ .‘ % %

62>*// ;.‘ 6‘ 81-0‘ 1>>6. 126// ‘ ;.*0‘ 2‘ ,)*‘ ?*62^
25‘ 1 ‘ % % ! .‘ ,)*‘ . [*‘ 1 ‘ >) ;->)*.‘ 2>-*6.*0 ‘
=->6>) 25 I 2‘ ,)*‘ >)62>*/ D*>6?*‘ +*- ‘ 0 >;/,‘ 620‘ ,‘
1 ,*2‘)6==*2*0‘ ,)6,‘ ,)*‘ 1 > 6, 25‘ D .)1=‘ 1-‘ =-*.D ^
,*-‘ 86.‘ 26;0 D/*‘ 12‘ 6>>1;2,‘ 1 ‘ & .‘ 5-*6,‘ 0 .,62>*‘ -1?‘
,)*‘ =*B=/*‘ ,*2>*‘ 6‘ >;.,1?‘ 86.‘ 2,-10;>*0‘ 1 ‘ =/6>^
25‘ 6‘ ‘ 1-‘ =;/= ,‘ -1?‘ 8) >)‘ ,)*‘ =-*6>)*-‘ 0*^
/ +*-*0‘ ,)*‘ .*-?12‘ 2‘ -12,‘ 1 ‘ ,)*‘ =6-, ‘ 12‘ 8) >)‘ 0 ^
+ 0*0‘ ,)*‘ >)62>*/ -1?‘ ,)*‘ 26+*% ,‘ 86.‘ ,)*-* 1-*‘
>6//*0‘ 2‘ >12.*_;*2>*‘ 1 ‘ ,.‘ =1. , 12‘ ‘ 6-‘
,6-‘ 6 ! ‘ ! .‘ %

‘ 62 06>7‘ I) *d : //*-‘ >1?=6-*.‘ ,)*‘ ,) 1‘
= >‘ I ='" ‘ ‘620‘ ‘ ‘6.‘ ,)*‘ ,) 1= 62‘
9 25.‘ 6-*‘ C., // 2‘ - *2,6/ =)-6.*‘ ., /*0‘ I=-- 2>*‘ 1 ‘
.*-+62,.J‘ \ ?12 . ‘ , ! ?1‘ -!‘ =% QQh‘ D ; ‘ ,) *‘ 26?*‘
,.*/ ‘ .‘ 8- ,,*2‘ " + ‘ 2‘ ,) 1= >‘ >1?=%
;01/ ‘ # ! 6 "!‘ ‘ K‘ X‘ 86.‘ ,)*‘ 26?*‘ 1 ‘ ,)6,‘
_;**2‘ 1 ‘ ,)*‘ ,) 1= 62.‘ MA‘ O ‘ & , - 8‘
3) 1.*‘) 5)‘ ,-*6.;-*-‘ > ‘ *;2;>) J‘ ‘ *%
>)6?D*-/6 2‘ 86.‘ >12+*-,*0‘ ,1‘)- ., 62 , ‘ ;20*-‘ ,)*‘
=-*6>) 25‘ 1 ‘) / =‘ ,)*‘ +625*/ .,‘ M >,.‘ + ‘ K X‘
% ‘ N %7 ()*‘ >1;2,- ‘ 1+*-‘ 8) >)‘ .)*-;/*0‘ 86.‘ 21,‘
6.‘ .1?*‘ 8-,*-.‘ 6//*5*‘ 8)6,‘ .‘ 9218 2‘ ,1‘ ;.‘ 6.‘ D .^
. 2 6‘ ‘ ,‘ 86.‘ ,)6,‘ -*5 12‘ 2‘ $==*-‘ ;D 6‘ 8) >)‘ 866
>6//*0‘ D ‘ ,)*‘ 4-**9.‘ ‘ 620‘ .‘ .;==1.*0‘ ,1‘ >1--*^
.=120‘ ,1‘ ,)*‘ =-*.*2,‘ =-1+ 2>*‘ 1 ‘ ,D6-6‘ / 25‘ D*,8 **2‘
Nj‘ 620‘ Qj‘ 21-,)‘ /6, ,;0*% -1?‘ ,)*‘ > ->;?.,62>*‘
1 ‘ ,.‘ D* 257 2*6-/ ‘ *2>/1.*0‘ D ‘ ,)*‘ ,)6-6‘ M .,6D1-6.‘
1-‘ (6>6[[*X 12‘ ,)*‘ - 5 0‘ 620‘ ,)*‘ 6)-‘ */C D 60‘ 1-‘
&) ,*‘ +*-‘ 620‘ ,)*‘ /*‘ 12‘ ,)*‘ /* , ‘ ,‘ 86.‘ .1?*^
, ?*.‘ 0*. 526,*0‘ ,)*‘ ./620J‘ 1 ‘ <*-1*‘ D ; ‘ ,)*‘ 62^
>*2,‘ 9 2501?‘ 6==*6-.‘ ,1‘)6+*‘ *L,*20*0‘ 6,‘ 12*‘ =*- 10‘
,1‘ ,)*‘ 21-,)‘ 1 ‘ ,)*‘ ./620‘ 6.‘ 6-‘ 6.‘ < 1;2,‘ *-96/%
()*‘ > , ‘ 1 ‘ <*-1*‘ .,110‘ 2*6-‘ ,)*‘ =-*.*2,‘ ..1;-‘
6D1;‘ ,8*2, ‘ ? /*.‘ 21-,)‘ 1 ‘)*20 T‘ 620‘ ,)*‘ *L,*2^
. +*‘ 620‘ ?652 >*2,‘ -; 2.‘ 1;20‘ 21,‘ 12/ ‘ ,)*-*7D;‘ ,
6/125‘ ,)*‘ ;==*-‘ +6//* ‘ 1 ‘ ,)*‘ /*‘ 6,,*.,‘ ,)*‘ 6-,‘ 620‘
> + / [6, 12‘ 1 ‘ ,)*‘ 62> *2,‘ ,) 1= 62.% ()*.*-;2.‘
.**2‘ 12/ ‘ 6,‘ 6‘ 0 .,62>*‘ D ‘ -;>*‘ 620‘ ;->9D6-0,‘
)6+*‘ . 2>*‘ D**2‘ ? 2;,*/ ‘ *L6? 2*0‘ 620‘ 6>>;-6,*/ ‘
0*.>- D*0‘ D ‘ 6 // 6;0‘ 1N ‘ ‘ 8‘ ;==*/ >5 =
‘ ‘7 ‘ !(8‘ 620‘ 1,)*-‘ ,-6+*//*-.% <A*-1*% -1?‘
D* 25‘ /125‘ ,)*‘ T>*2,-*‘ 1 ‘ >1?? *-> 6/ 2,*->1;-%C*‘ D*^
,8**2‘ ->6‘ 620‘ ,)*‘ .1;,)‘ 1 ‘ . 6‘ D*>6?*‘ 12*‘ 1 ‘ ,)*‘
- >)*.,‘ >1;2,- *.‘ ;=12‘ *6-.)‘ ,)*‘ ‘ ?*->)620 .*J‘ 620‘
8*6/,)‘ 1 ‘ ,) 1= 6‘ M .6% L/+‘ X‘ 86.‘ ,)*‘ ,)*?*‘ 1 ‘ ,)*‘
=1*,.‘ D1,)‘ 1 ‘ 6/*., 2*‘ 620‘ 4-**>*‘ 620*.‘ 2>*‘ ?;>)‘
1 ‘ ,)6,‘ 6 ;*2>*‘ 81;/0‘ 20‘ ,.‘ 86 ‘ 2,1‘ ,)*‘ -1776/>1^
-.‘ ,)‘ >->;2;,62>>‘ 5 +*.‘ *?=)6. .‘ ,1‘ ,)*‘ =)-6.*‘
- * ‘ * N ‘ ,9*‘ ,-*6.;-*J‘ 1 ‘ #;**2‘ 62‘
06=*% ,‘ .‘ ;-,)*-‘ 2,*-*., 25‘ ,1‘ 9218 ‘ -1?‘ ,)*‘ ,.^
, ?12 *.‘ 1 ‘ +6- 1;.‘ 6;,)1-.‘ M>1?=‘ ,)*‘ # ;**2‘ 1 ‘
)*D6 J‘ 8)1+ . ,*0‘ 1/1?12‘ 620‘ .*‘ B1.*=);.‘ & !‘
+ ‘ S‘ X‘ ,)6,‘ 1-‘ .1?*‘ , ?*‘ D1,)‘ D* 1-*‘ 620‘ 6 ,*-‘ ,)*‘
)- ., 62‘ *-6‘ ,) 1= 6‘ -1=*-‘ 86.‘ ;20*-‘ ,)*‘ -;/*‘ 1 ‘
?6/‘ .1+*-* 52.‘ 8)1‘ 6//‘ D1-*‘ ,)*‘ 6==*//6, 12‘ 1 ‘
‘ 6206>* J‘ 8) >)‘ 86.‘ 21,‘ .1‘ ? ;>)‘ 6‘ =-1=*-‘ 26?*‘ 6.‘
6‘ 0 ., 2>, +*‘ ,/* ‘ >1? ?12‘ ,1‘ *+*- ‘ .;>>*.. +*‘ ;**2‘
/ 9*‘)6-61)‘ J‘ 620‘ ,1/*? J‘ ,1‘ ,)*‘ 9 25.‘ 1 ‘
=,‘ 620‘ ‘ 6A.6-J‘ ,1‘ ,)*‘ *?=*-1-.‘ 1 ‘ 1?*‘ ()‘ ,‘
/ 2 ‘ > !‘ 7 !‘ + ‘ KRX‘ .6 .‘ ,)6,‘ ,)*‘ >*2,;- 12.‘
8)1?‘ *-1‘ .*2,‘ ,1‘ *L=/1-*‘ ,)*‘ >1;2,- ‘ -*=1-,*0‘
,)6,‘ 6‘ 81?62‘ -* 52*0‘ 1+*-‘ <*-1 ‘ >6//*0‘ ‘ 6‘
26?*‘ 8)>)‘)60‘ 0*.>*20*0‘ ,1‘ ,)*‘ _;**2.‘ 1-‘ ?62 ‘
*6-.%J‘ ,-6D1‘ 6/.1‘ M=% QK ‘ *O% 6.6;D%X‘ .=*69.‘ 1 ‘ 6‘
86-- 1-C_;**2‘ 1 ‘ ,) 1= 6‘ >6//*0‘ 6206>*‘ 2‘ ,)*‘ -* 52‘
1 ‘ ;5;.,;.‘ ,)*‘ .6?*‘ 8)1?A7 12‘ 6.. ;.‘ M/ + ‘ X 0*^
.>- D*.‘ 6.‘ _;**2‘ 1 ‘ ,)*‘ ‘ ,) 1= 62.‘ / + 25‘ 6D1+*‘ !**- +%8
5 =,% J‘ 2‘ % X‘ KK .)*‘)60‘ 2+60*0‘ 5 =,‘ 620‘ .112‘
6 ,*-86-0‘ 2.;/,*0‘ ,)*‘ : 1?62.‘ 12‘ ,)*‘ ,) 1= 62‘ -12^
,*-‘ 1 ‘ 5 =,‘ 6 ;.‘ *-12 ;.‘ ,)*‘ 51-2.‘ 1 ‘ ,)*‘
/6,,*-‘ =-1+ 2>*‘ ?6->)*0‘ 656 2.‘ ,)*‘ ,) 1= 62.‘ 620‘
)6+ 25‘ 0* *6,*0‘ ,)*‘ ?‘ 2‘ ,)*‘ */0‘ ,119‘ .*/>6‘ 620‘
,)*2‘ >-1.. 25‘ ,)*‘ .620.‘ 8)>)‘)60‘ /125‘ D* 1-*‘ =-1+*0‘
6,6/ ,1‘ 6?D .*.‘ 60+62>*0‘ ,1‘ -*?2 .‘ 6‘ 6,-125‘ =1^
. , 12% : *‘ 2*L,‘ 6,,6>9*0‘ 6=6,6‘ ,)*‘ >6= ,6/1‘ # ;**2‘
6206>*‘ ,119‘ 620‘ 0*.,-1 *0‘ ,T‘ D ;‘ ,)*2‘ -*, -*0‘ ,1‘
-*?2 .‘ 8)*-*‘)*‘ /* ,‘ 6‘ 56-- .12‘ 8)1?‘ ,)*‘ 86-/ 9*
_;**2‘ 6..6 /*0‘ D ;‘ ,)* ‘ 8*-*‘ -*/ *+*0‘ D ‘ *,-12 ;.%
)*‘ 86.‘ ., // /6,*-‘ -*6,*0‘ 6+1-6D/ ‘ D ‘ ;5;.,;.‘
)*‘ .‘ .6 0‘ ,1‘)6+*‘ /1.,‘ 12*‘ * *‘ M.**‘ + ?,) .‘ ‘ ‘
J‘ ; !‘ .% +%X% () .‘ 6=6,6‘ D ‘ 12‘ >6//*0‘ (*C
26=*‘ .‘ .;==1.*0‘ ,1‘)6+*‘ .,110‘ 2*6-‘ <1;2,‘ *-12 ;‘
620‘ ,1‘)6+*‘ D**2‘ 6‘ 9 20‘ 1 ‘ .*>120‘ < *-1*‘ 620‘ ,)*-*‘ .‘
.,// 2‘ ,)6,‘ 2* 5)D1-)110‘ M8)*-*‘ ,)*-*‘ 6-*‘ / 9*8 .*‘
?62 ‘ .=/*20 0‘ -; 2.X‘ 6?+ //65*‘ 8) ,)‘ D*6-.‘ ,)*‘ +*- ‘
. ? /6-‘ 26?*‘ 1 ‘ ! ;.*D ;. ‘ 8)1‘ 1;- .)*0‘ 2

,)*' 1;-,)'>*2,;-A% .6 .',)6,' 2') .'06 ',)*' _;**2.' 1 ' ,) 1= 6' >12, 2;*0' ,1' D*' >6//*0' 6206>*' ># !' 6 !' ' X% ';-1;.' 12 -?6, 12' 1 ',)*' 6>,' 1 ' *?6/*' .1+*-* 52, ')6+ 25' =-*+6 /*0' 2' ,) 1= 6')6.' D**2' -*^ ?6-9*0' 12' ,)*' *L ., 25' ?12;?*2,.' 1 ',)*' >1;2,- %

/62= ;65*' ?;>)' ?1-*' .6, . 6>,1-A% 1' *;' 6..*-,.' 12' ,)*' 6;,)1- , ' 1 '*>)*. 6., >6/' ,-60 , 12 ',)6,' ,)*' =-1=*-' 26?*' 1 ',)*' _;**2' ?*2, 12*0' 2', *' >,.' 86.' 1' 620' ,)6,' 1 ')*-' >)6?D*-/6 2'D +"!' ' .' 21,' ;2/ 9*/ ',)6,' .1?*' 1-?' 1 'B;06 . ?' 86.'6,',) .'=*- 10' =-1 *..*0',1'6'>*-,6 2'*L,*2,' 2' ,/ 1= 6'6.' 8*// 6.' 2' ,)*' 2* 5)D1- 25'>1;2,- '1 ' D .. 2 6% -*26>;.'M ' KX' 620' ;.*D ;.' I# '6 !' ' X' 6.>- D*' ,1' 6206>* .' ? 2 .,*-')*-' 18'2' >12+*-. 12' ,1')- ., 62 ,E '620',)*' =-1?;/56, 12' 1 ',)*' 41.=*/ ,)-1;5)1;',)*-' 9 2501?!' 620' 8 ,)',) .' 65-**.',)*' D .. 2 62',-60 , 12',)6,',)*' 86.'/ 9*8 .*',)*' 6=1../*' 1 ' (5- ',)6,' =6-,' 1 ' D .^ . 2 6' 8) >)'/6 '2*6-*..',1' <*-1 !' ,' .' 600*0',)6,')1' 6 ,*-86-0' =-*6>)*0',)*' 41.=*/ 2' -6D 6' */ L '620' 6/.1' 2',)*' ./620'1 ' * /12' 8)*-*').; *-*0'?6-, -^ 01?% M **' (//*?12,' 1 !' # !' 6 !',1?% ! 6.C 265*' 6 !' =; '=% NT' ;01/ ' ' '# !' &1/ ' ;->*' ' NT' & !'5 ' =-/' Q X' ,,1' >V1=% .% +% **' > ' / ' > '!

620 0;.' 62' -/62' C8-,*-' 8)1' /1;-.)*0' 6D1;,' 4 '620' .',)*' 6;,)1-' 1 '6' D119' 600-*..*0',1' : 6-?.' >,1- 2;.' ' ? ' ' '8) >)',15*,)*-' 8 ,)',)*' 62.8*-' 1 ' >,1- 2;.' .' *L,62,% ,' 82/ D*' 1;20' 2' U* 5/*-.' 1?? *2,6- '12' 4*2*. .'M 6. >' Q' 1/%X% ' -65?*2,' 1 '62' *= .,/*' 1 ' 620 0;.',1' >,1- 2;.' .' =-*.*-+*0' D ' <6D //12' & ' + ' % ' 6+*' # !' ! '& 'N T' 62012' 6 !' ' !' .% +%

();.' 12',)*' /6-5*.,'.*=;/>)-6/' = -6? 0' 2*6-' 7 ..1;-' ,)*' 62> *2,' <*-1*'M.**' 6 // 6;0' =/6,*' L/+ X' 6' *?6/*' 86--1-' 8 ,)',)*' -1 6/*2. 52.' 12')*-')*60' 0-65.' 1-^ 86-0' 6' 2;?D*-' 1 '>6=,+*.' 6.' 1 *- 25.',1',)*' 510.' p2 621,)*-' >1?=6-,?*2,' .)*' .' 2' 6' 86-/ 9*')6D,' 6D1;',1' 0*..-1 ',)*' .6?*' 5-1;=% : **-*2' 6 ,*-' 0*^ .>- D 25',)*' ?12;?*2,.' 6,' 656' 1-' 696' .1;,)*6..' 1 ')*20 ' .6 .' ' ,' .'*+ 0*2,',/ 6,',)*.*' -*=-*.*2,6^ , 12.' =1..*..' ?62 '=*>;/ 6-,*.' 620',)6,',)* '6-*' 21,' =_ *' 5E=, 62% ()*' ?1.,'-*?6-96D/*' 0 *-*2>*' 6=^ =*6-.' 2',)*' =*-.12.' 1 *- 25% ()*' _;**2.' 6==*6-' 8 ,)' ,)*' 9 25.' 620' 21,' ?*-*/ '6.'=-*.*2, 25' 1 *- 25.'D;', 6.')*-1 2*.' 620' >12_;*-1-.% 1,) 25' 1',) .' 9 20')6,' *,' D**2' 0 .>1+*-*0' 12',)*' T =, 62' -*/ * .' * ,)*-' 2' 5 =,' 1-' ;D 6% ,' ?6 ',)*-* 1-*' 8 ,)' >*-,6 2,' D*' >12>/;0*0',)6,',)* '6-*' .;DA*>,.' =*>;/ 6-' ,1' ,) 1= 6% ?125',)*' ,) 1= 62.' .6 .' ,-6D1'M=% X',)*' 81?^ *2' 6/.1' 6-*' 6-?*O% : *-101,;.' M '% X' ?*2, 12.' 6' ,1>-.' 6?125',)*' 62> *2,' _;**2.' 1 ' ,) 1= 6% $=12' ,)*-*/ * '\12',)*' ?12;?*2,'6,' 6/6D.)>%'-*=-*.*2, 25' ,)*' >12_;*.,'1 ' ,) 1= 6'D ' *.1.,-.','-)*-*' .' 6'_;**2' 8 ,)')*-' .12.' 8)1' 6==*6-.' D* 1-*')?' 6.' 6' >6=, +* I M: **-*2' , ' " '7 ' '& 1' 'NRRX% ()*' 26?^ 6206>*' 1-') " 1' 6==*6-.' 12',)*' 5 =, 62' ?12^

/62+ ;65*' ?;>)' ?1-*' .6, . 6>,1-A% 1' *;' 6..*-,.' 12' ,)*' 6;,)1- , ' 1 '*>)*. 6., >6/' ,-60 , 12 ',)6,' ,)*' =-1=*-' 26?*' 1 ',)*' _;**2' ?*2, 12*0' 2', *' >,.' 86.' 1' 620',)6,' 1 ')*-' >)6?D*-/6 2'D +"!' ' .' 21,' ;2/ 9*/ ',)6,' .1?*' 1-?' 1 'B;06 . ?' 86.'6,',) .'=*- 10' =-1 *..*0',1'6'>*-,6 2'*L,*2,' 2' ,/ 1= 6'6.' 8*// 6.' 2' ,)*' 2* 5)D1- 25'>1;2,- '1 ' D .. 2 6% -*26>;.'M ' KX' 620' ;.*D ;.' I# '6 !' ' X' 6.>- D*' ,1' 6206>* .' ? 2 .,*-')*-' 18'2' >12+*-. 12' ,1')- ., 62 ,E '620',)*' =-1?;/56, 12' 1 ',)*' 41.=*/ ,)-1;5)1;',)*-' 9 2501?!' 620' 8 ,)',) .' 65-**.',)*' D .. 2 62',-60 , 12',)6,',)*' 86.'/ 9*8 .*',)*' 6=1../*' 1 ' (5- ',)6,' =6-,' 1 ' D .^ . 2 6' 8) >)'/6 '2*6-*..',1' <*-1 !' ,' .' 600*0',)6,')1' 6 ,*-86-0' =-*6>)*0',)*' 41.=*/ 2' -6D 6' */ L '620' 6/.1' 2',)*' ./620'1 ' * /12' 8)*-*').; *-*0'?6-, -^ 01?% M **' (//*?12,' 1 !' # !' 6 !',1?% ! 6.C 265*' 6 !' =; '=% NT' ;01/ ' ' '# !' &1/ ' ;->*' ' NT' & !'5 ' =-/' Q X' ,,1' >V1=% .% +% **' > ' / ' > '!

620 0;.' 62' -/62' C8-,*-' 8)1' /1;-.)*0' 6D1;,' 4 '620' .',)*' 6;,)1-' 1 '6' D119' 600-*..*0',1' : 6-?.' >,1- 2;.' ' ? ' ' '8) >)',15*,)*-' 8 ,)',)*' 62.8*-' 1 ' >,1- 2;.' .' *L,62,% ,' 82/ D*' 1;20' 2' U* 5/*-.' 1?? *2,6- '12' 4*2*. .'M 6. >' Q' 1/%X% ' -65?*2,' 1 '62' *= .,/*' 1 ' 620 0;.',1' >,1- 2;.' .' =-*.*-+*0' D ' <6D //12' & ' + ' % ' 6+*' # !' ! '& 'N T' 62012' 6 !' ' !' .% +%

620/*' 7N' '6' %' 6.' */.*8)>D' -*20*-*0T O '6' 1" ' 6.' */.*8)*-*% : 1;.*.' 2',)*' 6.,' 8*-*' -1?',)*' *6-/ *.,', ?*.' / 5),*0';=' 8 ,)'/6?=.'620',)1.*' 1',)*' : *D-*8.' =-1D^ 6D/ '-*.*?D/*0'.;>)' 6.' 8*' 20' 0*=>,*0' 2',)*',1?D.' 6,'()*D*.% B1D'0*.>-D 25',)*'0*..-;>, 12' 1'6' 6) / ' 6?125' k*' -6D.'620',)*'-*20*- 25'12*' 1',)*-')6D ^ ,6, 12.' 0*.1/6,*' .6 .' '()*/ 5),' .)6// D*' 06-9' 2') .' ,6D*-26>/*' 620') .' >620/*' .)6// D*'=;'1;'8,)') ?J' ML+ ' ST' LL ' X% 2',)*' 1,)*-')620 8)*2' 410' =-1? .*.',1'5 +*' 6+ 0'6'/6?='6/86 .' 2'B*-;.6/*?' ,' .' $2 6..;-62>*',)6,')' .')1;.*' .)1;/0' 2*+*-' D*>1?*' 0*.1/6,*% 2',)*' /625;65*' 1 'B*-*?6) ',1' *L, 25; .)' ,)*' 5),' 2' 62' 6=6-,?*2,' .' 6'>12+*-, D/*' =)-6.*' 1-' ,1,6/' 0*..-;>, 12' MB1D'LL+' X% ' D;-2 25'/6?=' .' 12',)*' 1,)*-')620' 6' .?D1/ 1 '=-1.=*-, 'MB1G%' LL L' NX% <6//*,' 2') .' ',(6*% '.6 .' '()*)1;.*.' 2' 5A=,' 6-*' 2*+*-' 8 ,)1;'/5),.'!',)*' D;?'/6?=.' 6//',)*' 2 5),'/125' 620' 2I' '1>>;=*0'6=6-,?*2,% 1'-*_;.,*',1',)*' >1? 1-,'1' 6' 6? / ' .',) .'>;.,1?' -*>912*0',)6,',)*'=11-*.,'=*1=/*' 81;/0'-6,)*-'-*,-*2>)' 6'=6-,'1',)* -' 110',)62'2*5/*>,' ,%J' 1D*-,.' 2' //;.^ ,-6, 12'1',)*'=6..65*' ' '8 /' .*6->)'B*-;.6/*?'8 ,)' >620/*.J'M7*=)% ' KX'-*?6-9.' ' 1*.' 6' ?62' 0*>/6-*') .' 221>*2>*' 1 '62 '>-?*',)*' 6>>;.*-.' .6 '!& *' 8 // .*6->)' ,)***' 8 ,)' /6?=.T!' ` *.' *.' ' 8 // /119' 2,1' ,)6,' 6 6-'8 ,)'/6?=.'5121' 12,H' 1;'.**' '6?'21,'5;/, %!' ! **') /! ()*-*'6-1'?1215-6=).'D*6- 25'12',D%.';DA*>,'6.' 1/^ /18.'d '&% : 1/ *-' # '% ' !' 'M /,1- ' XT' B% B% < ;//*-' ' ' !' O 1) !' MB*2% S X' >)2-[/* .>)' ' !' " ' 2'M 2') .' !' LL+X' ,1_9D6;.*2' ' ' ' ' ' 4 'M(-% 60')% K X% **' < ! % ' ' " ' %% ' 7% 5 ' " "! ' ()*=-6>,>**' 86.'=-1D6D/ '0*-+*0' -1?')*6,)*2'620' B*8 .)'81-.) =% 1?*' 1?62'8-,*-.'6.>-D*' ,.' 1-^ 5 2',1',)*' *6-/ ')- ., 62.'8)1'=-*+*2,*0'D '=*-.*^ >;,12' -1?'81-.) == 25' 2'06 /5),')*/0',)*' -'?**.^ 25.' ;20*-' 5-1;20'8)*-*' 6-, >6/ /5),' '2**0*0' M /6;0*' 0*' *-,'6 % ' ' " ' 'N 42 8! ,)*-.' M*% 5% *-5 *-7' ' ' -" '.% +%X' _;1,*' ,)*' D119' 1 ' *+*/6, 12' 8)*-* 2' ?*2, 12' Y' ?60*' 1 ' >620/*. I 620' 51/0*2' >620/*., >9. J' 2' .;==1-,' 1 ',)*' ;.65*'620' 6/.1',)*' &% ' 'M 62% X' 8)*-*' ?*2, 12' .' ?60*' 1 ' 1 / 1-',)*')1/ '/6?=%I I' *-5 *-' 6/.1'>,*.' B*-1?*' I ' 'N ' >% NX' 2' .;==1-,' 1 ',)*' ;.*' 1 '/5),.' 2' 81-.) =' D;',)*' =6.C

2> *2,' ,D 1= 62' # ;72',-;?=) 25' 1+*-' 6=, +*.%

) ' ' 3 -' H '" ' W' * ! : *-15/ =)' 1-' !

2?*2,.' 12' 6' -1 6/' >6-,1;>)*' 1//18*0' D ',)*' 0*.*-^ ? 26, +*' . 52' 1-' 6' 81?62% ,' .' . 25;/6-' *21;5) ',)6,' 8)*2' -;>*' 86.' 6,')*20 ',)*' 51+*-2?*2,' 1 ',)*' 0 .,->,' 86.' 2',)*' D620.' 1 '6' *?6/*' >6//*0' $ 1' % *',)*' /60 '1-' ?..-*..% : *' .6 .' '()*-*' .' 6',-6^ 0, 12',)*-*',)6,' 6' 81?62'8)1.1' 26?*' 86.' : *206C _;*'12>*' 51+*-2*0'6/',)6,'>1;2,- I'8)*2>*' 8*' ?5),' ?65 2*',)6,',) .' 86.' =6-,' 1',)*' 9 2501?' 1' 62^ 06>*' 1-C8-, 25',) .' 26?*' 2' 4-**9'/*,,*-.' ,' 8 // >1?*' ,1' D*' 21' 1,)*-',)62' :*206_;S',)*' 26, +*' 1-' ? .,-*..' 1' D*20' 1-')620 J' I- ' ' " ' $ ' '" '7 1' +' KR' >1?=' ' X% ,' .',-;*' ,)6,',)*' 26?*' 62069*' D* 25' 1-* 52',1',)*' B*8.' ,' ' 2' +6 2',1' .**9' 8 ,)' 6/-6>,' 1-' ,.' *, ?1/15 ' 2' : *D-*8' D;.' ,)*' >12A*>,;-6/' 0*- +6, 12' =-1=1.*0' D' -;>*' .' 8)1// ' 260? .. D/*' 21-' .',)*' 6,,*?=,'M.** 6D1+*'1 ' : //*-' ,1',-6>*' ,.' ?*62 25' 2',)*' ,D 1= >

is bound to come to church and offer up their candles, as though they were bodily with our Ladye; hoping for this reverence and worship that they do to our Ladye to have a great reward in heaven." The following explanation is given by Pope Innocent III: "Why do we carry lighted candles at this festival? The answer may be derived from the book of Wisdom, where it is said (ch. xiv, 23) that the heathen offered sacrifices at night (*sacrificia obscura*). The Gentiles, indeed, had devoted the month of February to the infernal deities, because, as they ignorantly believed, it was at the beginning of this month that Pluto had ravished Proserpine. Ceres, her mother, had, according to their belief, sought her through Sicily for a whole night by the light of torches kindled at the flames of Ætna. In commemoration of this, they every year, at the beginning of February, travelled the city during the night bearing lighted torches, whence this festival was called *amburbale*. But the holy fathers, being unable to abolish this custom, decided that lighted candles should be carried in honor of the blessed Virgin Mary; and thus what was formerly done for Ceres is done to-day in honor of the Virgin, and what was done formerly for Proserpine is now done in the praise of Mary" (Innocent III, *Opera*, "Serm. I. in fest. purif. Mariæ," fol. xlvii, col. 2, ed. Coloniæ, 1552).

The following are the prayers for the hallowing of candles upon Candlemas-day, copied from "The Doctrine of the Mass-book," 1554. The asterisks indicate crossings: "O Lord Jesus Christ, * bless thou this creature of a *waxen taper* at our humble supplication, and by the virtue of the holy cross pour thou into it an heavenly benediction; that as thou hast granted it unto man's use for the expelling of darkness, it may receive such a strength and blessing, through the token of thy holy cross, that in what places soever it be lighted or set, the Devil may avoid out of those habitations, and tremble for fear, and fly away discouraged, and presume no more to unquiet them that serve thee, who with God," etc. Then follow other prayers, in one of which occur these passages: "We humbly beseech thee that thou wilt vouchsafe to * bless and sanctify these candles prepared unto the uses of men, and health of bodies and souls, as well on the land as the waters." "Vouchsafe * to bless and * sanctify, and with the candle of heavenly benediction to lighten these tapers; which we thy servants taking in the honor of thy name (when they are lighted), desire to bear," etc. "Here let the candles be sprinkled with holy water." The service concludes with this Rubric: "When the hallowing of the candle is done, let the candles be lighted and distributed."

"The festival of St. Agatha, which commences on Candlemas-day in Sicily, strongly resembles the Februan rites. Lighted tapers form a distinguishing part of the ceremonial; and the memory of Proserpine is still cherished, though under another superstition, by kindling a blazing pine torch near the very spot to which the mythological legend assigned the scene of Pluto's amorous force. An account of this festival will be found in Blunt's *Vestiges of Ancient Manners in Italy*."—Bingham, *Orig. Eccles.* bk. xx, c. viii, § 4; Augusti, *Denkwürdigkeiten*, Thl. iii, p. 79; Siegel, *Alterthümer*, iii, p. 326; Eadie, *Eccles. Dictionary*, s. v.; Chambers, *Book of Days*, i, 212 sq.; Brand, *Popular Antiquities*, i, 24 sq.

Candlestick (מְנוֹרָה, *menorah'*; Chald. נְבְרַשְׁתָּא, *nebrashtah'*; Sept. and N. T. λυχνία, properly a *lamp-stand*, as in Matt. v, 15), the candelabrum which Moses was commanded to make for the tabernacle, after the model shown him in the mount. Its form is chiefly known to us by the passages in Exod. xxv, 31-40; xxxvii, 17-24; on which some additional light is thrown by the Jewish writers, and by the representation of the spoils of the Temple on the arch (q. v.) of Titus at Rome, the only veritable monument extant

The Golden "Candlestick" as it now appears on the Arch of Titus.

of the kind (Prideaux, *Connection*, i, 166). It is called in Lev. xxiv, 4, "the pure," and in Ecclus. xxvi, 19, "the holy candlestick." So Diodorus Siculus describes it (x, 100, ed. Bip.) as "the so-called immortal light perpetually burning in the fane" (*ὁ ἀθάνατος—λεγόμενος λύχνος καὶ καιόμενος ἀδιαλείπτως ἐν τῷ ναῷ*).

The material of which it was made was fine (טָהוֹר, "*pure*") gold, of which an entire talent was expended on the candelabrum itself and its appendages. The mode in which the metal was to be worked is described by a term (מִקְשָׁה, "beaten [rather *turned*] work," Sept. *τορευτή*, Vulg. *ductile*) which appears to mean *wrought* with the hammer, as opposed to *cast* by fusion. Josephus, however, says (*Ant.* iii, 6, 7) that it was of *cast* gold (*κεχωνευμένη*), and hollow. The structure of the candelabrum, as far as it is defined in the passages referred to, consisted of a base (יָרֵךְ, Joseph. *βάσις*; according to Maimonides, three feet high); of a shaft (קָנֶה, *reed*, i. e. stem) rising out of it; of six arms, which came out by threes from two opposite sides of the shaft; of seven lamps, which were supported on the summits of the central shaft and the six arms, terminating in seven heads all in one row [?], standing parallel to one another, one by one, in imitation of the planets (Whiston's *Josephus*, l. c.); and of three different kinds of ornaments belonging to the shaft and arms. These ornaments are called by names which mean *cups*, *circlets*, and *blossoms*: "four bowls made like unto almonds, with their knops and their flowers." The cups (גְּבִיעִים, Sept. *κρατῆρες*, Vulg. *scyphi*) receive, in verse 33, the epithet *almond-shaped* (it being uncertain whether the resemblance was to the *fruit* or to the *flowers*). Three such cups are allotted to every arm, but four to the shaft: two-and-twenty in all. See Bowl. Of the four on the shaft, three are mentioned as if set severally under the spots where the three pairs of arms set out from the shaft. The place of the fourth is not assigned; but we may conceive it to have been either between the base and the cup below the lowest tier of arms, or, as Bähr prefers, to have been near the summit of the shaft. As for the name of the second ornament, the circlets (כַּפְתֹּרִים), the word only occurs in two other places in the Old Testament (Am. ix, 1; Zeph. ii, 14), in which it appears to mean the *capital* of a column; but the Jewish writers generally (cited in Ugolini *Thesaur.* xi, 917) concur in considering it to mean *apples* in this place. Josephus, as he enumerates *four* kinds of ornaments, and therefore two of his terms must be considered identical, may be supposed to have understood *globes*, or *pomegranates* (*σφαιρία*, *ῥοΐσκοι*,

Antiq. iii, 6). But as the term here used is not the common name for pomegranates, and as the Sept. and Vulgate render it *σφαιρωτῆρες* and *spherule*, it is safest to assume that it denotes bodies of a spherical shape, and to leave the precise kind undefined. Bähr, however, is in favor of *apples* (*Symbolik*, i, 414). See KNOP. The name of the third ornament (פְּרָחִים, *κρίνα*, *lilia*) means *blossom*, *bud*; but it is so general a term that it may apply to any flower. The Sept., Vulg., Josephus, and Maimonides understand it of the lily, and Bähr prefers the flower of the almond. It now remains to consider the manner in which these three ornaments were attached to the candelabrum. The obscurity of verse 33, which orders that there shall be "three almond-shaped cups on one arm, globe and blossom, and three almond-shaped cups on the other arm, globe and blossom, and so on all the arms which come out of the shaft," has led some to suppose that there was only one globe and blossom to every three cups. However, the fact that, according to verse 34, the shaft (which, as being the principal part of the whole, is here called the *candelabrum* itself), which had only four cups, is ordered to have globes and blossoms (in the plural), is a sufficient proof to the contrary. According to Josephus, the ornaments on the shaft and branches were 70 in number, and this was a notion in which the Jews, with their peculiar reverence for that number, would readily coincide; but it seems difficult, from the description in Exodus, to confirm the statement. It is to be observed that the original text does not define the height and breadth of any part of the candelabrum; nor whether the shaft and arms were of equal height; nor whether the arms were curved round the shaft, or left it at a right angle, and then ran parallel with it. The Jewish authorities maintain that the height of the candelabrum was eighteen palms, or about five feet; and that the distance between the outer lamps on each side was about 3¾ feet (Jahn, *Bibl. Arch.* § 329). Bähr, however, on the ground of harmonical proportion with the altar of incense and table of shew-bread, the dimensions of which are assigned, conjectures that the candelabrum was only an ell and a half high and broad. The Jewish tradition uniformly supports the opinion that the arms and shaft were of equal height, as do also Josephus and Philo (*l. c.*; *Quis Rer. Div. Hær.* § 44), as well as the representation on the Arch of Titus. Scacchius has, however, maintained that they formed a pyramid, of which the shaft was the apex. The lamps themselves were doubtless simply set upon the summits of the shafts, and removed for the purpose of cleaning. As the description given in Exodus is not very clear, we abbreviate Lightfoot's explanation of it. "The foot of it was gold, from which went up a shaft straight, which was the middle light. Near the foot was a golden dish wrought almondwise, and a little above that a golden knop, and above that a golden flower. Then two branches, one on each side, bowed, and coming up as high as the middle shaft. On each of them were three golden cups placed almondwise on sharp, scallop-shell fashion, above which was a golden knop, a golden flower, and the socket. Above the branches on the middle shaft was a golden boss, above which rose two shafts more; above the coming out of these was another boss, and two more shafts, and then on the shaft upward were three golden scallop-cups, a knop, and a flower, so that the heads of the branches stood an equal height" (*Works*, ii, 397, ed. Pitman). Calmet remarks that "the number 7 might remind them of the Sabbath:" we have seen that Josephus gives it a somewhat Egyptian reference to the number of the planets, but elsewhere (*War*, vii, 5, 5) he assigns to the 7 branches a merely general reference to the Jewish hebdomadal division of time. The whole weight of the candlestick was 100 minæ (see Lamy, *De Tab. Fœd.*). It has been calculated to have been worth £25,380, exclusive of workmanship.

Usual representation of the "Golden Candlestick," the arms being all in the same plane.

Different arrangement of the branches of the "Golden Candlestick." 1. Plan; 2. Elevation.

This candelabrum was placed in the Holy Place, on the *south* side (*i. e.* to the *left* of a person entering the tabernacle), opposite the table of shew-bread (Exod. xxvi, 35). Its lamps, which were supplied with wick (? of cotton) and half a log (about two wine-glasses) of pure olive oil only, were lighted every evening, and extinguished (as it seems) every morning (Exod. xxvii, 21; xxx, 7, 8; Lev. xxiv, 3; 1 Sam. iii, 3; 2 Chron. xiii, 11). Although the tabernacle had no windows (Exod. xxx, 8; Macc. iv, 50), there is no good ground for believing that the lamps burnt by day in it, whatever may have been the usage of the second Temple. It has also been much disputed whether the candelabrum stood lengthwise or diagonally as regards the tabernacle; but no conclusive argument can be adduced for either view. According to Josephus, it was placed in an oblique position (λοξῶς), so that the lamps looked to the east and south (*Ant.* iii, 6, 7; Exod. xxv, 37). As the lamp on the central shaft was by the Jewish writers called *the western*, or *evening lamp*, some maintain that the former name could not be applicable unless the candelabrum stood across the tabernacle, as then only would the central lamp point to the west. Others, again, adhere to the latter signification, and build on a tradition that the central lamp alone burnt from evening to evening, the other six being extinguished by day (Reland, *Antiq.* i., 5, 8). The priest in the morning trimmed the lamps with

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/18' 80,/' -* _ ; *2,' 921,. ' ,,*0' 1-' 8-, 25' =-1D6D/ ' 6' .=*> *.' 1 ' $ " ! % ( ) >9' 620') 1//18' 5-18^ 25' 2' - +*-.' 8) >)' .' >6//*0' ' 620' 6/.1' % ' >& ' 8!' % + '>& '%" F E' ./*20*-' / 5), C>1/1-*0' 620' 8*// 92182' S% ( ) *' -**0' >6//*0' " '>& ' % ' 8 ' >@ ' 7 % !',% L %X' ( ) *.*' 6-*' 6// 0*.>- D*0' M % >%X' ? ? *^ 0 6,*/ ' D* 1-*' ,) *' =6=A2-; . ' 8) /*') O % ' %I % -) [' .' 0*.>- D*0' 2' 6' 0 *-*2,' =6-,' 1 ' ,) *' D119' 26 ? */ ' 2' >) % ' 6/125' 8 ,) ' .= >*.' 620' =*- ; ? *.% ( ) *' -6D.' 0*.>- D*' ,) *' 0 *-*2,' 9 20.' 1 ' -**0' ; 20*-' ,) *') *60' 1 ' 8O ' 1-') *' 1 ' 8) >)' ,) * ' 5 +*') ' 6.' ,) *' . 212 ?1; .' 4-**9' ,*- ? % -1? ' ,) *' >12,*L,' 1 ' .*+*-6/ 1 ' ,) *' 6D1+*' =6..65*.' 1 ' >- =, ; -*' 2' 8) >)' + "' .' ? *2, 12*0 ' ,' .' *+ ^ 0*2, ' ,) 6,' ,' 86.' 6' =/62,' 5-18 25' 2' 8 6,*-' 620' 81') 6+*' .**2 ' -1?' ,) *' ? *62 25' 1 ' ,) *' 81-0' 2' 1,) *-' /62^ 5; 65*. ' ,) 6,' , ' ? ; .') 6+*' D**2' 6==/ *0' ,1' 12*' 1 ' ,) *' ,-; *' -**0. ' 6.' 1-' 2. ,62>*' & ' *6 % ' M=*-^) 6=.' ' 6' +6- *, ' 1 ' &!' (81' 5-18 25' 1 ' ,) *' D629.' 1 ' ,) *' /*% 2' ,) *' *8' (*. ,6 ? *2, ') O ' .**?.' ,1' D*' 6==/ *0' >) * / ' ,1' =/62,.' 5-18 25' 2' 0- ' 620' *+*2' D6--*2' . ,; 6, 12.' 6.' 2' ; 9*' + ' K ' ' &) 6, ' 8 *2, ' *' 2,1' ,) *' 8 /0*-2*. .' ,1' .** ' 6' (1*0' .) 69*2' D ' ,) *' 8 20HJ' (1' . ; >)' =6. . 65*. ' .1 ? *' 1 ' ,) *' .=*> *.' 1 ' -**0C/ 9*' 5-6. .*. ' 8 ,) ' ./*20*-' .,* ? .' 620' / 5),' /1>>; C /*2,' 2 /1-*.>*2>*' 1--6*-/E' -* *--*0' ,1' $ " 1' D ; ,' 218' .*=6-6,*0' 6.' 0 ., 2>,' 5*2*-6' 6-*' 8 *// . ; ,*0% **' 1 ! N' $ ' ?*%m ' ( ) .' .' 0*. 526,*0' 2' : *D% D%' 1' ' ' % ' ' # S' 6// 1 ' H' 8 H ' PVWUS' ' ' # >1//*>,*0' 6_0' =; D/ .) *0' D ' 1; +*,' 2' D .' , % ' =

& &

' ' M 1;+6 2' S RX ' ; ' N ' + ' KT 62012 '6 ' ' 1' ' N %

62 ; . ' *,-; . ' 1 ' ?*5;*2 ' 6' B*. ; ,' D1-2' < 6 'Q K ' *2,*-*0',)*' 1-0*-' 1 ',)*' B*. ; ,.' 2' N' D*>6?*' =-1 *..1-' 620' -*>,1-' 1 ',)*' $2 +*-. , ' 1 ' 2(51/.,60,' 2' R' 620' -*>,1-' 1 ',)*' 9a1//*5*' 1 ',)*' B*.^ ; ,.' 2' *226' 2' % : *' ; .*0') .' 2 /;*2>*' 8 ,)',)*' *?=*-1-' *-0 2620' ' 1-',)*' .;==-*.. 12' 1 ' -1,*..62,^ .?% .',)*' -..' 4*-?62' '=-1+ 2> 6/J' 1 ',)*' B*. ; ,. ')*' *.,6D/ .)*0' >1//*5*.' 1 ',)*' 1-0*-' 6,' -65;*' ;5.^ D;-5' // 25*2 ' 620' - D1;-5' M 2' 8 ,[*-/620X' 6,' 8) >)' /6,,*-' =/6>*')*' 0 *0' *>% K R % 62 . ;.' 86.' 12*' 1 ',)*' ?1.,'=-1? 2*2,' 1==12*2,.' 1 ',)*' *C' 1-?6, 12' 2' 4*-?62 ' 620',)*' 6--*.,' 1 ',)*' -* 1-?6^ ,1- 7?1+*?*2,' 2' ;.,- 6' 620' 6+6- 6' .' 1-' 6' /6-51' =6-,' 18 25' ,1') .' /6D1-.' 620') .' 2 /;*2>*% 2' 1-0*-' ,1' >1;2,*-6>,',)*' 2 /;*2>*' 1 ',)*' >6,*>) . ?.' 1 ' ;^ ,)*-' 620' 1,)*-' 81-9.' 1 ',)*' 1;20*-.' 1 ' -1,*..62,^ .?')*' 8-1,*') .' $ ' ' ($' " ' M Q T 8 ,)' 6' >1?*2,6- 'D ' % ;.?;.. ' 1/152*' QS' 620' ;5.D;-5' QNN ._% ' +1/. T 2*8' *0 , 12 ' 620.);, Q KX' 8) >)' 86.' .-62./6,*0' 2,1' 2*6-/ ' 6// /625;65*.' M4-**9' -65;*' S KT 4-**9(6, 2 ' ;5.D;-5' S KX' 620' 6' .)1-,*-' >6,*>) .?' *2, ,/*0' ' " +' % 'M SSX' 8) >)' ;2, /',)*' ? 00/*' 1 ',)*' Q,)' >*2^ ,;- ' .*-+*0' 6.',)*' D6. .' 1 '=1=;/6-' 2.,-;>, 12' 2',)*' 6,)1/ >' .>)11/.' 1 '4*-?62 ' 620')6. '*+*2' 2' ?10*?' , 2A>. ' 656 2' >1?*' 2,1' ;.*' M2*8' *0 , 12.' a 0A620.);, ' QNNT <6 2[' Q X% **' ' g 6/.1' -" ! QSN' : * ,' N' =% S% 62 . ;.' 6,1' *0^ ,*0',)*' /*,,*-.' 1 'B*-1?*' *1',)*' 4-*6,' 620' -/ 1 ' /*L620-6' 620' >1?= /*0' 6' 6,)1/ >' -6 *-CD119' ' " 1' 2,8*-=' N T ;5.D;-5' Q T 4*-?62' Q,)' *0 ,% 620.);, ' QKRX% ()*' -1,*..62,.' >6//*0') ?' ,)*' ;.,- 62' 15 J' 8) /*' ,)*' B*.;., =-6 .*0') ?' 6.',)*' .*>120' 6=1../*' 1 ' 4*-?62 ' 620' *+*2' *20*6+1-*0',1' 1D,6 2') .' D*6, >6, 12% ()*-' * 1-,.' 1-' 6' /125',?*' ;2 -; , ;/' 8*-*' 6,' /*25,)' >-182*0' 8 ,)' .;>>*..' 0;- 25',)*' =12, >6,*' 1 ' ;., d' 8) 1' =/6>*0' 62 . ;.' 12',)*' / .,' 1 ',)*' *6, J' 15-6=) *.' 1 ' 62 . ;.' 8*-*' =; .)>%0' 2' 6, 2' D ' 60*-;.' 620' 6>>) 2' M<;2>)' SK7X' 2' -*2>)' D ' 1-52 'M 6- .' QX' 2' ,6/ 62' D ' 6251-*' 620' 1/ C 56,, T 2' 4*-?62' D+' & *- *-' M 2' ' / " ' + +1' >)6) 6;.*2' Q K' K' +1/.%%

629*,' M 6 =6 +6X' 6' ' MK' (?% ' X' .' 6' 0 .*6.*' 8) >)' .=-*60.' D ' 0*5-**.' 1+*-',)*' 8) 1/*' D10 % (1'.;Z,)' 6' =;,- 0' .,6,*' 1 ',)*' . .,*?' ,)*' 6=1.,/*' >1?=6-*.' ,)*' >1--;=,' 01>,- 2*.' 1 ' : ?*C' 26?.' 620' D /*,;.%

629*-C8 1-?' M=7% ' (' 1' B1*/' ' T ' KST >6,*-= //6-J' .6% >+' N T B*-%' / ' ' K T *=,% * % ' !' ! /1>;.,C5-;DT D;,')%% */1>;.,' 2' B*- T)6/0% 8 25*0' /1>;.,T -% >-**= 25' /1>;.,X .' 5*2*-6// ' -* *--*0',1' .1?*)6 - ' 1-' >6,*-= //6-C/ 9*' .=*> *.' 1 '/1>;.,' MB*-% / ' K ' 1' ;.)% *-% -1;5)JX% 1.. D/ ' ,' ?*-*/ '0*.>- D*.',)*' ' 2' 6' >*-,6 2' .,65*' 1 ',.' 5-18,)' + [%A;.,' 8)*2' ,' *?*-5*.' -1?' ,)*' I' >6,*-= //6-' .,6,*' 620' 1D,6 2.',)*' ;.*' 1 ' ,. 8 25.T .**' 6)% ' S' * + = ' " ' + M NI7N' ' % %)8' ,.' .>6/*.' \1-' 1(B % ' ,. 8 25.JN' & ' ' ,);.' >1--*.=120 25',1',)*' 0*.>- =, 12' D ' B*-1?*' M 2' /1>' 6)%X' 1',)*' I O 8' 1-' 8 25/*..' /1>;.,J' M -*02*-' D * =% N T .**' 1>)6-,' # /! ' X% **') $!

622*' (' '6' 6=,.,' ? 2.,*-' 86.' D1?' 2' 2^ 5/620' 6D1;',)*' *6-' R' 1-' S % 2' *6-/ ' / *')*' 86.' 6' ? 2.,*-' 2',)*' .,6D/.)*0');->)' D;,' A1 2*0' ,)*' 6=,.,' 21,' 6-' -1?' SN % : *' 86.' 1-' .1?*', ?*' =6.,1-' 1 ',)*' >);->)' 2' 1;.) 86-9' 12012' D* 25' .;>^ >*..1-',1' <-' :;DD6-0' ,.' --,' =6.,1-% : *' 86.' D62^ .)*0',1' : 1//620' 8)*-*' M21,' >12. 0*- 25' D6=, .?' 6' =-*-*_;.,*' ,1' >1? ?;2 12X')*' .;>>**0*0' 2.81-,)' M_% %X' 6.' =6.,1-' 1 ') .' >);->)' 2' ?.,*-06?' 620' 86. 0*.*-+*0/' =1=;/6-% &) /*' 2' D62.)?*2,' 2' SN ')*' =;D/.)*0' 6' 81-9' 12I',)*' 7 ' 1$ % ' ' " ' " "' '6 ' 2' S ')*' -*,;-2*0' 12' 6'+..',1' 25/620'620' 1;20*0',)*' 6=,..');->)' 2' -160?*60' -.,1/% <-% 622*' 86.'*_;6// ' *? 2*2,' 1-' /*6-2 25' =*, ' 9218/*05*' 1 ',)*' >-=,;-*.' 620' [*6/ 1-' -* 1-?6, 12% 622*.' ?1.,' ?=1-,62,' /6D1-') .' .*/*>, 12' 1 ' ?6-5 26/ -* *-*2>*.',1',)*' D/% : *' 86.',)*' 6;.,)1-' 1 ' " '.*,.' 1 '21,*.' 8) >)' 6>>= 2C =62 *0',)-**' *0 , 12.' 1 ',)*' D/*% : .' 5-*6,' 6?D^ , 12' 86.' ,1' ?69*',)*' D/*' ,.' 182' 2,*-=-*,*-%J ' ' + ?* ' 6 "' ; % :' B6? *.12' % ' ' ; =' %" ' T *6/' # ' '" ' 2

62 2*)' M:*D%) "(1')K7' 12*' >10*L' ;// ' *=,% d>,-26' % -% d6A706+ ;/5%' " E 01;D,/*..' 6' >12,-6>,*0' 1-?' M [*9' LL+ ' KNX' 1-',)*' *6-/ *-' ' ' M_% +%X' 1 ' 4*2% L ' %

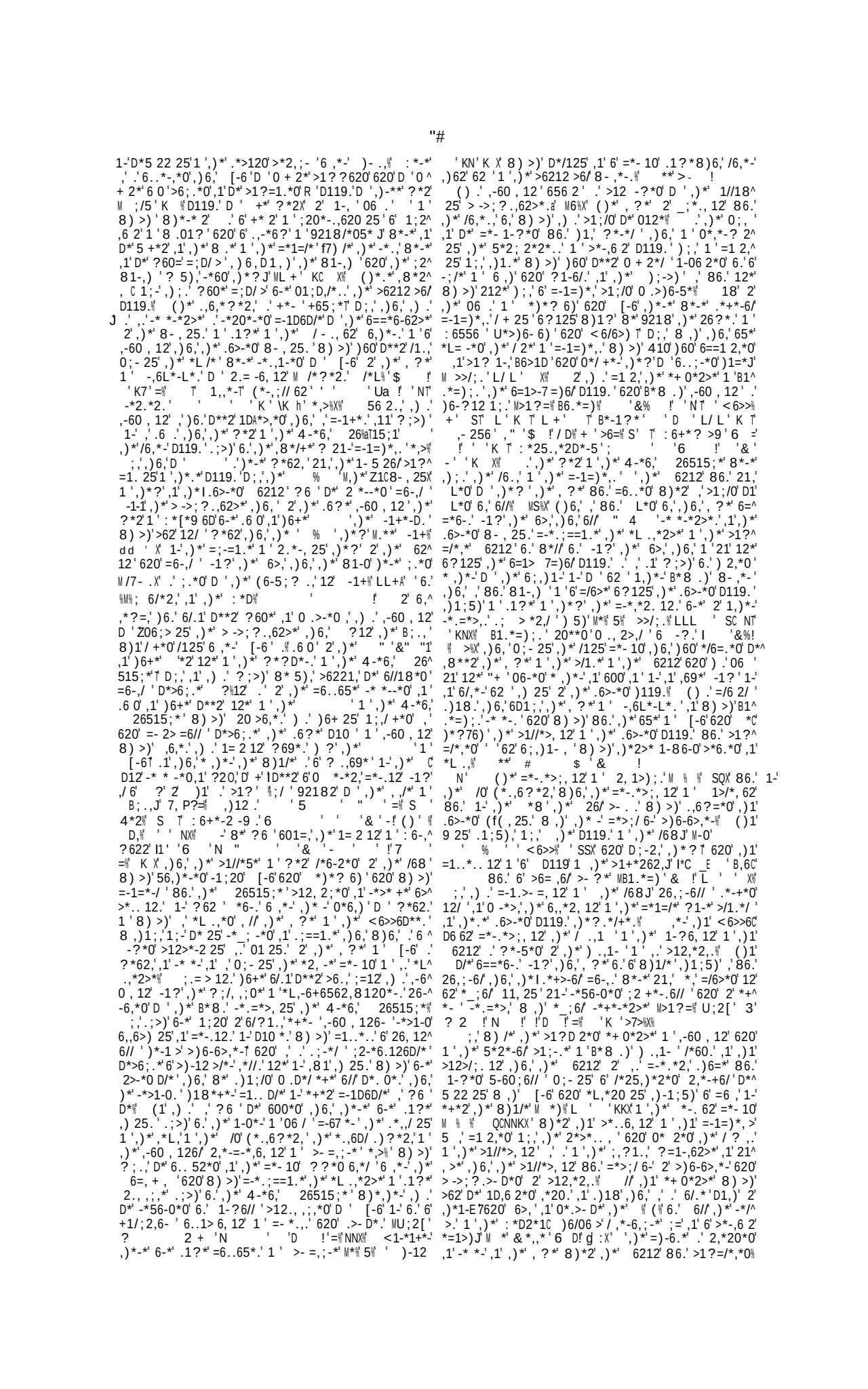
62212' (' %' % %' 62' *? 2*2,' ? 2.,*-' 1 ' ,)*' *1-?*0' ;,>)');->)' 86.' D1-2' 2' ;-6H16' B62% KQ S' 620' 86.' *0;>6,*0' ;20*-' -' *,*-' & /^ .12' 620' *+% /*L% < //*-' 6,' :6>9*2.6>9' % B' : *' 86.' / >*2.*0' ,1' =-*6>)' 2' RS' D ',)*' /6.. .' 1 ' :6>9*2.6>9' 620' .)1-,/ ' 6 ,*-' D*>6?*' =6.,1-' 1 ',)*' * 1-?*0' ;,>)');->)' 1 ' < //.,12*' 620' L? /*' ;2 ' 26// ' 0*+1, 25') .' 8)1/*' .*-+ >*',1' ,)*' /6,,*-' >);->)% : .' =6.,1-6/ 20;.,- ' 86.' -*?6-96D/*' *,')*' 8-1,*' 620' >1?? ,,*0',1' ?*?1- ' 6//) .' .*-?12.% ;- 25' =6-,'1 ') .' =6.,1-6/ 81-9')*')60',1' =-*6>)' 12*' .*-?12' 2' ;,>)' 620' 12*' 2' 25/.)' *+*- ' ;206 % 2' QKS')*' 86.' >)1.*2' -1 *..1-' 1 ' 6.,1-6/ ()*1/15 ' 620' >>/*. 6.,>6/' : .,1- ' 2',)*' *? 26- ' 6,' *8' -;2.8 >9' 620')*-*')*' .=*2,',)*' -*?6 20*-' 1 '/ .' / *' 6'/6D1- 1;.' .,;0*2,' 620' 6' 6 ,) ;/' 620' .;>>*.. ;/' ,*6>)*-% ' : .'+ *8.' 1',-;,)' 8*-*' ?1-*' 0 .,25;.)*0' ID' >L6 7,2*..' 620' .1/ 0 , ',)62' D ' 62 ' 6-C-*6>) 25' =18*-T 620' *,' 8)*2',)*')60' 0 .>;..*0' 6' .;D4*>,' ,)*-*' 86.' / ,,/*' /* ,',1' D*' .6 0%J' ' /6-5*' 2;?D*-' 1 ' ? 2 .,*-.' 8*-*' ,-6 2*0' D ' -% 62212% : *' 0 *0' 2' 5-*6,'=*6>*' B;/ ' K Q K% ,*-') .' 0*6,)',)*' .;DC' ..6 >*' 1 'D .' >1;-.*' D 2.,-;>, 12' 86.' =;D/.)*0';20*-' ,)*',,/*' ' '-" 'M *8' 1-9' Q N' Q+1X% ()*' .;D4*>,.' *?D-6>*0' 2',)*' /*>,;-*.' 6->8' `()*' _;6/ >6, 12.' 1-',)*' =6.,1-6/ 1 >* I' I=6.,1-6/ 0;,*.' 7,)*' 60? 2.,-6, 12' 1',)*' .6>-6?*2,.. I' 7>6,^ *>)*, >6/ 2.,-;>, 12 I' `+ .,6, 12' 1',)*' . >9 I' `=6.^ ,1-6/ + .,6, 12 ' `-*/ 5 1;.' 0*>/*2. 12 ' `*L,*2. 12' 1 ',)*' );->) I' ` 2.,-;>, 12' D ' *L6?=/*% -% M 62212 .' 0 .>;.. 12' 1 ',)*' .6>-6?*2,.' .' =6-, >;/6-/ ' 6D/*' >/*6-' 620' >12>/;.. +*%J ' 7 ';' +' 5 ' <6EW' Q ' =% T ; " '$ ' =- / ' Q '=% K %

621,' <+' / $ ' 6.',)*' =)-6.*' .' ;.;6// ' *?=/1 *0' ?6 ')*' 0* 2*0' 6.' ,)*' ;,)1-,6, +*' ,6206-0' 1 ' */ - 12' 620' <1-6/.' >1?=1.*0' 1 ',)1.*' 8-, 25.' 8) >)')6+*' D*** 2' 5 +*2' 1-',) .' =;-=1.*' D ' 410',1' ?*2%J' ' 0* 2 ,12' -*_;*2,/ ' 5 +*2' 1 ',)*' 6212' .' ,)6,' ' .' ,)*' 6,6/15;*' 1 ',)*' 6>-*0' 119.TJ' 8) /*' *?/*-' IN ' @ ' 2 " ' ' 8' 1*0*-/* 2' I ' -" ' " ' ' QNX' 620' 1,)*-.' 0* 2*' ,'6.' ,)*' .,' 1 ',)*' 119.' =;D/ >^ / '-*60' 2',)*' ?**.25.' 1',)*' *6-/ ')- ., 62HTJ' D1,)' ,)1.*')18*+*-'6-*0* *>, +*' 620',)*' /6,,*-' .' 21,'12/') .,1- >6// ' 2>1--*>,' D;,' 1?.,' .',)*' *..*2, 6/ 0*6' 1 ',)*' 0 + 2*' 6;,)1- ,' 1 ',)*.*' >- =,;-*.% ()*' 6>>1;2,' 8) 19' 8*')*-*' 5 +*' .' >) * / ' >1?=/*0' -1?',)*' 6-,^ >/*.' 12',)*' .;A*>,' 2' ,,1 .' % ' 620' ? ,) .' ' ' ' ' " ' ' ' ' ' ' ' 6212%J ' 7% 2' 9 % , ' ' ' ' " ' ' ' 4-**9',)*' 81-0' M 6+1-=' 69 2',1' 6' -**0 J \>1?=% 4*.*2% -" ' .' +%') *') ' ' \>62-C' ' " f ' 8.52 *.' M X -1=*-/ ' 6' " ' ' 6.',)*' -10' 1' 6' .) */0' 1-',)6,' ;.*0' 2' 8*6+ 25' I 81' 1-' 6' >6-=*2,*-.'-;/*' MKX' <*,^ 6=)1- >6// '6' ' 2'*,) >.' M>1?=% -.,1,% 6 + ' 7 ' ' ' X' 1-' 2' 6-,' M,)*' '1' 1/ >/*,;.' ;>% ' $ 0=% R S' X' 1-' 2' /625;65*' M,)*' ' 1

4-6? ?6-X' ()*' 5 ,' 1 ' ,125 ; *.' M >,.' ' X' 86.' -*^
56-0*0' 6.' ,)*' >6212J' 1-' ,*.,' 8) >)' 0*,*-? 2*0' ,)*'
0 -*>, 12' 1 ',) *'/6D1-.' 1 ',)*' .*+*-6/ 6=1.,/*.'M *+*- 62
6= -6? !' =' & !' ' X)-121/15 >6/ ,6D/*.'
8*-*' >6//*0' >6212.' 1 ', ? *J' M / ; , ' $ ' K XT' 620' ,)*'
.; ? ?6- ' 1 ' 6' D119' 86.' >6//*0') 8 1' 6.' 5 + 25' ,)*'
 -; /* J' 6.' , ' 8 *-*' 1 ' ,.' >1?=1. , 12 ()*' /*L62^
0- 2*' 5-6 ? ?6- 62.' 6==/ *0' ,)*' 81-0' 2' ,) .' .*2.*' ,1'
,)*' 5-*6,' >/6.. >6/J' 8- ,*-.' 8)1' 8*-*' ., /*0I ,)*'
-; /*J' I%' 6+ ;+X' 1-' ,)*' =*- *>,' ?10*/ 1 ' ., /*' 620'
/625 ; 65* MNX' ; , ' 2' 600 , 12' ,1' ,)*. *' 6>, +*' ?*62^
 25. ' ,)*' 8 1-0' 86.' 6/.1' ; .*0' =6.. +*/ ' 1-' 6' ?*6. ; -*0'
.=6>*' M6,' / ?= 6X' 620 ' 2' /6,*-' , ?*. ' 1-'6') L*0' ,6L'
M ;' 625*' .' +%X%
  K 2' ' ; .65*' ,)*' 81-0' 1>>; -.' 2' ,)*1//*>, 12' 1 ' .6>-*0' ,*>) 25' MLLL + ' S' \8)*-*' ,' .'
 =, ' 2' ,.' / ,-6/ .*2.*' MB ; O' L ' SX' 620' 656 2' 2'
 _ ; /6' MB1D' LLL+ ' X 2' ,)*' (,' .' 1 ; 20' 2'
,81' =/6>*.' 2' 6 ; / .' *= ../*.' M46/ + ' ST' K' 1- L
 NC SX' 620' 2',)*' .*>120' =/6>*' ,)*' ,-62. , 12' -1?' 62'
6>, +*' ,1' 6' =6.. +*' .*2.*' .' 81-,) ' 1 ' 21, >* 2' =6^
,- ., >' 8- , 25.' ,)*' 81-0' .' >1? ?12/ ' ; .*0' D1,)' 6.' 6'
-; /*' 2' ,)*' 8 0*.,' .*2.*' 620' *.=*> 6// ' 2' ,)*' =)-6.*.'
 ,)*' -; /*' 1 ',)*') ; ->) J' ,)*' -; /*' 1 ' 6 ,) J' ,)*'
-; /*' 1 ',-; ,) %J' 2' ,)*' 1 ; -,)' >*2, ; - 8)*2' ,)*' =-6>^
, >*' 1 ',)*') ; ->)' 86.' 6-,)*-' . ..*?6, [*0' ,)*' 0*> ^
. 12.' 1 ' . 210.' 8*-*' ., /*0' 6212. J' 620' ,)*' 0 .^
> =/ 2*' D ' 8) >)' ? 2 .,*-.' 8*-*' D1 ; 20' 86.' ,*>)2 >6// '
 ,)*' ; /* J' 620' ,)1.*' 8)1' 8*-*' ,) ; .' D1 ; 20' 8*-*'
., /*0' ' M 6212. J X 2' ,)*' =)-6.*' ,)*'
>6212' M %' * L*0' =6-,X' 1 ',)*' ?6.. J' -1?' 8) >)' ,)*'
=1=; /6-' .*2.*' 1 ' >6212 [*J' .' 0*- +*0' ,)*' =6.. +*'
.*2.*' 656 2' =-*+6 /*0 M 7*' D*/18 X
 Q .' 6==/ *0' ,1' $ % ' ,) 1' 0*- +6, +*.' 1 ') * '
6-*' ; .*0' /125' D* 1-*' ,)1' . ?=/*' 81-0 ()*' 6, 2'
,-62. /6, 12' 1 ' - 5*2' .=*69.' 1 ' $ % ' '
I ' !' + ' NNX' ' 'IIILU !' ' !' g X'
620' ' /(' M O' g' KQX 2' 621,) *-' =/6>*' ,)*'
=)-6.*' " " ' ' ' > !' ' !' %. %X' 1>>; -.'
D ; ' =-1D6D/ ' 12/ ' 6.' 6' ,-62. /6, 12' 1 ') % 2 , *'
8) >)' .' ; .*0' 2' ,) .' 620' >1526, *' .*2.*.' 2' ,)626. ; .'
M A= @ !8' ,)*' 610 >*2*' 6212.' I) ' 62
: LX' 620' /6, *-' 8- ,*-.' M . O */ ; .' @%!' >L +T' >12' =
 ; 5 !' " !' + ' R' \ShT' 620' 6.' 6' >12, -6. , ' & !'
6= ; .*D' VV' 6!' + ' KQX
  ()*' -.,' 0 -*>,' 6==/ >6, D2' 1 ',)*' ,*-?') %, 1',)*'
 >- =, ; -*.' .**?.' ,1' D*' D ' ?=) /1>) ; .' M> -' QQ X' 2'
) .' 6,6/15 ; *' 1 ',)*' >- =, ; -*. ' W+)*-*' ,)*' 81-0' 20 ^
>6,*.' ,)*' -; /*' D '8) >)' ,)*' >12, *2, .' 1 ',)*' D/*' ? ; .,'
D*' 0*, *-? 2*0' 620' ,) ; .' .*>1206- / ' 62' 20*L' 1 ',)*'
>12. , ; *2, ' D119.' ?125' 6, 2' 8 -, *-.' ,)*' 81-0' .'
>1? 12/ ' 1 ; 20' -1?' ,)*' , ?*' 1 B*-1?*' I1 !' ? !8'
620' ; 5 ; ., 2*' M *' ' L+ ' K T' L+ ' QQX' 620' ,)* -'
; .65*' 1 ',)*' 81-0' 8) >)' .' 8 0*-' ,) 62' ,) 6, ' 1 ' 4 -**9'
8 -, *-.' .' ,)*' .1 ; ->*' 1 ' ,.' ?10*?' 6>>*=, 6, 12%
  ()*' ; 2>6212 >6/ DD19.' 8*-*' 0*.>- D*0' . ?=/ ' 6.'
 ,)1.*' 8 ,)1 ; , J' 1-' ,)1.*' ; 2>6212 [*0J' I) =
  ' ' f / LX ()*' 6=1>- =)6/ D119.' 8) >)'
8*-*' .; ==1.*0' ,1' 1>>; = ' 62' 2, *-? *0 6, *' =1. , 12'
8*-*' >6//*0' D119.' -*60J' I) ' ,D62
a% ' @ ! E' 1-' *>>/*. 6. , >6/J' I ' ; 2
$ '&% ' g NQX' ,)1 ; 5)' ,)*' /6, , *-' , /*' 86.' 6/.1' 6=^
=/ *0' ,1' ,)*' >6212 >6/ >- =, ; -*. ' 8) >)' M *12, '$!
 X 8*-*' 6/.1' >6//*0')119.' 1 ' ,)*' (*. , 6 ? *2, J' I " =' , *-? 26, 12' 1 ' ,)*' 0 + 2*' -; /*' 1 ' , -; ,) ' ,) 1 ; 5) ' ; .' 2'
g 8) ' VN \N ,6X' 620' B*-1 ? *' ., /*0' ,)*' 8) 1/*' >1//*>, 12'
D ' ,)*' .,- 9 25' 26 ? *' 1 ' ,)*') 1/ ' / D-6- J' I ; " 1'
" ' E' 8) >)') 6== / ' *L=-*. .*. ' ,)*' ; 2 , ' 620'
+6- *, ' 1 ',)*' D/*' M -*02*-.' ' ? "!' !') ' g T'
& *. , >1, , ' # ' ' ' '7 ! ' -!' == X%
%' -"' ! ' "' ! ' % >>1-0 25' ,1' ,)*' >12*%*0' 8 ,)' 5-*6, *-' ? 2 ; , *2*. . ' 2' ,)1' 6/ 012 62'
?620' 1 ' <1. *. ' ,)*' ' D119' 1 ' ,)*' /68 J' 86.' =; ' , 2'
,)*' . 0*' 1 ' ,)*' 6-9 J' M *; , %LLL ' K ' . *_ %X' D ; , ' 21, ' ' , '
M ' 25. ' + ' R ' : >1?=%B1. *=) %& ! ' T' + ' T' + ' UC
620' ,) ; . ' 2' ,)*' -* 52' 1 'B1. 6) ' : /9 6)' . ' .6 0' , 1') 6+*'
 ' 1 ; 20' ,)*' D119' 1 ' ,)*' /68' 2' ,)*') 1 ; . *' 1 ' ,)*' 1-0J'
MK' 25.' LL ' QT' >1?=% K') -12% LLL + ' X% () .'
 D119' 1 ' ,)*' /68 J' 8) >)' 2' 600 , 12' ,1' ,)*' 0 -*>,
=-*>*=, .' M L10' LL + ' X' >12, 6 2*0' 5*2*-6/ *L) 1-, 6^
, 12.' M *; , %LL+ ' S X' 620') .,1- >6/' 26--6, +*.' M L10%
L+ ' X' 86.' 6-,)*-' 2>-*6.*0' D ' ,)*' -*>1-0.' 1 '
B1.) ; 6' MB1.) ' LL + ' KSX' 620' 1,) *-' 8 - , 25.' M ' 6?%
d ' K X -1?' ,)*. *' .6>-*0/ ' 5 ; 6-0*0' 6 ; , 15-6=) .'
>1= *.' 8*-*' , 69*2' 620' > -> ; /6, *0' 6? 125' ,)*' =*1=/*' MK'
)-12' L+ ' RX ' , 6' . ; D. *_ ; *2, , ?*' >1//*>, 12.' 1 '
=-1+*-D.' 8*-*' ?60*' M -1+%LL+ ' X' 620' ,)*' /6, *-'
=-1=)*, .' M*.=*> 6// ' B*-*? 6) T' >1?=% ; *=*-' D '
 !' ' %!' ' - 2 =6H' *-1/% QN X' 8*-*' 6? / 6-'
8 ,)' ,)*' 8 - , 25.' 1 ' ,)*' -' =-*0*>*. . 1-. ' 6' > ->; ? . , 62>*'
8) >)' ?6 ' 26, ; -6// ' D*' >122*>, *0' 8 - ,)' ,)*' , -6 2 25'
1 ' ,)*' =-1=)*, >' .>) 11/. %J' ' =*-) 6=. ' ?6-9. ' 6' 6-^
,)*-' .,*=' 2' ,)*' 1-?6, 12' 1 ' ,)*' 6212' 8) *2' ,)*'
D119' 1 ' ,) *% 1-0J' .' ?*2, 12*0' D ' .6 6) %6. ' 6' 5*2*-6/
J*1//*>, 12' 1 ' .6>-*0' , *>) 25' MLLL + ' S' \8) *-*' ,' .'
 ?=/ *0' ,) 6, ') .' 182' 8 - , 25.' 8*-*' , 1' D*' 600*0' , 1'
,)1.*' =-*+ 1 ; ./ ' -*56-0*0' 6.' .6>-*0T' .**' 4*.*2 ; . '
 ' 2' /1>%hT' >1?=' LL L ' QX' 6, ' 12>*' 6? / 6-'
620' 6 ; ,)1 - ,6, +*T' D ; , ' .' ; 2/ 9*/ ' ,)6, ' 62 '0* 2 ,*'
>1//*>, 12' * ,)*-' 1 ' ' ,)*' .6/? . J' 1-' 1 ' ' ,)*' -1=)*, .J'
*L .,*0' D* 1-*' ,)*' 6=, + , %' , ' ,)6, ' , ?*' U*>)6- 6)'
.=*69.' 1 ' ' ,)*' /68 J' 620' ,)*' 1-?*-' =-1=)*, .J' 6.' 2'
.1?*' ?*6. ; -*' >1C1-0 26, *' MU*>)%+ ' KXT' 620' 62 */
-* *-.' , 1' <* + ((M 62% L ' KX' 2' 6' ?622*-' 8) >)'
.** ?.' , 1' ?6-9' ,)*' =-1=)*, >' 8 - , 25.' 6.' 6/-*60 ' >1/^
/*>, *0' 2, 1' 6' 8) 1/*) 1-, / ' 6 , *-' ,)*' -*, ; -2' -1?'
 6D /12' ,) 1' *+ , *.' -*60' 620' *L=1 ; 20*0' ,) *' 81-0'
,)*' 1-0' , 1' ,)*' =*1=/*' M *) %+ ' CQT' L ' CNX%
  K ' 1=; /6-' D*/ * ' 6.. 52*0' , 1' [-6' 620' ' ,)*' 5-*6, '
. ?6515 ; *J' ,)*' , 6.9' 1 ' >1//*>, 25' 620' =-1?; /56, 25'
,)*' >- =, ; -*.' 6.' =6-, ' 1 ' ,)*' -' 81-9' 2' 1-562 [25' ,)*'
B*8 .)') ; ->) % 1 ; D, .') 6+*' D**2' ,)-182 ; =12' ,) .'
D*/ * ' M 6 ; ' ' ' $!' 1' KST' >1?=% 86/0 '
? "!' !' N!' D W' + ' R ' \.*' D*/18 h' XT' D ; , ' ,)*' .,6, *^
?*2.' .' 2' *+*- ' 86 ' >12. .,*2' 8 ,)' ,)*') .771-4' 1 '
B ; 06 . ? ' 620' 8 ,)' ,)*' 2, *-26/ *+ 0*2>*' 1 ' ,)*' D119.'
,)*? .*/+*. % ()*' /6, *-' *? D*// .)?*2, 7' 1 ' ,)*' , -60 ^
, 12' 8) >)' -*=-*. *2, ' [-6' 6.' ,)*' .*>120' 6 ; ,) 1-' 1 '6//
,)*' D119.' MK' .0-6. X' 1-' 0* 2*' ?1-*' *L6>, ' 1 ' ,)*' 26^
, ; -*' 1 ') .' 81-9' >62' 12/ ' D*' 6>>*=, *0' 6.' . 52.' 1 ' ,)1'
; 2 +*-. 6/ D*/ * ' 2') .' /6D1-. ' 620' 1 ; 5) , ' 21, ' , 1' >6. '
0 .>-*0 , ' ; =12' ,)*' . ?=/*' 6>, ' ,)6, ' ,)*' 1 ; 206, 12' 1 '
,)*' =-*. *2, ' 6212' .' 0 ; *' , 1') ?% 1-' >62' , ' D*' . ; =^
=1. *0' , A2, ' ,)*' 81-9' 86.' >1?=/*, *7' 6, ' 12>*' T .1' ,)6, '
,)*' 6>>1 ; 2, ' MK' <6>>% ' NX' 8/ Z,)' 6.. 52.' 6' >1//*>, 12'
1 ' D119.' , 1' >)*? 6)' . ' 2' , .*/ ' 6' >12 -2/9, 12' 1 ' ,)*'
5*2*-6/ , -; ,)' 1 ' ,)*' 5-60 ; 6/ 1-? 6, 12' 1 ' ,)*' 6212'
0 ; - 25',)*' *-. 62' =*- 10%' ()*' 81-9' 1 ' *)*? 6)' .'
21, ' 0*.>- D*0' 6.' 2 , 6, 1- ' 1-' 26/% ()*' , -60 , 12'
1? , .' 6// ?*2, 12' 1 ' ,)*' /68 ' 8) >)' ?6 ' D*' . ; ==1.*0'
, 1') 6+*' 6. . ; ?*0' , .' 26/ .) 6=*' ; 20*-' [-6 ' D ; ' .6 I.'
,)6, ' *)*? 6)' 56,) *-*0' , 15*,) *-' . ,)*' \8 - , 25. h'
>12>*-2 25' ,)*' 9 25.' 620' =-1=)*, . ' 620' ,)*' \8 - , 25. h'
1 ' 6+ 0 ' 620' /*, , *-.' 1 ' 9 25.' >12>*-2 25' 1 *- 25. J'
8) /*' 1 ; 20 25' 6' / D-6- J' MK' <6>>% %>%X% ()*' +6^
- 1 ; .' >/6. . *.' 1 ' D119.' 8*-*' ,) ; .' >1?=/*, *0' 2' . ; >>*.^
. 12' T' 620' ,) .' + *8') 6-? 12 [*.' 8 ,)' 8) 6, ' ? ; . , ') 6+*'
D**2' ,)*' 26, , -6/ 0*+*/1=? *2, ' 1 ' ,)*' B*8 .)' 6 ,)' 6 , *-'
,)*' *, ; -2% ()*' >12. , ; , 12' 1 ' ,)*') ; ->)' 620' ,)*'
 1-?6, 12' 1 ' ,)*' 6212' 8*-*' D1,)' -1?' ,)* -' 26, ; -*'
5-60 ; 6/ 620' ? ; , ; 6// 70*=*20*2, % ()*' >12. -; >, 12'
1 ' 62' *>>/*. 6. , >6/* =1/ , ' 2+1/+*0' ,)*' =-6>, >6/ 0*^
=' , *-? 26, 12' 1 ' ,)*' 0 + 2*' -; /*' 1 ' , -; ,) ' ,) 1 ; 5) ' ; .' 2'
,)*' =6-6/*/ >6. *' 1 ' ,)*') - . , 62' >- =; , -*.' 1=*2' =*.^
. *>; , 12' -. , ' 56+*' 6' >/*6-' 620' 0 . , 2>, ' *L=-*. . 12' , 1'
,)*' ?=/ > , ' 6 ,) %

  ()*' 1-*51 25', -60 , 12' 1 >>; -.' 2' 12*' 1 ' ,)*' 1/0*. ,'
D119.' 1 ' ,)*' (6/? ; 0' ,)*' " ' & *=' 620' , ' .' -*'
D119.' 1 ' ,)*' 6-9' ? 2' , *2*. . ' 2' ,)1' 6/ 012 62'
4*?6-6' I ; ' ; " 1' 1/% N' K% **' ,)*' =6. . 65*.' 2'
 ; L, 1- .' - ' / D% ' >% T' >1?=%& 6>) 2*- ' & 4!'
!' ' NX% ()*' . ; D. , 62>*' 1 ' ,)6, ' 6 ' <1. -,)'
620' ,) *' /0*-. ' ,)*' .6>-*0' D119.' 8 8*' 86, >) *0' 1+*-' D '
,)*' =-1=)*, . ' 620' ,) 6, ' ,)*' 6212' 86.' >1?=/*, *0' D '
 [-6 ' *)*? 6) ' 620' ,) *' ?*2' 1 ' ,)*' 4 -*6,' 26515 ; *%
( )*' *6-/ *. ,' 1-?' 2' 8) >)' ,) 2*' ,)*' 1 ; -,)'
D119' 1 ' .0-6. ' 6' 81-9' 06, 25' -1?' ,)*' *20' 1 ' ,)*' -.,

"#



( )*' *= /15 ; *' 1 ' >>/*. 6.,*.' ML ' ' ._%' .=*69.' 1 '62' *L,*2. +*' / ,*-6, ; -*' 8 ,)' 8) >)' ,)*' ,*6>) 25' 1 ' & .^ 01?' .' >12,-6.,*0 ' 620' ' 8*6- 2*..' 1 ',)*' /*.) J' .' 0*^ .>- D*0' 6.' ,)*' -*. ; /,' 1 ',)*' ..; 0 ' D*.,18*0' ;=12' ,%' ,' .' ?=1.. D/*' ,)6,',)*. *' ?62 ' 8- , 25. J' >62')6+*' =*- .)*0' 2' ,)*' 2,*-+6/ D*, 8**2' ,)*' >1?=1. , 12' 1 ' >>/*. 6.,*.' 620',)*' 4-**9' 2+6. 12 ' 620',)*' =1*-A7C =)6' 2>/ ; 0*.' .*+*-6/ -65 ? *2, ' 8) >)' ? ; . ,' D*' -* *--*0' ,1',)*' *-. 62'=*- 10'M ; L,1- ' S*-,>8' >% ' . ,%T : 1,C , 25* 7' " ' : *25.,*2D*-5 ' ; ' T : 6+*-C' 2 >9 ' 6 ' T *)/*-' 6-,%') ' 0' & ' -0' 2' : *-[15 . 6 + %(8!

b' ()*' 0 + . 12' 1 ',)*' %C(% 6212' 2,1',)-**'=6-,%' ,)*' 68 J' ,)*' -1=)*,. J' 620' ,)*' & - , 25. I .' +*- ' 62> *2,T' ,' 6=^ =*6-.' 2' ,)*' =-1/15 ; *' ,1' >>/*. 6., > ; . ' 2' ,)*' *8' (*. ,6? *2, ' 2') /1 ' 2' B1. *=) ; . ' 620' 2' ,)*' (6/? ; 0' M ; -*2) ; . ' ,VN% 6-6d d%=% RX% *. =*>, 25' E % 9 % ' 12' 8) >)' ,)*' 0 + . 12')6.' D**2' ?60*' ,)*-*' .' >12. 0*-6D/*' 0 *-*2>*' 1 ' 1= 2 12% //' 6-*' 65-**0' ,)6,',)*' -.,'=6-,',)*' 68 ' 8) >)' *?D-6>*.',)*' *2^ ,6,*;>)' 86.' .1' 26?*0' -1?',.' >12,6 2 25',)*' 26, 126/ /68 .' 620' -*5 ; /6, 12.% ()*' ' *?D-6>*.',)*' -*.,' 1 ',)*') .,1- >6/' D119.' 8 ,)' ,)*' *L>*=, 12' 1 ' ;,) ' .,)*' [-6 ' *)*? 6)' 620',)*')-12 >/*.' 620',)*' 8 - , 25.' 1 ',)*' =-1=)*,.' *L>*=,' 62 *' 620' 6? *2,6 , 12.% ,' .'=-1D6D/*',)6A,' ,'-*>* +*0' ,.' 26?*' % % 1',)*' ?6A1- , ' 1 ',)*' D119.' ,'>12,6 2.' D* 25',)*' =-10 ; >, 12' 1 ' ?*2' 8)1' 8*-*' % ' =-1=)*,.' ()6),.' >-,*- 12 ')18*+*-' ' ,)*' 1? . 12' 1-' 2.*-, 12' 1 '6' D119' 2' ,) .' .*>120' 0 + . 12 ' 6.' 6.^ .*-,*0' D ' : *256,*2D*-5' I1& " 0' ' ' =' K X ' 620' D ' : 6+*-2 >9' ' '.*>% X' >6221,' D*' 60? ,^ ,*0'T 1-' 12',)*' 12*')620 ' 81' 20' 2.*-,*0' 2',) .' 0 ^ + . 12',)*' D119' 1 ' ?1. ' 8)1' 86.' 2*,)*-' 6' =-1=)*,' 21-' 6' =-1=)*,.' . 1 2 6 2 0 ' 12',)*' 1,)*-' ,)*-*' .' 1? ,^ ,*0' -1?' ,' ,)*' 119' 1 ' 6? *2,6, 12. ' 8) >)' 86.' ; 2^ _ ;*., 126D/ ',)*' =-10 ; >, 12' 1 '6' =-1=)*,% ()*' 2.*-^ , 12' 1 ',) .' D119' 2' ,)*' /6.,' -6,)*-' ,)62I' 2' ,)*' .*>120' 0 + . 12')6.' ,.' .1 ; ->*' =-1D6D/ ' 2' .1?*' / ,; -5 >6/ -*6.12 ' 2' 1-0*-' ,)6,' ,' ? 5),'.,620' D*. 0*',)*' ./6/?.' 620' 1,)*-' A7- '=1*,- '1 ',)*' .6>-*0' D119.% ' ,' ?1-*' 0 >;/,' ,1' 6>>1;2,' 1-' ,)*' 2.*-, 12' 1 ',)*' D119' 1 ' 62 7' 2',)*',) -0' -6,)*-',)62' 2',)*' .*>120' 0 + . 12' 620' ? ;>)' .,-*..')6.' D**2' /6 0' 12',) .' > ->; ? .,62>*' 6.' 6 1-0 25' *+ 0*2>*' ; 2 6+1-6D/*' ,1' ,)*' >6212 >6/ >/6 ?.' 1 ',) .' D119% ;,' ,' .' 21,' >*-,6 2' ,)6,',) .' D119' ' 1>>;= *0' ,.' =-*. *2,' =1. , 12% .' ,' 21,' =1.. D/*' ,)6,' 1-' .1?*' -*6.1-'1 '6' ? ., >6/' 1-' >12,-1^ +*-. 6/ 9 20',1' D1,)' 1 ' 8) >)' .1 ; ->*.' 1 ' 2 /; *2>*' ,)*' B*8 .' 0 ; - 25',)*' *6-/ ' 65*.' 1 ')- . , 62 , ' 8*-*' ? ; >)' *L=1.*0',)*' ' ?6 ')6+*' 6/,*-*0',)*' =1. , 12' 1 ' 62 */ -1?',)*' .*>120',1',)*' ,) -0' 0 + . 12' H &)6,'-*20*-.' ,) .' -1D6D/*' . ',)6,',)*' (6/? ; 0 ,,' .,620' 6/12' 2' ,) .' 6--625*?*2,% B1.*=) ; . ' -6> 0>. ') /1 ' ,)*' *8' (*. ,6? *2, ' 6// -* *-' ,1',)*' : 65 15-6=)6' 2' .; >)' 6' 86 ' 6.' ,1' 20 ; >*' ,)*' D*/ * ' ,)6,' ,I>1?=- .*0' 12/ ' " % *=1-, 12.' 1 ',)*' /0' (*. ,6?*2, ' ,)*'=.6/?.') ?2.' 620' .125.' 8) /*' 2' 6//',)*' >6,6/15 ; *.' 1 ',)*' /0C(*. ,6?*2,' 8 -,*-.' 5 +*2' ' ',)*' *6-/ ' 6,)*-.' ; =' ,1',)*' , ?*' 1 ' B*-1?*' 62 */ .' -629*0' 6?125',)*' =-1=)*,.' 5*2*-6// ' 2',)*' LP. , 12')*' 1>>; = *.' 2' 1 ; -' >1? 712' +*-. 12% 2',)*' +*-. 12' 1 ',)*' *=,% ' 6/.1 ')*' .' -629*0' 8 ,)',)*' =-1=)*,.' 2*L,' ,1' [*9 */% 1-' 01*.' B*-1?*' 65-**' 8 ,)',)*' (6/?; 0' 2' 6//' -*.=*>,.' 21-' 01*.' 12*' >/6..' 1 ' B>7+ .)' -6DD .' 65-**' 8 ,)' 62^ 1,)*-' 2' ,)*' 6--625*?*2,' 1 ',)*' .6>-*0' D119.% // ,) .' .)18.' ,)6,' 21' .; >)' L*0' 620' ; 26/,*-6D/*' 6-^ -625*?*2,' 1 ',)*' .6>-*0' D119.' 6.' ,)6,' 8) >)' .' >1?^ ?12/ ' 6..; ?*0' *L .,*0' 62,*- 1-' ,1' ,)*' ,)' >*2,; - ' 1 ',)*')- ., 62' 6*-6' 620' =-1+*.' +*-A' 0 .,>,/ ' ,)6,' ,)*' =/6>*' ,)*2' 6.. 52*0',1' 62 */ D ',)*' (6/?; 0 .,6' 86.' ',)*' =/6>*' ,)*')60' 0 ; - 25',)*' =-*>*0 25'=*- 10' 1-' 1- 5 26// ' 1>>; = *0% **' . !' 8 ' ! ' -*.=*>,.' ,)*' 26?*' 5 +*2',1',)*' " '0 + . 12',)*' ?1.,' =-1D6D/*' 6>>1;2,' 1 ' ,' . ' ,)6,' 6,' -.,' ,' 86.' ;//*- ' + [%' ,)*' " ' 8 - , 25. I ' 6.' 0 ., 25; .)*0' -1?',)*' 68' 620',)*' -1=)*,.' M>1?=' ,)*' *L=-*.. 12' -0' 0dd6 I$ I$E ' ;.*0' D ',)*' 12' 1 ' -6>) ' 6 ! -1/%X' 620',)6,' 2' =-1>*..' 1 ', ?*' ,' 86.' 6DD-*+ 6,*0' 2,1' ,)*' 8 - , 25.%J' () .' =6-,' .' >1? ?12/ ' > ,*0' ; 20*-',)*' , ,/*' # %" ' M_%' +%X% % ()*' %C(%' 6212' 6.' *.,6D/ .)*0' 2' ,)*' , ?*' 1 ' [-6 ')6.' -*?6 2*0' ; 26/,*-*0' ,1' ,)*' =-*.*2,' 06 % 1?*' 20**0')6+*' .; ==1.*0' ,)6, 'D*>6 ; .*' ,)*' *=, ' +*-. 12' >12,6 2.' .1?*' D119.' 21,' 2' ,)*' : *D-*8' ,)*-*' ? ; .')6+*' D**2' 6' 01 ; D/*' 6212' 6' 6/*., 2 62' 620' 62' 3 5 =, 62' M *?/>-' &%% ' ' 'N!' - ' 9 %' !' g' R' T' 1--10 ' ; " ' ' ? "!' ' D =' ' "!' !' + "!') '=' S C Q T' ;5 ; .,G' 6 !0 !' &! - !' =% RXT' D ; ', . ' 21, 12')6.' D**2' >1?=/*.*^ / ' 0 .=-1+*0' D ' >)D1-2' >6 !' ' KNX' : 6+*-2 >9' >6 !' ' g' SX' 620' 1,)*-.% //' *L,62,' *+ 0*2>*' .' 656 2.,' ,% ()*' 12' 1 ' -6>) ' 620') /1 ' D1,)' /*L^ 620- 62' B*8 . ' ?69*' 21' 6//; . 12' ,1' ,T' 620' B1. *=) ; . ' 8)1' *+ 0*2,/ ' ; H*0' ,)*' 4 -**9' +*-. 12 ' *L=-*../ ' 0*^ >/6-*.' 656 2.,' ,' 2',)*'=6 . 65*'6D1+*'-* *--*0',1' >&%!' QX% ()*' *6-/ *-' 21, >*.' 1 ',)*' 6212' . ?=/ '0*. 526,*' ,' D ',)*' ,)-** 1/0' 0 + . 12' 6/-*60E' >12. 0*-*0% ()*' 12' 1 ' -6>)' ?*2, 12.' ',)*' 68 ',)*' -1=)*,.' 620',)*' 1,)*-' D119.' 1 ',)*' 6,)*-.TJ' 620' 656 2' ,)*' 68 ',)*' =-1=)*> *.' 620',)*' -*.,' 1 ',)*' D119.TJ' *L=-*.. 12.' 8) >)' >/*6-/ ' 20 >6,*',)6,' 2',)*' .' 06 ',)*' 6212' 86.' L*0% 2',)*' *8' (*.,' 1 ;-' 1-0' -* ;*2,/E -* *-.' ,1',)*' /0' (*.,' ;20*-',)*' ,/*' 1 ' ()*' >- =, ; -*. !' 1-' 1 ' ()*' 68 J' M<6,,' LL ' KT' LL ' KRT' B1)2' L' ' *,>%XT' 620' 2' 12*' =/6>*' .*=*69.' 1 ' ,)*' I 8' 1 ' <1.*.',)*' -1=)*,.' 620',)*' .6/?.J' M ;9*' LL + X' T D ',)*' ,) -0' 1 ',)*.*',,/*.' 2,*20 25' 01 ; D,/*.. ' ,1' 0*. 526,*',)*' : 65 15-6=)6' *,)*-' 6 ,*-',)*' B*8 .)' >,.,1?' 1 '0*21, 25' 6' >1//*>, 12' 1 'D119.' D ', 2' ,,/*' 1 ',)6,' 8 ,)' 8)>)' ,' >>? ?*2>*0' 1-' 6.' : 6+*-2 >9' >;55*,,.' ; . 25',)*',*-?' E% E% '6.' 6' 5*2*-6/ 0*. 526^ ,12' 1 ',)*.*' D119.' D*>6 ; .*' 1 ',)*' /6-5*-'>1?=6-6, f*% ?1 ; 2,' 1 '/ - >' =1*,- '>12,6 2*0' 2',)*?'>6 !' g' X% 6 ; /' 6==/*.',1',)*' /0' (*.,' ,)*' 6==*//6, 12.' ,)*' : 1/ ' d -, 25.J' > % 1 ' ' 1?% ' KXT' ,)*' 6^ >-*0' *,,*-.J' M =0' % %% ' K' (A 2% ' SX' 620' `,)*' /0' 1+*262,J' M-X' (?d--?% g 8)*' \' 1-% K X' 1,)' 1 ;-' 1-0' 620') .' 6=1.,/*' 6.>- D*' <+2*' 6 ;^ ,)1-,' ,1' ,)*' 62> *2,' 6212' M<6,,' L+' ' B1)2' L' CKST' K' (?% ' ST' K' *,*-' ' RCKN' ' *$ XT' 620' 2')1' >1 ;-.*' 1 ',)*' *8' (*.,' ;1,6, 12.' 6-*' ?60*' -1?' 6//',)*')119.' 1 ',)*' /0' *L>*=,' ;,)' [-6 ' *)*? 6)' .,)*-' 62, >/*.' 6?*[%,6, 12.' 620' [*9 */' ,)*' 1? .. 12' 1 '8) >)' ?6 ')*' 6>>1;2,*0' 1-' 12',)*' .' ?=/*' =- 2> =/*' ,)6,' ,)*' 8 -,*-.')60' 21' 1>>6. 12',1' ,;1,*' -1?',)*?% 1 2> 0*2>*.' 1 '/625 ; 65*' .)18',)6,',)*' 6=1.,/*.' 8*-*' 6? / 6-' 8',)' .*+*-6/ 1 ',)*' 6=1>- =)6/ D119.' M /**9' 2 ' !' $ ' !'&% ' 2',)*' $ ' !') !' Q N' =%KS ' ._%X' D ; ',)*' 01' 21,' >12,6 2' 12*' 6 ; ,)1- ,6, +*' 1-' 0 -*>,' _ ; 1,6, 12' -1?',)*?' 8) /*' 8 ,)',)*' *L>*=, 12' 1 'B ; 05*.' >>/*.%' 62,%' .,)*-' [-6 '620' *)*? 6)' *+*- '1,)*-')119' 2',)*' : *D-*8' 6212' .' ; .*0' * ,)*-' 1-' //; .,-6, 12' 1-' =-11 %) /1' 6,,*.,.' ,)*' *L .,*2>*' 2') .', ?*' 1 ',)*' 2% ' % %% - 1' 0*.>- D*.',)*?' 6.' >1?=- . 25'/68 ' 1-6>/*.' ;,,*-*0' D ' ,)*' =-1=)*,.') ?2.' 620',)*' 1,)*-' D119.' D ' 8)>)' 9218/*05*' 620' 510/ 2*..' ?6 ' D*' 2>-*6.*0' 620' =*-^ *>,*0' >8 ' N ' % ! 2' L%%!' IK '*0' < 625* XT' 620' _ ; 1,6, 12.' -1?' 1-' -* *-*2>*.',1',)*' ?1.,'1',)1' D119.' 6-*' .>6,,*-*0',)-1 ; 5)') .' 8 - , 25.% ()*' +^ 0*2>*' 1 'B1.*=) ; .' .'+*- ' ?=1-.62,!' 1-' D*. 0*.' 5*FT' *-6/ -* *-*2>*.',1',)*' .6>-*0' D119.')*' 5 +*.' 6' 1-?6/ 6>>1;2,' 1 ',)*' 6212' 6.' ,' 86.' 6>9218/*05*0' 2') .' 06 ' 6.>- D 25' +*' D119.' >12,6 2 25' /68 .' 620' 62' 6>^ >1;2,' 1 ',)*' 1- 5 2' 1 ' ?62',1' <1.*.',) -,**2',1',)*' -1=)*,.' 620' 1;-' >12,6 2 25' .125.' 1 '=6 .*' 1-2' 6 ! 6/ 0*6,)' -1=)*,.' 1-' ?*2',1' 0 *-*2,' 8 -,*-.' 620' 6 -? 25',)6,',)*' 6 ,)' 1 ',)*' B*8 .' 2' ,)*.*' D119.' .' .;>)',)6,' 1-',)*?',)*' 81;/0' .; *-' 6//' ,1-.,;-*.' *20' 0*6,)' ,.*/ '>' !' &%+ !' ' QT' >D)1-2' 6 ! g' S T' B6)2' - ' = ' S X' ()*' =1=;/6-' D*/ *

,)6,' ,)*' 600;>**.'-*>* +*0' 12/ ' ,)*' D119.' 1 ' <1.*.' M(*-,'//*' ' % "'I; ' 'f B*-1?*' ' "'!LL ' N '=' Q 'f - 5*2 ' !' ' ' RX'-*..' 12' 21'.; > *2, 6;,)1- , 'f 620' ',)* ')60' 012*' .1' B1.*=),' >1;/0' 21,')6+*' 6 /*0',1' 21, >*',)*' 6>,' 2') .'6>>1;2,'1 ',)*' 0 *-*2,' .*>,.' **' $ ' 2',)*',-60, 12.' 1 ',)*' (6/?;0 ' 12',)*' 1,)*-')620 46?6/ */ .'-*=-*^ .*2,*0'6.' ;. 25' =6..65*.' -1?',)*' -1=)*,.' 620',)*' : 65 15-6=)6' 2') .' >12,-1+*-. *.' 8 ,)',)*?' 620',)* ' -*=/ ' 8 ,)' _;1,6, 12.' -1?',)*' .6?*' .1;->*.' 8 ,)1;,' .>-;=/*' 1-' 1DA*>, 12' M *' >))1-2' 6 'g Q 'f 5), 11,' '# !' '- ' 'S 4'f >)? 0'6 1' $ '@ 'D %"' ' ' N!' -!' 'f 4;/0*26= */' ' 'D %+' ' $!' ' $ ' "" 1' Q %X' 2',)*' (6/?;0 >' (-6>,' *2, /*0' ; ' " 1'6' >6.0*0' 6212' .' 5 +*2' 8) >)' *L6>,/ ' >1--*.=120.' 8 ,)',)6,' 218' 1;20' 2',)*' : *^ D-*8' D/*' M ;L,1- ' - 1' >' X % ' "' ' ' ' ' ' ' ' ! ' < */ ,1' D .)1=' 1' 6-0 .' 2',)*' .*>120' >*2,;- ' 1 ',)*')- ., 62' e-6'5 +*.' 6.',)*' -*.;/,'1 '>6-* ;/' 2_; -A7' ,)*' .6?*' D119.' 2I,)*' /O0(*.,6?*2,' 6212' 6.' 8*')6+*' 218' 8 ,/Y',)*' *L>*=, 12' 1 ' *)*? 6) ' ..)*-' 620' 6?*2,6, 12.' ,)*' -..',81' 1 ' 8 >)')18*+*-')*' =-1D6D/ ' 2>/;0*0' 2' [-6' 620',)*' /6..' 2' B*-*^ ? 6)' M ;.*D' # ' 6 ' + ' KST >))1?' 6 ' ' g KX7 ()*' >6,6/15;*.'1 ' - 5?' M ;.*D' # ' 6 ' + ' K' X' 1' B*-1?*' > ' 2' I1%!' X' 620' 1' 1,)*-.' 1',)*' 6,)*-. ' 5 +*' .;D.,62, 6// ',)*' .6?*' / .,' M >))1?' % >' T ;5;.,G';' g' T 1. 2.';' =' # ' "' 6212')' + T :*20*-.12',' 9 % 1'=' RX (*' 5*2*-6/' ;.*' 1',)*' *=, 65 2,' M*2/6-5*0' D ' 6=1>- =)6/600, 12.X'=-10;>*0'* *>,.'8)>)'6-*'=/6 2^ / ' + . D/*' 2',)*') .,1- '1',)*' %C(' 6212'6?125',)*' *6-/ ')- ., 62' 8- ,*-.' 2' =-1=1-, 12' 6.',)*' 6,)*-.' 8*-*' ?1-*' 1-' /*..' 6D.1/;,*/ ' 0*=*20*2,' 12',)6,'+*-^ . 12' 1-',)* -' 9218/*05*' 1',)*' /O0(*.,6?*2,' >- =^ ,;-*.',)* '5-60;6// '/1.,' 2'>1?? 12'=-6>, >*',)*' .*2.*' 1',)*' 0 *-*2>*' D*,8**2',)*' D119.' 1',)*' : *D-*8' 6212'620',)*' =1>- =)6' ()*>;.,1?'1 ' 20 + 0;6/.' 5-*8' 2,1',)*' >;.,1?' 1',)*');->)'f 620',)*'=;D/ >' ;.*' 1',)*' 6=1> 7=)6/ D119.' 1D/,*-6,*0' 2' =1=;/6-'-*^ 56-0',)*' >)6-6>,*- .,>' ?6-9.'1',)*' .-'1- 5 2'620'+6/;*' 8) >)' >1;/0' 12/ 'D*' 0 .>1+*-*0' D ',)*' .>)1/6-' ;' ,)*' >;.,1?' 1',)*');->)' 86.'21,' L*0' 2'62'6D.1/;,*' A;05?*2,' ()*' .6?*' -*?6-9' 6==/*.',1',)*' 0*,6/.' 1 '=6,- .,>' *+ 0*2>*' 12',)*' >12,*2,.' 1',)*' 6212' ()*-')6D,'?;.,'D*'0 .,25; .)*0' -1?',)*-'A;05?*2, ' -1?' 8)6,')6.' D**2' .6 0' ;.' *+ 0*2,',)6,',) .,1- '1',)*')- ., 62' 6212' .',1' D*' .1;5),' 2',)*' -.,' 2.,62>*' -1?' 0* 2,*' >6,6/15;*.' -6,)*-',)62' -1?' .1/6,*0' _;1,6, 12.' ;'*+*2',) .' *+ 0*2>*' .' 2>1?=/*,*' 620' ;2.6, . 6>,1-A! M **' ,)*' (6D/*.' 620' X' ;- 25',)*' -.,' 1;-'>*2,;- *.',) .' : *D-*8' 6212' .',)*' 12/ '12*' 8) >)' .' 0 ., 2>,/ '-*>152 .*0' 620' ,' .';==1-,*0'D ',)*' >1?D 2*0'6;,)1- , '1',)1.*' 6,)*-.'8)1.*' >- , >6/A;05?*2,' .'*2, ,/*0',1',)*' 5-*6,^ *.,' 8* 5),' ()*' -*6/ 0 +*-5*2>*' 6.',1',)*' >12,*2,.' 1',)*' /O0(*.,6?*2,' 6212' .',1' D*',-6>*0',1' ;5;.^ ,2*' 8)1' *2;?*-6,*.',)*' D119.' >12,6 2*0' 2' 7:)*' 8)1/*' 6212' 1' >- =,;-* J' 2>/;0 25',)*' =1*-A7=)6' 8 ,)1;,' 62 ' .=*> 6/ ?6-9' 1 '0 ., 2>, 12' 6/,)1;5)' 8)1// ';2^ .;==1-,*0'D '62 ' 4-**9'6;,)1- , ' 86.'601=,*0'6,',)*' 1;2>/ 1' 6-,)65*' M % 'NR 'HX',)1;5)' 8 ,)' 6'-*.^ *-+6, 12' M 62' ' 0*' ' ' P(8!'620'6 .*-86-0'=;D/ .)*0' 2',)*'0*>-*,6/.' 8)>)' D*6-',)*' 26?*' 1' 221>*2,' 6?6C' .;.' 620' 4*/6. ;.' M>1?=' -*02*-' . ' ? "' ') ' =' '._%X' 620',' -*>;-.' 2' ?62 '/6,*-' 8-,*-.' ;,' 2*+*-,)*/*..' 6'>12, 2;1;.' .;>>*.. 12'1',)*' ?1-*'/*6-2^ *0' 6,)*-.' 2',)*' & *.,' ?6 2,6 2*0',)*' 0 .,2>, +*7' 6;^ ,)1-, ' 1',)*' : *D-*8' 6212' ;=',1',)*' =*- 10' 1',)*

* 1-?6, 12' 2',)*' S,)' >*2,;- ' - ?6. ;.' I ' ' &% !' +' 1. 2' g' RK' HX' 2',)*' ,)' 4-*51- ',)*' 4-*6,' I ' L L' K ' =' SKKX' 2',)*' Q,)' *0*' I ' &% ' +' HX' 2',)*' R,)' />; 2' I %!' :10E' =' S 'f *,' .**' ' + ' + X' 2',)*' ,)' 60;/=);.' 6+' I ' + ' L + ' :10 ' =' S X' 2',)*' K,)' *,*-' 1' /;52' I6% ' !' ' :10 ' % >X' ;51' 0*' % >,1-*' I '$ % SX' 620' B1)2' 1' 6/ .D;-' M:10 ' =' S ST' 1. 2' g' N X' 2',)*' N,)' :;51' 6-0 26/ .' M:10 ' =' S SX' 2',)*' ,)' >)1/6.' -62;.' M:10 ' =' S 'f 1. 2' g' SX' & >C' / 'MH>1?=' :10 ' =' S QX' 620' >>6?' M:10 ' =' S 'f 1. 2' g' X' 2',)*' ,)' ()1?6.' 25/>;.' M 1. 2' g' S X' 620' ()1?6.' 0*' & 6/0*2 M 0' g' X' 2',)*' S,)' 6-0' d ?*2*.' I6 ' % ' (8' L,;.' *2*2. .' I;' "f ' X' 620' 6-0' 6A*,62' M:10 ' =' SSK' 1^ .2' g' NX' -*=*6,' 8 ,)' 6==-1+6/',)*' 0*> .12' 1' B*^ -1?*' 620' 0-68' 6'>/*6-/2*' D*,8**2',)*' >6212 >6/620' 6=1>- =)6/ D119.' M 1. 2' $ " ' # ' ' "' *O' K' g' NKQX' (' @@ ? ,2 ' (4$ ' ' (: ' ()O'/;*L,*206'12/ ',1',2>)' D119.'6-*'0 .=1,*O' ',D*' .*2,' I' 20$' *2*'),6,)1' D;19' *L=-*../ '-*>912*'0 6.',D ' $U ,% W ' ;' ,)6,' ' =B6@0L+-1*/7 '26' -629' G',)6,' ' .?*2,12*'0 8 ,)' D/629';6-7',)1'./*2>*'1',)*'6;,)1-6.',1',)*' D119 2'_',*.,12%

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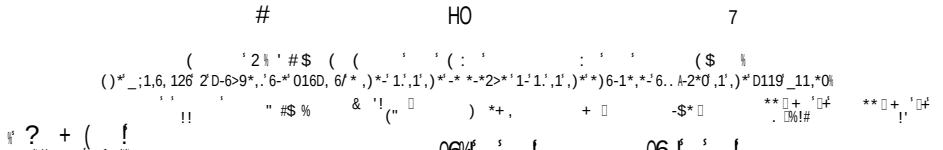

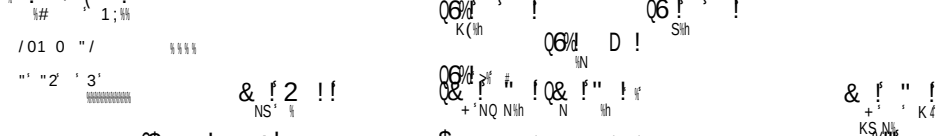

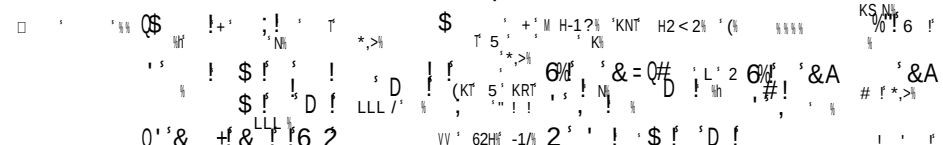

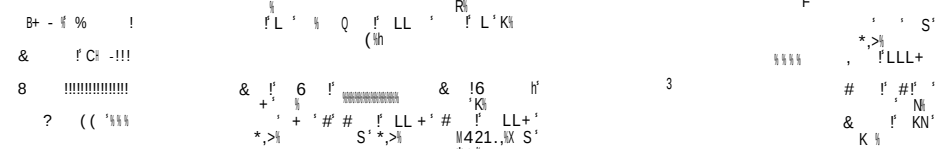

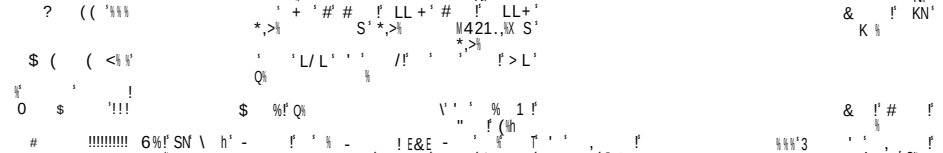

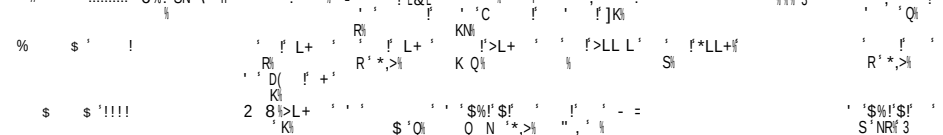

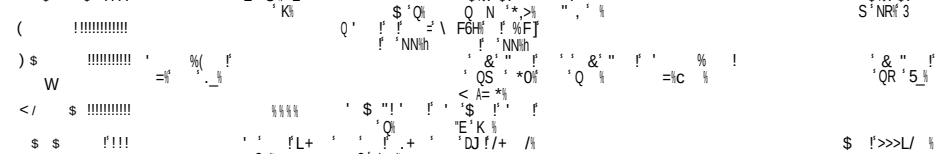

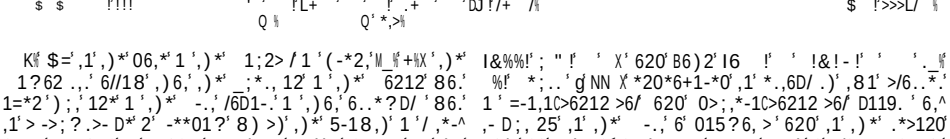

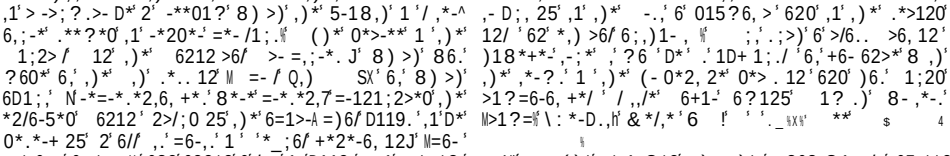

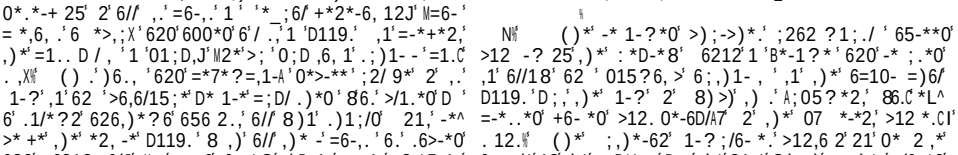

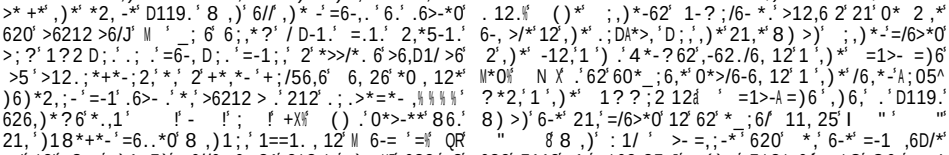

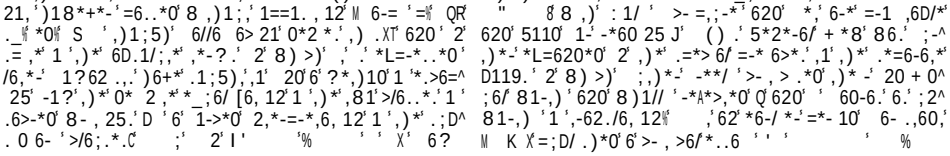

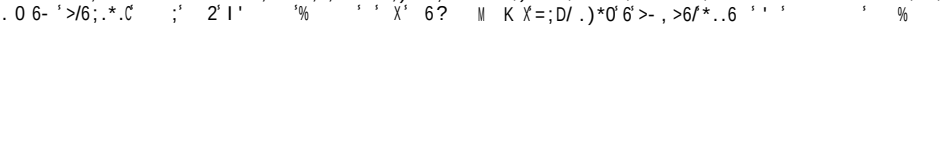

' M-*=- 2,*0' 2' -*02*- ' . ' ? +!' !') !' =% =1/ ,62' 210 ' 8) >)' 86.')*/0' 2' ,)*' .6?*' *6-' 21^ KR ' ._%P 8) >%')*' 1//18*0' ,)*' : *D-*8' 0 + . 12' 1 ' , >*.' >)*' 0 *-*2>*' *L ., 25' D*,8**2' ,)*' =1.,1/ >' ,)*' >6212 >6/ D119.' 2,1',)-*'-629. ' 620'600*0' & .O% 610 >*2*' 620' 6-,)65 2 62' 6,6/15;*.' 620' 6==*6-.' >>/;.%' B;0 ,) ' (1D , ' ' 620'K' <6>>%' 6.' : 65 15-6=)6' ,1' 0 .., 25; .)' ,)*' 6=1>- =)6/ D119.' 6.' 21,' 8)1// ',1' ,)1;5)' 21,' 2>/;0*0' 2' ,)*' : *D-*8' >1//*>, 12' 8) /* D*' 6;,)- ' ' '" '5 ' " "' *,>%' D ' *+%/ % /6>9C)*-*1*>,*0',)*' -* ?6 20*-' 1 ',)*' =1>- =)6' 8 ,)' >12^ ?1-*' D*-0% Q ' =%N ' ._%' 0 ., 2>,/ '_;1,*.' 620' 0*^ . 0*-6D/*' =6-,.' 1 ' 62 */' 6.' ;,,*-/ ' 6=1>- =)6/J' *2>*',)*' : *D-*8' 6212' 12',)*' 6;,)1- ' ,' 1',)1' 4-**9' I% ' % %" :' -*02% =% NQR ' ._%X% 6,)*-.' 620' -*=*6,.' ,)1' A;05?*2,' 1 ' ,)626. ;.' 12' % ()*' 6/+ 2 ., >' >);->)*.' 5*2*-6// ' ,-*6,*0',)*' ,)*' ;.* ;/2*..' 1',)*' 6=1>- =)6/ D119.' 6.' 6' =-*=6-6^ _;*., 12' 8 ,)' ?1-*' =-*> . 12' 620' 2,-10;>*0' 2,1',)*' -' ,1,-' ';0 ., 2>, 12' D*,8**2',)*' >6212^ . ?D1/ >'01>; ?*2,.' 6'0 ., 2>, 12' D*,8**2',)*' >6212^ >6/J' 620' 6=1>- =)6/ J' 1-' *>>/*. 6., >6/J' D119.% >6/J' 620' 6=1>- =)6/ J' 1-' *>>/*. 6., >6/ D119.' 6-*' ;.* ;/' *',21, ()*' 46/ /*62' 12 *.. 12' M S X' 6 ,*-' 62' *2; ?*-6, 12' .;)*' ?*-12 ? 62' 6212' M -,% NX' 600.' M -,' X ,)6,',)*' 1,)*-' *>>/*. 6., >6/ D119.' 6-*' ;.* ;/' *',21, 1 ' ,)*' : *-12 ? 62' 6212' M -,% NX' 600.' M -,' X .;)6,',)*' 1,)*-' *>>/*. 6., >6/ D119.' 6-*' ;.* ;/' *',21, 1 ' ,)*' ?J' I4 ' \.>% $% ' $ (f' ' 1' ' \.>% 2 ' f' ' ' ' V= 1'4 1' ' ' ' ' ' * ' ' ' ' '% ' 4 '* ' " 8f ()*' */5 >' 12 *.. 12' M SS ' HX' >12,6 2.' 6' . ? /6-' *2; ?*-6, 12' 1 ' ,)*' >6212 >6/ D119.' M -,% X' 620' 6/18.' ,)*' -' =;'D ' ,)*');->)' D;' 0*2 *.',1',)*?' 6// 20*=*20*2,' *' D ',)*');->)' D;' 0*2 *.',1',)*?' 6// 20*=*20*2,' 6;,)1-, ' 2' ?6,,*-.' 1 ' 6 ,)' M -,% SX% ()*' /6,*-' : */^ +*, >' 12 *.. 12' M SK' 6// 25*-X' 21, >*.' ,)*' 0 ., 2>^ , 12' D*,8**2',)*' >6212 >6/ 620' 6=1>- =)6/ D119.' 8 ,)^ 1;' =-121;2> 25' 62 ' A;05?*2,' 12',)1' _;*., 12' M *C ?* *-' !' $!' 6 " ') !' =% SQX% ()*' & *.^ ? 2.,*-' 12 *.. 12' M -,% NX=/6>*.',)*' 6=1>-A =)6/ D119.' 12' d /*+*/ 8 ,)' 1,)*-');?62' 8- , 25.' 620' >12>*0*.' ,1' , *a ' 21' 1,)*-' 6;,)1- , ' 2',)*');->)' % ()*' 25/ .)');->)' M -,% 4X 6==*6/.' 0 -*>,/ C,1' ,)*' 1= 2 12' 1 ' ,% B*-1?*' 620' >12>*0*.',1',)*' 6=1>- ^ =)6/ D119.' M 2>/;0 25' \ H' .0-6.' 620',)*' -6A *-' 1 ' <626..*.X' 6' ;.*' 1-' *L6?=/*' %1'/ *' 620' 2.,-;>^ , 12' 1 ' ?622*-. J' D;',21,' 1-',)*' *.,6D/ .)?*2,'1 '01>^ ,-2*' 620' % . ? /6-' 0*>. 12' .' 5 +*2' 2',)*' -.)' -,^ >/*.' 1 ' S ' M : 6-08 >9 ' ' % f' =% N ' ._%X% ()*' 1- 5 ^ 26/ 25/ .)' -, >/*.' 1 ' K' >12,6 2*0' 21' >6,6/15;*' M -,% X' 1 ',)*' >12,*2,.' 1 ' : 1/ ' >- =,;-* J' 620' 21' ?*2, 12' 1 ',)*' =1>- =)6' 6/,)1;5)',)*' (- 0*2, 2*' 0*^ >-*%' M S X' ? 5),'.**?',1')6+*/-*20*-*0',) .'2*>*..6- % (/*' *L6?=/*' 1 ' 1-* 52' >);->)*.' ?6 ')6+*/*0',1',)*' 600, 12';=12',)*'/6,*-'-*+ . 12% ()*' <*,)10.,' = .^ >1=6/);->)')6.' 601=,*0',)*' .6?*' 6212' 1 ' >- =^ ;;-*' D;,'*2, -*/ '1? .','),)*' =1>- =)6' I ' % ' =,% ' >)% 'g K' -,% XT 620',)1.*' D119.' 6.',)*' .,620' 2' ,)*' : *D-*8' 6212' 620' 4-**9' (*.,6?*2,' 6-*' 6/12** -*>* +*0' D ',)*' *+625*/ >6/ >);->)*.' 1 ' ?*- >6% S% ()*' *L=-*..*0' 1= 2 12' 1 ',)*' /6,*-' 4-**9');->)' 12',)*' 6212' 1 ' >- =,;-*')6.' D**2' ?10 *0' 2' .1?*' >6.*.' D ',)*' > ->;?.,62>*.' ;20*-' 8)>)',)*' 0*>/6-6^ , 12' 86.' ?60*% ()*' 12 *.. 12J' 1 ' - /' ;>6-' 8)1' 86.' ?1.,' 6+1-6D/ '0 .=1.*0',186-0',)*' -1,*.,^ 62,' >);->)*.' >12 -?.' ,)*' 610 >2*' 6,6/15;*' 620' ?6-9.',)*' 6=1>- =)6/ D119.' 6.' 21,' =1..*.. 25' ,/ *' .6,2*' 0 + 2*' 6;,)1-, ' 6.' ,)1.*' 8)1.*' >6212 >, ' .' ;2_;*., 12*0' M ??*/' ' !' @ !' 6 !', !' ' KX% 2',)*' .' A;05?*2,' -/' ;>6-' 8 6.' 1//18*0' D ' D./ - *20' <*,-1=)62*.' -,1=;/;.' 2' 8)1.*' >12 *.. 12' 6' >1?=/*,*' / .,' 1 ' ,)*' D119.' 1 ',)*' : *D-*8' 6212' .' 5 +*2' M ??*/' ' ._%X' 8)/*' .1?*' +6/;*' .' 6.^ . 52*0',1',)*' 6=1>- =)6/ D119.' 2' >12. 0*-6, 12' 1 ' ,)*' -' *,) >6/ +6/;*1 620',)*' 0*,6 /*0' 0*> . 12' 1 ' <*^ ,-1=)62*.' .' _;1,*0' 8 ,)' 6==-1+6/ 2',)*' -,)101L' (*6>) 25J' 1' /6,12' <*,-1=1/ ,62' 1' <1.>18' M*0% ,)*2.' QN ' =% RX% ()*' -,)101L' 12 *.. 12J' . ?=/ '-* *-.',)*' .;DA*>,' 1' >-=,;-*',1',)*');->)' M ??*/' =% RT >1?=% =% KNX% 2',)*' 1,)*-')620' ,)*' 210' 6,' B*-;.6/*?')*/0' 2' S K' 656 2.,',)*' 6/+ 2 ,.. J' 8) >)' .' >1? ?12/ '.6 0',1')6+*' D**2' 1' 6' DXI7 1? .)' 2 /;*2>*' M *,' >1?=% ??*/' =% LLL+ $X' =-121;2>*0',)6,',)*')119.' 8) >)' A(/' ;>6-' 521^ -62,/' 1-' ?6/ > 1;./' >6//*0' 6=1>- =)6/J' 6-*' >6212^ >6/ 620' : 1/' >- =,;-* J' 12',)*' 6;,)1- , ' 1',)*',*.^ , ?12 ' 1 ',)*' 62> *2,');->)' M\ ??*/ h' & * ..*2C D1?' ' +' ' =% S' ._%X% ()*' 12.,62, 21C =1/ ,62' 210 ' 8) >)' 86.')*/0' 2' ,)*' .6?*' *6-' 21^ , >*.' ,)*' 0 *-*2>*' *L ., 25' D*,8**2' ,)*' =1.,1/ >' 610 >*2*' 620' 6-,)65 2 62' 6,6/15;*.' 620' 6==*6-.' ,1' 0 .., 25; .)' ,)*' 6=1>- =)6/ D119.' 6.' 21,' 8)1// ',1' D*' -*A*>,*0% ()*' 6;,)1- [*0' ;.. 62' 6,*>) .?' I-" ' ' ' '" '5 ' " "' *,>%' D ' *+%/ % /6>9C ?1-*' D*-0% Q ' =%N ' ._%X' 0 ., 2>,/ '_;1,*.' 620' 0*^ *2>*',)*' : *D-*8' 6212' 12',)*' 6;,)1- , ' 1',)1' 4-**9' 6,)*-.' 620' -*=*6,.' ,)1' A;05?*2,' 1 ' ,)626. ;.' 12' ,)*' ;.* ;/2*..' 1',)*' 6=1>- =)6/ D119.' 6.' 6' =-*=6-6^ ,1- ' .,;0 ' 2',)1' D/*' 620',)*-*' >62' D*' 21' 01;D,' ,)6,',)*' >;--*2,' 1 ' 4-**9' 1= 2 12' 2' 6>>1-062>*' 8 ,)' ,)1';262 ?1;.' 65-**?*2,' 1 ')>' 62> *2,' 4-**9' 6,6^ /15;*.' >1 2> 0*.' 8 ,)',) .' A;05?*2,% % ()1') .,1- ' 1',)*' - 62' 6212' 1 ',)*' % (' .' 2+1/+*0' 2' 5-*6,' 1D.>;- ,' -1?',)1' .>62, 2*..' 1',)*' *+ 0*2>*' 8) >)' >62')*' D-1;5),',1' D*6-';=12' ,% ()*' *.) ,1' 86.' ?60*' 2',)*' -.,' 2..62>*' 0 ->),/ ' -1?' ,)*' : *D-*8' 620' >12.*_;*2,/ ' 60)*-*0',1',)1' : *D-*8' 6212' D;,' 6.',)*' *=,' 86.';.*0' 6 ,*-86-0' 2' -*+ .^ 25',)*' +*-. 12' ?62 ' 1 ',)1' 6=1>- =)6/ D119.' 8*-* ,-62./6,*0' -1?',)*' 4-**9' 6,'62' *6-/ '=*- 10' 620' 600^ *0',1',)*' 1- 5 26/ >1//*>, 12' M ..*?62 ';' !', ! ' X% *,',) .' >)625*' 86.' 12/ ' ?60*' 5-60;6// % 2',)*' , ?*' 1 ' =)-*?' M> -% % % N X',)*' 6=1>-A7=)6/ 600 ^ , 12.',1' 62 */ 8*-*' *,' 8625*' 620') .' >1?*2,6^ - *.' 8*-*' >12 2*0',1',)1' D119.' 1',)*' : *D-*8' 6212' ,)1;5)')*' &6.'6>_;6 2,*0' 8 ,)',)1' =1>- I=)6 M 6-0C 2*-' +' K' ._%T .**' *25*-9*' ' =% >L X% ()*' /6,#(' -62' 8- ,*-.' 01' 2 ,' ,)-18' ?;>)' / 5),' ;=12',)*' _;*., 12% 4-*51- ' 6-' :*D-1*;.' 2') .',)1-,' >1?2?*2,6-' 12' >-=,;-*',-*6,.' 1',)*' D119.' 2',)*' 1//18 25' 1-0*-' M ..*?62 ';' !', ' KQKX%)*' *2,6,*;>)' B1.)% B;05% ' 620' K 6?% ' .6% 620' K 25.' -1+% ' 6 !1' 1>/% ' 62,% ' 9,.0 ' ;,)' # !' $!' B1D' .6% ' K' 1=/% ' B*-% ' 6?% ' [*9% ' 62% ' 6 ' 41.=% ' >,.' % % % ' = .,% 1' 6;/' 1?,, 25' ' 620' K)-12% ' [-6' *)' .,)*-' ' 620' K ' !' D 9 "' ' I1; "' HX' &% % ' = .,% D ' ' *,% ' B1)2% 7',)1' >- =,;-6/ 1>6D;/6-' 1' B6>1D' 1' 0*..6' M ..*?62 ' ' RRX',)*' 1-0*-' 620' 2;?D*-' 1',)*' D119.' >1?2*2,*0';=12' .' .1?*8)6,' 0 *-*2,% *2,% ' B1.)% ' B;05% ' B1D' ' 620' K 6-6% ' 6+ 0' M % ' *% .6% ' ' 620' K 25.' .6% ' K' -1=D% ' B*-% ' 6?% ' ; " 62% ' -1+% ' !' 62,% ' ;,) ' .,)% ' D " ' 6 !' >,.' = .,% D ' ' *,% ' ' B1)2' ' = .,% 1' 6;/' ' 41.=% ' 1?,, 25' ' 620' K)-12% ' [-6' *)% ' >>/% ' - ' ' 620' K !' &% ! M>1?=% ..*?62 ';' !', ' ' ' 21,*X% ()*' 6,6/15;*' 1' D*0CB*.;' M ..*?62 ';' !', ! ' ' ._%X' .' -6,)*-' 6' 5*2*-6/.;-+* ' 1 '6//',)*' : *D-*8' 620')-., 62'/,*-6,;-*' 8 ,)' 8)>)')*' 86.' 6>_;6 2,*0' M 6,6/15;.'/D-1-;?' 1?2;?' >>/*. 6., >1-;?X',)62' 6' 6212' 1' >- =,;-*' ,*-*2;?*-6, 25',)*' D119.' 1' ,)*' : *D-*8' 6212',15*,)*-' 8 ,)' 6 !' !' D 9 "' ! ' ' 620' ; "')*' 600.' 8 ,)1;,' 62' D-*69' ,)*' ,-60 , 12.' 1' ,)*' /0*-.J' M < .)26X',)*' 81-9.' 1 'B1.*=);.' 2>/;0 2$5,' 6D/*.' 1 %V .1=8)>)' 8*-*' =1=;/6-/ ' 6.>- D*0',1') ? ' 620' 6,',)*' *20' ?*2^ , 12.',)*' D119' 1' - ' - !^' 2'/9*' ?62^ 2*-' 6 ,*-' *2;?*-6, 25',)*' *' 41.=% ' >,.' Q 6,)% =.,' 620' = .,% 1' 6;/',)*' : *D-*8' 6,..6-12' 1' (6, 62' 620',)*' 8-, 25.' ,)*' 0 .^ >=/*.' 1',)*' 6=1../*.%J' ,,/*' 0*=*20*2>*')18*+*-' >62' D*' =/6>*0' 12',)*.*' / ,., ' 6.',)*' '-*.,' 12' 21' >-, >6/ 1;206, 12' 620' ,' .' 9218_' -1?' 1,)*-' .1;->*.',)6,' +6- *, *.' 1' 1= 2 12' 12',)*' .' ;DA*>,' 1',)*' 6212' *L .,^ *0' 2',)*' - 62');->)' M ..*?62 ';' !', ' ' S' 21,*X% 2*' ,*., ?12 ')18*+*-' 8)>)' 0*- +*.' ,.' 1- 5 2' -1?',)*' - 62');->)' .' .=*> 6// '81-,)' 1' 21, >*% B;2 /;.' 62' ->62' D .)1=' 1',)*' S,)' >*2,;- ')6.' =-*.*-+*0' 6' ;// *20' 2,*-*., 25' 6>>1;2,' 1',)*',*6>)^ 25.' 1' 6;/;.' 6' *-. 62' 12' :1/' >- =,;-*' 8)1' 86.' *0;>6,*0' 6,' %O D.' 8)*-*',)*' + 2*' 68' 86.' -*5;^ /6-/ ' *L=/6 2*0' D ' =;D/ >' ?6.,*-.J' 6.' 6' D-62>)' 1

,D*-. ' 620' 8) >)')6+*' D*62' .1' >6-* ; // ' >1//*>,*0' D ' ,) *' /*6-2*0' 620' /6D1- 1; .' 6-02*-' 2') .' # ' ' Z .' ? % '# !' ()*' .6?*',) 25' 6==*6-.' -1?',)*' -*.*6->)*.' 1 ' - 5*2' 620' ;.*D ;. 'D1,)' 1 '8)1?'>6-*^ ; // ' 2_; -*0 ' 620')6+*' 6>>;-6,*/ ' -*>1-0*0' 8)6,' D119.' &*-*' -*>* +*0' 6.' >6212 >6/ DA',)*',-60 , 12' 1 ' ,/ '>);->)*.' 1-',)*')>);->)'8-,*-.'M6laO=Vf,ÆZ,6Z-->X 86C' 620' D1,)' 1 '8)1?'*2; ?*-6,*',)*' .6?*' D119.' 6.' 6-*' 2' 1; -' =-*.*2,' 6212',)1;5)' -*>* +*0' D ',)*' ?6A1- , ',)* ' 8*-*' 01;D,*0' D ' .1?*' M ;.*D%#!'6 ' 'K 1' + ' K X% *. 0*.',)*.*' .1;->*.' 1 ' 2 1-?6, 12 ' 8*')6+*' 21' *8^ *-',)62',*2' 62> *2,' >6,6/15;*.' 1 ',)*' 18C(*.,6?*2,' DO/ 9.' ., //' *L,62,% ',)*.*' '6>>1-0' *L6>,/ ' 8 ,)' 1;-'=-*.*2,' 6212' 8) /*' 1 ',)*'-*..' " 1'1? ,'12/ ',)*' =1>6/ =.*' 620' '1? ,. ' 8 ,)',) . ',)*' = .,/*',1',)*' : *D-*8.'M 6-02*-.' ' +'1/% +'620'+'Q+1' : 1?*.' ' ' Q,)'*0 , 12X%

N' ()*') .,1- ' 1 ',)*' %C(% 6212' ?6 ' D*' >12+*I% *2,/ '0 + 0*0' 2,1',)-*'=*- 10.% ()*' -.,'*L,*20.',1' ,)*', ?*' 1 ' : *5*. ==;.' M>% % % X' 620' ;> ; *.',)*' .*-6' 1 ',)*' .*=6-6,*' > ->;/6, 12' 620' 5-60 ;6/ >1//*>, 12' 1 ',)*' 6=1.,1/ >' 8- , 25.% ()*' .*>120' .'>/1.*0' D ',)*' =*-.*>;, 12' 1 ' 1>/*, 62' M % % N NX' 620' ?6-9.' ,)1' .*=6-6, 12' 1 ',)*' .6>-*0' 8- , 25.' -1?',)*' -*?6 2 25' *>>/*. 6., >6/ / ,*-6,;-*% ()*',) -0' ?6 'D*' 0* 2*0' D ' ,)*',) -0' 1;2> / 1 ' 6-,)65*' M % % $ X' 2' 8) >)' 6' >6,6/15;*' 1 ',)*' D119.' 1 ' >- =,;-*' 86.' 1-?6// ' -6, ^ *0' D ' >12> / 6-' 6;,)1- , % ()*' -.;' .' >)6-6>,*- .^ , >6// ' 6' =*- 10' 1 ',-60 , 12 ',)*' .*>120' 1 '.=*>;/6, 12' ,)*',) -0' 1 '6;,)1- , ' 620' ,' 81;/0' 21,' D*' 0 >;/,',1' ,-6>*',)*' *6,;-*.' 1 ',)*' .;>>*.. +*' 6'>6.' 2',)*' >1;-.*' 1 ',)*') .,1- ' 1 ',)*' 6212% 1-',) . ')18*+*-' 8*')6+*' 21,' -11?' 2' 0*,6 / ' D ;,' ? ;.;-* *-',1',)*' 1->C' 51 5' .,6,*?*2,.' 2' .;==1-,' 1 ',) .' -*?6-9',)*',-;,)' 1 ' 8) >)' .' 6-,)*-' .;.,6 2*0' D ',)*') .,1- ' 1 ',)*' , ?*.%

()*' =*-.*>;, 12' 1 ' 1>/*, 62' 86.' 0 *>,>0' 2' 6

(' %C(: ' ;' (// ' ' &'(((4$< ' (' ' (: ' '

D 1 '+' \1' - !% ! SX% ()*' 2 /;*2>*' 1

2/' 0 %=-,*0C D11 % 6-6 1% 1FO 1-%i>)OF%% 2%Fq 0* -**0>152 .0' 6.'6;,,)1-,6, +*% ()*'. ?D1/.'6-*';.*0 6.' 2' (6DB1' %

IIPS >-=,;-*.' ' !" #$' .1' %!" &' '#' ' ' &_!'()' $'&* &'&*"' +!" &',! "&* #' -'#" &! $('%'&*"' 6,)

"" . "#'& '/"'&*"'#" &!O1&('' -'&*"'!"1 !# ' '' *(1*

986.' .;==1-,*0% ()*' =/62' 1 ',)*' *?=*-1-' 86.' 21' =6-,' .;>>*.. ;/% 1?*' 8*-*' 1;20' 8)1' 1D,6 2*0' =-1,*>, 12' D ' ,)*' .;--*20*-' 1 ',)*' .6>-*0' D119.' 62%0' 6,' 6' /6,*-',' ?*',)*' _;*., 12' 1 ',)*' -*60? .. 12' 1 ',)*.*' ``,-6 ,1-.J' I 8' 6.',)* ' 8*-*' *?^ =)6, >6// ' >6//*0' >-*6,*0' 6' .>) .?' 2',)*');->)% ()*' 126, .,. ' 8)1' ?6 2,6 2*0',)*' .,*-2*-' A;05^ ?*2,'12',)* -' >- ?*' ?6 ' D*' -*56-0*0' 6.' ?6 2,6 2^ 25' 2' ,' .,- >,*.' 2,*5- , ',)*' =1=;/6-' A;05?*2,' 2' - >6' 12',)*' >12,*2,.' 1 ',)*' 6212' 1 ' >- =^ ,;-*' 8) >)' 86.',)*' 1>>6. 12' 1 ',)*' 0 ..*2. 12' 620' ;5;., 2*' 6//18.',)6,',)*' ')*/0' 2' >1?*212' 8 ,)' ,)*' 6,)1/ >.',)*' .6?*' >6212 >6/ >- =,;-*. J' 620' 8*-*' 6/ 9*' 'D1;20' D ',)*' 6;,)1- , ' 1 ' D1,)' (*.,6?*2,.''M ;5;.,' !' !' 'N ' 1' 6%!' KR' NX% (*' 12/ '01;D,' 8) >)' >62' D*' -6 .*0' 6.',1',)*' 2^ ,*5- , '1',)*' 126, .,' 6212' 6- .*.' -1?',)*';2>*-^ ,6 2'/625;65*',)6,' ;5;., 2*') ?.*/';.*.' 6.',1',)*' = .,/*',1',)*' :*D-*8.' 8) >)',)*' 126, .,.' ?6 ' 6/.1')6+*' >1;2,*262>*0% ;,')18*+*-',) .' ?6 ')6+*'D**2',)*'>1?=/*,*' 6212'1',)*' %(%'6.'>1?^ ?12/ ' -7* +*0' 6,'=-*.*2,' 86.'-6, *0' 6,',)*',) -0' 1;2> / 1 ' 6-,)65*' M % %KR X' 620' -1?',)6,',?*' 86.'6>>*=,*0',/ -1;5/ 1;',)*' 6, 2');->)'MB*-1?**' 221>*2,' ; 2;.') /6.,- ;.X',)1;5)' 1>>6. 126/ 01;D,.' 6.',1',)*' = .,/*',1',)*' :*D-*8.',,/ -*^ ?6 2*0' M . 0% : .=% !' g' Q C RX% ,' 8 // D* =*->* +*07',)6,',)*-*' 86.' 21' 0 .=;,*' 6.',1',)*' 62C ,)*2, >'620' 2.= -*0')6-6>,*-'1'?1.,'1',)*'D119.' 620' 6.',1',)*'-*?6 20*-',)*-*'*L ,'+*- '-*.=*>,6D/*' ,*., ?12 *.7*+*2' 2',) .'*6-/ '65*' M.**' (6D/*' X% ** S? !

% ',)*'*-6'1',)*' *1-?6, 12',)*' _;*., 12' 1 ',)*' %C(% 6212' 656 2' 6..;?*0' 5-*6,' ?=1-,62>*% ()*')6., ' 0*>-**' 1 ',)*' 1;2> / 1 ' (-*2,' 8) >)' 6 -?*0',)*' 6;,)1- , ' 1 ' 6//' ,)*' D119.' >1?? 12/ '-*+ +*0 ' >6//*0' 1;',)*' 1==1. , 12' 1 '>12,-1+*-. 6/^ .,. ' 8)1' _;1,*0' 620' *2 1->*0' ,)*' *6-/ ' 01;D,.% -6.?;.' 8 ,)' >)6-6>,*- .,>' ?10*-6, 12' 0*2 *0',)*' 6=1.,1/ >' 1- 5 2' 1 ',)*'6% ' ' '' # 'K' 620',)*' &% % 'D;,' /* ,',)*' -' >6212 >6/ 6;,)1-^ ,' ;2_;*., 12*0' I !' ' & 2 !(8! ;,)*-' 12',)*' 1,)*-')620' 8 ,)' D1/0' .*/ C-*/ 62>*' >-*6,*0' 6' =;-*/ ' .;DA*>, +*' .,6206-0' 1-',)1' >6222 > , ' 1 ' ,)*' >-=,;-*.' 2',)*' >)6-6>,*-' 1 ' >-' ,*6>) 25' 1 ')-%., J' 020' 8) /*')*' =/6>*0' ,)*' 41.=*/ 620' -.,' = .,/*' 1 '81)2',)*' = .,/*.' 2 ' 6;/ ,1',)1' 1?62.' 46/6, 62.' =)*. 62.' 620',)*' -.,' = .,/*' 1 ' *,*-' 2',)*' -.,'-629' 6.'>12,6 2 25',)*' '9*-2*/ 1 ')- ., 62 , J')*' .*;' 6. 0*',)*'6% ' ' '' # ' 'D 'D ' 620',)*' &% % ' 6,',)*' *20' 1 ') .' +*-. 12' 620' .=19*' 1 ',)*'?' 620',)*' -*?6 2C I

U ':' C,%

$' % & ' ()' 's !

\ 610 >*6h%%%%%%%%%%%% 6-,)65*%%%%%%%%%%%% =1.,1/ >' M 12> /% # ;2 D>L, %%%%%%%%

$$% *+ (' ' $ Q% M6X $!' *.),1' *-. 12%%% 3/;2 / ;.%%%%%%%%%%%% 3B1622% ' 6?6.>%%%' D*0' B*.;' %%%%%%%%%

MGFX !' ;.*D ;.%%%%%%%%%%%% B -/' 1 'B*-;.6/*?' =72 62;,6' %%%%%%%%

M>X' & ! - 5*2%%%%%%%%%%%%%%%%

,)626. ;.%%' %%%

MOX' & ' ! 4-*51-% 6[%%%%%%%%%%%% ?=) /1>) ;.' %%%%

M*X % !')- .1.,1?%%%

12, ;.% %' >= D-;.%

% >> ' (' L 8! MC X' & !' ! %%%%%%%%%%%% ,

;5;., 2*%%%%

MSX' ' ! h !' !!!! MX

) /6.,- ;.%%%%

B*-1?*%

2 62.%%%%%%%%%%%%%%% 221>*2,%%%%%%%%%%%%%% \4*/6. ;%.h%%%%%%%%%%%%%% 6.. 101-;' ' M N ' - !8

M>X' $% !' . 01-*' 1 ' *-%%%%%%%%

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I' ,

/6' >% % !' % >% % ! % >% X % !

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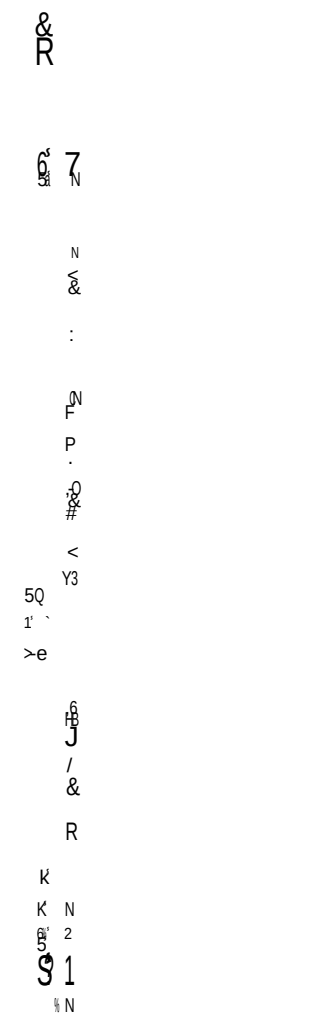
Ç !' % !')% >% % !

$ % '$!' $! &% ' 7 % % >% # 3 !

(/*>)0 % ! !'=% BR' ZÆ % >

! ! & ' ' 8HX=% Q.# QQ 3FFh & ' =% N' 'Q' M ' Q% < 52*X% % >% *' ! / % >% % ! % >% % ! ' ' ! ' ! $

' ' ! ' ! $!' $!' 2 ,% ' :10 % =% % ' %



2=ª 2, /*51,;*26ª 8 ,)ª+6- 25ª 0*5-**.ª 1 ª0 .-*.=*>,ª ,)1;5)ª)*ª 0 0ª 21,ª .*=6-6,*ª K ª620ª K ª Qª D " ª -1?ª ,)*ª 1,)*-ª = ../*.ª M>1?=ª 620*-*-ª 6-,ª) ª 2ª : *-[15 .ª 6 "%ª =ª KR ª ._ª ( )*ª 01;D,.ª 8) >)ª ;,)*-ª -*.,*0ª ?6 2/ ª 12ª 2,*-26/ *+ 0*2>*ª 8*-*ª +6^ - 1;./ ª *L,*20*0ª D ª .1?*ª 1 ª) .ª 1//18*-.ª M< */62>Cª ,)12ª !ª !ª /6> ;.ª 4 *-6-0ª >1?=ª *;..ª g NO7 Xª 620ª *.=*> 6// ª 8 ,)ª 6ª =1/*? >6/ 6 ?ª 656 2.,ª ,)*ª 1? .)ª);)ª D ª)*?2 ,[ª I16 Jª ª - !ª ª NXª ;,ª 8) /*ª,)*ª,*20*2> ª1ª,)*ª ;,)*-62ª 8- ,^ *-.ª 86.ª,1ª =/6>*ª ,)*ª 2, /*51?*26ª 12ª 6ª /18*-ª .,65*ª 1ª6;,)1- , ª,)* -ª + *8.ª -*>* +*0ª 21ª 0 -*>,ª .62>, 12ª 2ª 62 ª1ª,)*ª ;,)*-62ª . ?D1/ >ª D119.ª 8) >)ª 60? ,ª ,)*ª =-1=)*, >ª 620ª 6=1.,1/ >ª 8- , 25.ª = ª,)*ª /0ª 620 *8ª (*.,6?*2,. 7 6.ª 6ª 8)1/*ª 8 ,)1;,ª ;-,)*-ª >/6.^ . >6, 12ª 1-ª 0*,6 /ª ( )*ª 01;D,.ª 6.ª,1ª,)*ª 2, /*51?^ *26ª 1ª,)*ª (ª 8*-*ª 21,ª>12 2*0ª,1ª,)*ª ;,)*-62.ª 6-/.,60,ª8)1ª 86.ª 1- 5 26// ª6ª - *20ª 1ª ;,)*-ª 620ª 6 ,*-86-0ª=-1 *..1-ª6,ª U;- >) ª*20*6+1-*0ª,1ª D- 25ª D6>9ª ,)*ª _;*., 12ª ,1ª 6ª >- , >6/ 0 .>;.. 12ª 1ª*+ 0*2>*ª 620ª =/6>*0ª,)*ª 2, /*51?*26ª 2ª 6ª,) -0ª >/6..ª ª12ª 6>>1;2,ª 1ª,)*ª>12,-1+*-. ª6.ª,1ª,)*ª D119. ª1-ª-6,)*-ª M;,ª>*-, ;.ª /1_;6-ª 6.ª,1ª,)* -ª 6;,)1-.Jª I ª ª !ª$ % ª=ª C Kª *0ª -*02NXª 6/+ 2ª 8) /*ª)*ª0*2 *0ª,)*ª 6;/ 2*ª6;^ ,)1-.) =ª1ª,)*ª6% ª ª"ª# 1ª620ª6,ª/*6.ª_;.^ ,12*0ª,)*ª6;,)*2, > , ª1 ªKª ª0 0ª21,ª.*,6. 0*ª,)* -ª >6212 > , ª> I% ª ª# " !:ª ª Kª !8ª620ª)*ª21, >*.ª ,)*ª01;D,.ª6.ª,1ª D ª620ª D ª12/ ª,1ª0 .? ..ª,)*?%

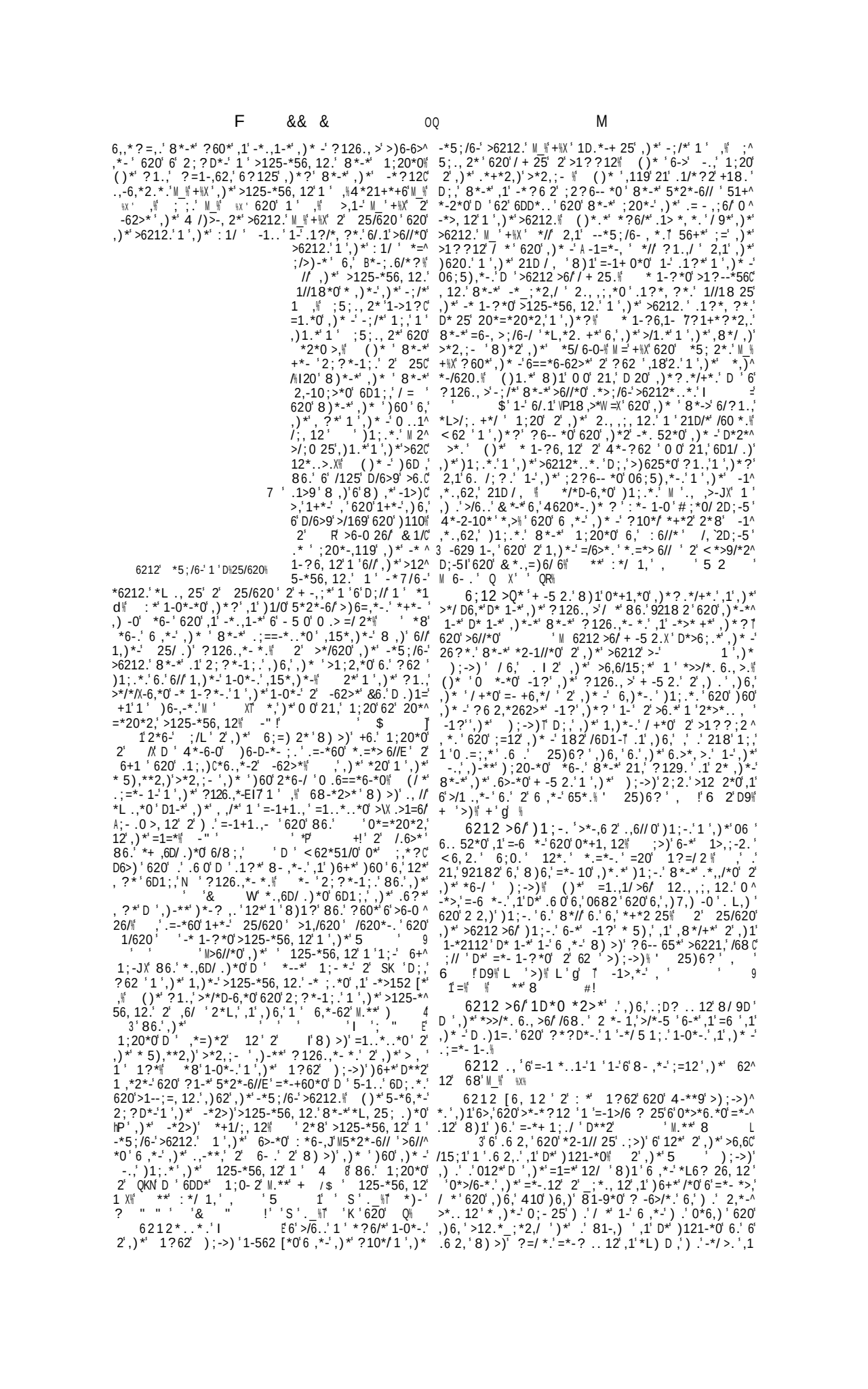
( )*' /625;65*' 1 ',)*' -, >/*.' 1 ',)*');->)' 1 ' 25/620' 8 ,)' -*56-0',1',)*' (.' -*?6-96D/*' 2' ,)*' -, >/*.' 1 '/1 K' 21' / .,' 1 ',)*' D119.' 1 ' >- =,;-*' .(5 fa*21' D;,' 2',)*' / [6D*,)62' -, >/*.' M SK X' 6' 0* 2 , 12' 1 ' : 1/ ' >- =,;-*' .' 5 +*2' 6.' ',)*' >6212 >6/' D119.' 1 ',)*' /0' 620' *8' (*.,6?*2,' ' " ' " 1' 2 ' ' ' ' ' ' " ' " "^' M -,(+ X(( ) .' 0* 2 , 12' .' 1//18*0' D ' 62' *2; ?*-6, 12' 1 ',)*' D119.' 1 ',)*' (620' 1 ',)*' =1>- =)6' 620' 1',)*' >6212 >6/' D119.' 1 '7*' ((' 6.',)* '6-*'>1?? 12/ '-*>* +*0 ' 8* 301' -*>* +*' 620' 6>>1;2,',)*?' 1-' >6212 >6/J' M=-1' >6' 212 > .')6D*?;.X('0 .., 2>, 12',);.'-*?6 2.'D*,8**2',)*' '>6212 >6/ D119.' 620' .;>)' '>6212 >6/ D119.' 6.')6+*' 2*+*-' D**2' 01;D,*0' 2',)*');->)' 620' ,'.**?.' ?=1.. D/*',1' 6+1 0',)*' >12>/A;. 12',)6,',)*' -6?*-.' ',)*' -, >/*.' 2,*20*0',1'/*6+*' 6' -**01?' 1 'A;0 5?*2,' 12' 6' =1 2,'12' 8)>)',)*' 5-*6,*.,'1',)*' 12, 2*2,6/-*^ 1-?*-.' 620' *+*2' 1 ' 1? .)' .>)1/6-.' M L,;.' *2(1; "!C ' ' T 6A*,62 ' !' '6%%!' '# " 11' D 1' K' N' D + 1' D !8' 8*-*' 0 + 0*0( )*' 1? .. 12' >6 ?1,')6+*' 6-.*2' .1/*/A' -1?',)*' 6>,',)6,',)*' -, >/*' 2' _;*., 12 86.' -6?*0' 8 ,)' -* *-*2>*',1',)*');->)' 1 ' 1?*' 8 ,)' 8) >)',)*');->)' 1 ' 25/620' 86.' 65-**0' 12',)*' C(6212' 1-' 6/ ,)*' 1,)*-' -1,*.,62,' >12^ *.. 12.' 8) >)' >12,6 2' 62 '/ .,' 1 'D119.' 5 +*' 6'/ .,' 1 ',)*' D119.' 1 ',)*' *8' 6.C 8*/ 6.' 1 ',)*' /0' (*.,6?*2,' I !' ; ! T ! 2f NT @ ! X ; ' ',) .% ,1' D*' -*56-0*0' 6.' 1 '0 + 2*'6;,)1- , ' ,' 81;/0' D*' 6D^ .;-0' ,1' >6// (,',)*' % 1' 6.' .,6206-0' 1 ,)*' 0 + 2*' / >*2.*' .' - 5),/ ' >12>*0*0' D ',)*' 25/ >62' -, >/*.' ,)*' 5-*6,' 8-,*-.' 1 ',)*');->)' 1 ' 25/620')6+*' 21,' 6+6 /*0',)*?.*/+*.' 1 ',(( )*' *6-/ '>1?? *2,6,1-.' 12' ,)*' -, >/*.' ,69*' / ,,/*' M ;-2*,X' 1-' 21' 21, >*' M *+*-^ 05*X' 1*' 01;D,.' 6.',1',)*' 2, /*51?*26' 620',)*' >) *'>12,-1+*-. 6/ .,.' 1',)*' * 1-?6, 12' 6>>*=,*0',)*' ;// 6212' 8 ,)' *?=)6, >' 6+186/ M &) ,69*-' ' %!' $ % 1'>L+'=(T ;/9*.' ' '6 !'- =(Q T' B*8*/' ' &% ! 'R X S(( )*' A;05?*2,' 1',)*' 4-**9');->)' 2',)*' >6.*' 1',)*' (86.' .**2',1' D*/,,/*' ?1-*',)62' 6'-* /*>^ ,12' 1',)*' 1= 2 12.' 1',)*' & *.,(( )*' 0 *-*2>*' D*^ ,8**2',)*' 1?62 620' * 1-?*0' >);->)*.' 12',)*' ((8*-*/*.' ?6-9*0' 620',)*',8 1'>12 / >, 25' 4-**9' >12^ *.. 12.'>12 -?' 2' 5*2*-6/,*-?.' 8 ,)1;,'62 '0 .,2>,' *2;?*-6, 12' 1 'D119.',)*' =1=;/6-' 6212' 1',)*' ((M -(;>(' ' =(KT 1. .)(S X(( )*' $1;*.. 12' 1 ' <*,-1=)62*.' 5 +*.' 6' >1?=/*,*/ .,' 1',)*'D119.' 620' _1?=6-*.',)*' -' 2;?D*-',), -, C,)-**' 78,)',)*' *6-.' 1',)*' 6+ 1-.' / *',)6,' 21,' *+*2',)*' 2;?D*-' 1',)*' .6>-*0' D119.' ? 5),' D*' 0*+1 0' 1 '6 0 + 2*' ? ,-*- J' M<*,-1=)(-,1=(! ' ' *0(? ?(*,' & * ..*2D X(;=-*.*2,' 6.' 86.'6/-*60 ',)*' >6.*' 6,',)*' >/1.*' 1',)*' ,)' >* ,;- ' M *1' //6, ;.' 6=(6D- >(;! ? ! + ' ==(=(NQX',)*' 2, /*51?*26' 6-*' -*>912*0' D ',)*' 4-**9');->)' 6.' *_;6/ 2' >6212^ >6/ 6;,)1- , ' 2' 6//A-*.=*>,.' 8 ,)',)*' -*?6 2 25' D119.' I " 1' ;',.;=X(& " ' ' '% ' ' '$ % ! ' ( )*' 6..6;/,.' 8) >)')6+*' D**2' ?60*' *.=*> 6//A' 0;- 25' ,)*' =-*.*2,' >*2,;- ';=12',)*' 6;,)*2, > , ' 1',)*' .*=^ 6-6,*' D119.' 1',)*' (620' ((*.,' 6-*' 21, >*0' ;20*-' ,)*' .=*> 6/ 6-, >/*.* ( )*' 5*2*-6/ >1;-.*' 8) >)',) 7')6+*' ,69*2' .' . ?=/*' 620' 26,;-6/(*?/*-' IDD $! !) ! C X -.,'/*0',)*' 86 ',186-0',)*' /6,*-' .;D^ A*>, +*'>-, > .?',)1;5))*- 5),/ '>122*>,*0',)*' 1-?^ 6, 12' 1',)*' 6212' 8 ,)',)*' 1-?6, 12' 1',)*' 6,)1/ >');->)'D;,' 8 ,)1;,'62 '>/*6-'-*>152 , 12' 1',)*'=-1+ ^ 0*2, 6/'=18*-' 8) >)' 8-1;5),' 2' D1,)(*L,' 1//18*0' 6' .*-.*.' 1'.=*> 6/*..6 .' 2' 8) >)',)*' .*+*-6/ D119.' 8*-*' 0 .>;..*0' 20 + 0;6// ' 8 ,)'/ ,,/*' -*56-0',1',)*'=/6>*' 8) >)/*'-*C' ?6>)*-' -*,.>)2* 0*-' *' & *,,*' *,>,%X(;' /6.,' 62' 0*6/+ *8' 1',)*'*6-/ ') .,1- '1')- ., 62 , '86.';.*0' 6.',)*' .,6206-0' D ' 8) >)',)*' D119.' 8*-*' ,1' D*' ,- *0' ' 620',)*' D119.' 8*-*' -*56-0*0' 6.'-*.;/,.'1', =>6/ 1-?.' 1 '01>,-2* l' 620' 21,',)*' .1;->*.' 1 ',)*?' M (6;-' >)'8*5/*-' U*/!*-X(//,-;*'.*2.*' 1 ') .,1->'+ 0*2>*' 86.',);.'/1.,(( )*' 5-18.,)' 1',)*');->)' 86.'/* , 8 ,)1;,'*L=/626, 12'620',)*' 1-5 26/-*/6, 12.'620' 1-^ 562>';2 , '1',)*' ((' 8*-*' 0 .-*56-0*0(K' 2' 1-0*-',1'.,6D/.)',)*' 6212' 1' >- =,;-*',. 2*>*..6- ',1'.)18',)6,'6/',)*' D119.' 1' 8) >)' ,'.'>1?^ =1.*0' 6-*' 1 '0 + 2*' 6;,)1- , 1' .)6,',)* '6-*' *2, -*' 620' 2>1--;=,1',)6,')6+ 25',)*?' ,' .'>1?=/*,*' 8 ,)1;,' 62 '600, 12' -1?' 62 '1,)*-' .1;->*' 1' 620',)6,' ,'>1?^ =-.*.',)*' 8)1/*' 1',)1.*' D119.' 1-' 8) >)' 0 + 2*' 6;^ ,)1- , '>62' D*' =-1+*0(,' .' 1D+ 1;.',)6,' '62 '1' ,)*.*' 1;-'=6-, >;/6-.' D*' 21,',-;*(>- =,;-*' >6221,' D*' ' ' ' % .,6206-0' 1' -*/ 5 1;.',-;,)' 620' 0;, ('62 '1',)*' D119.' 1' 8) >)' ,'.'>1?=1.*0' D*' 21,' 1' 0 + 2*' 6;,)1- , ' >62' 0*' =6-,' 1' ,' 8*' 6-*' 21,' D1;20',1'.;D? ,',1'620' >12.*_;*2,/ ' ' ' " !' ,' .' 21,',)*.,6206-0' 1',-;,)' 620' ?D-6/. ' ,.' .*=6-6,*' =6-,.' D*' 21,' 2',)*' .,6,*' 2 8) >)',)* '/* ,',)*')620.' 1',)*-' 6;,/1-.' D;,')6+*' D**2' ?;,/6,*0' 2,*-=1/6,*0' 1-'6/,*-*0',)*2' ,'>62' 1-?' 21' .6 *.,6206-0.' 1-' 2' 6==*6/ 25',1' ,'12*' >6221,' D1' .;-*',)6,',)*' 6==*6/ .' 21,'?60*',1'8)6,' .' .=;-1;.' 620' 8)6,'>12.*_;*2,/ '?6 ')*' *--12*1;. ' ,-*_;-*' -' 60?,'1 ' ;==/*^ ??*2,6- '-*+*/6, 12.' -1?' 4 10' 8)*,)*-' =-*.*-+*0' D ',-60, 12' 1-' >1??;2 >6,*0' -1?', ?*',1', ?*',1',)*');->)' ,'1D+ 1;./ '81;/0' D*' 6' ?*-*'>12,-60 >, 12' 2' ,*-?.',1'>6//,' % 1' 6.' .,6206-0' 1 ,)*' 0 + 2*' 8 //(20' '62 '1,)*-' D119.' 8*-*' *L,62,')6+ 25'62' *_;6/>/6?(8 ,)',)*' D11/ / 1' 8) >)' ,' .' >1?=1.*0' ,1' D*' -*56-0*0' 6.' 1 '0 + 2*'6;,)1- , ' ,' 81;/0' D*' 6D^ .;-0',1'>6//(,',)*' % 1' 6.' .,6206-0' 1 ,)*' 0 + 2*' >6.*,)*' 12*' >/6..' 1 'D119.' 81;/0' D*' _;,' *' 6.' 0*.*-+^ 25' 1 '1;-'-*+*-*2>*' 6.',)*' 1,)*-(% N(*.=*>, 25',)*' 'D ' 8) >)',)*' 6212' .' ,);.',1'D*' *.,6D/.)*0',)*-*' *L .,'>12. 0*-6D/*' 0 *-^ *2>*' 1' 1= 2 12' 6?1#5)-., 62. 1?*' >12,*20' 8 ,)',)*' 1?62 .,.',)6,',)*' 6;,)1- ,6, +*' 0*> . 12' 1' ,)*');->)' .'6/12*'>1?=*,*2,',1'0*,*-? 2*',)*' 6212 1,)*-.' 6==*6/,1',)*' *12>1--*2',*., ?12 '1',)*-*' B*8^ .)'620' *6-/ ')-., 62' 8-,*-.' 620' 1,)*-.' -*.,' ,)*' -.,-125*.,' -*/ 62>*' 12',)*' 2,*-26/ *+ 0*2>*' ;-2.)*0' D ',)*' D119.' 1' >- =,;-*',)*?.*/+*.(& *' >6221,' .6 ',)6,A8*' 6-*'.6,. *0' 8 ,)' 62 '1',)*-*.' 1 ;->*.' 1 '*+ ^ 0*2>*' *L>/;. +*/ (.' < >)6*/.' -*?6-9.',)*' -.,' .' 12*',1' 8) >)' 21' >12. .,*2,' -1,*.,62,'>62' 6==*6/' 1-',)*' ?6,,*-',1' D*' 0*,*-? 2*0' .' 1' .;>)' 6' 9 20',)6,' ;2/*.-' 8*' 5-62',)*');->)',1' D1' 2 6// D/*',' .' _;,*' ==1.. D/*',)6,'.)*' ?6 '6,'62 '5 +*2' =*- 10' 1')*-' *L^ .,*2>*' 0*,7? 21 l' *--12*1;./ 1' 620' 12*' .**.' 21,' 8) ',)*' _;*.,12' ?6 '21,')*' 6.' .;>>*.. ;// ' 2+*., 56,*0' D '6' =- +6,*' 20 + 0;6/ 6.' D '6');->)(( )*' >12>;-^ -*2,',*., ?12 '1',)*' 62> *2,' 8 ,2*..*.' .' 2+6/;6D/*' 6.' 6-'6.',' 51*.' D;,' ,' ?6 'D*' 01;D,*0' ' ,'D*' .;^ > *2,'1 ' .*/ ',6' ',) .' _;*., 12' 1-',)*' _;*., 12' .' 21,' 'D2*' 1' 6>,.' 620',*., ?12 ' .' 5110' =-11' 12/E7 1-' ! .' 1-',)*' 2,*-26/*+ 0*2>*' 12*' 2**0.' 12/E',1'/119' 6,',)*')6+1>' 8) >)' *?/*-' 620') .' .>)11/)6+*' ?60*' 1 I,)*' A6212',1' D*' .6, .*0',)6,' 8) *-*' 0!5?6, >6/' >12. 0*-6, 12.' 6-*' 6//18*0',1' 0*,*-? 2*' *L>/;.+*/ ' .;>)' _;*., 12. ' *6>)' ?62' 8 //*L,*20' 1-' >;-,6/',)*' 6212' .1' 6.',1' 60A;.,' ,' ,1').' 182' =-*>12^ >* +*0' 21, 12.(.',)*' _;*., 12' .' 12*' =6-,/ '1' 6>,' 620' =6-,/ '1' 1=2 12',)*' 6==-1=-6,*' 5-1;20.' 1 '0*^ >. 12' 8 //D*' D*.,' .*>;-*0' D '6' >1?D 26, 12' 1' 6,)*2^ ,>',*., ?12 '8 ,)',)*' *+ 0*2>*' .;==/*0' D ',)*' D119.' ,)*?.*/+*.(& *' 862,',1' 9218',)6,',)*.*' D119.' 8*-*' -*6// '8-.,*2' D ',)*' =*-.12.' 8)1.*' 26?*.',)*' D*6-' 8*' 862,',1' D*' .6, .*0',)6,',)*' .*' =-*.12.' 8*-*' >1?(,, 12/ '-*=;,*0' 620')*/0' D ',)*' + 2*' = -,' 2' 8)6,',)*' '8-1,*' 620' 8*' 862,',1' D*' .;-*',)6,' >6-*' 86.',69*2' D ',)1.*',1' 8)1?',)*-*' -' 8-,25.' 8*-*' -.' 6000' .)=;/0' D*' =-*.* -*0' *2, -*' 620' ;2>1--;=,(1-' 6// ,) .' 8*' ?;.,'6==*)/',1',)*',*., ?12 '1'>1?=*,*2,'8 ,^ 2*..*.' 6.',)*' 12/ ' .;,6D/*' *+ 0*2>*' 1-' .;>)' ?6,,*-(;,'6 ,.*-'8*')6+*'6.>*-,6 2*0',)*.*'=12,/6 -?6, +*^ / '8*' ,, //-*_;-*',1' D*' .6, .*0',)6,',)*')119.',)*?^ .*/+*.'>12,6 2'21,) 25'1D+ 1;./ 2>1?=6, D/*' 8 ,)',)*' 6.>-=, 12',1',/ *-'6;,)1-.'1',)*'0 + 2*'6.. ,62>*' D;7

2;*.' 1 ',)*'D .)1=- >'620'/ + 25' 2',)*' .6?*'D12.*' 6.') .'>1;2.*//1-.' 1-'01?*., >.' ( )* ' '*+*2' 2)*- .*0') .' ? ?1+6D/*.' , /' % ' Q ' 8)*2',) .' 86.' =-1) D ,*0'D ' ,)*' 1;2> /' 1 ' LC/6C)6=*//*' ' 0*5-**.' ,)*.-* >1? ?;2 , *.' 1 '=- *.,. ' .)69 25'1 ',)* -' 0*=*20*2>*' 1-?*0' .*=6-6,*'D10 *. ' 1 '8) >)',)*'D .)1=.' 8*-*' ,./ ,)*')*60' 2',)*',*2,)' >*2,;- ',)*-*' 8*-*' >1? ?;2 ^ , *.' 1 ',)*' .6?*' 9 20' *.,6D/ .)*0'*+*2' 2' > , *.' 8)*-*' ,)*-*' 8*-*' 21'D .)1=.'' ,)*.*' 8*-*' >6//*0' >1//*5 6,*. ' 6.',)*,*-? .' '>1//*5*77 620' '>125-*56, 12J' 8*-*' ;.*0' 20 *-*2,/ ' $20*-',)*' .*>120'-6>*' 1 ' -*2>)' 9 25.' ,)*' >6212 >6/' /*' .=-*60' 1+*-',)*' >1;2,- '620'*6>)' >6,)*0-6/)60',.' " % '0 ., 2>,' -1?',)*' -*.,' 1 ',)*' >/*-5 'M 6--6-',' ' '

22’ ;2. ; >>*.. ; / 6,,* ? =,’ 1 ’) .’ ,’1’ ?69*’ 62’ 6 ; ,) *2, >’ 4-**9’ 10*L’ -1 ?’ ,) *’ 1/0’ >1//*>, 12.’ 620’ < % K% 2’ ,) *’ ,)’ >*2, ; - ’ 8*’ 20’ ,) *’ ’ " "’ -*>152 [25’ ,) *’ 6 ; ,) 1- , ’ 1 ’ ,) *’ 4-**9’ >6212. ’ 620’ ,) *-*’ 6-*’ " ’ =- 2> =6/ >1//*>, 12.’ 1 ’ ,) * ? ’ + [%a M X’ ( ) *’ $% "’ 1-’ ’M*--12*1 ; ./ ’ .1’ >6//*0’ D*>6 ; .*’ 1 ; 20’ 2’ . 01-’ 1 ’ *+ //*.’ /6, *-’ >1//*>, 12X% ,’>12,6 2*0’,) *’ >6212.’ 1 ’ >*’ 2>A (6’ *1C ,*.6-*6’ 620’ 4 625-6% .’ ,1’ ,.’ 06, * ’ 8*’ 9218’ 1-’ >*-,6 2’ 12/ ’ ,) .’ ? ; >) ’ ,) 6, ’ ,) .’ ,-62./6, 12’ 1 ’ ,) *’ >*2*’ >6212.’ 86.’ 9218 2’ 2’ 4 6 ; / % % NR’ > !’ 5 1’ >% NX’ 620’ ,) 6, ’ 1 ’ ,) *’ 2> -62’ >6212.’ 86.’ _ ; 1, *0’ 2’ ,) *’ !’ 6% $ ’ % % S % ’ /6, *-’ ,-62./6, 12 ’ 600^ 25’ ,) *’ >6212.’ 1 ’ 2, 1>) ’ 12.,62, 21=/*’ 6 0’) 6/C >*012’ ,1’ ,) 1.*’ 6D1+*’ 26 ? *0’ 86.’ >1 ? = /*0’ , 186-0’ ,) *’ *20’ 1 ’ ,) *’ ,)’ >*2, ; - % ,’ 86.’ -. ’ = ; D/ .) *0’ -1 ?’ 62’ L 1-0’ < % ; 20*-’ ,) *’ , ,/*’ ’6 ’5 ’ M*0% 6.=) 6.% # ; *.2*// ’ 2’ , %%J 1’ 6-% S ’ ,% %X MKX’ ( ) *’ .1C>6//*0’ N ’1-’ % 1’ -. ,’=; D^ / .) *0’ D ’B ; . , *//: , ’ 2’ ,) *’ ; " *% !’ ’ ’K S’ -1 ?’ 62’ 2>1 ? =/*, *’ < % ’ 620’ 6 , *-86-0 ’ 2’ ? 1-*’ >1 ?^ =/*, *’ 1-? ’D ’ 6// *- 2 ’>L%%! ’ - ’ NX% MNX’ ( ) *’ , -62./6, 12’ 620’ >1//*>, 12’ ?60) ’ D ’ 12 ^ . ; .’ L 5 ; . ’ M % ’ %X ’ ?60*’ =-1D6D/ ’6, ’ 1 ?*’ , 186-0’ ,) *’ *20’ 1 ’ ,) *’ ,)’ >*2, ; -X % : *’ 6 , *-86-0’ M6D1 ; , ’ % % S HX ’ ?60*’ 6’ .*>120’ >1//*>, 12 ’ 600 25’ 6’ 2 ; ? D*-’ 1 ’ =6=6/ 0*>-*, 6/. % ( ) *. *’ 8*-*’ ? *-5*0’ 2, 1’ 12*’ 620’ ,) *’ ’ ,) ; .’ 1-? *0’ 86. ’ 5*2*-6// ’6>>*=, *0’ ,) -1 ; 5) ^ 1 ; ’ ,) *’) ; ->) % 1=*’ 0- 62’ M % % I’ X’ =-*. *2, *0’ 62’ *2/6-5*0’ >1= ’ 1 ’ , ’ , ’1’) 6-/ * ? 72* ’ 620’ , ’ D*>6 ? *’ ,) *’ D6. ’ 1 ’ ,) *’ -*2>) ’ >6212’ /68% 2’ ,) . ’ *2/6-5*0’ 1-?’ , ’ .’ 0*. 526, *0’ 6. ’ ,) *’ & = ’ ’ 10*L% , 7 6 ’ D*’ 1 ; 20’ 2’ ,) *’ ; "S’D !’ !’ ’ ’620’ 2’ < 52* .’ !’ !>1 S !’ Q Q’ +1/% L+ X % ’ & ! ’ % 2’ & ’ ,) *’ >*2*’ >6212. 8*-*’ . ; ==/*? *2, *0’ D ’ ,) 1.*’ 1 ’ 26, +*’ >1 ; 2> /. ’ *. =*^ > 6// ’ 1 ’ 6-,) 65*’ M % +%X% ; /5*2, ; . ’ *--620 ; .’ M % %X ’ 2’ ’ >1 ? =1. *0’ ,) *’ ; ’ 1’ 600 25’ - >62’ 0*> . 12. ’ ; =’ , 1’ K a’ , ’ 86. ’ = ; D/ .) *0’ D ’ ,D1 ; ’ M 6- . ’ Q : X ’ 620’ 2’ < 52* ’ !’ M Q Q ’ +1/ ’ L+ ’ =% R RX% -*. >12 ; . ’ 62’ - >62’ D .) 1= ’ 6D1 ; ’ R ’ ’ ? 62 ’ < % ’ .’ 0 + 0*0’ 2, 1’ ,) -**’ =6-, .% ( ) *’ -, ’ . . ; *0’ 6’ (’ ’ > ; (!’ D !’ !’ ’ == ’ =% ’ =6-, ’ .’ . ; D0 + 0*0’ 2, 1’ R8 > ’ 620’ *6>) ’ 1 ’ NNX% K!’ 2’ $% ’ 6’ 10*L’ *L . , *0’ 2’ ,) *’ . L,) ’ >*2, ; ^ ’ ,) *’ *’ 2, 1’ >6212. % ’ ,) *’ ’ Q ’ -*/6, *’ , 1’ ,) *’ - ’ 8) >) ’ 86. ’ 6 , *-86-0’ ,) *’ D6. .’ 1 ’ ,) *’ =. *; 01C . 01C />/*-5 ’ 620’ ,) .’ =6-, ’ 1 ’ ,) *’ D119’ .’ >6//*0’ D ’ 4-6, 62’ - 62’ *>-*, 6/. % 2’ ,) *’ . *+*2,) ’ >*2, ; - ’ , ’ 6. . ; ? *0’) ? . */ ’ - ’ f 6-, ’ >12, 6 2. ’ QS ,) *’ 1-?’ 2’ 8) >) ’ 8*’ 9218’ , ’ > ’ 6 ! ’ 1-’ =1 2, . ’ 1 ’ /68 ’ . ; D0 + 0*0’ 2, 1’ 4 ’ *6>) ’ # %! M<60- 0 ’ Q Q ’ 1/%X ’ 620’ =6-, ’ % 6% ’ =’ 1 ’ 8) >) ’ .’ 62. 8*-*0’ D ’ ! 6-, ’ ’ ’ ! ’ *, >% 5 ’ * ’ M<60- 0 ’ QK ’ 1/%X% ’ ’ >12, 6 2. ’ ,) *’ .6>-6 ? *2, . ’ 2’ +*’ ’ ! 2’ ,) .’ 81-9’ 4-6, 6-’ 21, ’ 12/ ’ ? 60*’ 6’ >1//*>, 12’ 1 ’ ,) *’ 0 *-*2, ’ >6212.’ 2’ 6’ >*-, 6 2’ 1-0*-’ D ; , ’ =-*. *2, *0’ 6// ,) *’ >6212.’ , -*6, 25’ ; =12’ 12*’ . ; D A*>, ’ ; 20*-’ ,) 6, ’) *60% ( ) *’ 1 "’" 6// , .’ .) 1-, >1 ? 25. ’ 1-’ , ’ 86. ’ 21, ’ *, ’ 6’ >1 ? =/*, *’ 81-9 ’ .112’ . ; =*-. *0*0’ 6// 1,) *-’ >1//*>, 12.% ; , ’ 8) 6, ’ ? 1. , / ’ / */=*0’ , 1’ 56 2’ 1-’ ,) .’ ’ ,.’ =1. , 12’ . ’) 6, ’ 4-6, 62 .’ >1 ? 2*>, 2’ 620’ */ ; > 06, 12.’ -*. ; /, *0’ 2’ ,) *’ 1-? 6, 12’ 1 ’ 6’ 2*8’ .>)11// 1 ’ >6212 . , .’ 620’ 0*>-*, 6/ . , .’ 6, ’ 1/1526% ( ) .’ ? 60*’ ,) *’ ’ 9218 2’ , 1’ 6// ,) *’ >) ; ->) *. ’ 620’ D-1 ; 5) , ’ 2, 1’ . ; >) ’) 5) *’ *. , ** ?’ ,) 6, ’ ,) *’ =1=*. ’ ,) *? ^ .*/+*. ’ _ ; 1, *0’ , ’ ,) 1 ; 5) ’ , ’ 86. ’ 21, ’ -*>* +*0’ D ’ ,) *? ’ " . ’ 62’ 1 > 6/ >10*L% K% , " ’ ’ ’ ? (’ O ! ’ ( ) *’ =6=6/ 0*>-*, 6/. ’ 6 , *-’ ,) *’ , 8*/ ,) ’ >*2, ; - ’ D*>6 ? *’ .1’ 6D ; 2^ 062, 12’ =1 2, .’ 1 ’ 0 .> =/ 2*’ ,) 6, ’ ,) *’ >1//*>, 1=’ 1 ’ 4-6’ 7620’ 2*8’ >1//*>, 12.’ 8*-*’ ?60*% & *’ ? *2, 12’ 12/ ’ ,) *’ * 5) ,) ’ >*2, ; - ’ 6/125’ 8 ,) ’ ,) *’ 0- 621C 12 C . 62’ ? *2, 12*0’ 6D1+*% 2’ ,) *’ 2 2,) ’ >*2, ; - ’ ? 62 ’ A M %X ( ) *’ ; ’ ’ 1 ’ *-26-0 ; .’ 1 ’ 1 ’ ,) *’ 1-5*0’ 0*>-*, 6/. ’ -1 ?’ ,) *’ =. *; 01C . 01-62’ >1/^ /*>, 12’ 8*-*’ ? 25/*0’ 8 ,) ’ ,) *’ 6 ; ,) *2, >’ >621=. % ( ) *’ >12 ; . 12’ /*0’ , 1’ .*+*-6/ 2*8’ >1//*>, 12. a’ M X’ ’ 2’ NQ ’ , ./*. ’ , 186-0’ ,) *’ *20’ 1 ’ ,) *’ * 5) ,) ’ >*2^ , ; - ’ ’ MKX’ ’ &’ + ’ M=*-) 6=. ’ 1 ’ ,) *’ D*5 22 25’ 1 ’ ,) *’ 2 2,) ’ >*2, ; -E X ’ MNX’ ,) *’ ’ 1 ’ D .) 1=’ : 6/ , . 56-’ 1 ’ 6 ? D-6B 7 % % RK % *. 0*. ’ ,) *. *’ ,) *-*’ 8*-*’ 2; ? *-1 ; . ’ . ? 6// >1//*>, 12. ’ >6//*0’ % ’ 6% =’ % ! ’ ,) .’ 81-9 ’ & (, ,*2’ D ’ *-26-0 ; . ’) ? . */ ’ 86. ’ 6==-1+*0 ( ) *’ 5-*6, ’ 2>-*6. *’ 1 ’ ,) *’ 81-/0/ ’ =18*-’ 1 ’ ,) *’ >/*-^ 5 ’ ; 20*-’ ,) *’ 6-/1+ 25 62’ 0 26. , ’ 2*>*.. , 6, *0’ ?1-*’ =1= 1 ; . ’ 620’ >1 ? =/*, *’ >1//*>, 12. ’ 1 ’ ,) *’ >6212. % ? 125’ ,) *’ ?1-*’ , =1-, 62, ’ 8*’ 26 ? *’ M X’ ,) *’ ’ & ’ MQQNCQR ’ K’ +1/. %X ’ 1 ’ , 6/ 62’ 1- 5 2% , ’ 2^ >/ ; 0*. ’ ,) *’ =. *; 01C . 01-62’ 0*>-*, 6/. ’ 620’ 6/. 1’ ,) *’ 2C ’ D ’ 8) >) ’ 1-’ ,) *’ -. ’ , ? *’ 218’ 6==*6-’ 2’ ,) *’ >6212’ /68’ >1//*>, 12. % MKX’ *5 2 .’ ’ ’ ’ $ " ’ ’ %! ’ 86. ’ >1 ? = /*0’ 6D1 ; ’ % % R S’ 620’ 2>/ ; 0*. ’ 6/. 1’ .1 ?*’ 1 ’ ,) *’ 6/. *’ 0*>-*, 6/. % ,’ .’ ? =1-, 62, ’ 1-’ , ’ 6>>1 ; 2, ’ 1 ’ ,) *’ 6>, . ’ 1 ’ 4*-? 62’ >1 ; 2> /. % ’ ’ M KC KNX ’ 2’ K ’) 119. % (1’ . , -*25,) *2’ / 5) , ’ 12’ ,) *’ . . 6, *’ 1 ’ .1> * , ’ 2’ ,) 6, ’ 65*% *+*-6/ *08’ , 12. ’ *L . , a’ ,) *’ /6, *. , ’ 2’ < 52* ’ ! +1/% ’ M 6- . ’ Q NX% M X’ ? =1-, 62, ’ % ’ >1//*>, 12. 1 ’ ,) *’ */*+*2,) ’ >*2, ; - ’ 6-*’ ,) *’ ’ % ’ ! ’ M6 , *-’ KNX ’ ,) 6, ’ 1 ’ & ’ ’ ’ MO *0’ QSX ’ 2’ N D119. ’ , 8 ’ >1//*>, 12. ’ 1 ’ ’ ; ’ *6>) ’ 3’ 2’ ’ D119. ’ M QSC Q X ’ 2’ 8) >) ’ ,) *’ +6/ ; 6D/* 1->) +*. ’ 1 ’ ,) *’ 6, *-62’ 8*-*’ *? =/1 *0% M X’ (1’ ’ ’ " ’ MO *0’ X’ , 81’ >1//*>, 12. ’ 6-*’ 6. >- D*0’ + [%a ,) *’ ; = ’ 2’ ’ D119. ’ 620’ ,) *’ ’ 2’ Q D119. ’ 1 ’ 8) >) ’ ,) *’ 1-? *-’ . ** ? . ’ , 1’ D*’ 6’ >1//*>, 12’ 1 ’ ? 6, *- 6/. ’ 1-’ ,) *’ /6, , *-% ( ) * ’ 6-> ’ 5 +*2’ D ’ < 52* ’ ! ’ +1/% >/L % ( ) *-*’ 6->’ .*+*-6/ 1,) *-’ < % >1//*>^ , 12. ’ 1 ’ ? 21-’ ? =1-, 62>*% % @ ’ " ’ - +’ ! ’ % ? (’ ( ) * ’ % 862, ’ 1 ’ 6’ >1//*>, 12’ >12, ; 2 25’ 6// >6212. ’ 620’ 0*>-*^ 6/. ’ 1 ’ 5*2*-6/ 2, *-*. , ’ 1 ? , , 25’ ? *-*/ ’ /1>6/ 12*. ’ 620’) 6+ 25’ 6’ 5110%6--625*? *2, ’ B=*562’ , 1’ D*’ ; 2 +*-C 1 .6/ 6D1 ; , ’ ,) *’ , 8*/ ,) ’ >*2, ; - % & . ’ 6’ ? 129’ 1 ’ ,) *’ >12+*2, ’ 1 ’ , % */ L ’ 2’ 1/1526 ’ ; 20*-, 119’ , 1’ . ; =^ =/ ’ , % : .’ 81-9’ .’ 218’ 9218 2’ 6. ’ ,) *’ ’ ’ ZH-6C ! ’ , ’ 86. ’ >1 ? = /*0’ -1 ?’ 6// =-*>*0 25’ D119. ’ 620’ ! ’ , ’ 86. ’ >1 ? = /*0’ -1 ?’ 6// =-*>*0 25’ D119. ’ 620’ 6 ; 2’ 8) >) ’ 86. ’ 6 , *-86-0’ ,) *’ D6. .’ 1 ’ ,) *’ =. *; 01C . 01C - 62’ *>-*, 6/. % 2’ ,) *’ .*+*2,) ’ >*2, ; - ’ , ’ 6. . ; ? *0’ ,) *’ 1-?’ 2’ 8) >) ’ 8*’ 9218’ , ’ > ’ 6 ! # %! M<60- 0 ’ Q Q ’ 1/%X ’ 620’ =6-, ’ % 6% ’ =’ * , >% 5 ’ * ’ M<60- 0 ’ QK ’ 1/%X% ’ , ’ >12, 6 2. ’ >6212. ’ 1 ’ ,) *’ 4-**9 ’ - >62’ -*2>) ’ 620’ =62 .) ’ >1 ; 2> /. ’ 620’ . 210. ’ 8 ,) ’ 6=6/ 0*>-**. ’ -1 ?’ 6 ? 6. ; .’ , 1’ 4-*51- ’ % ’ 01*. ’ 21, ’ 6==*6-’ ,) 6, ’ . ^ 01-’ 1 ’ *+ //*’ -*6// ’) 60’ 62 ’ .) 6-*’ 2’ =-*=6- 25’ ,) *’ >1//*>, 12’ 8) >) ’ 6 , *-’ ,) *’ 0 .>1+*-E C 1 ’ ,) *’ -6 ; 0 ; /*2, ’ 0*>-*, 6/. ’ M. **’ + $ 4? 3’ 86. ’ 9218 2’) ’) .’ 26 ? *’ ’ 2*8’ *0 , 12’ 1 ’ ,) *’ -6 ; 0 ; /*2, ’ 0*>-*, 6/. ’ 6=^ =*6-*0’ 2’ QSN’ + [%’ ’ ’ 1- ’ *, >% ’ *0% 6 ; / ; . ’ : 2. >) ; . ’ M * =. > ’ K’ +1/. % Q+1X% N ’ 2’ ,) *’ ; "’ ’ 620’ 2’ ,) *’ & U"$) ; ->) ’ 26, +*’ >6212. ’ =-*+6 /*0’ 1 ’ 8) >) ’ 8*’) 6+*’ 21’ *6-/ ’ -*>1-0. % >) *- ’) 6. ’ 56,) *-*0’ ,) *’ -65 ? *2, . ’ 1 ’ 62’ "’ 10*L’ 1 ’ ,) *’ * 5) ,) ’ >*2, ; - ’ 2’) . ’ $% =’ ’ ’ R ’ . _ % ’ 8) >) ’ >12, 6 2. ’ 4-**9 ’ - >62 ’ 46// >’ 620’ =62 .) ’ >6212. ’ 6. ’ 8*/ ’ 6. ’ 26, +*’ 12*. % *’ 6/. 1’ =*/ ? 62 ’ ’ " ’ ! ’ ’ ! ’ ; =’ ’ M 120 ’ SNRC7 ’ K’ +1/. % 1/%X% ’ , ’ 62 ’) 18*+*-’ >1 ? =/*, *’ 6, ’ -, ’ .112’ >*6. *0’ , 1’ D*’ . 1 7 2’ @ ’ ,) *’ =62 .) ’ >1//*>, 12’ >6 ? *’ 2, 1’ ; .*’ 2’ ,) *’ >1//*>, 12’ 8*-*’ ? 25/*0’ 8 ,) ’ ,) *’ 6 ; ,) *2, >’ >621=. % ( ) *’ >12 ; . 12’ /*0’ , 1’ .*+*-6/ 2*8’ >1//*>, 12. a’ M X’ ’ 2’ NQ ’ , ./*. ’ , 186-0’ ,) *’ *20’ 1 ’ ,) *’ * 5) ,) ’ >*2^ , ; - ’ ’ MKX’ ’ &’ + ’ M=*-) 6=. ’ 1 ’ ,) *’ D*5 22 25’ 1 ’ ,) *’ 2 2,) ’ >*2, ; -E X ’ MNX’ ,) *’ ’ 1 ’ D .) 1=’ : 6/ , . 56-’ 1 ’ 6 ? D-6B 7 % % RK % *. 0*. ’ ,) *. *’ ,) *-*’ 8*-*’ 2; ? *-1 ; . ’ . ? 6// >1//*>, 12. ’ >6//*0’ % ’ 6% =’ % ! ’ ,) .’ 81-9 ’ & (, ,*2’ D ’ *-26-0 ; . ’) ? . */ ’ 86. ’ 6==-1+*0

1 ',)*' 25/ .)') ;->)% ()*'/*56,/+*'>12.., ,;, 12.'38*-*' *>>/*. 6., >6/'68.'*26>,*0' 2' 26, 126/. 210.')*/0';2^ 0*-',)*'>6-0 26/.' ,)1'620' ,)1D12'/*56,*.' -1?' 1=*' 4-*51- ' d' 620' 1=*' /*?*2,' ' 2',)*' -* 52' 1 ' 9 25': *2- ' '6D1;,',)*'Æ7*6-.' KK '620' KSQ% ()*' % " '>12.., ,;, 12.'6-*' =- 2> =6// ',)*'0*>-**.' 1' =-1+ 2> 6/. 210.')*/0';20*-'0 +*-.' ->)D .)1=.' 1 ' 62,*-D;- ' -1?' ,*=)*2' 625,12' 2',)*' -* 52' 1 ' : *2- ' ',1': *2-AJ) >)*/* ' 2',)*'-* 52' 1 ': *2 7 1-'>6212.' 8 ,)1;',)*' 9 25 .' 6..*2,%J' ()*' -.,' D119' 620' 601=,*0' 6/.1' D ',)*' =-1+ 2>*' 1' 1-9' 2',)*' -* 52' 1 ': *2- ' % ',)*'0682'1',)*' : * 1-?6, 12' 2',)*'-* 52' 1 ': *2-E' ',' 86.'*26>,*0' 2' 6-/ 6^ ?*2,',)6,' 6'-*+ *8' .)1;/0' D*')60' 1',)*' >6212' /68 1' 620' ,/' .;>)'-*+ *8' .)1;/0' D*' ?60*' 6// >6212.' >12^ .,,;, 12.' 1-0 262>*.' 620' .A?106/.' =-1+ 2> 6/' D* 25' ,)*2' 6/-*60 ' ?60*' 620' 21,'-*=;5262,',1',)*' /68' 1' ,)*' /620' 1-',)*' 9 25 .'=-*-156, +*' .)1;/0'.,//' D*' ;.*0' 620' *L*>;,*0% 20' 6.' 21' .;>)'-*+ *8')6.' *,' D**2' =*- *>,*0' ;=12' ,) .' *26>,?*2,' 218' 0*=*20.',)*' 6;^ ,)1-,'1',)*'>6212' /68' 2' 25/620',)*'/ ?,6, 12.'1' 8)>)'6==*6-' ;=12',)*' 8)1/*',1' D*' 6.' 1//18.á,)6,' 21' >6212' >12,-6-',1',)*' >1?'12' 1-'%.,6,;,.*' /68' 1-' ,)*'=-*-156, +*'-1 6/' .'1'62' +6/0 , '),)6,' .;DA*>,' ,1',) .' >120 , 12',)*'>6212.'?60*' 62,*- 1-',1',)*'=6-^ / 6?*2,6-'=-1+ .12'6D1+*'?*2, 12*0'620'601=,*0' 2' 1;-' P,*?'M 1-',)*-*'6-*' .1?*' 8)>)')6+*')60' 21' -*^ >*=, 12' 6?125';.X' 6-*' D 20 25' D1,)' 12' >/*-5 ' 620' /6 , ' D;,' ,)6,' >6212.' ?60*' . 2>*',)6,' =*- 10' 620')6+ 25' 21' .62>, 12' -1?' ,)*' 6-/ 6?*2,' 6-*' 6.' -*^ 56-0.',)*'/*6.,'6 ,A'6,'/*6.,'1'21' 1->*% *>' ' ' 0%>' ' $ ' ' > ! * 1-*',)*' * 1-?6, 12'0*5-**.'8*-*'6.' -*_;*2,' 2' ,)M7>6212' /68'6.' 2',)*'> + /'/68% <62 '=*-.12.' D*^ >6?*'502;6,*.' 2' D1,)'1-'A;-.';,-;_;*' 01>,1-*.' 620',) .'0*5-**' .'., //'>1?[212' 2' 1-* 52';2 +*-.,*.% ;,' : *2- ' ' 2',)*',8*2, C.*+*2,)'A7*6-'1')' -* 52' ..;*0'6' ?6206,*',1',)*' $2 +*-.,'1' 6?^ D- 05*',1',)*' * *>,',)6,' 21' /*>,;-*.' 12' >6212' /68' .)1;/0'D*'-*60'620'21'0*5-**' 8)6,*+*-' 2',)6,' 6>;/,A7 >12 *--*0' 2',)*';2 +*-.,' 1-',)*' ;,;-*% ',' .'=-1DC 6/%/*',)6,' L 1-0'-*>* +*0'6'. -2 /6-'=-1) D , 12'6D1;' ,)*'.6?*', ?*'6.'0*5-**.' 2'>6212'/68')6+*'+*+-'. 2>*' D**2' 0 .>12, 2;*0' 2' 25/620'M *22 ' "% 1'+ ' K X% 2' >1,/620' -*.D ,*- 62',)1;5)',)*'*>>/*. 6., >6/ . .,*?'1',)6,'>1;2,- 'D1',)*'1/0' 1?62' >6212'/68' ., //'=-*+6/.',1'6'>*-,6 2'*L,*2,% 1'0**=',)6,)',' >6212'/68' D**2' -11,*0 J' 1D.*-+*.' 1-0' ,6 -' 2').' D ' '"' $ "' 1' I',)6,'*+*2' 8)*-*',)*' =1=*.'6;,)1- , ' .'-*%*>,*0' *,'>12. 0*-6, 12' ?;.,'D*')60',1',)*.*'/68.'21,'12/'6.',)1.*'D '8)>)');->)' D*2* >*.')6+*' D**2' *-*>,*0' 620' 1-0*-*0' D;,'6.' / 9*^ 8.*'>12,6 2 5' ?62' *_; ,6D/*' 620' =-1 ,6D/*' /68.' 8)>)'D*>6;.*' 1',)*-' 8* 5),' ?6,,*-' 620',)*-' D*^ 25' 12>*' -*>* +*0' ?6' ?1-*' D*' -*,6 2*0',)62*0',)62'-*^ A*>,*0%J' 2',81'1/0' >1,>)'6>,.'1' 6-/ 6?*2,' ?60*' 2' >12A;2>, 12' 8 ,)',)*' 1?62'/68',1'0*21,*',)*'>1?'?12'/68'1',)*' >1;2,- ',)*'*L=-*.. 12';.*0'D* 25' ',)*'>1?'?12'/68' D6 ,)'>6212'>+/'620'.,6,;,.*.'1',)*'-*6/?>J'M)6?^ D*-.'6 * % 1'.%+%X% 2',)*'$2,*0' ,6,*.',)*' 1?62' 6,)1/>');->)'.' -;/*0'D',)*' 1?62'>6212'/68' 620'6/.1'D',)*'0*21,*',)*'>1?'?12'/68' 1',)*' -*5;/6, 12.'.*,' 1-,)'D',)*'D.)1=.' .;DA*>,',1',)*'-*^ + . 12'1' 1?*% **'12',/*'.;DA*>,'1',) .'6 >/*'5*2*-6// ',)*' 1/^ /18 25' 6;,)1-,*.'1'+[15' 5 =6 2 % 1'+ ' N N._%' /6>9.,12*' 1' 'QN' 2 5),' 1' ' 1'.%+%' *21;L'-" '$ 4 1' ' K '._%' ;22 25)6?' '-" !'6 + % 'g' K' & 6/,*-' @ '* '6 'M 122' QSKX' 1*)?*-' =' !'D ' 'M:6/% ',)'>O%X% ' (: ' : $:' ' 4 % ()*'6;,)1-,'1',)*' 25/.)'>6212.'-*.,.' ;=12' ,)*' .,6,;,*'K' :*2- ' '>1?'?12/'>6//*0',)*'6>,'1 .;D? .. 12'1',)*'>/*-5A'D '8)>)',)* '6>9218/*05*0' ,)6,',)*'>12+1H6, 12')60' D**2' 6/86 .' 6..*?D/*0'D' ,)*'9 25 .'8-,' 620',)*'=-1? .*0' ' ' 1' 21,',1'6,,*?=,'>/6?'1-'=;,'2' ;.*'1-'*26>,'=-1C ?;/5*'1-'*L*>;,*'62'2*8'>6212.'2'>12+1>6, 12' 8 ,)1;,',)*'9 25 .'6..*2,'1-'/>2*.*% ()*2' 1//18.' ,) .' *26>, 25' >/6;.*'+ [%á ()6,',)*' .)6//' 21,' 6,^ ,)*=,'6//*5*'1-'>/6?'1-'=;,'2';.*'62'>12., ,;, 12.' 1-'>6212.'8 ,)1;',)*'9 25 .'6..*2,%J' ()*' -.,' D119' 1-' 25/.)'>6212.'86.' =;D/.)*0' 2' 6, 2' 2' 6->)D.)1=' 6-9*-'620',)*'D.)1=.'1' /A!'620' & 2^ >)*..*-'D* 25',)*'=- 2> =6/'65*2,.' 2',.'>12.,-;>, 12' ,)1;5)' 6//',)*'D.)1=.' 2'D1,)'=-1+ 2>*.' 2'.A?10' 2' ,)*-' 182'=*-.12.' 1-' *' -1L ' . 52*0' ,%J' ()*.*' >6212.';20*-8*2,'+6-1;.'?10 >6, 12.';2, /' 2' S 7 D.)1=' 62>-1 ,'>1//*>,*0'6');20-*0'620' 1-,7C12*' >62^ 12.'1;,'1',)*'6-, >/*.' 2A;2>, 12.'620' . 210>6/6>,.' =6..*0'620'=;D/.)*0' 2',)*' 52.'1' 086-0' 620' / [6D*,)'8)>)'8*-*'601=,*0'D',)*' 12+1>6, 12'1' ,)6,' *6-% ()*.*' >6212.'8)>)'6,' -.,'6==*6-*0' 2' 6, 2'8*')6+*' 2' 25/.)';20*-',)*',/*'1' ' 12.,^ ,;, 12.'620' 6212.' >>/*. 6.,>6/%J' ()*'>10*'1'>62^ 12.'86.'6?=/ *0' 2' S S'620' 26// ''>1?=/*,*0'D' ,)*'600, 12'1'.*+*2,**2'?1-*' 2' S % ()*' '01'21,' >12., ,;,*,)*'/68'1',)*'/620'D*>6;.*',)*' 8*-*' 21,' >6?*'=;-.;62,',1',)*'-*' .,6,;,*' K' :*2-A7 B' .2>*',)*' 8*-*'?60*' 2'6'>12+1>6, 12'. ., 25'D',)*'9 25 .' 8-.',1',)*'6->)D.)1=.'6 ,*-',)*' 6-/ 6?*2,'86.'0 .^ .1/+*0% ,*-',)*' *.,1-6, 12'8)*2'62'6>,'86.'=6..^ *0',1'-*..,1-*',)*'D.)1=.',1',)*-'1-0 26-AC'A;-.0>, 12' 6'=-1+ .1'86.'?60*',)6,',D* 6>,'.)1;/0'21,'>12 -?',)*' >6212.'1' S % ().'>/6;.*'?09*.'+1 0',)*' -1 6/ >12 -?6, 12% :*2>*' 8*' ?6 '>12>/;0*',)6,'>6212.' .)1;/0'D1'?60*' 2'6'>12+D>6, 12',)*' 6-/6?*2,',^ , 25'T',)6,'D* 25'.1'?60*',)*'6->',1'D*'>12 -?*0'D' ,)*' .1+*-* 52'T 600',)6,' 8 ,)1;',.;>)'>12 -?6, 12' ,)*'01'21,'D 20',)*' ?;>)'/*..'62'1-0*-'1-'-;/*' ?60*'"'6'D .)1=' 6/12* '8)*-*',)*-*' .'2* ,)*-'>;.,%?' 21-'>6212'1-' *' ;-2'6 1' ,1'+1/% +% ()*'>6212.'6-*'6/.1'5+>2'D ':6?? 120' -" ' ' * ' '@ "' ' U'' % 1'*,>% M *8' 1-9' Q ' K?1X% *' 6-08*//' $ M L 1-0'KQ K'K+1/.%Q+1X' :6//'" 4 *' " ' ' '& 'M 12012X' 0*2' " "' ' '.%+%' :119' " " ' '.%+%' *'>' ' '$ ' % ' (: ' (((' ' : $:'M1' ?*->6X',)*'/68'1-'O .> =/2*' 1',)6,');->)% ()*'>6212.'6-*'1',81'9 20.á M %X' ()*'>12^ .,,;, 12'620'>6212.'1',)*' 4*2*-6/ 12+*2, 12' 1-?^ 25' 6'>10*' 1-',)*';2 MT-?'51+*-2?*2,'1'*+*- '0 1C-' >*.*' 620'*+*-'>),;->)TJ' MK%X ()1'>12.,.;, 12.'620' >6212.'1',)*' .*+*-6/ 0 1>*>.'1'1->*' 12/'8,)2' ,)*-'.*+*-6/ =->2>,.'620'5*2*-6// '.;D*-0 26,*',1' ,)*'=18*-'1',)*' 4*2*-6/ 12+*2, 12%J' ()*'>6212.' 6-*'/6D/*',1'D*'-*=*6/*0'1-'6/,*-*0' P',)*'.;>>*.. +*' 12+*2, 12.% ()*'6-*'5+*2'" ' : 6?? 120' ' =' ' '@ "' ' ' ' % 'M % 1-9' Q ' =% KQN._%X% ()*-*' .'6/.1'6' ' ' "' ' ' D' -% ': 689.'620'B;05*' :1 ?62'M % % QS XT' .*** 6/.1' :1 ?62' - ' ' + ' ' " ' '6% 9 % ' " "' M % 1-9' Q XT' ' '? ' ' '" ' '6% % ' " " '601=,^ *0'2',)*' 4*2*-6/ 12+*2, 12.'1' Q 7SK'620' QS' M 1.,12' QSS' Q+1X% **' + ' > / / ' ' $ '! ' 4$ '6'>/6..'1'?126., >'1-0*-.' 2',)*' 1?62' 6,)1/>');->)' ()*'>/6..'>1?=-.*.' ,)1.*'>6212.'M_%'+%X'8)1'21,'12/7'/+*' 2'>1?? 12'620' ;20*-',)*'.6?*-;/*'D;,'6/.1'D 20',)*?.*/+*.'" '*,)*-' .?=/*'1-'.1/*?2' H '620'8)>)',-*-1-*'-*6// '>12., ^ ,;,*'8)6,'.'>6//*0'2',)1'1?62');->)'6'-*/5 1;.J' 1-0*-'M.**' < ' $ 3!' ()*' >6212.J' 18*' ,)*-'1-5 2',1')-10*5625'M_%'+%X'8)1'*.,6D/.)*0' ,)*?'12'6'?126., >'D6..'!D;,'6 ,*-',)*'.*2,)'>*2,;-' ,)*'>1??12'/*D*562',1'>*6.*'6?125'6'/6-5*'=1-, 12' 1',)*?%' 2',)*'*/*+*2,)'620',8*/ ,)'>*2,;-*.'?62

F && & OQ M



2+19*') ? ' 620',1' >*/*D-6,*' ?6..' 620' 62' 1 >*' 2') .' =;-56,1- ' 21-' ')*' D*' 6' D6=, [*0' 2 62,' 0*60' D* 1-*')121-%J' 2',)*' ? 1'") ;->)',)*' >*-*?12 ' 1 '>6212^ -*6>) 25' *6-.'1 '0 .>-*, 12 'L>*=,' 2'>6.*.' 1 '?6-, -^ [6, 12' ,69*.' =/6>*' 12/ ' 2',)*' =-*.*2>*' 1 ',)*' =6,- ^ 01? ' ()*' 6>,' 1 ' ='=-*>*0*.' .),6,' 1 '>6212^ 6->) ' 8)1')6+ 25' 6..*?D/*0') .' D .)1=.' 1-' ,) .' =;-^ [6, 12%' *'' 8 ! =1.*' 2' . 210' >6; .*.' ,)*' ,*., ?12 *.' 1 ',)*' 8 ,2*. .*.' ()*' 6>-*0' =, >). ' 1-' & '$ 1' 1-' *-*>, 25' 1-^ 2' 67I -' 1 ',)*' =*-.12',1' D*' >6212 [*0',1' D*' *L6? 2*0% ' ,)1; .620' 8 ,2*. .*.' 6-*' -*_; -*0% ()*' ,-1; D/*' 620' 6,1- *.' 1'>) ;->)*.' ;20*-',)*' 2+1>6, 12' 1 ',)*' .6 2,%' 6,1' 1 ' >*-*?12 *.' *L=*2.*' 2> 0*2,',1',) .' =-1>*..' 6->' .1' 5-*6,',)6,'>62^ 6212 [*0' 2' KSR' ,)*-*' 0 *0' 6,' *--6-6' 6' 8*6/,) ' 8 ,)',)1' D*' ;/0//*0' D ' =;,, 25',)*' 26?*' 1 ',)*' .6 2,' 12',)*' 12 [6, 12.' 2',)*' 6.,'6-*' *8% 27,2,/A ,D*'-*+*-*2>*' 0;*',1' .6 2,.J' 86.',)1;5),' 6>-*0' =, >). ' 1-' & '$ 1' 1-' *-*>, 25' 1-^ >)6- , *.' *20*6-*0') ?' ,1',)*' =11-' 8) /*') .' 6; ..,*-*' 6,1- *.' 1'>) ;->)*.' ;20*-',)*' 2+1>6, 12' 1 ',)*' .6 2,%' 620' *L*?=/6- '/ *' =-1>;-*0') ?' 6' 5*2*-6/ -*=;,6, 12' ' 6212 [6, 12' 2',)*' 1?62' .*2.*' 86.' 21,'9218 2' D*^ 620' *L*2=*6-*0',1' D*' 12',)*' =1=*' 6-*' *-*>,*0' 2') .')121-' 1-*' ,)*' ,*2,)' >*2,;- ' D;' .1?*')1/0' ,)6,' ,)*' -.,' ,)-1;5)1;',)*' >);->)*.' 1 ',)*' 0 1>*.%' ()*' D .)1=' >6212 [6, 12' 7.' >*/*D-6,*0' D ' *1' : ' % %' Q T' 620' -1?',)*' >/1.*' >1--*.=120*2>*' 1 ',.' >*-*?12 *.' 620' >)6=,*-' 1 ' *--6-6' 6' 8*6/,) ' 620' -1?',)*' >/1.*' >1--*.=120*2>*' 1 ',.' >*-*?12 *.' 8 ,)',)1.*' 8)>)' 8*-*' =*- 1-?*0' 6,',)*' 6=1,)*1. .' 1-' 620' 12' 2',)*' 1?62' .*2.*' 86.' 21,'9218 2' D*^ 620' 60?2.,*-*0',)*' 8 ,)',)1.*' 8)>)' 8*-*' =*- 1-?*0' 6,',)*' 6=1,)*1. .' 1-' D.)1=% ()' *0>,' 1>>6. 12*0' 6' 2*8' 6>>*.. 12' 1 ' 0* >6, 12' 1 ',)*' 62> *2,' 1?62. ' ,' .' 8 ,)' 5-*6,'=-1D^ =18*-',1',)*' 1?62' =12, '6.' ;' ;/, ?6,*/ '+*.,*0' 2' 6D / , ' .;==1.*0',1' 0*- +*' ,.' 1- 5 2',)*2>*% 2' >12^ 6D*' 5*.',)*' >6212 [25' 1 '62 '0*>*6.*0')- ., 62' 1 ',)*' ?;/, =/ >6, 12' 1 ' .6 2,.' 0;- 25',)*' .*_;*2>*' 1 ',)*' ?;/, =/ >6, 12' 1 ' .6 2,.' 0;- 25',)*' 86.' =-1) D ,*0' D ' 6' .1/*?2' 1-0 262>*' 2',)*' 2 2,)' 6-9' 5*.',)*' >6212 [25' 1 '62 '0*>*6.*0')- ., 62' 1 ',)*' ?->2*,;- ' ;2/*.' ,' 8*-*' 012*' 8 ,)',)*' >12.*2,' 1 ',)*' 86.' =-1) D ,*0' D ' 6' .1/*?2' 1-0 262>*' 2',)*' 2 2,)' >*2,;- ' ;2/*.' ,' 8*-*' 012*' 8 ,)',)*' >12.*2,' 1 ',)*' D .)1=% ()' *0>,' 1>>6. 12*0' 6' 2*8' 6>>*.. 12' 1 ' =18*-',1',)*' 1?62' =12, '6.' ;' ;/, ?6,*/ '+*.,*0' 2') ?',)*' *L>/;. +*' - 5),' 1 '>6212 [25' 8)1?.1*+*-')*' =/*6.*O%% B1)2' d ' 86.',)*' -.,' =1=*' 8)1' *L*-> .*0' ,) .' 6..; ?*0' - 5),' 620' 8)1' 2',)*' *6-' RR ' 7 ,)' 5-*6,' 1-?6/, ' *2-1//*0' $06/- >' D .)1=' 1 ' ;5.D;-5' 6?125',)*' 2; ?D*-' 1 ',)*' .6 2,.% * 1-*' 6' D*6, *0' =*-.12'>62'D*'>6212 [*0' 1;-'>12. .,1- *.' 6-*')*/0% 2' ,)*' -.,',)*' =1=*' >6;.*.',)*' =*, , 12' 1 ',)*' =6-, *.' -*^ _;*., 25',)*' >6212 [6, 12',1' D*' *L6? 2*0' D ',)-*' 6;0 ,1-.' 1 ',)*' -1,6' 620' 0 -*>,./ *' >6-0 26/.',1' -*+ .*' 6//,)*' 2*>*..6- ' 2..-;?*2,.' 2',)*' .*>120',)*' >6-^ 0 26/.'-*=1-,',)*' ?6,,*-',1',)*' 1?62' =12, ' 2',)*' ,) -0' 8) >)' .' 6' =; X/>' >12. .,1- ',)*' >6-0 26/.' =6 ',)*' -' 601-6, 12',1',)*' =1=*' 2*' =*-.12' >6//*0',)*' 0*+ / .' 60+1>6,*' .6 .' 6// D*' >62' 656 2.',)*' =*-.12',1' D*' >6212 [*0' -6 .*.' 01;D,.' 12',)*' 5*2; 2*2*..' 1 ',)*' ? -6>/*.' .6 0',1' D*' 8-1;5),'D ') ?' 620' *L=1.*.' 62' 862,' 1 ' 1-?6/, ' 2',)*' =-1>*0;-*' ,' .' .6 0',),6,' ,)*' 25*2; , ' 620' */1_;*2>*' 1 ',)*' 0*+ / .' 60+1>6,*' 2*6-/ ' =-*+*2,*0',)*' >6212 [6, 12' 1 '>6-0 26/' 1--1' ?*1' 2',)*' .*+*2,**2,)' >*2,;- ' ;' 621,)*-' 60+1^ >6,*' ?69*.' 6' =1?=1;.' 1-6, 12' 2' =-6 .*' 1 ',)*' =*-.12' 8)1% .',1' D*' >-*6,*0' 6' .6 2,' 2' 8)>)')*' /6-5*/ ' *L^ =6, 6,*.' 12',)*' ? -6>/*.' .6 0',1')6+*' D**2' 8-1;5),'D ') ?' 620' *+*2' =-*,*20.',1' 9218' -1?' 8)6,' ?1, +*.') 6>,*0' 2',)*' 1;-,)' 620' /6..' >12. .,1- ',)*' =1=*')6+ 25' >12+*2*0' 6//,)*' >6-0 26/.' 1-0*-.',)*' -*=1-' >12>*-2 25',7*' 0*>*6.*0',1' D*' -*60' 620',)*2' =-1>**0.',1',69*',)*A-' +1,*.' 8)*,)*-')*' .',1' D*' >6212 [*0' 1-' 21,%' -*+ 1;./ ',1' =-121;2> 25',)*' .*2,*2>*' 0*>/6-^ 25',)*' D*6, *0' =6-, ',1' D*' 6' .6 2,',)*' =1=*' ?69*.' 6' .1/*?2' =-1,*.,6, 12',)6,' D ',) .' 6>,' 1 '>6212 [6, 12')*' 01*.' 21,' 2,*20',1' 01' 62 ,) 25' >12,-6- ',1' 6 ,)' 1-',1',)*' 1/ >' \ 1? .)h);->)' 1-',1',)*')121-' 1' 41%B% 2',)*' 06 ' 6==1 2,*0' 1-' ,)*' >*-*?12 ' ,)*' >);->)' 1 ' ,% *.*-' 6,' 1?*' .') ;25' 8 ,)',6=*.,-' 12' 8)>)' 6-*' *?D/6[12*0',)*' 6-?.' 1 ',)*' =1=*' 620' 1 ',)*' .1+*-* 52' 1 '=- 2>*' 8)1' 0*. -*.' ,)*' >6212 [6, 12' 620' .' 6/.1' D- // 62,/ ' //; ? 26,*0% ()1;.620.' 1 ' 0*+1;,' ?*? A*-.' 1 ',)*' 1? .)' >1? ?;2 12' //',)6,' >6=6> 1;,' *0 >*' *65*-',1' =-1 ,' D ',)*' 2,*->*.. 12.' 1 ',)*' 2*8' .6 2,' 8 ,)',)*' /? 5),E% ,:-25',)*' >*-*?12A' 1' 6212 [25' ,)*' =1=*' 620' >6-0 26/.' 6-*' 6//' 0-*..*0' 2' 8),*% ()*' *L=*2.*.' 8)>)' 6-*' +*- ' >12. 0*-6D/*' 6-*' 0* -6 *0' D ',)*' -1 6/ 1-' =- 2>*/ ' =*-.1265*' 6,' 8)1.*' -*_;*.',)*' D*6, *0' =*-.12' .' *2-1//*0' 6?125',)*' .6 2,.' ()*' >1.,' 1 '>6212 [25',)*' .6 2,.' *0-1' 0*' />62,6-6' 620' <6-6' <6006/*26' 0' 6[[' ;20*-',)*' =12, >6,*' 1 ' /*?*2,' dF' 6?1;2,*0',1' . L, C 1;-',)1;.620'.>;0 J' M1-' 01//6-.X' M 60 *' 6 !' ' !' .%+%X% 1' =*-.12' >62' D*' 6212 [*0';2, /' 6,' /*6.,' ,' *6-.' 6 ,*-' 0*6,)' 21-' ')*' D*' D*/ *+*0',1')6+*' =6..*0' 2,1 6 ,*-' 0*6,)' 21-' ')*' D*' 6' D6=, [*0' 2 62,' 0*60' D* 1-*' -*6>) 25' *6-.'1 '0 .>-*, 12 'L>*=,' 2'>6.*.' 1 '?6-, -^ 01?' ()*' 6>,' 1 ' ='=-*>*0*.',)6,' 1 '>6212^ 6->) ' 8)1')6+ 25' 6..*?D/*0') .' D .)1=.' 1-' ,) .' =;-^ =1.*' 2' . 210' >6; .*.' ,)*' ,*., ?12 *.' 1 ',)*' 8 ,2*. .*.' 2' 67I -' 1 ',)*' =*-.12',1' D*' >6212 [*0',1' D*' *L6? 2*0' D ',)-*' ,)1; .620' 8 ,2*. .*.' 6-*' -*_; -*0% ()*' ,-1; D/*' 620' *L=*2.*' 2> 0*2,',1',) .' =-1>*..' 6->' .1' 5-*6,',)6,'>62^ 12 [6, 12.' 2',)*' 6.,'6-*' *8% 27,2,/A ,D*'-*+*-*2>*' 0;*',1' .6 2,.J' 86.',)1;5),' ,1' D*' ;/0//*0' D ' =;,, 25',)*' 26?*' 1 ',)*' .6 2,' 12',)*' 6>-*0' =, >). ' 1-' & '$ 1' 1-' *-*>, 25' 1-^ 6,1- *.' 1'>) ;->)*.' ;20*-',)*' 2+1>6, 12' 1 ',)*' .6 2,%' 6212 [6, 12' 2',)*' 1?62' .*2.*' 86.' 21,'9218 2' D*^ 1-*' ,)*' ,*2,)' >*2,;- ' D;' .1?*')1/0' ,)6,' ,)*' -.,' >6212 [6, 12' 7.' >*/*D-6,*0' D ' *1' : ' % %' Q T' 620' -1?',)*' >/1.*' >1--*.=120*2>*' 1 ',.' >*-*?12 *.' 8 ,)',)1.*' 8)>)' 8*-*' =*- 1-?*0' 6,',)*' 6=1,)*1. .' 1-' 0* >6, 12' 1 ',)*' 62> *2,' 1?62. ' ,' .' 8 ,)' 5-*6,'=-1D^ 6D / , ' .;==1.*0',1' 0*- +*' ,.' 1- 5 2',)*2>*% 2' >12^ .*_;*2>*' 1 ',)*' ? ;/, =/ >6, 12' 1 ' .6 2,.' 0;- 25',)*' 6-9' 5*.',)*' >6212 [25' 1 '62 '0*>*6.*0')- ., 62' 1 ',)*' ?->2*,;- ' ;2/*.' ,' 8*-*' 012*' 8 ,)',)*' >12.*2,' 1 ',)*' D .)1=% ()' *0>,' 1>>6. 12*0' 6' 2*8' 6>>*.. 12' 1 ' =18*-',1',)*' 1?62' =12, '6.' ;' ;/, ?6,*/ '+*.,*0' 2') ?',)*' *L>/;. +*' - 5),' 1 '>6212 [25' 8)1?.1*+*-')*' =/*6.*O%% B1)2' d ' 86.',)*' -.,' =1=*' 8)1' *L*-> .*0' ,) .' 6..; ?*0' - 5),' 620' 8)1' 2',)*' *6-' RR ' 7 ,)' 5-*6,' 1-?6/, ' *2-1//*0' $06/- >' D .)1=' 1 ' ;5.D;-5' 6?125',)*' 2; ?D*-' 1 ',)*' .6 2,.% * 1-*' 6' D*6, *0' =*-.12'>62'D*'>6212 [*0' 1;-'>12. .,1- *.' 6-*')*/0% 2' ,)*' -.,',)*' =1=*' >6;.*.',)*' =*, , 12' 1 ',)*' =6-, *.' -*^ _;*., 25',)*' >6212 [6, 12',1' D*' *L6? 2*0' D ',)-*' 6;0 ,1-.' 1 ',)*' -1,6' 620' 0 -*>,./ *' >6-0 26/.',1' -*+ .*' 6//,)*' 2*>*..6- ' 2..-;?*2,.' 2',)*' .*>120',)*' >6-^ 0 26/.'-*=1-,',)*' ?6,,*-',1',)*' 1?62' =12, ' 2',)*' ,) -0' 8) >)' .' 6' =; X/>' >12. .,1- ',)*' >6-0 26/.' =6 ',)*' -' 601-6, 12',1',)*' =1=*' 2*' =*-.12' >6//*0',)*' 0*+ / .' 60+1>6,*' .6 .' 6// D*' >62' 656 2.',)*' =*-.12',1' D*' >6212 [*0' -6 .*.' 01;D,.' 12',)*' 5*2; 2*2*..' 1 ',)*' ? -6>/*.' .6 0',1' D*' 8-1;5),'D ') ?' 620' *L=1.*.' 62' 862,' 1 ' 1-?6/, ' 2',)*' =-1>*0;-*' ,' .' .6 0',),6,' ,)*' 25*2; , ' 620' */1_;*2>*' 1 ',)*' 0*+ / .' 60+1>6,*' 2*6-/ ' =-*+*2,*0',)*' >6212 [6, 12' 1 '>6-0 26/' 1--1' ?*1' 2',)*' .*+*2,**2,)' >*2,;- ' ;' 621,)*-' 60+1^ >6,*' ?69*.' 6' =1?=1;.' 1-6, 12' 2' =-6 .*' 1 ',)*' =*-.12' 8)1% .',1' D*' >-*6,*0' 6' .6 2,' 2' 8)>)')*' /6-5*/ ' *L^ =6, 6,*.' 12',)*' ? -6>/*.' .6 0',1')6+*' D**2' 8-1;5),'D ') ?' 620' *+*2' =-*,*20.',1' 9218' -1?' 8)6,' ?1, +*.') 6>,*0' 2',)*' 1;-,)' 620' /6..' >12. .,1- ',)*' =1=*')6+ 25' >12+*2*0' 6//,)*' >6-0 26/.' 1-0*-.',)*' -*=1-' >12>*-2 25',7*' 0*>*6.*0',1' D*' -*60' 620',)*2' =-1>**0.',1',69*',)*A-' +1,*.' 8)*,)*-')*' .',1' D*' >6212 [*0' 1-' 21,%' -*+ 1;./ ',1' =-121;2> 25',)*' .*2,*2>*' 0*>/6-^ 25',)*' D*6, *0' =6-, ',1' D*' 6' .6 2,',)*' =1=*' ?69*.' 6' .1/*?2' =-1,*.,6, 12',)6,' D ',) .' 6>,' 1 '>6212 [6, 12')*' 01*.' 21,' 2,*20',1' 01' 62 ,) 25' >12,-6- ',1' 6 ,)' 1-',1',)*' 1/ >' \ 1? .)h);->)' 1-',1',)*')121-' 1' 41%B% 2',)*' 06 ' 6==1 2,*0' 1-' ,)*' >*-*?12 ' ,)*' >);->)' 1 ' ,% *.*-' 6,' 1?*' .') ;25' 8 ,)',6=*.,-' 12' 8)>)' 6-*' *?D/6[12*0',)*' 6-?.' 1 ',)*' =1=*' 620' 1 ',)*' .1+*-* 52' 1 '=- 2>*' 8)1' 0*. -*.' ,)*' >6212 [6, 12' 620' .' 6/.1' D- // 62,/ ' //; ? 26,*0% ()1;.620.' 1 ' 0*+1;,' ?*? A*-.' 1 ',)*' 1? .)' >1? ?;2 12' //',)6,' >6=6> 1;,' *0 >*' *65*-',1' =-1 ,' D ',)*' 2,*->*.. 12.' 1 ',)*' 2*8' .6 2,' 8 ,)',)*' /? 5),E% ,:-25',)*' >*-*?12A' 1' 6212 [25' ,)*' =1=*' 620' >6-0 26/.' 6-*' 6//' 0-*..*0' 2' 8),*% ()*' *L=*2.*.' 8)>)' 6-*' +*- ' >12. 0*-6D/*' 6-*' 0* -6 *0' D ',)*' -1 6/ 1-' =- 2>*/ ' =*-.1265*' 6,' 8)1.*' -*_;*.',)*' D*6, *0' =*-.12' .' *2-1//*0' 6?125',)*' .6 2,.' ()*' >1.,' 1 '>6212 [25',)*' .6 2,.' *0-1' 0*' />62,6-6' 620' <6-6' <6006/*26' 0' 6[[' ;20*-',)*' =12, >6,*' 1 ' /*?*2,' dF' 6?1;2,*0',1' . L, C 1;-',)1;.620'.>;0 J' M1-' 01//6-.X' M 60 *' 6 !' ' !' .%+%X% 1' =*-.12' >62' D*' 6212 [*0';2, /' 6,' /*6.,' ,' *6-.' 6 ,*-' 0*6,)' 21-' ')*' D*' D*/ *+*0',1')6+*' =6..*0' 2,1 6 ,*-' 0*6,)' 21-' ')*' D*' 6' D6=, [*0' 2 62,' 0*60' D* 1-*' -*6>) 25' *6-.'1 '0 .>-*, 12 'L>*=,' 2'>6.*.' 1 '?6-, -^ 01?' ()*' 6>,' 1 ' ='=-*>*0*.',)6,' 1 '>6212^ 6->) ' 8)1')6+ 25' 6..*?D/*0') .' D .)1=.' 1-' ,) .' =;-^ =1.*' 2' . 210' >6; .*.' ,)*' ,*., ?12 *.' 1 ',)*' 8 ,2*. .*.' 2' 67I -' 1 ',)*' =*-.12',1' D*' >6212 [*0',1' D*' *L6? 2*0' D ',)-*' ,)1; .620' 8 ,2*. .*.' 6-*' -*_; -*0% ()*' ,-1; D/*' 620' *L=*2.*' 2> 0*2,',1',) .' =-1>*..' 6->' .1' 5-*6,',)6,'>62^ 12 [6, 12.' 2',)*' 6.,'6-*' *8% 27,2,/A ,D*'-*+*-*2>*' 0;*',1' .6 2,.J' 86.',)1;5),' ,1' D*' ;/0//*0' D ' =;,, 25',)*' 26?*' 1 ',)*' .6 2,' 12',)*' 6>-*0' =, >). ' 1-' & '$ 1' 1-' *-*>, 25' 1-^ 6,1- *.' 1'>) ;->)*.' ;20*-',)*' 2+1>6, 12' 1 ',)*' .6 2,%' 6212 [6, 12' 2',)*' 1?62' .*2.*' 86.' 21,'9218 2' D*^ 1-*' ,)*' ,*2,)' >*2,;- ' D;' .1?*')1/0' ,)6,' ,)*' -.,' >6212 [6, 12' 7.' >*/*D-6,*0' D ' *1' : ' % %' Q T' 620' -1?',)*' >/1.*' >1--*.=120*2>*' 1 ',.' >*-*?12 *.' 8 ,)',)1.*' 8)>)' 8*-*' =*- 1-?*0' 6,',)*' 6=1,)*1. .' 1-' 0* >6, 12' 1 ',)*' 62> *2,' 1?62. ' ,' .' 8 ,)' 5-*6,'=-1D^ 6D / , ' .;==1.*0',1' 0*- +*' ,.' 1- 5 2',)*2>*% 2' >12^ .*_;*2>*' 1 ',)*' ? ;/, =/ >6, 12' 1 ' .6 2,.' 0;- 25',)*' 6-9' 5*.',)*' >6212 [25' 1 '62 '0*>*6.*0')- ., 62' 1 ',)*' ?->2*,;- ' ;2/*.' ,' 8*-*' 012*' 8 ,)',)*' >12.*2,' 1 ',)*' D .)1=% ()' *0>,' 1>>6. 12*0' 6' 2*8' 6>>*.. 12' 1 ' =18*-',1',)*' 1?62' =12, '6.' ;' ;/, ?6,*/ '+*.,*0' 2') ?',)*' *L>/;. +*' - 5),' 1 '>6212 [25' 8)1?.1*+*-')*' =/*6.*O%% B1)2' d ' 86.',)*' -.,' =1=*' 8)1' *L*-> .*0' ,) .' 6..; ?*0' - 5),' 620' 8)1' 2',)*' *6-' RR ' 7 ,)' 5-*6,' 1-?6/, ' *2-1//*0' $06/- >' D .)1=' 1 ' ;5.D;-5' 6?125',)*' 2; ?D*-' 1 ',)*' .6 2,.% * 1-*' 6' D*6, *0' =*-.12'>62'D*'>6212 [*0' 1;-'>12. .,1- *.' 6-*')*/0% 2' ,)*' -.,',)*' =1=*' >6;.*.',)*' =*, , 12' 1 ',)*' =6-, *.' -*^ _;*., 25',)*' >6212 [6, 12',1' D*' *L6? 2*0' D ',)-*' 6;0 ,1-.' 1 ',)*' -1,6' 620' 0 -*>,./ *' >6-0 26/.',1' -*+ .*' 6//,)*' 2*>*..6- ' 2..-;?*2,.' 2',)*' .*>120',)*' >6-^ 0 26/.'-*=1-,',)*' ?6,,*-',1',)*' 1?62' =12, ' 2',)*' ,) -0' 8) >)' .' 6' =; X/>' >12. .,1- ',)*' >6-0 26/.' =6 ',)*' -' 601-6, 12',1',)*' =1=*' 2*' =*-.12' >6//*0',)*' 0*+ / .' 60+1>6,*' .6 .' 6// D*' >62' 656 2.',)*' =*-.12',1' D*' >6212 [*0' -6 .*.' 01;D,.' 12',)*' 5*2; 2*2*..' 1 ',)*' ? -6>/*.' .6 0',1' D*' 8-1;5),'D ') ?' 620' *L=1.*.' 62' 862,' 1 ' 1-?6/, ' 2',)*' =-1>*0;-*' ,' .' .6 0',),6,' ,)*' 25*2; , ' 620' */1_;*2>*' 1 ',)*' 0*+ / .' 60+1>6,*' 2*6-/ ' =-*+*2,*0',)*' >6212 [6, 12' 1 '>6-0 26/' 1--1' ?*1' 2',)*' .*+*2,**2,)' >*2,;- ' ;' 621,)*-' 60+1^ >6,*' ?69*.' 6' =1?=1;.' 1-6, 12' 2' =-6 .*' 1 ',)*' =*-.12' 8)1% .',1' D*' >-*6,*0' 6' .6 2,' 2' 8)>)')*' /6-5*/ ' *L^ =6, 6,*.' 12',)*' ? -6>/*.' .6 0',1')6+*' D**2' 8-1;5),'D ') ?' 620' *+*2' =-*,*20.',1' 9218' -1?' 8)6,' ?1, +*.') 6>,*0' 2',)*' 1;-,)' 620' /6..' >12. .,1- ',)*' =1=*')6+ 25' >12+*2*0' 6//,)*' >6-0 26/.' 1-0*-.',)*' -*=1-' >12>*-2 25',7*' 0*>*6.*0',1' D*' -*60' 620',)*2' =-1>**0.',1',69*',)*A-' +1,*.' 8)*,)*-')*' .',1' D*' >6212 [*0' 1-' 21,%' -*+ 1;./ ',1' =-121;2> 25',)*' .*2,*2>*' 0*>/6-^ 25',)*' D*6, *0' =6-, ',1' D*' 6' .6 2,',)*' =1=*' ?69*.' 6' .1/*?2' =-1,*.,6, 12',)6,' D ',) .' 6>,' 1 '>6212 [6, 12')*' 01*.' 21,' 2,*20',1' 01' 62 ,) 25' >12,-6- ',1' 6 ,)' 1-',1',)*' 1/ >' \ 1? .)h);->)' 1-',1',)*')121-' 1' 41%B% 2',)*' 06 ' 6==1 2,*0' 1-' ,)*' >*-*?12 ' ,)*' >);->)' 1 ' ,% *.*-' 6,' 1?*' .') ;25' 8 ,)',6=*.,-' 12' 8)>)' 6-*' *?D/6[12*0',)*' 6-?.' 1 ',)*' =1=*' 620' 1 ',)*' .1+*-* 52' 1 '=- 2>*' 8)1' 0*. -*.' ,)*' >6212 [6, 12' 620' .' 6/.1' D- // 62,/ ' //; ? 26,*0% ()1;.620.' 1 ' 0*+1;,' ?*? A*-.' 1 ',)*' 1? .)' >1? ?;2 12' //',)6,' >6=6> 1;,' *0 >*' *65*-',1' =-1 ,' D ',)*' 2,*->*.. 12.' 1 ',)*' 2*8' .6 2,' 8 ,)',)*' /? 5),E% ,:-25',)*' >*-*?12A' 1' 6212 [25' ,)*' =1=*' 620' >6-0 26/.' 6-*' 6//' 0-*..*0' 2' 8),*% ()*' *L=*2.*.' 8)>)' 6-*' +*- ' >12. 0*-6D/*' 6-*' 0* -6 *0' D ',)*' -1 6/ 1-' =- 2>*/ ' =*-.1265*' 6,' 8)1.*' -*_;*.',)*' D*6, *0' =*-.12' .' *2-1//*0' 6?125',)*' .6 2,.' ()*' >1.,' 1 '>6212 [25',)*' .6 2,.' *0-1' 0*' />62,6-6' 620' <6-6' <6006/*26' 0' 6[[' ;20*-',)*' =12, >6,*' 1 ' /*?*2,' dF' 6?1;2,*0',1' . L, C 1;-',)1;.620'.>;0 J' M1-' 01//6-.X' M 60 *' 6 !' ' !' .%+%X% 1' =*-.12' >62' D*' 6212 [*0';2, /' 6,' /*6.,' ,' *6-.' 6 ,*-' 0*6,)' 21-' ')*' D*' D*/ *+*0',1')6+*' =6..*0' 2,1

; -1=* ' 620' 2' SQQ' 86.' 6==1 2,*0' =65*' 1 ',)*' */*>,1-' 1 ' -620*2D ; -5% : *' 6 ,*-86-0' .*-+*0' 6.' 6' +1/ ; 2,**-' 2' ,)*' *-,)*-/620.% ' 0625*-1 ; .' . >92*. .' 1D/ 5*0') ?' ,1' /*6+*' ,)*' ? / ,6- ' .*-+ >*' 620' /*0') ?' ,1' 6' -*^ / 5 1 ; .' / *' 2' 8) >)')*' 86.' 5-*6,/ ')*/=*0' D ' =*2*-' M_% +%X% : .' 8 .)' ,1' .=-*60' ,)*' DA*' 6 ? 125' ,)*' =11-' /*0') ?' ,1' 1-?' ,)*' 0*6' 1 '=- 2, 25' ,' 8 ,)' .,*-*1, =*' =/6,*.% ( ) ; .' 1- 5 26,*0' ,)*' 6 ? 1 ; .' 2.. , ; , 12 ' >6//*0' 2' 4 *-? 62' " ' 2 + ' ; " ' : *' / +*0' ,1' .** ' (*.,6 ? *2,.' 620' ' D/*.' .1/0' -1 ?' ,)*' *.,6D/ .) ? *2,% ,' .' ., // >12, 2 ; *0' 12' 6' +*-E' /6-5*' .>6/*' ,)*' D119.' 6-*' ;-2 .)*0' 6,' >1.,' =- >*.' M IfD1 ; ,' ,8 *2, C +*' >*2,.' 1-' ,)*' D/*' 620' * 5),' 1-' ,)*' (*.,6 ? *2,X% $='1' Q ' S K ' D/*.' 620' K SN ' (*.,6 ? *2,.')60' D**2' .1/0' 1 : *' *0 ,*0' 6' ' ' ' 6 ' MK0' *0% K ' 1/%X' 620' 6/.1' 8-1,*' " '$% ' M *' 1 ' =*2*-X' ,)*' *0 , 12' 1 ' 8) >)' D ' 625*' ' >12,6 2.' 6' D 15^ -6=) ' 1 ' 62.,* 2 ' 8)1' 0 *0' 6,' : 6//*' ;5% R R% **' 6/.1' *?* *-' ? " " ' ' + ' ; " 2' ' M : 6//*' QK ' Q+1X1' /6,) ' ' ' " ' ; 2' M QS ' Q+1X1' *-,-6 ? ' ? " " ' ' " ' ; 2' ' M QSN ' Q+1X1' D " " ' ! ' ' " ' -" 1' ' L ' NRK% ' ' : 1* *-' 7 ! ; ' S 77-6V* '+ ' T : *-[15 ' 5 26 + % 1' ' K

6 2 , * -D ; - ' I ' ' E' ,)1' >6= ,/6/' 1 ',)*' >1 ; 2, ' 1 ' *2, ' 6' >6,) *0-6/' > , ' 620' ,)*' .*6,' 1 ' 62' 6->)D .)1= ' 8)1' .' ,)*' ? *.-1=1/ ,62' 1 ' 6/' 25/620% ,' .' S ? /*.' -1 ?' 12012' % % % W2' ,)*' -160' ,1' 1^ +*-% &)*2' ;5 ; ., 2*' D*>6 ? *' 6->)D .)1=' 1 ',) ./ .**' % % ' R ' 9 25' ,)*/ *-,' 5-62,*0') .' =6/6>*')*-*' ,1' ,)*' 6->)D .)1=' 620') .' ? 129. ' 8)1' ,)*-*; =12' D*562' ,1' D ; /0' 6' ? 126.,*- '>12+*-, 25'62' 62> *2,' >) ; ->)' 2' ,)1' 2* 5/ /X1-)110' M.6 0' ,1')6+*' D**2' ; .*0' D ' ,)*' 1 ? 62') ., 62.X' 2,1') .' >6,)*0-6/' >) ; ->)% ; ,)D*-, ' ,)1' */*+*2,)' 6->)D .)1=' % % ' 600*0' 6' >) ; ->)' ,1' ,)*' *6.,' 1 ' , 2.% 2' ,)*' >1 ; -.*' 1 '65*.' ,' -*>* +*0' 2 ; ? *-^ 1 ; .' 600 , 12. ' ; 2, /' ,' 6. . ; ? *0' ,.' =-*. *2,' ? 652 >*2,' 1-?% ? 125' ,)1.*' 8)1')*/=*0' ,1' -*=6 - ' *2/6-5*' 620' -*D ; /0' ,' 8*-*' 6->)D .)1=.' 01' M % % R X' 62C -62>' M X' 620' 2.*/ ?' M RNX% 2' ' ,)*' >)1 - ' 86.' 0*. ,-1 *0' D ' -*' 620' 2' 1-0*-' ,1' ,)*' -*D ; /0 25' 1 ' ,' 6' 2 ; ? D*-' 1 ' -*2>)' 620' 25/ .)' 6-, >*-.' 8*-*' .; ? ? 12*0% ? 125' ,)*' 1-? *-' 86.' 6' >*-,6 2' & // 6 ? ' 1 ' *2. ' 620' ,1') ? ' 6' ? 62' 1 '-*6/ 5*2 ; . ' ,)*' 81-9' 86.' 2,-; . ,*0% ()*' >) ; ->)' 86.' - >)' 2' -*/ >.d /*5*C ? ; 20')60' D-1 ; 5),') ,)*-' ,)*' D10 ' 1 ',)*' ? 6-, -' /6C . .' -1 ?' 1 ? *' ,)*-*' 8*-*' ,)*' -*/ >.' 1 ' ,% & / -*0' ,% ; 2.,62' 620' ,% /=)*5*' ' ,)*' ? ; -0*-' 1 ' ()1 ? 6. *>9*,' M_' +%X' ,119' =/6>*' 2' ,)*' 21-,)' ,-62. *=, ' *>% KR ()*' ,1,6/' *L,*- 1-' /*25,)' 1 ' ,)*' >6,)*0-6/' .' ** ,' D ' S' 2' D-*60,)' 6,' ,)*' *6. ,*-2' ,-62. *=,% ()*' >- =,' .' 1 ' 5-*6,*-' *L,*2,' 620' /1 , *- ' 18 25' ,1' ,)*' >)1 -' D* 25' -6 . *0' D ' 2 ; ? *-1 ; .' .,*=.' 6,' ,)*' *6.,' *20 ' ,)62' 62 '1,)*-' 2' 25/620% ()1' 6>)D .)1=' 1 ' 62,1-/ ? - ' .' =- ? 6,*' 1 ' 6// 25/620 ' ? *,-1=1/ ,62 ' 620' -.,' =**-' 1 ' ,)*' -*6/ ? % : *' -629.' 2*L,',1' -1 6/, ' 620' >-182.' ,)*' .1+*-* 52% : .' *>>/*. 6., >6/' =-1+ 2>*' 2>/ ; 0*.' 6// 25/620 ' *L>*=',)*' . L' 21-,)' *-2' >1 ; 2, *.% ? 125') .' =- + /*5*. ')*' >62' >12 *-' 0*5-**.' 2' 0 + 2^ , '/68 ' 620' ? *0 > 2*% : .' .*6,.' 6-*' 6,' 6 ? D*,) 620' 00 25,12' 6-9% : *' .' =6,-12' 1 ' R / + 25.% ()1' =-*.*2,' 6->)D .)1=' .')6-/*.' ()1 ? 6.' 125/> ',-62.^ /6,*0' ,1' ,)*' .**' 2' QSK% ' 62012 ' 6 ' ' ' .% %')6 ? D*-. ' 6 % ' .% +%

6 2 ,) 6 ? .' M6' % 1-' % 8!' 2' ,)1' 6,- ; ? ' 1 ' 62^ > *2,' >) ; ->)*.' ,)*-*' 86.' >1 ? 12/ ' 6' 1 ; 2,6 2' 1-' > .^ ,*-2 % 2' 8) >)' 81-.) ==*-.' >1 ; /0' 86.)' ,)*-') 620.' 620' 6>*.' D* 1-*' *2,*- 25' ,)*' >) ; ->)% ; .*D ; .' .6 .',)6,' 2' ,)*' >1 ; -,' 1+*-' 656 2.',)*' >) ; ->)' 8*-*' =/6>*0' 1 ; 2^ ,6 2.' I)% f 8' 1 'X76,*-' 6.' . ?D1/.' 1 '=; - >6, 12' 1-' .; >)',1' 86.)' 6.' *2,*-*0' 2,1',)*' >) ; ->)' >' ' , '>*L X% 6 ; / 2 ; . ' D .)1=' 1 ' 1/6' >6//.' ,) .' 1 ; 2,6 2' " ' I16% f L ' '$ (8' 2' .1 ?*' =/6>*.' 6>>1-0 25' ,1' ; -*.2*' ,)*' 1 ; 2,6 2' 86.' .; --1 ; 20*0' 8 ,)' / 12. ' -1 ?' 8)1.*' ? 12,) .' 86,*-' .=1 ; ,*0' P+)*2>1' ,)*' =/6>* .' 6/.1' >6//*0' D ' .1 ?*' *>>/*. 6., >6/' 8- ,*-.' f' ,' .' 6/.1' >6//*0' % 1') O % 'D1,)' 1 ' 8) >)' . 52 ' 6' 1 ; 2,6 2% (*-, ; // 62' *L=1.*.' ,)*' 6D. ; -0 , ' 1 ' ? *2' 51 25',1' =-6 *-.' 8 ,)' 86.)*0')620.' 8) /*',)*' -*,6 2*0' 6' /,) ' .= - ,' 620' =1//; ,*0' .1 ; /% 1 ?*' 1 ',)*' 1 ? 62' 6,)1/ >' 8-, *-.' =-*,*20' ,1' A ; ., ' ,)*-' ; .*' 1 ')1/ ' 86,*-' -1 ?' ,)*' *L ..*2>*' 1 ',) ' 62> *2,' >; .,1 ? % ,' . ')18*+*-' ?1-*' =-1D6D/*',)6,' ,'18*.' ,.' 1- 5 2',1' ,)*' 4-*> 62' - ,*' >6//*0' (-*=,==6+-7=,6' 1-' ' % 1 =1' ' 25)6 ? ' ? ' 6 + !D9% + ' >)%I ' g W' %

6 2 ,) * -6 . ' I) 1 *% S8' 6' =*-.12' ? *2, 12*0' D ' B1.*=) ; .' I1& ! LL ' ' NX' 6.') 6+ 25' D**2' 0*=1.*0' -1 ?' ,)*' B*8 .)') 5)C=- 1 .,)110' D ' : *-10' 9 25' 1 ')6/> .' ,1' ? 69*' -11 ?' 1-' B1.*=) ' ,)*' .12' 1 ' 62 ; ' % % ! ')*' .' */.*8)*-*' >1& ' L L ' S' KX' 0*2, *0' 8 ,)' ,)*' ' M_% +%X' 8)1')60' D* 1-*' *2A1 * ',)6,')121-' 6.' ,)*' .12' 1 _' M ? 12 ' ,)*' .12' 1 X' 1*,) ; .' 6,)*-C 2C/68' 1 ' : *-10' ,)*' 4-*6,' I& 'L+ ' R ' NX% **: 4 C (% 6 2 , >/*' I 81' 6==/ *0' >1 ? ? 12/ ' ,1' .6>-*0' .125.' >)62,*0' 2' ,)*') ; ->) ' .; >)' 6.' ,)*' ; ! 6 2 , >/*. ' 1-' 1/1 ? 12 .' 125' M>6//*0' 2' +*-% '$" ' " "=$" (*' *(' M ' $ 1 6' : 1D% .; =*-/6, +*' *=, ' 1 % ' U-% 8 E f !' A' O' *2, ,/*0' 2' ,)*' % X 0 $ ' ' <+' !Y' * ' D119' 1 ' ,)*' % (%)6.' D**2' ,/ 1' .; DA*>,' 1 ' ? 1-*' +6- *0' >- , > . ? ' 1-' D**2' ? 1-*' -*^ _; *2,/ ' .*/*>,*0' 1-' .*=6-6,*' -62./6, 12' ,)62' ,) ./ ,C /,>' A=* ? % ' ,' .' 12*' 1 ' ,)*' +*' '" 1-' -1 // ' =/6>*0' 2' ? 1.,' B*8 .)' < % 1 ' ,)*' >- =, ; -*.' ? ? *0 6,*/ ' 6 ,*-' ,)*' *2,6,*; >) ' D ; ,' 2' ,)*' : *D% =- 2, *0' >1= *.' , ' >12. , ; , *.' ,)*' 1 ; -,)' 1 ' ,)*' ' 1-' # ' %" ' M_% %% M **' 6+ 0.12' 2' : 1-2*.' ' 2*8' >0% ' R ' ._ %X' **' 8 ! % & " ' ' T1 ' ,)*' : *D-*8' , ,/*' ,' .' 6.^ >- D*0' ,1' 1/1 ? 12' 620' .1' 2' 6// ,)*' +*-. 12. ' 620' D ' ,)1' ? 6A17, ' 17B*8 .)' 620')- . , 62' 8 (,*-. ' 62> *2, ' 620' ? 10*-2% 2' 6>, ' 8*' *L>*=,' 6' *8' 1 ' ,)*' (6/C ? ; 0 >6/' 8 - ,*-.' I ; " ' ; " 1' % <1.*.' ? >) ! .>1' 4-6 .') 8 ' 8)1' 6.. 52*0' ,' ,1' ,)*' 65*' 1 ' : 1[*9 6) ' ,)*-0' .' .>6->*/ ' 6' 0 . .*2, *2, ' +1 >*' 0182' ,1' ,)*' >/1.*' 1 ' ,)1' /6.,' >*2, ; - % <1-*' -*>*2, ' >- , > . ? ')18*+*-')6.' >6//*0' 2' _ ; *., 12',) .' 0**=C-11, *0' 620' 8*//C6>>-*0^ ,*0' ,-60 , 12% ? 125' 25/ .)' .>)1/6-, ' >22 >1, , ' 6 ? 125' 41-? 62' >)) 1-2' 620' 1.*2 ? ; //*-' -*56-0' ,)*' =1*?' 6.' D*/125 25',1' ,)1' 65*' 1 ' [-6' 620' *)*? 6) ' M >22 >1, , ' ' ' =% K CKKT >)) 1-2 ' ' N' -!' =, % ' g' SC ' =% SN ' . _ % ' K0' *0 % T 1.*2 ? % I* ' ' N!' -!8' >22 >1, , ' D ; .*0' D .' 1= 2 12' ; =12' ,)*' ; 2 1-?' 2.*-, 12' 1 ',)*' 7 2' 6// ,)*' >1= *.' 2' ,)*' 26 ? *' 1 ' 6+ 0' M 72X% ()1' 26 ? *')18*+*-' 1 >> ; -.' 12/ '12>*' M +' XT' 620' ,)*' 2.*-, 12' 1 ' ,)1' /*.,*-' 2' ,) .' .1/ ,6- ' 2.,62>*' .' *6. / '6>>1 ; 2,*0' 1-' D '6' .' ; ==1.*0' *--1-' 2' ,-62.>- =, 12% ,' 62 ' -6,*' ,)1' 2.*-, 12' 1 ',)*' 81 ; /0' 21,' D- 25' ,)1' 62, >/*.' .1' ; -' 0182' 6.' ,)*, ?*' 1 ' [-6 ' 2>)D .)1=' 8*' 20' ,)*' .6 ? *' =*>; / 6- , ' 2' : 1.% ' '620' ?1.' + ' 'M4>C Q>2 ; % .' -+ ' .% +%X' ()*' >)6-5*' 1 ')6/06 .?')6.' D**2' + 51-1 ; ./ ' =-*..*0' D ' 1.*2 ? ; //*-' 620' *.=*^ >6// ' D ' >)) 1-2% ; ,' 4*.*2 ; .' >% ' ? ' g' KX' 6.^ . 52.' , : 1' D119' ,1' ,)*' 51/0*2' 65*' 1 ' : *D-*8' / ,*-6, ; -*' 620' ,-6>*.' ,)*' *8' .1/ ,6- ')6/06 . ? . J' 8) >)' 1>>; -' 2' ,)*' 7+-, 25.' 1 ' ,)6,' 65*' ,1' ,)*')620.' 1 ')6/0*=' >1= ,,.% 4*.*2 ; .')6.' ? 1-*1+*-' .; 55*.,*0' 62' ?C AX1-,62,' 0 ., 2>, 12' D*,8**2')6/06 . ? . ' 620' " ' 6- 6, 12.' 20 5*21 ; .' ,1' 1-,)*-2' 6/*., 2*' 8)*-*')1' >12A*>, ; -*.' ,)6,' B ; 05*.' 620' 62, >/*.' 8 *-*' >1 ? =1.*0% ()*' 6==/ >6, 12' 1 ' ,) .' =- 2> =/*' .' .; > *2,' ,1' */ ? ^ 26,*' ? 1.,' 1 ' ,)*')6/06 . ? .' 6//*5*0' DE'))1-2' M1% 5% / ' 1-' ` 8 d X' 8) /*' ,)*' 1>>; --*2>*' 1 '. ? /6-' 1-? .' 2')1*2 > 62' 6 1-0.' 62' 20 >6, 12' 1 ' 1 ',)*-' 2, -; . +*' 1->*.' D*. 0*.' ,)*' -6 ? 6*62' 6>, 25' ; =12' ,)*' D/ >6/' : *D-*8% 1-' .' ,)*' .; 55*., 12' 1 ' 4*.*2 ; .' ,)6, ',)1' D119' 86.' 8- ,,*2' 2' 1-,)*-2' 6/*., 2*' 620' >12.*^ _ ; *2,/ ' , 25*0' 8 ,)' 6' /1>6/' >1/1- 25' 2>12. ., *2, ' 8 ,)',)*' 1= 2 12' 8) >)' =/6>*.' ,' 6 ? 125',)*' I*12*' ,)1 ; ^ .620' 620' +*J' .125.' 1 ' 1/1 ? 12' M ' 25.' + ' NKX%

1?=% ' 25.' L ' R 8 ,)' K)-12% + ' S' 8)*-*' ,)*' D; /0 25.' 1 ' *D6212' 6-*' 0*> 0*0/ ' >12,-6.,*0' 8 ,)' ,)1.*' 1 'B*-; .6/*? ' 620' 6-*' 21, ' ,)*-* 1-*' ,1' D*' >12^ 1;20*0' 8 ,)',)*' ')1;.*' 1 ',)*' 1-*.,' 1 ' *D6212J' M ' 25.' + ' KX' 8) >)' 86.' =-1D6D/ ' 2' B*-; .6/*?% ' 6' 6-,)*-' >1?=6-.12' 1 ',)*.*' =6..65*.' 8 ,)' 1D 2.12' 1; !'D ' ' X' 8)1' 0*.>- D*.' -*?6 2.' 1 ' ?6.. +*' D; /0 25.' 6.' ., //' .,620 25' 12' *D6212 ' ,' 8 // 6==*6-' =-1D6D/*' ,) 6,' 1/1?12')60' 6,' /*6.,' 6') ;2, 25C.*6,' .1?*8D *-*' 12' ,)*' ./1=*.' 1 ',)6,' ?1;2,6 2' M>1?=% 62,% +% RX% 2' .;>)' 6' -*,-*6,' 620' ;20*-',)*' 2 /;^ *2>*' 1 ',.' .>*2*- ' 620',)*' /625;65*' 1 ',)*' .;--1;20^ 25' =*6.62,- ')*' ?6 ')6+*' 8 -,,*2' 62, >/*.% -^ , ., >6// ',) .' 81;/0')6+*' D**2' 2' 9**= 25' 8 ,)',)*' 5*2*-6/' >120 , 12.' 1 ' =6.,1-6/ =1*,- % 2' 1;-' 182' /625;65*' .;>)' >1?=1. , 12.' 6-*' 21,' ;2)-*_;*2,/ ' 6>^ >1?7106,*0',1' -;., >' 0*6.' 620' .1?*, ?*.' ¯,1' =-1+ 2^ > 6/' 0 6/*>,.% ' ?1-*1+*-' ,' .)1;/0' D*' ;-5*0',)6,')6/06 .?.' 6-*' 21,' =-1+ 2> 6/ .?.' ,' ?6 ' D*' -*=/ *0' ,)6,' 1/1?12' >1;/0' .>6->*/ ' D*' 521-62,' 1 ',)*' -6C ? *62' / ,*-6,;-*' 1 ') .' 182' , ?*' 620',)6,')*' ?6 ')6+*' >12.> 1;./ ';.*0' ,' 1-',)*' =;-=1.*' 1 '*2- >)?*2,' AM4*.*2% !' ? g K' X%

()*', ,/*',)1;5)' ,' .'=1.. D/ ',11' /6,,*- 25',1')6+*' >1?*' -1?',)*')620' 1 ' 1/1?12' ?;.,')6+*' *L .,*0' 2' ,)*' >1=' ;.*0' D ',)*' *=,% ' 620' >12.*_;*2,/ ' >62' /6 '>/6 ?',1' 6' -*.=*>,6D/*' 62, _;, ()*' ?1-6/ 6-^ 5;?*2,'=;,' 1-86-0' D ',)*' .;==1-,*-.' 1 ',)*' ?1.,'-*^ >*2,'/ ,*-6/ 2,*-=-*,6, 12 ' 620' D6.*0' ;=12',)*' ?=-1DC 6D / , ' 1 ' 1/1?12 .' >- ? 26, 25') ?.*/ ' M.**' D*/18X' .' 21,' +*- ' >12>/;.+*% +*2' 12',)*',)*1- ' 1 ',)1.*' A % />)6*/ .' 620',)*' /,*-6/ .>)11/ 1 ' 2,*-=-*,*-.' 2' 2,*-=-*,*-.') .' >120;>,' ? 5),' D*',-6>*0' ,1' 6' .= - ,' 1 ' 5*2*-1;.' .*/ C6>>;.6, 12' 620 ' 6,' 62 ' -6,* ' ,'2**0' 21,' D*' *L6/,*0' 6D1+*',)*' .,6206-0' 8)>)' 86.' / 9*/ ' ,1' /1;-.)' 2',)*' 6,?1.=)*-*' 1 '6' >1;-,';>)' 6.' D .% 2' ,)*' 8)1/*',)*2 ',.***?.' ;22*>*..6-X',1' 0*=6-,' -1?' ;==1. 25',)*' 06,*' L*0',1',)*' -* 52' 1 ' 1/1?12 5-*6,' 25*2;,')6.' D**2' *?1=/1 *0' D ',)* 6DD 2 >6/ 620' .1?*')- ., 62' 8-,*-.' 2' 0*,*-? 2 25'6,' 8)6,'=*P - 10' 1 ',)6,' ?126->) ./ *',)*' =1*?' 86.' 8-,,*2' M.** 1/' $ % ! -.*% 60' 62,%X% ()*' =1 2,' 6,' ..;*.**?.' ,1')6+*' D**2' 8)*,)*-' 1/1?12' *+*-' -*=*2,*0' 6 ,*-') .' 6//% ')*' 0 0' ,' 86.' >12,*20*0',)6,',)*' -=*2*..' 1 ' 8 .01?' *L/ D ,*0' 2',)*' 125' .**?*0',)*' 26,;-6/ 5-18,)' 1 '.;>)' 62' *L=*- *2>*T ')*' 0 0' 21,' ,' 86.' ;-5*0',)6,' 21' 1,)*-',)62' 6' .= - ,;6// C? 20*0' ?62' >1;/0')6+*' >1?=1.*0' .;>)' 6' =1*?' 620',)6,' ,)*-* 1-*' ,' ?;.,')6+*' /P>*2 8-,,*2' 8) /* 1/1?12' 86.' ., //',)*' >)*- .)*0' 1' 410% ()*2' 656 2',' 86.' 6' ?11,*0' =1 2,' 8)*,)*-',)*' >1?=1. ,12' 86.',)*=-10;>,' 1' 1/1?12.' ?6,;-*0' 8 .01?' 1-',)*' -*.)' 1;,D;-.,' 1') .' 86-?' 620' =6.. 126,* 1;.)' 8)*,)*-' 2' 6>,' ,)*' ?6.,*-' */*?*2,' 1',)*' =1*?' 8*-*',)*' 1-?' 1-',)1' ?*62 25% 2' *,)*-' +*8' 1 ',.' 2^ ,*-=-*,6, 12')18*+*-',)*' 12/ ') .,1- >6/ 1>>6. 12' 2' ,)*/ *' 1' 1/1?12' 1-'6' =1*?' / 9*',) .' .') .' ?6-- 65** 8 ,)',)*' 06;5),*-' 1')6-61) ' % % Q M ' 25.' XT 6' -* *-*2>*',)6,' .' .,-125/ *' >1--1D1-6,*0' D ',)1' =-1D6D/*' 06,*' 1 ' .6/?' L/+ ' 8) >)' 20**0' ?6 ' D*' -*^ 56-0*0' 6.' ,)*' " ' 1 ',)*' 62, >/*.' ,)*?.*/+*.% 2' 1/0' >1?7*2,6,1-' M& 19*2 ' & ,,*?D% KRX')1/0.' ,)6,' ,)*' D- 0*' 86.' >6;/* J' ,)*' _;**2' 1 ')*D6' 620' ,)6,' .)*' 1-?*0' 6' >122;D 6/' 2,?6> ' 8 ,)' 1/1?12' 0;-25')*-' .,6 ' 2' 6/*., 2*% **' ! % @ ' ' ' ( ) .' _;*., 12' .' 21,' 6D.1/;,*/ ' 0*,*0*2>*.' .;>)' 6.' >1;/0' .>6->*/ ' 6 / ,1' 1>>;-' D*,8**2' ,81' 8-,*-.' % ' =1*,-' M>1?=% 62, ' R T' + ' 8 ,)' ()*1>-' L+ ' N ' S T 62, ' + ' 8 ,)' ()*1>-% LL ' KS' K T 62, ' + ' S' ' 8 ,)' ()*1>-% LL ' KNCKST .**' 1,)*-'=6..65*.' 2' 1/% $! V 18,)' ! 4-6 .' @ 8' 2',)*' *..*2, 6/ ?6,,*-.' 1 '620' 1 ' " ',*6>) 25',)*'-*.*?D/62>*' 01*.' 21,' *L .,% % ' ()*' .>)11/.' 1 ' 2,*-=-*,6, 12' ?6 ' D*' 0 + 0*0' 2,1',)-**a',)*' 1'1-' % :',)*' 1 C 1' 620',)*' 2,*-=-*,6, 12' .'=-1=*-/ '62' 1 .)11,' 1',)*' 620' =-1D6D/ ' 187*.' ,.' 1- 5 2',1',)*

-;? J' 620',)*')6/0**' =6-6=)-6.*' ,)*' .125.' 620') ?2.'8)>)' 1/1?12',)*'=-1=)*>' D* 1-*' ,)*' 1-0JX% 4) ./*- ;.'M ,)'>*2,;-E X'>12. 0*-*0',' 6'0-6?6' 2' +*' 6>,.% 2*' 1',)*' -.,' .*=6-6,*',-62./6, 12.'=;D/.)*0' 2' 25/620' .' *2, ,/*0' ' ()*' 62, >/*,' 1-' 6/60*.' 1 ' 1/1?12' 2' 25/ .)' ?*,-*J' M S RXT' 620' 2' SRS' 6=^ =*6-*0' 1/1?12.' 125' 2' * 5),' *>/15;*.' D ' B ' <% \B*-+6.*' / /6-9)6?h ,)*' 2;?D*-' 1 ' *>/15;*.' 2',) .' /6,,*-' =-10;>, 12' D* 25',)*' .6?*' 6.',)6,' 1 ',)*' 0 //.' 2,1' 8)>)',)*' D119' 86.' 6 ,*-86-0' 0 + 0*0' D ' B6)2% 182',1',)*' Q,)'>*2,;-A7')18*+*-',)*' 62, >/*.' 8*-*' 5*2*-6//E7-*56-0*0' 6.'>12, 2;1;.%

4-*51- ' 6[62[;.' >6//.' ,' ' 6' D- 06/' 0-6?6, >' .125J' I)%) ' % 1 ' ' >>1-0 25',1 6,-9>' ,' .' 6' =6.,1-6/*>/15;*J' 1-' 6' 0-6?6, >' =1*?TJ' 6>>1-0 25',1' 18,)' 62' *= ,)6/6? ;?' 1-' % 1 '2;=, 6/.' 1 '6'=6.,1-6/9 20%J' < >)6*/.' 620' 1.*2?;$*-' 8) /*' 0 *- 25' 6.',1',.' 2,*-=-*,6, 12' 65-*% 2' ?69 25',' >12, 2;1;. ' >6-?*2' 6?6,1- ;?%J' ?10 *0' >12, 2;, ' 86.' .;55*.,*0' D ' 1..;*, ' 8)1' 0 + 0*0',)*' 125' 2,1' .*+*2' =6-,. '1-' .>*2*.' 1 '6'=6.,1^ -6/ 0-6?6' >1--*.=120 25' 8 ,)',)*' .*+*2' 06 .' 1 '),)1' B*8 .)'2;=, 6/'>*-*?12 'M 18,)' ! LLLX% 1.C .;>,' .' 1//18*0' D ' 6/?*,' *-> ' & // 6?.' 620' 18.),)' D;,').' 0 + . 12' .' ?=;52*0' D ' (6 /1-' I@ ! 8' 8)1' =-1=1.*.' 72*' 1 ' . L' 06 .' 620' >12. 0*-.' ,)*' 0-6?6',1')*' % = % 1' 21,' = %-' 1' 6.' ,' .' *L=/6 2*0' D ' 1..;*,% M **' D*/18%X ()*' *2, -*' 2;=, 6/,)*1-')6.' D**2' .*+*-*/ ')620/*0' D ' B% ' 21,' +*- ' >12>/;.+*% +*2' 12',)*',)*1- ' 1 ',)1.*' A % />)6*/.' 620',)*' /,*-6/.>)11/ 1 ' 2,*-=-*,*-.' 2' 2,*-=-*,*-.').' >120;>,' ? 5),' D*',-6>*0',1' 6' .= - ,' 1 ' 5*2*-1;.' .*/ C6>>;.6, 12' 620' D6.*0';=12',)*' ?=-1DC 6D / , ' 1 ' 1/1?12.' >- ? 26, 25') ?.*/ ' M.**' D*/18X' .

2*>*.. , ' 8) >)' 86.' */,' 1 ' . ;==/ 25' 6' ' D6. .' 1-' ,)*' .=*>;/6, 12.' 1 ' ,)*' 6//*51- . .,.% ( ) .' D6. .' .' * ,)*-' ,)*' ?6-- 65*' 1 ' 1/1?12' 8 ,)'))6-61) .' 06 ; 5)^ ,*-' 1-') .' ?6-- 65*' 8 ,)' 62' .-6*/ , .)' 81?62' ,)*') ;/6? ,*% ( )*' 1-?*-' M,69*2' ,15*,)*-' 8 ,)' : 6-C ? *- .'+6- 6, 12X' 86.' .)*' 6+1- ,*' 1= 2 12' 1 ' ,)*' ? .. ,* >/6/ 2,*-=-*,*-.' ,1' ,)*' *20' 1 ' ,)*' /Q,)' >*2, ; - á ,)*' /6,,*-')6.' 1D,6 2*0' . 2>*' ,.' 2,-10 ;>, 12' D ' 4110' M Q NX% ( )*' ? ., >6/ 2,*-=-*,6, 12' ?69*.' ,.' -.,' 6==*6-62>*' 2' - 5*2 ' 8)1' 8-1,*' 6' +1/,, ? 21 ;.' >1

1 ' 1' ' ' %% !' ;,' 8) /*' A; ., ^ 25' ,,' 60? .. 12' 2,1',)*' 6212')*' .' D*,-6 *0' 2,1'6' /*+ , '1 '-*?6-9'6/,15*,)*-' 2>12. .,*2,' 8 ,)' ,)*' .;=^ =1. , 12' ,)6,',)*' D119' .' 2.= -*0' M 1,' ' b1' 1!' -1?' ,) .' , ?*' ,)*' .>/ 1/6-.) =' 1 ' 4*-?62 ' 86.' ?6 2/ '*2/ .,*0'12',)*' . 0*' 1 ',)*/ ,*-6/ .,. ()*' / ,*- 7' D6. .' D*>6?*' ,)1-1;5)/ ' 0 ..1> 6,*0' -1?' ,)*' ? ., >6/ .;=*-.,-';>,;-*' 620' 6// ,)6,' -*?6 2*0' D*' 012*' 86.',1' */;> 06,*' ,)*' ,-;*' .>)*?*' 1 ',)*' 1-?*-' ()*' ?1.,'5*2*-6// '-*>* +*0' 2,*-=-*,6, 12' 1 ',)*' ?10^ *-2' ,*-6/ .,.' .',)6,' 8) >)' 86.' 1- 5 26// '=-1=1.*0' D ' B6>1D ' M X' 601=,*0' D ' : *-0*-' ? ?12' $?D-*, ' 86/0 ' *,>%' 620' ?1-*' -*>*2,/ ' D ' -1 % < * *-' 1 ' (;^ D 25*2' M QS X' 620' 2' 25/620'D ' < -4 2.D:,-5' 2') .' /*6-2*0' ,-62./6, 12' M Q X% >>1-0 25' ,1' ,)*' 0*^ ,6 /*0' 6==/ >6, 12' 1 ',) .' + *8' 6.' 5 +*2' DE' <-4 2.^ D;-5' ,)*' 125' .' 2,*20*0',1' 0 .=/6 ' " ' ' " ' ' ' 1->,!' " ' % ' ' 2 + ' 2 ' ()*' ,*?=,*-' .' 1/1?12' ,)*' 1D A*>,' 1 ') .' .*0;>, +*' *20*6+1-.' .' 6') ;/6?,*' .)*=)*-0*.. ' 8)1' .;--1;20*0' D ',)*' 5/1-*.' 1 ',)*' >1;-,' 620',)*' 6.>26, 12.'1 ';2812,*0' .=/*201-' = 2*.' >0',)*' .)*=^)*-0C/1+*-' -1?' 8)1?' .)*')6.' D**2' 2+1/;2,6- / ' .*=^ 6-6,*0%' 2',) .' .>)*?*',)*' 0-6?6' .' 0 + 0*0' 2,1' +*' .*>, 12. ' 20 >6,*0' D ' ,)*' ,)- >*C-*=*6,*0' 1-?;/6' 1 ' 60A;-6, 12' M ' T' ' T' + ' X' 620',)*' ;.*' 1 '621,)*-' >/1. 25' .*2,*2>*' M+ ' X%

*>, 12' ' M>)% C// ' (Xa =>*2>' 6' >122,- C :F6,' 1 ' 1(1?12% ()*' .)*=)*-0*..I' .'>1?? ,,*0',1',)*'>)6-5*' 1 ',)*'>1;-,/60 *.' ZW0625),>- '1 'B*286/*?JX' 8)1')6+*' D**2' 2..-;>,*0',1'=-*CI' A<-*',)*' 86 ' 1-',)*'-1 6/6==-16>)' 1/1?12'?69*.' 62' ;2^ .;>>*.. ;/6,,*?=,' ,1' 8 2')1-;(;2,% *>% K' M ' QC 'SXa' ,)*' .)*=)*-0*.' *L=/6 2.',1',)*' >1;-,' /60 *.' ,)*' >-.*/, ' 1 ')*-D-1,)*-.I' 8) >)')60' /*0',1',)*' .*=6^ -6, 12' D*,8**2')*-aI*/'620')*-' D*/1+*O% *>% N M ' C+' Xa' *2,-' 1 ',)*' -1 6/,-6 2' 2,1' B*-.:6/*?% ()*' .)*=)*-0' 6//18.') .' D*,-1,)*0' 2,1',)*' >, '620' =-1=1C 16 .1' -*.>;*')*-% 1?*' 1 ')*-' >1;-,'>-X?=%2 12Q' 6-*' 6+1-6^ D/' ?=-*.' *0' D ')*-'>12.,62> % *>% M ' KC+ XT' ,)*' .)*=)*-0*.' ,*//.')*-' 0-12?' 620' ., // 6-,)*-'*2565*.' ,)*' . ?=6,)*.' 1 '),-' >1?=62 12.% (?' 9 25 .' /6,,*-' *.' 620' =-1? .*.'6->' ;26+6 / 25% *>% M ' C Xa' ,)*' >12 />,' ' 1+*-T' + -.;*' 620',-;,)')6+*' 812',)*' +>,1-X I' 620',)*' .)*=)*-0*.' 620')*-' D' /1+*0' -*.;-2',1',)*' .')6== ')1?*' + . 25' 12',)*' 86 ',)*' .-**' D*^ 2*6,)' 8)1.*' .)60*',)*' -.,' =/ 5),*0',)*' -' ,1,)' M+ ' % X% : *-' D-1,)*-.*=*6,)*' =-1? .*.' 8) >)' ,)*' ?1-6/',*6>) 60' 12>*' ?60' >120 , 126// ';=12')*-'f -,';1;.' 620' -->=-1.%>)' D/*' >120;>,%

+*2' 2' 4*-?62 ')18*+*-' 6' .,-125' D% 20' 1 '-*6>^ , 126- ' 1//*51- .,.')6+*' ?6 2,6 2*0',)* -' 5-1;20' 2^ >/;0 25' .;>)' 26?*.' 6.' : ;5' 6 .*-' 1.*2? ;//*-' : 6)2 '620' : *25.,*2D*-5% 2',)*' 8)1/*',)* -',*20^ *2> ' .',1' -*,;-2',1',)*')6/0*** =6-6=)-6.*' 6',*20^ *2> ' 8) >)' .' .=*> 6// ' ?6-9*0' 2' 1.*2?;//*-% 2' 25/620' ,/*/ /X6,,/>' 1 ',)*' /,*-6/ .,.')6.' D***2' 1;5),' D ' -' *' ? ,)' > ' J' 1-' QN ' NQXT' 2' ?*-*6'D ' -1 ' 1 *.' 8)1'601=,.',)*'*L,-*?*' ' ,)*1- ' 620' .' ;28 // 25',1'-*>152 .*' 2' 62, >/*.' ' ' ' ! ' .)1;/0' D*' 1D.*-+*0',)6,' .;>)' 6' .*2, ?*2,'6.',) .' 1 ' -% 1 *.' .' ;,,*-/ '6/ *2' ,1',)*'+*8.' 1 'B6>1D ' 620') .' 1//18*-.' 8)1' >12>* +*' ,)*'-*>1? ?*206, 12' 1 '+ -,;1;.' /1+*' 620' >12.,62> ' ,1' D*' 6' =1-, 12' 1 ',)*'+*- ') 5)*.,' ?1-6/',*6>) 25' 620' 2' 21' 86 ';281-,) ' 1 '62' 2.= -*0' 8-,*-% ()*' 6//*51- >6/ 2,*-=-*,6, 12')6.' D**2' 0* *20*0' 2' ?*-' >6' D ' -1 *..1-.' ,;6-,' 620' ;--18*.% ()*' 9 '6-5;?*2,.' 600;>*0' D ',)*' 6//*51-%.,' 6-*' .;D^ .,62, 6// ',)*' .1?*' 8 ,)' ,)1.*' ;-5*0' D ' 6/1+ ;.' 656 2.',)*/,*-6/' D6. .' 1 ',)*' ? .,>6/ 2,*-=-*,6, 12% ()*' 1//18 25' 6-*' .=*> ?*2.á I !8' 6-,>;/6-.' 21,' 6=.f =/ >6/0*',1' 1/1?12' M+ ' KX' MS%X' 6-,>;/6-.' 21,' 6=^ =/ >6D/*',1',)*' 8 *' 1 ' 1/1?12' M ' S' QT' + ' T' + ' >1?=' ' SX% M>%X 1/1?12'600-*..*0' 2',)*' .*>120' =*-^ .12' M+ ' KX% MO%X 6-,>;/6-.' 2>12. .,*2,' 8 ,)' ,)*' 1-0 26-A7' >120 , 12.' 1 '0*>*2,' /1+*' M+ ' KX% I !8' 6,*' ,8*2, ' 1' 1/1?12 .' ?6-- 65*' 8 ,)' ,)-6) 61) .' 06;5),*-' M>1?=% 62,' + ' 620' ' 25.' + ' NQX% ' 8 // -*60 / ' D1' 1D.*-+*0',)6,',)*.7'6-5;?*2,.' 01' 21,' 2' 62 ' 86 '6 *>,',)*/,*-6/',)*1- ' 1 'B6>1D 1-' ' 6-5;?*2,.' ,)*' 6//*51- .,.' 0*=*20' =-2^ > =6// ';=12' D "' ' " ' ' ', 9 ' % " !' ()*' +6/;*' 1 ',)*' 1-?*-' 6.' -*.=*>,.' 6' >1?=1. , 12' 1 ',)*' ,)' >*2,;- ' % %' .' *., ?6,*0' D ' < >)6*/.' M 1% ' "8' 6,' 6' +*- ' /18' -6,*% 1-' ,)*/6,,*-' ,' .' ;.;6/',1'-* *-',1'.;>)'6';,)1-.' 6.')6-^ 0 2' -' & %B12*.' : *-D*/1,' *,>% M.**' 1.*2?% & =' D(8!' 1.*2 8#//*-' 5 +*.' 6' .125' 1 ' :6 C[' 8,)' ' =6-6=)-6.*' D ' 6' (;-9 .)>1??*2,6,1-' 8) >)' ;2 1/0.' ,)*' .= - .;6/ ?*62 25% 1-' 1,)*-' .=*> ?*2.' 1 ',)*' .6?*' 9 20' .**' 62* .' 6 % ' ' K ' .% 2',)*' 1,)*-')620',)*' 1DA*>, 12.',69*2'D ' -% 1 *.'6-*'+*- ' ?=1-,62,'I1O ' - !8!' ,' 81;/0' .**-,',)6,',)*-*' .' 12*' *..*2, 6/ 0- *-*2>*' D*,8 **2',)*' 125' 1 ' 1/1^ ?12' 620',)*' 6//*51- >6/ >1?=1. , 12.' 1 ',)*' =1*,.' 2' _;*., 12% 2',)*' /6,,*-',)*' 6//*51-EI' .' ?1-*' 1-'/*.' 6+1 +*0' 620' 0 ., 2>,'-* *-*2>*' .' ?60*' ,1',)*' ;=-*?1' * 25T' 2',)*' 1-?*-',)*-*' .' 21,) 25' 1 ',)*' 9 20% ;',)*' ?1.,' ?=1-,62,' >12. 0*-6, 12' 600;>*0' " ',)*' /,*-6/ .,.' .',)*' 6>',)6,',)*' 62, >/*.'6-*',)*'=-10;>^ , 12' 1 '6' 0 *-*2,' >1;2,-X7 620' .*=6-6,*0' -1?' ,)*' .125.' 1 ',)*' ; .' 620',)*' : 2011' ? .,>.' D ' 62' 2^ ,*-+6/ 1 '2*6-/ 'K ' *6-.% (1',) .' ,' ?6 ' D*' 600^ *0',)6,',)*' 125' 1 ' 1/1?12' .=- 25.' 1;,' 1 '6' -*/ 5 12' 8)>)')6.' 21,) 25' 2' >1?? 12' 8 ,)' ,)*' =62,)*. ?' 1 ' *-. 6' 620' 20 6% 2' .)1-,' ,)*' >120 , 12.' 1 '=-10;>^ , 12' 2',)*' ,81'>6.*.' 6-*' ;,,*-/ '0 .. ? /6-% ;',)*' /,*-6/ .,.' 6-*' 21,' >12,*2,' 8 ,)' 0*.,-1 25',) .' 626/1^ 5 'T ,)* ' =-1>**0' 6-,)*-' ,1' ?6 2,6 2',)6,' 6//*51- *.' 01' 21,' 5*2*-6// '1>>;-' 2',)*' .6>-*0' 8- , 25.' 8 ,)1;' .1?*' 2, ?6, 12' 1 ',)* -' .*>1206- ' ?*62 25' 8) >)' 2, ?6, 12' 2',)*'>6.*' 1 ',)*' 62, >/*.' .' 21,' 1-,)>1?^ 25% ()*' 6-5;*' -1?',)*' ,1,6/ .*2>*' 1' 1;-' 1-0' 620') .' 6=1../*.' -*.=*>, 25',) .' D119' 21,' 20**0',)6,' .' ;2 2.= -*0' D;',)6,' ,' 86.' 2*+*-' 2,*20*0',1' D*6-' 8 ,) 2' ,.' =1*, >' *2+*/1=*',)6,' ? ., >6/ .*2.*' 8) >)' 81;/0')6+*' -*20*-*0' ,'6' =*- *>',-*-,6.;- '1 '-* *-*2>*' 1-' 6;/8)*2' ;2 1/0 25',)*' .= - ,;6/ -*/6, 12' D*,8'**2')- .,' 620') .');->)' M.**' K' 1-' L ' KT' 1?% + ' T' =)% + ' KNCNKX% 56 2' ,' .' ;-5*0',),' ' ,) .' =1*?' D*' 6//*51- >6// ' .= - ,;6/',)*2' ,.' .= - ,;6/ ,)*?' 1 ',)*' +*-A') 5)*.,' =-0*-' 620' ;,,*-/ ' 2>12. .,*2,' & ,)' ,)*' 1= 2 12' 8) >)' 6.. 52.' ,'1' 1/1?12% ()*' =) /1.^ 1=) ' 1 ' 1/1?12' 6.' 5 +*2' 2' >>/*. 6.,*.' .' 6'=) /1.^ 1=) ' 1 ' 20 *-*2>*' 6==6-*2,/ ' ;55*.,*0' D ',)*' *L^)6;., 12' 1 '6// .1;->*.' 1 '=) . >6/ *2A1 ?*2,% ()*' -*/ 5 12' 1 ' 1/1?12')60' D;',/ ,,/*' =-6>, >6/ 2/;*2>*' 12') .'/ *T ')*' &(1,*',)*' 5/18 25' .= - ,;6/ .?' 1 ',)*' 62, >/*.' 8)*2' 6' 1;25'?62')18' >62' 8** 6>>1;2,' 1-') .' *6- ;/ 0*5*2*-6> 'H ',)*' =1*?' 86.',)*' =-10;>^ , 12' 1 ') .' 1/0' 65*')18' >62' 8*' -*>1- > /*' ,' 8 ,)' ,)*' /6.,' 6>,'-*>1-0*0' 1 ') ? ',)6,') .')*6-,' 86.' 21,' =*-^ *>,' 8 ,)' ,)*' 1-0') .' 410HJ' 1-',)*' .6?*' -*6.12' ,' .' ?6 2,6 2*0',)6,' 21' 1,)*-' 8- ,*-' 81;/0')6+*' .*/*>,*0' 1/1?12' 6.' 6' . ?D1/' 1 ',)*' <*.. 6)' ()*' *L>*.. +*^ / '6?6, +*' >)6-6>,*-' 1 '.1?*' =6..65*.' .' 0*. 526,*0' 6.' 6/?1.,' D/6.=)*?1;.' 8)*2' .;==1.*0',1' *' 600-*.*0' D ')- .',1') .');->)' M+ ' K' N' ' QXT' 620',)*' 6>,',)6,' ,)*' 0-6?6, .'=*-.126H 6-*',)-**' .'-*56-0*0' 6.' 0*> 0*0^ / ' .;D+*-. +*' 1 ',)*' 6//*51- >6/ ,)*1- % .' .,-125*.,' 6-5;?*2,' 12',)*' .0*' 1 ',)*' 6//*51-^ .,.' .',)*' ?6,- ?12 6/ ?*,6=)1-' .1' -*_;*2,/ ' *?^ =/1 *0' 2',)*' >-=,;-*.',1' 0*.>-D*',)*' -*/6, 12' D*^ ,8**2'B*)1+6)' 620' .-6*/ M .10% LLL +' ST' ;?% d 'NRT' .6% LL 'K T' B*-% ' C T' [*9% L+ ' LL ' *,>%X% ',' .' ;// '.,6,*0' D ' -1 % ;,6-,' M % -!' (8! 2',)*' 1,)*-' D620',)*' ,)*' ,*-6/ .,.' 0*2 '.1'*6-/ '6' ;.* 1',)*' ?*,6=)1-% ()* '>12,*20',)6,',)*' =)-6.*.' 0*C .*- D 25' .= - ,;6/ 1-2 >6, 12' 620' 60;/,*- ' -*=-*.*2,' ,)*' ,*-6/ 6>,T 620',)6,'+*2',)*' ?*,6=)1-' 6.' ;.*0' D ',)*' =-1=)*,.' 8)1' / +*0' 6 ,*-' 1/1?12' ?=/*.' 6' 8*00*0' -*/6, 12' 620',)*-* 1-*' >6221,' D*F >1?=6-*0' 8 ,)' ,)*' 62,*C2;=, 6/ 6 *>, 12' 8) >)' 1-?.',)*' .;D^ A*>,'1 ' 62, >/*.% ' ? ,)' ' ' ' 1'.%+% 2',)*' 8)1/*' 6'>1?D 26, 12' 1 ',)*' ?10*-6,*/ ' / ,^ *-6/ 2,*-=-*,6, 12' 8 ,)' ,)*'%5*2*-6/ 6//*51- >6/ 0*6 .**?.' ,1' D*',)*' -;-*' 12*' D ' 8) >)' ;20*-',)*' 5;-* 1')6.,*' >12A;56/ /1+*' M=-1D6D/ ',)6,' 1 ' 1/1?12' 620' ,)*' 5 =, 62'=- 2>*..X' .*,' 1-,)' 2' - *2,6/ ., /*' 620

86-?,)' \.**' ;',)*' ;2 12' 1 'B*)1+6)' 620') .');->)' .' -*=-*.*2,*0'6 ,*-',)*' 626/15 '1 '6' =6-6^ D/*' M_%' %X' //'6,,*?=,.')18*+*-') ,)*-,1' ?60*' ,1' >6-- ',)*' *L=/626, 12' 2,1'0*,6 /' *.=*> 6// ' 2',)*' 6=^ =/ >6, 12'1',)*' /625;65*',1',)*'=)*21?*26'1 ' 20 + 0^ ;6/ -*/ 5 1;.' *L=*- *2>*')6+*' D**2' . 526/ 6/;-*')6+ 25'D**2' 20**0'-6,)*-',)*'1 .=- 25'1 '6' .*2.;1;. 626, > . ?' 1-' 1+*-C8-*;5),'*2,);. 6.?',)62'1 '.1;20' 0*+1, 12' 1-' .1D*-' 2,*-=-*,6, 12% **' # f (69 25',)*-* 1-*',)*' 5-1;20' 5;-*' 1 '>122;D 6/ 6.' , = >6/ 1 '0 + 2*' ;2 12',1'D*' 2,*20*0',1'D*' -*=-*.*2,^ *0' 2' EEE ' '*L=-*.. 12'12/ 'D ',) .';2 _;*' .=*1C B?*2'1 '.6>-*0'=)62,6.?651- 6'8*' ?6 '+*2,;-*',1'6-^ -625*','0-6?6, >6// '.1?*8)6,'6.' 1//18.a

(?*%	/2>*%	*-.12.%	6DA1>,%	,..2 >%
% <1-6% +*%	2,*>)6?D*-'1 '=6/6>*% ;0 *2>*C11?'1 '=6/6>*%	- 0*'620'/60 *.% - 0*'5-11?'620'6,,*2062,.%	()*'8*/>1?*'0F',)*' ;,;-*')1?*% ()*' 8,' 2,*-+ *8%	RC/' %
K% <1-6% +*%	6/6>*' 8 2018% - +6,*'>)6?D*-%	- 0*'620'5-11?% - 0*%	()*' 2+,6, 12' 2'.*-*2606 ()*' *6->)' 2' 62> %	' C % ' C %
N% <1-2% +*%	-12,'1 '=6/6>*% 6/6>*'56-0*2%	- 0*'5-11?'620'/60 *.% - 0*'620'5-11?%	()*'-*,;-2' -1-,'=6-60*% ()*'+0,'620'*L>; . 12%	' C % +',C+' %
% <1-6% +*%	- +6,*'>)6?D*-% 6/6>*'6=6-,?*2,%	- 0*'620'/60 *.% - 0*'5-11?'620'+ . ,1-.%	()*'0-*6?% ()*'-*>*=, 12C=6-, % ()*',1 /*,,*%	+'KC+'N% +' C N% +' C %
% <1-6% +*%	- +6,*'>/ 6?D*-% - +6,*'6=6-,?*2,%	- 0*'620'/60 *.% - 0*'620'5-11?%	()*'?;,;6/6+186/% ()*'*I=12.6/%	+' C+:/'Q% +' C %
% <1-6% +*%	;D/ >'6=6-,?*2,% - +6,*'6=6-,?*2,%	- 0*'5-11?'620'8 ,2*%O.>N% - 0*'5-11?'620'D-1,)*-.%	()*'018- %	+' C %

% (! + ' ,')6.'6/-*60 'D**2'1D.*-+*0',)6,' ,)*'D119'86.'-*A*>,*0' -1 ',)*' 6212'D ' 6.,*// 1'620' &) .,12'D:,' 2'21'>6.*')6.' ,.'-*A*>, 12'D**2'0* *20*0' 12' '5-1;20.% ,' :' 1;20' 2',)*' *=,%'620' 2' ,)*',-62./6, 12.'1 ' _;/6' =?6>) .'620' ()*101C' , 62%' ,' .' >12,6 2*0' 2',)*' >6,6/15;*' 5 +*2' 2',)*' (6/7;0'620' 2',)*'>6,6/15;*'1 '<*/,1' 620 ' 2'.)1-,' 8*')6+*',)*' .6?*' *+ 0*2>*' 1-',.' >6212>, '6.',)6,' 8))>)' .'>1?7?12/ '600;>*0' 1-',)*' >6212>, '1 '62 ' D119'1 ',)*' %'(

% (1 '7()*' 1//18 25'6-*',)*'>L*5*A, >6/ 81-9.'*L=-*../ '12',)*' 8)1/*' 1 ',) .' D119'6' *8' 1 ',)*'?1.,' ?=1-,62,'D* 25' 20 >6,*0'D '62'6.,*- .9'MIX =-*)a>= /â I(' 5*2' # 1'*,>%'M 2'L%%!' 'K'KN'R Et' (' *-' ;/;.P' @ 1 'M 2'4-6D* .'$% (1' 'KKNXT' ;7 AD;.'6 % '\4-%'620' 6,%h'M 2'<*;-.' ,% E' + ' KAXT' 1/ >)-12 ;.'620' .*//;.'6 % # 'M*O% <*;-.;.' ;50%' S ' ,1XT' ,)626.;.' 'M 2' L%%!' 'N XT' 6/.1' @ 'I "!' ' ' XIT' o4-*51^ - ' ..*2%'6 % 'M 2'L%%!' 'SQT' 6/.1' ; !' !' 46//' + ' S XT' ?/X-M.*' 'M 2' L%%!' ' -P ZPXT = =)62 ;.' 'M*O%' 155 2 ' 1?% ' ,1XT')/1' 6-=6,) ;.' D % ' M 6,%' 2' ; !' !' '+' SS 'T 4-%'620' 6,%' 2' ; !' ' 46//' L' NT' 6/.1' 6 1' *O%' -%'620' 6,%' 4 6>1C' ?*//' 1?% K' ,1XT' ()*101-*,' 6 %1 8' M 1?% SN' 1/%T' *2% ' ,1T' 6/.1' 2' L%%!' ' T' ,-%' 2' 1>*' 1 ,)*');->)JXT' 6.. 101-;.' 6 % 'M 2' L%%!' ' RXT' 4-*51-' ,)*' 4-*6,' 6 % 'M 2' L%%!' / ' ' NR XT' B;.,;.' -5*/,62;.' D %2 'M 2' ; !' !' ' L' %N XT' . 01-*' 6 % 'M 2' L%%!' =% NXT' ==12 ;.' 6 'M 2' ; !' !' 'L +' RQXT' ;^ >6.'$ ' 'M 2' ; !' !' 'L +' KQXT' $06/C' - >;.%' $ " ' M %XT' *0*' 6 % 'M 2' L%%!' + ' T' 6/.1' + ' F' 4 /*.' L' QSXT' />; 2' % ('M 2' L%%!' ' 'NR XT' 25*/1?62;.' 6 'M 2' ; !' !' 'L +XT' -;21' .,*2. .' 'M 2' L%%!' XT' 2.*/?' 6 81 %X' I ' L%%!' *O%' >6-OXT' ;=*-,;.' (; ,*2. .' 'M 2' L%%!' ' RQSXT' *-26-0' $ 1' 'M 2' L%%!' ' 'KS RT' 6/.1' !' ' ' XT' - ?=*-C' ,;.' ' -"] !' ' 'NSRXT' _; 26.' 'M 2' L%%!' XT' :121- .' ;5;.,10;2*2. .' 2 'IE 'L%%!:'6/.1'; !' !' !'LL' RSNXT' B6->) .'6221,6, 12.'\:*D%h'M 2' ;L,1- .' 6DD 2 >6/' D/*'_%+%XT' 6.) .' M 2',)*' 6DD 2 >6/' D/*.'T 6/.1'8,)' 6,%,-%'D '4*2*D-6-0' 6-' '620' Q Q+1T' 8,)'21,*.'D ' -*,)6;=,'41,)6' ' ,1T' 2'B*8 .)C' 4*-?62'D ' -*.>)' -*?126' S ' 1/%' 620' . 2>*XT' % % D*2C<*-' M 6.)D6?X' M -.,' =;D/.)*0 =[%' Q 'Q+1XT' I D*2C [-6' M 2' -629 ;-,*-.' 6DD 2 >6/' D/*'T' 2' 6,%' D '4*2*D-6-0' 6-.' 620' Q Q' Q+1XT' /.>)*>)' M *2 R '620' 7S ' ,1'620'. 2>*XT' 6>)?62'M1-'-6,)*-' .6-*/' % % >-% K X' \ 6D6/.,>h'M /,126 S ' ,1T' 2>/;0 25'>1??*2,.'D ' D2C(6?6-'B1)62C 2 .D%' Q 'Q+1XT' -6?6' M 2',)*' ?.,%' 6DD% D/*' 8)>)'/9*8 .*'>12,6 2.',)1',)-**' 1&18 25XT' *' 6 1/*.' $C(/#' M % 0*' (-*2,1' SS ' ,1XT' B1.%% D.2CB6>)A6' M 1/1526' NQ' 1/%XT' .% B66)*[2 7='M */+ 0*->' 2% 0' 1/%XT' :1/91,' O 2' M *2%' R' 1/%XT' >% 0*' -5*2, 26' 6 % ' M *['; !'& !'L 'L XT' ()1?6.' *->*//*2. .' J 'M *[' -+ ' ' NXT' *-*['6 % 'M 2' 6 %!' !(8T' 60;/=);.' 62,62*//*2. .' ' M:1?7* ' $ %% !'=%'K SXT' 4*-.12' - 'M 2' L%%!' +'K XT' I ;,)*-'6 ('M ,*?D%' NQ NR'Q+1T' 6/.1' 2' ,%%' 6, 2' *O%' ,%' +' RT' *O%' B*2%' +' KK4T' 4*-?%' *O%' =.'+ ' T' *O%' :6/%' +' KQQ XT' U8 25/>7' % 'M 2' ,%%!' /7T' 7<6-/1-6,;.' 6 % 'M 2' !' '*,>%XT' *[6'$ 'M,-%'D ':6-?6-' L %' Q ' ,1XT' :6//' %" 'M 2' " ' 'K '*,>%XT' ()*-*.6'6 % 'IE 'I6 1'=%'QKRXT' B62. >2' 'M 2' 1' <6/0126,;.' ' 'M 2 1'=%' 1XT' G<1->*-' 'M 2'D 1' *,>%XT' & />1>9.'6 % 'M 2' + 8T')' 6=0>' ' E'M 2' # 8E' :1?*.' 'M 2' < 1-V$XT' 6.,*//'& * 'M 2' & 6/,12 .' - X T' (*5>C' /6,)'6 % ' M 7*2%' ' 1/%XT' :6/5-2' 6 % ' M 6-%' K ' 1/%XT' 4;06>*-' 'M 6-%' N ' Q+1XT' -D1-*;%.' 'M 6- .' N '620' N' 1/%XT' (,*/?622' 'M 2,8%' 'Q+1'620' /6,*-XT' /96/P*[' M *2%' K',1XT' 62C 2 ;.'$ " 'M 12%' ,1XT' D%)*2C .619'M(6?69X' M8 ,)'1,)*-.' 6D 12*,,6' Q' K?1T' -65;*' S ' ,1XT' ,- 5>/'$ " 'M =.%' S 'Q+1XT' /?1.C' 2 21' M 6/12>6' KT' *2%' R ' ,1XT' <*-^ >*-' 'M4*2%' NT' % % 4 ' 1/%XT' D2C' B6 .>)' M 12.,62,%' S' 1/%XT' 4*2*D-6-0 , 2 - 'M 6-%' R' ,1'T 6/.1').' %" 1' D% Q ' Q+1XT' -*=1/' /$'M 6 *,' R' ,1T' 6/.1' 2' 22 d' *2' RNXT' 660 6.' M -1 _ ,)*' -6D'8 ,)'1,)*-.'12',)*'.6?*'D119' 12.,=/%'2%'0C' ,1T' -.,'.*=6-6,*/' -65;*' Q',1'*,>%XT' -1>6-C' 0;.' % 'M %' Q 'Q+=XT' 46-[6'6 % ' M 1?=/;,% Q ' 1/%'620'/6,*-XT' *'/6':;*-56' 'M 1?=/;,% QK' 1/%XT' 6? 62;.' ' 'M *2>*' Q ' ,1X'T /?12>-;.' M 1?=/;,% QQ' ,1XT' ///6>92> ' 'M *2% R ' ,1XT' 1..*, ' 'M *2%' R ' ,1XT' %(62.12' 'M 120%' RS' 'T 251/.,60,' S 'Q+1XT' 4 /(6-0' M 120%' RQ'Q+1XT' -;C >1/.'>1??*2,6-'M 2',6/62' *2%' RQ'Q+1XT' 1,1C' ?6A1-' % 'M / ..=%' RR' 6-.'S ' 1/%T' 6/.1'7 I 1' D%' S ' ,1XT' B*.;' <6-6' % ' M 1?%' S ' Q+1'620' /6,*-XT' *' A*O6' ' M:.=' S K' ,1X'TY /6=)6?'6 % 'M 1;0%' S N' Q+1XT' */ 1' 'M 251/.,%' S ' 1/%T' 6-% S ' ;50%' SN ' ,1XT' 162[' -.(8' \ 6D6/.^ ,>h'M 6.*/' S ' S K' ,1XT' (;>> ;6' & J

M ;5O% S 4' ,1X" B6?*.'6 % 'M L' S ' ,1X"
/>6[6-' D*2CB*/ ;O6' M46-? .6X' \ 6D6/ .C
,1h' M -6>18' S Q' ,1X" *-12 ;.' " " 'M - D%
S;R' ,1X" 4) ./*-' % 'M$1?% S R' 1D'620'
/6,*-X" <6,' M -65;*' S K' 1DX" >)6-,C
/* .'>1?7*2,6- '\B*8 .)C4*-?%h'M -65;*' S K ,1X"
62>, ;.' 'M ;5O% S S' ,1X" 5 0 ;.'
6 % 'M 1?% S S' >2% S ' ,1X" *--6- ;.' =
'M ;5O% S S' <*0 1D' KS S' ,1X' " 62601'
\ =62 .)h' M *2 >*' S R' ,1X" -56/ '
'MD120' SK ' ,1X" 4*DD6-0' 1-' &*.*2*-'
6 % 'M SK ' ,1X" 6 ,6>;[*2;.'6 * 'M 1?'
SK = 1DX" 6,) ;.' %" 'M 2,8' SK 'Q+1X"
2.81-,)'& 'M 12O% SK ' 1D' 6/.1' 2' 4*-I'
?62' %6O' % SRK' >-D' N 'Q+1X" <6/0*-' =
'M 2,8% SKQ'Q+1X" *-*5- 2*'&%% '
SN Q+1X" 1;>*' 'M 12O% SN Q+1X" 6C
/1.' - 'M:6?D% SN ' ,1X" I4*-)6-0'6 =
'MB*2% SN ' ;D' S ' =[% S K SSS ,1X")*-C
/15' 'M ;5O% SNNC 'N' +1/.% 1DX" ;-C
*/O' % 'I (!' SNN'Q+1" S N' ,1X" 1/1)'
6 % 'M 12012' SNQ' ,1X" :* /=-12
M ;DD' SNR' 1D X" DD.'$ 'M 12012' SNR' S '
,1" 6/.1' 2' + ' ' X" *,-.*;.' %" '
M:6 2% S ' ,1X" -*. ;.' N 'M<*0 1/% S '
,1X" D*/' &H2>F?26AM 6+>2,% S ' ,1X" 2,;.'
'M ;5O% S K' 1DX" *' 6/6[6-'6 % =
'M ;5O% S K' 1DX" 1/,12'6 % '7 12012'
S K' Q+1X" -5),?62' 'M 12O% \6/.1' 2'
6,% 6. /%h' S ' ,1X" *..12' " 'M ;5O%
S ' 1G%X" *' 12,*'6 % 'M 6-.' S S' K' +1/.%
1/%X" (-6=' 'M 12O% S ' ,1X" 1D1,)C
6?'6 % 'M LX2O% S K' >1X" -1?12O' =
'M 1+62% S K S ' ,7 1" 1' 6 6.' 9
'M4*2% S S' 1/%+1/% X" 1' /6' /6>*'6 % '
M 6;?% S S'Q+1" 2' 6,% -62*9% SRR 'K'+1/.%X"
4;/O'6 % 'M 12O% S Q'Q+1X" **=*-I -*OV7C
'M%/*2% S K' ,1X" :6?7120' %" 'M 12012'
SSK' Q+1X" $0*?62.' *L=1.,12' M2' ;,>)' ?.,%
SS 1" 2' 4*-?% ;2*2D% SS 'Q+1X" I(-)6?' " '
M 0 2)' SSQ" 12012' SSR" 2' ;,>)I'$,-% SQ 1" 2'
4*-?% =[% SR ' ,1X" ;-)6?'6 % 'M 12012'
S%Q' ,1" 0 2D% K ' ,1" D*-0**2' Q 'NK?1'
*,>%X" 4-12*8*5*2.' >1??*2,6- ' M2' ;,>)' */+%
! S 1" 2' 4*-?% -> ,% ' ,1X" 1// 25*.'$ '
M 12012' S SCQN' K'+1/.% ,1X" *' 6/*.'6 % '
M2' , 'L +X"1" I *' */'6 %2 'M 12O% S R'
Q+1X" /)*--' (- 'M -6, .D' Q 'Q+1X" *2C
2*-,'O 'M ,*?D% SQ % SQR' ,1X" -62>1C *--621'
M ?.,% SQN'Q+1" 4;12.'>1??*2,6- 'M2'
-*2>)' * O% SQQ'Q+1" 2' 4*-?% -> % S K?1X"
>) ,,*2' 'M =.' SQQ' ,1X" ;-6,;.'
6 % 'M ;5O% SQR' SRN' Q+1X" 1;-06/1;*'6 9
% 'M 6-.' SQR K?1X" :*;2.>)' '
M =.% SQR' ,1X" 0 ;.'N + 'M ?.,% SR '620'
R' Q+1X" 212 ?1;.'6 % 'M 6-.' SR '
Q+1X" 1..;*,'7 'M 6-.' SRN Q+1" 6/.1' 2'I6 '
LL 'N X" 4.>)8*20'7 'MB*2% SRR' Q+1X" <6->)'
, 'M ?.,% N' ,1X" :2?12'6 % '
M 6-% Q '+1/.% K?1X" 212 ?1;.'$% '$ '
M ,)'>0' 12012' Q'Q+1X" 06?'6 + 'M =[%
Q' ,1X" **D6>)'6 + 'M * =[5' 'Q+1X"
212 ?1;.'6 % 'M 6-.' K?1X" :*;2.>)' '
M =.% SQR' ,1X" 0 ;.'N + 'M ?.,% SR '620'
R' Q+1X" 212 ?1;.'6 % 'M 6-.' SR '
Q+1X" 1..;*,'7 'M 6-.' SRN Q+1" 6/.1' 2'I6 '
LL 'N X" 4.>)8*20'7 'MB*2% SRR' Q+1X" <6->)'
, 'M ?.,% N' ,1X" :2?12'6 % '
M 6-% Q '+1/.% K?1X" 212 ?1;.'$% '$ '
M ,)'>0' 12012' Q'Q+1X" 06?'6 + 'M =[%
Q' ,1X" **D6>)'6 + 'M * =[5' 'Q+1X"
212 ?1;.'6 % 'M 6-.' K?1X" :*//*2C
)-1>9'N + ! M ?.,% Q' K '%K'+1/.' ,1X" <C
>)6*/.'& 'M:6/' K ' ,1X" 212'M6 ,*-'
;?622X'6 + 'M -./6;' K 'Q+1X" !&6>,*-'
& + ' 'M<*?7% KK' ,1X" <//' O' (=
'*,>%M$/,-2A% K ,1X" *--' %" 'M 0 2D% (=
K ' K?1" 6/.1' 2' '$ ' X" ,*22*,%N '
M 2' + '+X" 4//'6 % 'M 120' KQ' 1DX" *^
,*-.*2'6 + 'M ;O% KQ'Q+1X" &19*2' 1'
'M ,*?D% KR' ,1X" (*-2*') !' '# "!M =[%
NK Q+1X" *2)6-0' N'H+1X"
<1.*.' D*2C: //*/' MU1/9% 'Q+1X"
-.9 2*' %" 'M 2' + 'L'Q R' X"A /620
%'4

N 'M 12012' 'Q+=X" 212A?1;.'6 + '
M *-D' ,1X" 1) D*-' ;.> -* 88'M ;5.D% K'
Q+1X" 212%6 + 'M =[% S' 'QQ'Q+1X"
212 ?1;.' %"* 'M:6//*' S' Q+1X" :62.C
.*2'; " 'M:6?D% S' ,1X" *?/*-' N =
'M:6/% Q+1X" & /)*/? '& + 'M =[%
S 'Q+1X" =% *-> ' 'M 12O% S 'Q+1X"
:6-?*-' , 'Q+1X" IB6>1D'6
M *//*' 'Q+1X" 2,12'6 2 'M =[% N'Q+17'
6/.1' ,*D%620' =.' RN Q 'Q+1X7' 62' 11C
,*2', 'M(-%60')% ' ,1X" *;2)1*-'
& + 'M -*?'620' =[% 'Q+1X" <-.% 180C
/*-% 'M 0 2D% S'Q 1X" 4-**2'7 'M 2'
'L'-%X" ;0*-86/0'6 + 'M&1/>2D;,,*/'
S' Q+1X" 12' ; *201-'6 + 'M -*?' S'
,1X" :*[*/'6 + 'M =[%620' -*.D' 'Q+1X"
3U 2>9' 'M ;5.D% Q' ,1X" *.. 25' =
I % 'M =.% R' Q+1X" :*-0*-' % '
M =.% R' Q+1" 6/.1' 2' + ' ' ,;,,5% Q KX'
:; 265*/'2 " N'# ' %M 2' >))1?.' % '=,%
+ CL ' =.% Q CK" 6/.1'6 ' -/625% Q '
Q+1X" /*;9*-'$ 'M:6?7% Q 'Q+1X" -62^
>.'7 'M 12O% Q ' ,1X" 1?6 2*' ' 'M 2'
+ ' X" B12*.' 4 'M 2' + ' 'N X" 9 2^
2*-' P%H1 M 2' +$ EE8] >)/*[' M ;5.D%
QK'Q+1X" ;=*-,' 'M 2'$ + 1' ' '
41,,% QK' RKX" 10*-/* 2' M ?D;-5
Q ' RK'Q+1X" :105.12'- 'M 12O% Q '
,1X" 6;/;.' 2 (' #' 'M 2' >))1?.' ; % !'
L+ ' Q X" */,);.*2' 'M:*/?.,% QS' Q+1"
6/.1'$ " " ' -6;2.>)8% QS Q+D" & 1'
" ' D%*10% Q+1X" 212 ?1;.'N 'M /1-% QS'
Q+1X" *0*-*-'$ % 'M ;-5)% Q 'Q+1X" >7%*'
M(;-2' Q Q+1X" I<*20*/..1D2' >O%'
,>%M8 ,)'1,)-'>1??*2,6,1-.' *-D' QQ" -65;*'
Q N'Q+1" 8 ,)'4*-?','*L,' -6;2.>)8% QR'Q+1X" 3
212 ?1;.'6 D 'M:6?D% QQ'Q+1X" 20*C
?622'6 + 'M 2' */'& 2 ' '/ICN X"
212 ?1;.'& + I1$ Y E' QR Q+1X" ??12'
2'M =[% R 'Q+1X" 46/>)1' M *5)%
R ' ,1X" D18 ,[*-' M 1-*[' R
Q+1X" * *-'& + 'M<6-D' RK'Q+1X" ,620I'
/2' ' *,>'M7% 6;/;.' 1' 'B*267'
RKX" 466D'6 + 'M(;D 25*2' R 'Q+1X" -.'
7I7 H M4-1021' R ' ,1X" >) ,)' =
'M:6+2% R 'Q+1X" -*5/1D'6 'M ?.,%
RQ Q+1X" B1.*=)'D*2C D-6)6?'I/I7I /M4-10C'
21' RQ'Q+1X" .;/6' 2A'M2' (
*5)% Q ' 1DX" & // 6?.' 'M 12O% Q '
QKQ Q+1X" I4110' &>.M 120%/Q N Q+1X" 212 ?1;.'
'M 2'D ' ') "'-" ' ' -% 62Z7
=[% Q NX" 1/1[9' J!'M4-1021' Q ' ,1X"
-1.B' !' 'M:6 2% 7S Q+1X"B;.,'-- " =
'M 2'; 2' 'KN '<6-D;-5' Q RX" 18 .1)2'
C(/OT'26`K M *;%/Q ,1X" & /26
M -65;*' Q ' ,1'\/,;-5 >6/h" 6/.1' \=6-,/
>6D6/.,>h'&6-.68' Q K' ,1X" - '7 'M 12012'
Q QK 'Q+1X" :;5' ' *,>%M -> %620' 12.[%
Q N' ,1" E '6 ' -* D% Q ' ,1X" B6>1DC
..6' 0 ' M AC-*2 ;-,' Q C R' ,1X" 6+ 0^
.12'5 + 'M *20% Q 'Q,1X" .,2C69*-' =
'M<126.,% Q Q'Q+1X" I$?D-*,'6 'M41,,%
QK ':*0*/D% QKQ'Q+1X" (6 /1-' 'M4/6.518'
QK ' K?1X" /6-9*' - 'M 2' !1' X"
:689*-' 1??*2,6- 'M 12012'Q+1X" 18,)' !'
ddd'LLL'M8 ,)',)*' 21,*.'1'<>)6*/.'620',)*' 62^
?60+*-. 12.'1' 1.*2?;//*-' L12% QK X" 6.*-'
=? 'M -/625% QKS'Q+1X" I 86/0'& !'
+ 'M41,,% QK4'Q+1X" 6-,)1/?6'6 N '
M ;?D% QK 'Q+1X" 1=9*' 'M =[% QKR'
Q+1X" I 1.>2?;//*-'$ " 'M =.% QNR'Y+1X" ;C
2,[%# ' % '*,>%M ,-6..D% QN ' ,1X"
*D*2.,*2'6 'M *-/% QN 'Q+1X" /6;'N =
'"M ;/?' QNQ'Q+1X" -;?7?6>)*-' *-?187 120%

QNR Q+1Ť -1?',)*' 4*-?62'NO' *O% /D*- % QN 'Q+1XŤ 6-)6? '$ ' '$ 'M 2' XŤ I$)/*?6, 2 ' ' %11' 1' *,>% M *-/ 2 ' QNR' ,1XŤ >) >9' M&6.[/ .[1)X' 2%(:7' M&6-668 ' Q 'Q+1XŤ : -[*/'6 2 ' MU;-%620' 6;*2 % Q K?1XŤ <652;.' ; " ' M:6//*' Q K'Q+1XT% .669C 6-1 -' - N'M& /26 N' Q+1XŤ $/- >) ' $1??*2,1-%M */ 2 ' Q ' Q+1XŤ 0*/?622' M 62[' Q 'Q+1XŤ +- //12' & =' '*,>% M 120% Q K?1XŤ ,18*' 2' & !' ; "!'5 9 % !' =-% Q 'M-*=- 2,*0' 2'D '$!' !'B62% Q KXŤ -182' ' 'M=,% ' 120% Q Q Q?1XŤ 1,,>)*-' 6 " ' M =[% Q R' Q-1X'Ť I */,[.>)' & ' M =[% Q 'Q+1XŤ 41$['& 2 'M *-/% Q 'Q+1XŤ <;20,' 2 " ' !' !'M 2' +!' N' Q RXŤ 212 ?1;.A 5 *+ 'M 120% /77/A' K?1XŤ I:*25C % .,*2D*-5' & ' M *-/2' Q N' Q+1X'Ť ;--18*.' 'M) /6% Q N K2 1XŤ /6 ' 'M 120% Q N K?1XŤ <**-'6 " 2 'M(;D 25*2' Q 'Q+1XŤ 1-D*.' 'M 120% Q ' NK?1XŤ :,[5'6 =' + 'M 2' 1 !' !'L+ ' =[% Q 'Q+1XŤ /6;C D6>)'6# 'M *-/% Q Q+1XŤ *8,12' % 9 !' *,>% MNO' *O% Q 'Q+1XŤ : /*?622') ' *,>% 'M =[% Q S Q-1X'Ť I4 2.D;-5' 'M 120% Q ' Q+1X'Ť & 6/9*-' ' M 12012' Q ' Q?1X'Ť I&*..'6 % 'M 0 2D% Q Q K?1XŤ >);/*-'6 =' 'M&;-[D% Q Q' Q+1XŤ 212 ?1;.' 2 =' / 'M$/ ' Q Q' Q+1XŤ &* ..D6>)'6 " 'M =[% Q Q' Q+1XŤ 6) 25*-'6 " 'M 2' ' "!'$ " ' !'&!';!' +% ,;,,5% Q Q Q+7XŤ 212 ?1;.'6 % 9 'I 1 $; 8E 212 ?1;.'- 'IN !' WIUI' I 39' <6/D ?' : :' M ;>)6-*.,' QS ' Q+1XŤ 212 ?1;.' 'M 120% QS ' K?1XŤ *262' - 'M 6-% QS 'Q+1XŤ ,;6-,'6 % ' M 120% QS Q+1Ť 6/.1') '/72O' QS '/K?1XŤ & ,)C' 25,12' 6 % 'M 1.,12' QS ' K?1XŤ ()-;==' - 'M 120% QSK' Q+1X7Ť <*20*/.,6-?'6 =' 'M *-/% QSK' ,1XŤ :1-18 ,['& " 'M ^ *226' QSN K-61XŤ :1;.D,12'6 'M 120% QS 'Q+1XŤ *0->)'6 - 'M *;C ;== 25' QS 'Q+1X% **' 'I; +' 8!

62,1-'I 8' 62' 62> *2,'*>>/*. 6.,>6/' 1-0*-' .1' >6//*0' 620' 6',,/*' .,, /' 5 +*2',1',)*' ?6.,*-' 1',)*' >)1 -' 2' ?62 ' >);->)*.' 6.' 2' ?10*-2' ;.*'% !' ()*' 1;2>/.' 1' 1/152*' % % KS'620' NS'5 +*',1',)*' >)62,1-' 1-' ',)*', /*' 1' " % % ' 1-D.)1='1',)*' >)1 -% ()*' >62,1-'.'6/.1',)*' .6?*'C*,)' ,)*' =- ? >*-;.% ()*' 1-0* -' 1 '>62,1-*.' 6==*6-.',1'D1' 1' 5-*6,' 62,_;, '620' .' ?*2, 12*0' 2',)*' 6212.' >6//*0' =1.,1/>6/' 1.% KS' N'620' SR'620' 2',)*' ,C ;-5 '1',% <6-9'8)>)'86.' 8-.,*2'D* 1-*',)*' 1;-,)' >*2,;-'M *26;01,' !', ' !',1?% '=-*' % =% ddd '620'=% X% ()*' 1;2>/'1' 610 >*6'>62% ' 1-D0.' 62',1'.25' 2' >);->)*'*L>*=,',)*' .25*-.' 1-' >62,1-*.' 8)1.*' 26?*.' 8*-*' 2.>-D*0'12',)*' >62MH2' 1' ,)*' >);->)'620' 8)1.*' =-1=*-'=/6>*' 86.' 2',)*' !' ' '>62% KN' ,' 1-D60',)*' >62,1-*.',1' 8*6-',)*' .,1/*' 1-' (!' ()*' 1?62' 8-,*-.' *20*6+1-',1'=-1+*',)6,' ,)*' /*>,1-'620'>62,1-' 8*-*',)*' .6?*'D;',)*' '6-*' *+^ *- 8)*-*' .=19*2' 1' 2',)*' 62> *2,'>6212.' 6.' 0.,2>,' 1-0*-.% ()*-*' .'21'-*6.12',1'D*/*+*',) .'1-0*-',1'D* 1') 5)*-',)62' '2.,;, 12'12/ % ()*' >62^ ,1-' ?5),'D*' 1-06 2*0'*7 2'D '6'=-*.,' I ' "!' >6=% X% ().' 1-0*-' .' ., // -*,6 2*0' 2',)*' - *2,6/);->)% ' 25)6?', '6 'D9% '>)% + T' 62C 012'6 !' ' !'.% +% 62;.'1-' 621' ' '6'0.,25;.)*0' =62^ .)',)*1/15 62' 86.'D1-2'6,'(6-62 12' 2' KN'620'*2^ ,*-*0',)*' 1? 2>62' 1-0*-' 6,' 6/6?62>6' 8)*-*')*' .,;0 *0',)*1/15 ';20*-' -62> .>1' ,,1-6' 8)1?')*' .;>>**0*0' 2' S 2',)*',)*1/15 >6/>)6-'6,*-')6+ 25' .*-+*0'D- // 62,/ '6.'=-1 *..1-'6,' 6//601/ 0'620' />6^ /6% :*' 0?*0'6'=6-,' 2'1==1. ,12',1' 6--62[6'6 C 7/" (-6-0'6->)D.)1='1' (1/*01',1'8)1.*' 0.5-6>*')*' 6 .>/(' >12,-D;,*0% &)*2',)*'B*.;,.'*20*6+1-*0',1' C7.*,,/*' ,,' 6/6?62>6' 62;.'+*)*?*2,/' 0*21;2>*0 ,)*?'6.',)*%=-*>;-.1-.'1'%72,>)-.,'620'.1'.;>>*..' ;// ',)6,'',86.'21,';2,/')1')60 512*',1',)*' 626-*.' ,)6,',)*' >1;/0'*.,6D/.)',)*?.*/+*.' 2' 6/6?62>6% :*' 86.'?60*'D.)1='1',)*' 626-*.'D' 6;/' 'D;,' -*. 52*0'620'-*,-*0' 2,1' 6' >12+*2,'1')' .'1-0*-'1'))')*D*>6?*' 2' '=-1+ 2> 6/ 1-',)*'=-1+ 2>*' 1' =6 2% :*' 0*0' 6,' (1/*01' *= 'N' S' :.' >) *'620'D*.,C92182'+-1-9'.') .' -" =' ' " ' '-*/6, 25',1',)*' '8)*2>*'=1/*? >6/ ,)*1/15 62.' ?6'0*-+*' =-11.' 1',)*-' 1= 2 12.' 620' 6-5;?*2,.'M 6/6?62>6' SK' 1/%% ,'?6'D*' 1;20' 8,)') .' 1,)*-'78-,25.' 2') .',% ! ' f M 6.C .62' S ,1X% ' :1* *-'7 !';!'?"('+ ' R % 6?,*% ** f f = 6='M1-'8 '% 8' 2'>/*->6/0-*..% 6-^ 0 26/ >)*/*;' .'.6 0',1'D*',)*')-.,'8)1'81-*',)*' 9 '1-'>6='2' -62>*% ()*'-*0'>6=' .'=*>;/6-',1' ,)*'>1//*5*'1'>6-0 26/.% ()*'D122*,'1-'>6='81-2'D' ,)*'B*.;,.' 6-26D',*.'()*6,2*.'620'D',)*',6/62.' 5*2*-6// '.',)-**C>1-2*-*0'620'._;6-*'620'81-2'8,)^ 1;',)*'>6=*% **0 ' ' ' #! 6=6->1, 6'I -),- '6'26?*'1'8)>)',)*' 2,6/*/*?*2,' .'*+0*2,/',)*':*D% NNd.** 4' : CX'6',182'/1>6,*0'D' ,1/*? 'M+' SX'2'46//** ' 620'?*2,12*0'I % 8'2',)*' -'6.' .,;6,*0'D*,8**2' >,)1=1/.'620' .*.6-*6' 6/*.,2*' M */620' !='S SQ X'K' % ?/*.'-1?',)*'1-^ ?*-'620'KQ' -1?',)*'/6,,*-% ,' 86.'0.>1+*-*0'D' 2-9)6-0,'I- '=% X'2',)*'?10*-2') =) 1' 6'+//65*'6D1;,'12*')1;-'\ h'8*.,'1'B*2 2'6?125' ,)*') //.'M 1D 2.12'5 " ' ' 7RX'620') 6/'62')1;-'8*.,'1' ;-9 2'M&1/>1,,' 2',)*' ; !'$ ' Q N'=% ST' 1D 2.12' '5 " ' =% K X'. ,;^ 6,*0'12'62'*?2*2>*'38,,)'6')5)'8*/'21-,)'1',)*' + //65*'>6//*0')*9'U*,'620'+.D/*' -1?'6'5-*6,' 0.,62>*'0//6-1;20'M 62'O>' */0*' '=% N X% 6=7//;.% ** / $! 6=*-C ('M).7 d' "(' -1?' ,1 1.' *=,% ((81=>X.'?*2,12*0'12/'12>*' 2',)*' D/*'M >>/*.%IL ' Xa' &)*2',)*'6/?120C,-*** .)6// 1;-.)'620',)*'5-6..)1==*-' .)6// D*'6'D;-0*2'620' .)6// 6/T D*>6;.*'?62'51>,)',1').'/125')1?*%J' ()*'81-0')*-*',-627./6,*0' ')6.'D**2'>12. 0*-*0',1' .52 ',)*' CD*--E % (/*'-*6.12.'6..52*0'1-',) .' 1=2 12'6-*',)6,',)*'-6DD 2.'6==/',)*'=/;-6/ M2 A/ 6L' "(S'.**' ; " "'.LL+ ' X',1',)* .?6//-;,'1',-**.'620'D*--*.'6.'8*//6.',1',)6,'1' ,)*'>6=*-CD;.)'M ;L,1- ' !'- '>1/% KXT',)6,',)*' >6=*-CD;.)'.'>1??12' 2' 76'620' -6D 6'M.**'46/*2' @ !'& ' 'N XT',)6,',.' -;,'86.'2'*6-/',?*.' *6,*2'6.'6'M 120?*2,'D*25'.,?;/6,25'2',.'26,,;-*' 620',)*-* 1-*' >6/>;/6,*0',1'*L>,*'0*.-*'M /;,6->)' f $ %'+'KT' /2'# !'7 f'L 'KNT'LL' T' >1?='L ' T' LL'SRT' 1.>1-% 'K XT',)6,'6.',)*' >6=*-CD;.)'5-18.'12',1?D.',8 //D*/6D/*',1'D*'0*^ .,-1 *0'8)*2',)*.*'6-*'1=*2*0T 620' 26//A7',)6,'6.' 1/1?12'.=*69.')*-*' 2'.?D1/.'620'6//*51-*.'8*' ?;.,';.;==1.*')?',1'0*+6,*' -1?',)*>1;-.*')*>60' 6==6-*2,/'=-*.>-D*0',1')?.*/' ')*'8*-*',1'*L=-*..' 2'=/6 2'81-0.',)6,' 0*.-*'.)6// 6/J'2.,*60'1'2, ^ ?6,25',)*'.6?*',)25'D',)*'6/;-*'1',)6,'8)>)'.' .;==1.*0',1')6+*'D***2';.*0',1'L>,*'0*.-*% */.;.' I 1 f'K X'6-5;*.'12',)*'>12,-6- ',)6,'1/1?1=' 2'1,)*-'AA6>*.'8)*2',-*6,25'1',)*'=/*6.;-*.'1'12,)')*+*-'.=*69.'1'>6=*-.')_,'1'8 2*'620'=*- ;?*.T ,)6,')60')*'8.)*0',1'600;>*'62,)25'1',)*'9 20')1' 81;/0')6+*'.*/*>,*0'.1?*,)25'?1-*'-*?6-96D/*T,)6,' >6=*-.'?1-*1+*-'2.,*60'1'D*25'=/*6.62,/'.,?;^ /62,'6-*'6>-0'620');-,;/T620',)1;5)'1>>6.126// '*?=/1*0'D'2'S 2',)*',)*1/15 >6/>)6-'6,*-')6+25' *.,**?*0'D',)*?T620' 26// ',)6,I,)*'81-0' =' '"1',)*'-6DD 2.'.'0.,2>,'-1?',)*' '" 1',)' .' =6..65*'6.'.'60?,,*0'*+*2'D'$-.22.'I& ';' =' 'LL+ ' X% ()*'>6=*-C=/62,')18*+*-'.'1,*2' ?*2,12*0'2',)*'(6/?;0'I "'+'ST' '

X /P ' ,) *' ,*- ? .' 7KK' X %"E I7K7 ' V%+ "E 620' *+*2' + %" (' M ;L,1- ' >1/ R R NQ ' K RQX% ;,' 6.' ,) *' *=,;65 2,' ,) *' ;/56,* ' ,) *' - 6>' 620' ,) *' -6D 1',-62./6, 12.') 6+*' ;20*-.,110',) *' % 1 '" ,1' D*' ?*62,' ,' .' 0*. -6D/*',1' 5 +*' .1?*' 6>>1;2,' 1 ' ,' *.=*> 6// ' 6. ' -1 ?' ,.' 1-26 ? *2,6/ 26,;-* ' ,' >1;/0' 21,' D;,' 6,,-6>,' 6,,*2, 12 ( ) *-*' 6-*' ?1-*1+*-' .1 ?*' =1 2,.' 2' ,.' 26,;-6/) .,1- ' 8) >)') 6+*' D**2' 1+*-^ /119*0' D ;,' 8) >)' ? 6 ' .*-+*',1' .) 18',) 6,' 2' ,) *' =6.^ .65*' ;20*-' -*+ *8' ,' ? 5),' 8 ,) 1 ;,' ?=-1=- *,') 6+*' D**2' *?=/1 *0' 2' >6-- 25' 1 ;',) *' 5 ;-6, +*'/625;65*' 8 ,)' 8) >)' ,) *' +*-.*' >1? ? *2>*.' M.**' /*29' 2' !'=% K T =-*25*/' # ' '+ ' ' X% ( ) *' >6=*-C=/62,' D*/125.' ,1' 6' ,- D*' 1 ' =/62,. ' ,) *' 6==6- 06>*6Q ' 1 ' 8) >)' ,) *' .=*> *.' 6-*' 1 ;20' 2' >12^ . 0*-6D/*' 2 ; ? D*-.' 2' ,-1= >6/ >1 ;2,- * . ' .;>)' 6.' 20 6 ' 8) *2>*' ,) *' '*L,*20' 21-,) 8 6-0' 2,1' -6D 6',) *' 21-,)' 1 ' - >6 ' - 6 ' 620' ,) *' .1 ;,)' 1 ' ;-1=*' M 1-.96/' @ !'=% RRT') 68 '=% NR X% ( ) *' >1? ? 12' >6=*-CD ;.) ' ' %% ' % ' 22 ' M,) *' ' ' 1 ' *-.112X ' .

0 .) % ( ) *' /18*-.' 6-*' /6-5*' 620' .) 18 ' =-10 ;>*0' . 2^ 5/ ' 2' ,) *' 6L /.' 1 ' ,) *' /*6+*.' 12' .,6/9.' 8) >)' 6-*' /6-5*-' ,) 62' ,) *' /*6+*.% ( ) *' >6/ L' .I' 1 ;-C/*6+*0 ' >1^ - 6>*1 ;.T ,) *' =*,6/.' 6-*' 6/.1' 1 ;-' 2' 2 ; ? D*-' 8) ,*' 620' 1 '62' 1+6/ -1 ;20 .) ' 1-?% ( ) *' .,6 ? *2.' 6-*' +*- ' 2 ; ? *-1 ;.' 620' /125T 620' ,) * -' /6 ? *2,. ' D* 25', 25*0' 8 ,)' =;-=/*' 620' ,*-? 26,*0' D ' ,) *' */18' 62,) *-.' 5 +*' ,) *' /18*-.' 6I'+*- ' 65-**6D/*' 6==*6-62>*% ( ) *' 1+6- ' .' D1-2*' ;=12' 6' .,-6 5),' .,6/9 ' 8) >)' .' 6' / ,,/*' /125*-' ,) 62' ,) *' .,6^ ? *2. ' 620' 8) >) ' 6. ' ,' - =*2. ' 0-11=.' 620' 1-? .' 62' 1+6/ 1-' =*6-C.) 6=*0' D*-^ - ' 2>/1. 25' 8 ,) 2' ,.' =;/=' 2; ? *-1 ;.' . ? 6// .**0.% < 62 ' 1 ' ,) *' >6=*-' .- D* ' D* 25' -* ? 6-96D/*' 1-' ,) *' /125' .,6/9.' D ' 8) >)' ,) * -' -; ,' .' . ;==1-,*0' >12^ .= > ;1;./ ' 0 .=/6 ' 8) 6,' 6/.1' ,69*.' % =" !' =/6>*' 2'1 ,) *-'=/62,. '26 ? *'+ ',) *'0-11=^ 25' 620') 625 25' 0182' 17 ,) *' -;,' 6.' ,' - =*2.% .' ,) *2 ',) *' /18*- 25' 1 ',) *' 6/ ? 120C,-**' 2',) *' -.,'=6-,' 1 ',) *' +*-.*' 2' _;*., 12 ') 6.',**2' .;==1.*0',1' -* *-',1' ,) *' 8) ,*2 25' 1 ',) *') 6 - ' .1',) *' 0-11= 25' 1 ',) *' - =*' -;,' 1 '6'=/62,'/ 9*',) *' >6=*-' 8) >)' .' >12.= >;1;.' 12' ,) *' 86//.' 1 ' D ; /0 25.' 620' 12',1 ? D.' ? 6 ' D*' .;==1.*0' ,1', = ',) *') 625 25' 0182' 1 ',) *') *60' D* 1-*' ' ? 62' 51*.)' ,1') .' /125') 1 ? *J' M.**' ,) *' % '.% 6==6- 06>* *X%7 ,,1 ' '+% D 7 126)% **7 :

6=*-726$? ' I) % 1' 6>) ? % \8 ,)' 10*L' h') % % % '6.' ' : ' I7KN' '+ //65*' 1 ' 6' ; ? J' \ -1 ?' .1 ?*' ;2921 82' =*-.12' 1 ',) 6,' 26 ? *h1' C - 6>' ;-*,12 62') %+ ' 7 " ' *.) ,1') *'" ' 7 =' " ' ;/5% %D 1' ,) *' 26 ? *' 1 ' 6' 46/ />*62' > , ' 6 ? / 6-' 6.',) 6,' 1 ',) *' .>*2*' 1 ' ? 62 '6>,.' 620' 2^ > 0*2,.' 2' ,) *' / *' ')- .,' M.**' .;6-,' % ' ' " ' $ ' ' " (' ' KO' *0% 12012 ' QS X% ( ) *-*' .' =1' ? *2, 12' 1 ' 6=*-26 ; ? ' 2' ,) *' % (% 1-' =1>- =) 6 ' D ;',) *' =6..65*' .6% L ' ' \+ ' KNH' .' 6=^ =/ *0' ,1' ,' D ' A$6,,) *8% ( ) *' 81-0' %" ' 2' ,) *' 26 ? *' =*-) 6=.' 20 >6,*.',) 6',) *' =/6>*' 86.' 1 '/6,*' 1 ;2^ 06, 12% **' / · 4!' ( ) *-*' .' 26 ? *0') 18*+*-' D ' ,) *' -6DD 2.' M< 0-6.D ') " +' 1/% QR' >1(% X' 6' =/6>*' >6//*0') I%" =O " ' M0/ : % 7 X' 8) >)' */620' > ' =% SQRX' =-*. ; ? *.' ,1' D*' ,) *' 6=*-26 ; ? ' 1 ',/ 1' 41.=*/.' M.**' ,) 1 ' ' '=% QX% B5.*=) ; .' 6/.1' ? *2, 12.' 6' -* ? 6-96D/*' 1 ;2,6 2 ' >6//*0' D ' ,) *' 26^ , +*.' %" ' I) 1 % ? %8' 86,*- 25',) *' *-, /* ' =/6 2' 1 ' 4 *22*.6-*,) J' M' ' ' QXT' 6.' 6/.1' 6f ; /C' /65*' D ',) *' 26 ? *' 1 ' %" ' I) i% % %Hf(8 2',) *' .6 ? *' -*5 12' I ' KX% ,1/*? ' 6/.1' M+' S' X' >6//.' % ' I) - % %8' 21,) *-' 6=*-26 ; ?' .' ? *2, 12*0' D ' E </$6 ? 11 ' (-*' M *' ; ' $!' L ' KSX' 12',) *' .) 12 ' . L' /*65 ; *.' -1 ?' >*.6-*6 ' I ,*-',) *' *L=;/. 12' 1 ' B*. ; .' -1 ?' 6[6-*,)' M ;9*' + ' SCN T' <6,,' + ' NC SX' 8) *-*') *' 86.' D-1 ;5),' ; = J' 6=*-26 ; ?' D*>6 ? *' ? =) 6, >6// ' A .' '182' > , ' ,' 86.' 8) *2') *' -*,;-2*0',) ,) *-',) 6,') *' .' .6 0',1') 6+*' D**2' 6,') 1 ? *J' M< 6-9' ' T' .;>)' .' ,) *' 1->*' 1 ' ') I ' % % 2',) *') 1 ;.*JX% ' *-*') *' >) 1.*' ,) *' *+625*/ .,' <6,,) *8' 1-' *+ ' M< 6,,' L' RX% ( ) *' D-1,) ^ *-.' ? 12C *,*-' 620' 20-*8' D*/125*0',1' 6=*-26 ; ?' M< 6-9' ' KRX' 620' ,' .I' =*-) 6=.' 6//186D/*',1' ? 65 2*' ,) 6,' ,' 86.' 12',) *' .*6CD*6>)' 2*6-',) *' ,18 2' M 1-' 01 ; D,^ /*.. ' / 9*',-;*' - *2,6/.' ,) *' .*' ,81' .) *-? *2' 9*=;' >/1.*' ,1') 1 ? *X' 8) /*' B*.;.' 86.' ' 8 6/9 25J' ,) *-*' D* 1-*' 5-*6,' ? ;/, ;0*.J') 60' /*6-2*0',1' 56,) *-' ,15*,) *-' ;2,1') ? J' ,) 6,',) *') *6-0',) *' _;*,' >6// 80 >)' 86.',1' ? 69*',) *? ' 1-.69*' 6// 620' 1//18') ?' M< 6-9' ' S T' >*?=% KQX% ,' 86.') *-*',) 6,')- .,' 81-9*0',) *' ? -6^ >/*' 12',) *' >*2,;- 12 .' .*-+62,' M< 6,,' + ' T' ;9*' + ' X' 12' ? 12 .' 8 *.' ? 1,) *' 6, ' + ' T' < 6-9' ' MPT' ;9*' + ' NQX' ,) *' =6-6/ ,>' M< 6,,' L' T' < 6-9' ' T' ;9*' + ' QX' 620' ,) *' ? 62' 6 /> ,*0' 8 ,)' 62' ;2>/*62' .= - ,' M< 6-9' ' NNT' ;9*' + ' NNX% ( ) *' .12' 1 ' , *' 21D/*^ ? 62' MB1) 2' + ' SX' 86.' ,) 1 ;5)' -*. 0*2,' 6,' 6=*-26 ; ? ') *6/*0' D ' 81-0.' 8) >)' 6==*6-',1') 6+*' D**2' .=19*2' 2' 626' 1 ' 46/ /**% ,' 6=*-26 ; ? ' 1>>;--*0',) *' *? D/*? C

6=*-C=/62,' > %% '$% 81 8 ,)' *2/6-5*0' + *8' 1 ' ,) *' *- >6-=% I

>1? ? 12' 2',) *' >1 ;2,- *.' ? ? *0 6,*/ ' .;--1 ;20 25',) *' < *0 ,*--62*62% 1.>1- 0*.' 0*.>- D*.' ,' 6.' .=-*60 25' 2% 6' > ->;/6-' ? 622*-' 12',) *' 5-1 ;20' 2' =11-' .1 /.' 620' -;55*0' . ,;6, 12.T 620' / 2 ' 6.' D* 25' .*,' 620' .182' 2' .,12 ' =/6>*.' *.=*> 6// %J ( ) *1=)-6.,;.' .6,*.',) 6,' ,'-* ;.*.',1' 5-18' 2' >;/, +6,*0' 5-1 ;20% 1.>1- 0*.' 6-,) *-' .,6,*.',) 6,' ,')6.',) 1-2.' / 9*' 6' D-6 ? D/*' /*6+*.' / 9*',) *' _; 2>*' 620' -;,' / 9*',) *' 1/ +* ' >)6-6>,*-.' 6/? 1.,' ;,' > *2,',1' 0*2, E ',% ( ) *' >6=*-' .' 8*// 92182',1',) *' -6D.' D* 25',) *-' " 1' 620' 0*. 526,*0' 6/.1' D ' ,) *' 26 ? *' 1 '1-' / ! ( ) *' D6-9' 1 ',) *' -11,' 8) >)' .' ., // ;.*0' 2',) *' 6.,' 6.',' 1-? *-/ ' 86.' 2' ;-1=*' 21' 01 ; D,' =1..*..*.' .1 ?*' -- ,62,' =-1=*-,' 6.' ,' 86.' 12*' 1 ',) *' +*' 6=*- *2,'-11,% ( ) *' ;2*L=620*0' /18*-CD ; 0.' =-*.*-f I*0' 2' + 2*56-' 6->' 8*// 92182' 6, 1 ;-' ,6D/*.' 6.' 6' >120 ? *2,' D ',) *' 26 ? *' 1 ' >6=*-.% 6-,.' 1 ',) *' =/62,' .**?' ,1') 6+*' D**2' . ? /6-/ ' ;.*0' D ',) *' 62> *2,.% ( ) *' >6=*-C=/62,' .' .) 18 ' 620' 1-26^ ? *2,6/' 5-18 25' 2' D6--*2' =/6>*.' 2',) *' ? 0.,' 1 ',) *' -;DD .) ' 1 '-; 2.' 1-' 12',) *' 86//.' 1 ' D ; /0 25.% ,' 86.' 1D.*-+*0' D ' 6 '12',) *' (*?=/*' 1 ' *6>*' 6,' 1?*' 620' 2' 1),) *-'. ? /6-' . ;6, 12.% ,' 1-? .' 6' ? ;>/CD-62>D*0' 0 ;.*' .) -;D ' 8) >)' 622 ; 6// ' /1.*.' ,.' /*6+*.% ( ) *' D-62>)*.' 6-*' /1$5' 620' ,-6 / 25T .?11,) ' D ;,' 6-? *0' 8 ,)' 01 ; D/*' >;-+*0' ., =;/6- '.= 2*.% ( ) *' /*6+*.' 6-*' 6/,*-26,*' -1 ;20 .)' 1-' 1D/125C1+6/' 6' / ,,/*' /*.) ' .?11,) ' 1 ' 6' 5-**2' >1/1-' D ;,' .1?*, ?*.' 6' / ,,/*' -*0^

6, >6/ 2> 0*2,' 1 ',) *' >) /0 M< 6-9 L 'NNT < 6,, 'L+ ' ,69*.' 62') 1 ;-'620 6') 6/ ',1',-6>*',) *' 22*-. 0*.' 1 ',) *' T >1?=L+ : 'K XT 620 2',) *' . 26515 ; *',) *-*' 86.' =/6 2 2 ',) .' =/6 2' B1. *=) ; .' =/6>*.' 6' 1 ; 2,6 2' >6//*0 6=) 6-26 ; ?d) *' .6 !.' 21,) 25' 1 ',) *',18 2 T D ; ,' ' .19*2',) *' -* ?6-96D/*' 0 .>1 ; -. *' 1 'B1) 2' + 'M. ** +*-. *' 6=) 6-26 ; ?' 6 'D*' .6 */ ' >12>/ ; 0*0 ,) 6,' ,) *' 1 ; 2,6 2' >62 D1%>1//*>,*0 -1?',) *' .>- =, ; -6/ 2, ?6, 12.' ,) 6,' SRX ()H 2 0*/ , '620 ?=*2 ,*2>*' 1 ',) *' 2)6D ,62,.' ,) *',18 2' 1 ' 6=*-26 ; ?' 86.' 2',) .' .6 ?*' =/6 2' M -1?' 1 ',) .' =/6>* ' 6 ,*-',) *' *+ 0*2>*' 5 +*2',1',) * ?' D ' 1 ; -' 6' >1?=6- .12' 1 ' < 6-9' + ' '8 ,)' B1) 2' + ' R' ,' 6=^ 6+ 1 ; -') ?. */ ' 1 ',) *' ,-; ,) ' 1 ') 7 ? .. 12 ' D-1 ; 5) ,' =*6-.' ,) 6,' ' 86.' 6,' /*6.. ' . L' ? /*.' -1?',) *' % ; =12',) * ?',) .') *6+ ' 0*2 ; 2> 6, 12a' 20',) 1 ; ' 6^ .) 1-*X' ,' ?6 'D*' .6 */ ' >12>/ ; 0*0',) 6,',) *' 1 ; 2,6 2' =*=-26 ; ? ' 8) >)' 6-,' *L6/,*0' ; 2,1') *6+*2' .) 6/,' D*' 86.' 21,' 6-' -1?',) *',182 '620',119',.' 26?*',) *-*^ D-1 ; 5) ,' 0182',1') *//T 1-' ',) *' ? 5), ' 81-9.' 8) >)' -1?' 2',) .' 2/6 2',) *-*' 6-*' 218',81' 1 ; 2,6 2. ' 12*')6+*' D**2' 012*' 2',) **')60 D**2' 012*' 2' 101?' ', >6//*0' 2' *,(2',) *' 5 J' 2*6-',) *' 81 ; /0')6+*' -*?6 2*0' ; 2,1',) .' 06 J' *,>% M< 6,, 'L ' 21-,) *-2' *L,-*? , 71',) *' =/6 2' 620' 21,' 6-' -1?',) *' KNX' **' & ' ' ! /69*% ,' .' .; --1 ; 20*0' D ' +*5*,6, 12' 620' 1+*-) ; 25' >>1-0 25',1',) *' 21, >*.' 1 ',.' . ; 6, 12' 2',) *' % (% D ' 6' 5C,-**' -1?' 8) >)' ,' 0*- +*.' ,.'%26?*% *6-' 6=*-26 ; ?' 86.' 12',) *' 8*.,*-2' .) 1-*' 1',) *' *6' 1' .6 0',1' D*' D-6>9 .) T D ; ,' ; ->9) 6-0, ' 8) 1' -*.,*0' 1-' 46/ /**' I *' - 1 ; O N' < 6,, ' + ' NT >1?=%B1) 2' .1*.' ,*-' 1 ; 2,6 2' >61*' 1 ' ; ' 6-*' 1 ' 5 +*',1',) 6,' .*6' 2' 8) 1/*' 1-' 2' =6-, ' ,) *' + ' K X' 620' ' -*>*2, 0 .>1+*- *.' 6-*',1' D*' ,-; .,*0' .1*' ,?*' ; 20*-',) *' 5-*6, 5C,-**' 0*.>- D*.' ,) *' 86,*-' M ; -*,12 .' 7 ' 5 !B1) 2' + ' X' 86.' 1 ' .; > *2,' 1 ' ,) 1' ?6 2' .1 ; ->*' 6.' .8**,% () .' .' ,) *' 1 ; 2,6 2' ?=1-,62>*',1' 5 +*',1',) 6,' .*6' 2' 8) 1/*' 1-' 2' =6-, ' ,) *' 26?*' 1 ',) *' 69*' 1 ' 6=*-26 ; ?%J' M() .' 86.' ,) 1' 8) >)' - 1D 2.12' 2>/ 2*.' ,1' -*56-0' 6.' ,) 6,' 8) >)' B1. *=) ; .' ?*2, 12.' ; 20*-',) *' 26?*' 1 ' 6=) 6-26 ; ?% >6.*' 6/.1' 8 ,)' (D*- 6. ' 6,' ,) *' 1,) *-' *L,-*? , ' 1 ',) 1' <% *' 6 ; /> ') 18*+*-' >12,*20. ' 2') .' ; .; 6/ >12 ^ /69*% 1?=B1) 2' + ' ' ',) *' *6' 1 ' 46/ /** ' 1 ' (D*^ 0*2,' ?622*- ' 656 2.. ',) *' >12>/ ; . 12' 1 ' -% 1D 2.12' - 6.% X' ,' 86.' 2' 1-' 2*6-',) *' /620' 1 ' 4*22*.6-*,J' I7 ' 'N CNS X ' 2',) 1' 2*8' *0 ,12' 1 ') 6' M< 6,' L + 'N ' >1?=6-*0' 8 ,) 'B1) 2' + ' 'K 7K X',) 6,' 5 " 'M ' N QX' -% 1D 2.12' -*+ *8.' ,) *' 6-5 ; ^ .',) *' - >) 'D ; . '=/6 2' 12',) *' 8*.,' .) 1-*' 1 ',) *' /69*' ?*2,.' 620' -*6 -?.' .' =1. , 12% ()-*** ? /*.' .1 ; ,) ' 8) >)' 8*' 9218' -1?',) *' 0*.>- =, 12.' 1 'B1. *=) ; .' 620' <% *' 6 ; /> ') 18*+*-' >12, *20. ' 2') .' ; .; 6/ >12 ^ -1?' 1 ',) *-' .1 ; ->*.',1') 6+*' D**2' 6,' ,) 6,', ? *' 12*' 1 ',) 1' 0*2,' ?622*- ' 656 2.. ',) *' >12>/ ; . 12' 1 ' -% 1D 2.12' ?1.,' =-1.=*-1 ; .' 620' >-180*0' 0 .-, >,.' 2' 6// 6/*. , 2*% I7 ' 'N CNS X ' 2',) 1' 2*8' *0 ,12' 1 ') 6' *' & ' ! *,' ,' 86.' 21,' 6-' -1?',) *' *2^ 5 " 'M ' N QX' -% 1D 2.12' -*+ *8.' ,) *' 6-5 ; ^ ,-62>*' 1 ',) *' $==*-' B1-062' 2,1',) *' /69*' M 5), 11,' ?*0 6,*/ '6,',) 1' 11,' 1 ',) *' 8*.,*-2' / 21' 1 ') //.% () .' !' 6 1 !' =% NRX% * 25' 12',) *' .) 1-*' 6=*-26 ; ?' 1>1>9*',119',1' D*',) *' 1 ; 2,6 2' 1 ' 6=*-26 ; ? '620' -% 86./ 18*' ,) 62' 6[6-*,/ ' 620' 626' 1 ' 46/ /**' -1?' 1D 2.12' 86.' 7,' 12*',. ? *' 0 .=1.*0' 601=',) ,) ' >12^ P& >)' ,) *' -160',1' , 86.' 12*' 1 '0*.>*2,' MB1) 2' ' KT >/ ; . 12% ()1' 1 ; 20' 1 ; 2,6 2J ' 6' ? /*' 620' 6') 6/ ' ; 9*' + ' N X' 6' ?10*' 1 '.=**>) ' 8) >)' 81 ; /0' 6=*/ ' ,1' -1?',) *' /69*' ,5' 8) >)' , '.*20.' 6' >12. 0*-6D/*' .,-*6?' ,) *' 5*2*-6/ /*+*/ 1 ',) *' .=1, ' *+*2' 1 ; -' 1-0 .' *L^ 8 ,) ' .) % &) >) *+*-' 1 ',) *.*' 1 ; 2,6 2.' D*' ,) 6,' 1 ' =-*.. 12' *L6/,*0' ; 2,1') *6+*2J' M ; 78 7 ' ,6% <6,,' L ' 6=) 6-26 ; ? ' 8*' .) 1 ; /0' /1D9' 1-' .1?*' ,-6>*.' 1 '62' 62^ KNX') 60' 62 '-* *-*2>*',1') * 5), ' 1 '=1. , 12' 2',) *',182' > *2,',177-2' 2',) *' + > 2 ' '620' 20 25',) * ? ' .) 1 ; /0' ,.*/ % ' 86.' 1 '.; > *2,. [*',1' D*' 6/86 .' >6//*0' 6' D*' A ; ., *0' 2'.; ==1. 25',) 6,',) * ' 1-?*0',) *',1?6 2.' > , J' : 7 ! ?6,,' L ' T < 6-9 'NNXT) 60' ,.' 182' 1' 6=*-26 ; ?% ()*' 12/ '62> *2,'-*?6 2.' 1 '62EI C9 20' . 26515 ; *' 2' 8) >)' 1 ; -' 1-0' -*_ ; *2,/ ',6 ; 5),'MB1) 2' 2*6-' ,) *' 1 ; 20' 1 ; 2,6 2' 6-*' .1?*' /6-5*' +1/>62 > + ' RT <6-9' 'K T ; 9*' + 'NN' NQX ' 6' ?6515 ; *' D/1>9.' .,-*8*0' 1+*-',) *' =/6 2' 1-' = /*0',15*,) *-' 8 ,) ' D ; /,'D ',) *' >*2, ; -12' 1 ',) *' 0*,6>) ?*2,'1 ' 1?62' .1/^ / ,,/7' 6->) ,.*>, ; -6/ 1-0*-% ; ,' 2*6-',) *' 2' *,C(2' .' 0 *-.' 8) >)' 6==*6-.' ,1') 6+*' D**2' _ ; 6-,*-*0' 2',) 1' ,) *' /18' ?1 ; 20' 1 '-; 2. ' 1>>; = 025' 6' >12. 0*-6D/*' > -C =/6>*' M ; 9*' + ' T >1?=% QT < 6,, ' + ' QX% ; ,' D*^ >; ? *-.2**' 8) >) ' 6=*-26 ; ?' 8*-*' . ; 6, 0*' 2' . 0*.' ,) *' 56-- .12',) *-*' 86.' 6/.1' 6' '.,6, 12' ,) .' =/6 2' 1 *-',) *' D*.,' =-1D6D / , ' 1 'D* 25',) 1' -*^ 8) *-*' ,) *' 0 ; *.' 8*-*' 56,) *-*0' D1,) ' D 'C .,6, 126- ' ?6 2.' 1 ',) *' 011?*0' > , T 620' ',) *.*' D1' 6// ,.' -*^ M< 6,, ' L ' RIT <6-9' ' T ; 9*' + ' K X' 620' D ' , 2*-^ ?6 2.' ,') 6.' 6>>1-0 25',1',) 6,' 011?' D**2' D-1 ; 5) ,' 62,' M< 6,, ' L + ' K X 1 >*-.' M,) 1 ; 5) ' ,) *' /6,,*-' =6..65*' /18' 20**0% *6-',) *' 1 ; 2,6 2' .' 6/.1' 6' 9) 62' 8) >)' =-1D6D/ ' -* *-.' -6,) *-',1',) *' *>>/*. 6.,>6/ 1-',*?=/*' 5 +*.',) *' 26?*' 1 ') 62' < 2A 1)',1',) *' .=1,% () .' ,6L',) 62',1',) *' 1?62' 1-' .*>; /6-' 12*X% ',) *' 86 ' 9) 62' .' 218' 2' ? 2. ' D ; ' 86.' 12>*' 6' /6-51' 620' 81//C 1 ',) *' .*6J' 86.' ,) *' 5-*6,' -160' -1?' 6?6.>; ' .1',) *' D ; /,' .,-; >,; -*% /1.*' 12',) *' 21-,) ' 1 ',) .' 9) 62' 620' .1 ; ,) % ,,*-' 6 +' L+ ' NNRX',) 1' 0 ; , *.' Y ') 6+*' D**2' /*+ *0' 21,' 12/ '12',) *' .) ' 620' 1,) *-' >1?*->*' 1',) 1' 1 ; 2,6 2' >1?*' 0182' _ ; ,*',1',) 1' /69*' 620' 1-?',) *' 21-,) *-2' /69*' D% ; ' 12',) *' >6-6+62.' 1 ' ?*->) 620 .*' =6.. 25',1' ,*-?/26, 1 / 1',) *' =/6 2% ' .' ?=1-,62,',1' 600',) 6,' 46/ /**' 620' B ; 06*6% ,' 86.' 6/.1' 2*6-',) *' D1-0*-' D*^ #; 6-*. ? ; .' *L=-*../ ' .,6,*.',) 6,' 2') .' 06 ',) *' =/6>1' ,8**2',) *' ,- D*.' 1 ' U*D ; /12' 620' 6=) ,6/ ' M< 6,, ' + ' >6//*0' D ',) *' -6D.' '" M % *% < 2 *) X' 86.' -*56-0^ NX% 0*' 011?' 8) >)' 1 ; -' 1-0' =-121 ; 2>*0' 656 2.' 6.' 2 ?*.' 1 ' 6=*-26 ; ?' I6 1' - ' 6=*-26 ; ?' 620',) *' 1,) *-' ; 2D*/ *+ 25' > , *.' 1 ',) 1' ($ f 'QS X% ()*' ?*2, 12' D ' B1.*=) ; .' I ' KX =/6 2' 1 ' 4*22*.6-*,) ') 6.' D**2' -*?6-96D/ ' ; /' //*0% 1 '6' + //65*' >6//*0') %" ' . ; 6,*0' D*, 8**2',) 1' 2',) *' =-*.*2,' 06 '21' *>>/*. 6., >6/,-60 , 12' *+*2' +*2^ ?1 ; ,) ' 1 ' ,) 1' B1-062' 620' (6- >) 6>6' 8 // 65-*' 8 ,) ' , ; -*.',1' ,' .' . ,*T 620',) *' >12,*.' D*, 8**2',) *' - +6/ 6=*-26 ; ?' & // D6/0 ') 18*+*-' >/6 ? .' 1 ',) *' ,81' ?1.' ; =-1D6D/*' .=1, .' .' 12*' 1 ',) *' IN ' S' X' =6..*0' . ; >>*.. +*/ '12') .' 86 ' -1?' 86-?*.,' 620' 6,' ,) *' .6?*' , ?*' ,) *' ?1.' 0 >; /,' ,1% (D*- 6.' ,1',) *' $==*-' B1-062' ',) -1 ; 5) ' <6506/6' 6^ 0*> 0*' 2' .6>-*0' ,1=15-6=) % =*-26 ; ?' 6',) *' .1 ; ,) *-2' *20' 1 ',) *' =/6 2' 'M6.' 6=^ % -% 1D 2.12' I ; 2!' 5 " 1' ' KQQCKR X' *L^ 6=*-26 ; ?' 6',) *' .1 ; ,) *-2' *20' 1 ',) *' =/6 2' 'M6.' 6=^ =1.*.',) *' *--1-.' 1 '6// =-*+ 1 ; .' ,-6+*//*-.' 2',) * -' +6^ =*6-.' ,-; *X',) .' 6/.1' >12,6 2*0') 1-6[2% ()*' /6,,*-' - 1 ; .' 6,,*?=,.',1' 0*2, ',) *' . ,*' 1 ' 6=*-262 ?' 620' ?6 ') 6+*' D**2' ? ?*0 6,*/ '12',) 1' .) 1-*' 620' 6=*-C -1?' 6') 2,' 2' # ; 6-*. ? ; .') *' .' -6,) *-' 2>/ 2*0',1')6 ; ?' 6,' 6' / ,,/*' 0 .,62>*' -1?' ,' M ; 9*' L' T >1?=% /119' 1-' ,' 2' 6'=/6>*' ?6-9*0' 12/ 'D '6' ?1 ; 20' 1 '-; 2. ' 1 ' < 6,,' + ' Q RX' 6.' .',) *' >6.*' 6,',) *-2' .=- 25' D ; ,' 21',) *' 21-,) *-2% ()*' 6-5 ; ?*2,.' 2' 6+1-' 1 ' >6//*0' D ',) *' -6D.') " ' "!' () .' .' . ; 6,*0') " ' ?6 'D*' 1 ; 20' 2' 1D 2.12 .' 5 " ' 6,',) *' 21-,) C*6..*-2' *L,-*? , ' 1 ',) *' *-, /*=/6 2' M218' M2*8' *0% ' N' ._ %T ' N CN QX' ()* ' 6-*' >) * / >6//*0' /4) ; 8* -X' 12',) *' 8*.,*-2' D1-0*-' 1 ',) *' 69*' 1 ; 20*0' 12' B1.*=) ; . ' >6>>1 ; 2,1' ,) *' /620' 1 ' 1' 4*22*.6-*,) ' ,1' 8) >)' ,) *' 26?*' 1 ') *' /620' 1 ' 1 ; 2,6 2' 620' 1 ' 4*22*.6-*,) GH .' 5 +*2' D 'B1.*=) 2.' M 6-' ' ' QX D .' + . ' ,1' *=) 6?1?*' 8) >)' -% 81 ; /0' 0*2, ' () .' =/6 ' .' 6' .1-,' 1 ',- 625 ; /6-') 1//18' 1-?*0' D ',) *' 8 ,) ' ?1 ; 20.' 2*6-',) *' 9) 62' 620' 12',) *',*., ?1Z' -*,-*6,' 1 ',) *' ?1 ; 2,6 2.' 6D1 ; ,') *' ? 00/*' 1 ',) *' 8*.,^ 2 *.' 1 '.; >>*.. +*',-6+*//*-.' -1?' ->; / ; .' ,1' #; 6-*.0' *-2' .) 1-*' ()*' D6.*' 1 ',) .' 625/*' .' 6/125',) 1' .) 1-*' ? ; .' 8) 1.*' 21, >*.' -% 2,*-=-*,.. ' 1 ,*2' ,' ? ; .' 620' .' 6D1 ; ,' 12*') 1 ; - .' A1 ; -2* ' 2' /*25,) ' 8) *-*6.' , D*' >12 *..*0' 21,' 8 ,) 1 ; ,' 0 >; /, ' 72 -* *-*2>*' ,1

)62’ < 2 *)¼ ()*’ 1;2,6 2’ 6=)6-66; ? ’ 8) >)’B1^ /69*’ 6>,;6// ’ / *.’ ,)-1;5)’ , ’ M>Ƙ ()*’ >- =,;-*’ 21^ .*=);.’ ?*2, 12.’M -6- ’ ’ ’QƘ 2’ 6’ +*- ’ *?=)6, >’ , >*.’ ?1..’ 2’ _;*., 12’-*/6,*’,1’,)*’ ? -6>/*’1’,)*’ **0^ ?622*-’6.’ 6’ >) * ’.1;->*’1 ’,)*’ 86,*-’1 ’,)*’ =/6 2’1 ’ 25’1 ’,)*’ +*’,)1;.620’,)*’ .>*2*’1 ’8) >)’ ?6 ’)6+*’ 4*22*.6-*,)’620’6.’6D1;20 25’8 ,)’ .)’81;/0’)18^ D**2’12’,)*’.)1-*’.1;,)C*6.,’1 ’ *,)*.06’D* 120’B1-^ *+*-’>*-,6 2/ ’62.8*-’D*,,*-’ ,)*’ 1;20’ 1;2,6 2J’ 062’ 6200’ 2’,)6,’ >6.*’)- .,-’ -*,;-2’ ,1’ 6=*-26; ?’ ,)62’,1’6’.=- 25’ ’>/1.*’,1’,)*’.)1-*’620’.1’2*6-’12*’ ?6 ’)6+*’D***2’ 12’,)*’.)1-*’.1;,)C*6.,’1 ’ *,)*.06’D* 120’B1-^ *20’1’,)*’0 .,-> ,’6.’ .’ 2’*,C(2¼ ()*’>/6 ?’1 ’)62’ 4*22*.6-*,)¼ I 8’()*’? .60+*2,;-*’1’B1.*=);.’?6 ’ < 2 *)’ .’6/.1’.,-125/ ’1==1.*0’D ’6’/6,*-’,-6+*//*-’)6+*’)6==*2*0’6,’,)*’?1;,)’1’,)*’$==*-’B1-062’620’ M 126-’=¼ N C X’6.’6/.1’D ’ 62’0*’ */0*’MBV*?1V-’=¼ ,)*’ =/6>*’ 2,1’8) >)’)*’ 86.’D1-2*’ 86.’6’ + //65*J’ N ’N ‘B\’620’ ()1?.12’I1 ’ ; 1’ ’ K’ .¼I’ ?*-*/ ’ 21,’6’/6-5*’ > , ’ / 9*’ 6=*-26; ?’ 6/,)1;5)’ 21,)*-’ DA*>,12’,1’,)*’. ,*’1 ’)62’ < 2 *)’ .’,)6,’ ,)*’ 26?*’1 ’,)*’/6,,*-’?6 ’26,;-6// ’)6+*’ 2>/;0*0’ 6OA6>*2,’/1>6/, *.’6.’8*’9218’,’86.’*L,*20*0’,1’,)*’ *2, -*’=/6 2¼ 2’,)*’8)1/*’,)*-* 1-*’¼,’.**?.’D*.,’,1’0*>0*’2’ 6+1-’1’(*//’:;?’6.’,)*’.,*’1’ 6=*-26; ?’2’+*8’ 1’,)*’.?/6-,’1’26?*’620’,)*’*L.,*2>*’1’*L,*2^ .+*’-;2.’,)*-*Ƭ 620’,).’>12>/;.12’.’5-*6,/’>12^ -?*0’D’,)*’6/?1.’>-,6 2’=1.,12’1’)1-6[2’6,’ -C *-6[*’6’/,,/*’,1’’)1’ ¼&¼ M *>’D ’$!’ !’ >,¼’Q ’=¼ SK’.¼’;B;/ ’ Q ’=!’N ’.¼Ƭ ;’’ PR6>-6’ =-/’Q ’=¼KSN’._¼Ƭ !’& ’’ *D¼K’ <6->)N QSSƬ $! !) ! W E8!’ *’’

6=*-.’’ ’ ¼ ¼’6’D.)1=’1’,)*’<*,)10^ .,’ =.>1=6/);->)’ 1;,)’86.’D1?’ 2C,’()1?6. .C 6-.)’ ¼ ¼’B62¼KS’R ¼ 2’ Q ’)*’*2,*-*0’,)*’ .1=)1?1-*’>/6..’6,’,)*’ 1;,)C 6-1//26’ 1//*5*’D;,’ /*,V 1//*5*’D* 1-*’,)*’, ?*’1’5-60;6,12’720’D*562’ 2’,)*’ 1;,)C 6-1/26’ 12*-*2>*’2’Q R’620’/1>6,*0’ 2’Q ¼ :*’86.’-*60?,,*0’,1’,)*’ 12*-*2>*’2’Q Q’ 620’86.’ -.,’*/*>,*0’,1’4*2*-6/ 12*-*2>*’2’QK’ 620’86.’.*2,’6.’0*/*56,*’-1?’,)*’ ?*->62’<*,)10^ .,’);->)’,1’,)*’ -,.)’&*./* 62’ 12*-*2>*’2’ QKQ¼ :.’;D.*_;*2,’=1..’1’0;,’8*-*’=-1*..1-’1’ + 0*2>*.’1’)-.,62,’2’ 1/;?D6’ 1//*5*’ QN Ƭ *0,1-’1’,)*’ 1;,)*-2’)-.,62’ 0+1>6,*’QN C Ƭ ?..126-’.*>-*,6-E7’1’,)*’.1;,)*-2’0+.12’1’,)*’ <*,)10.,’ =.>1=6/);->)’¼Q C Ƭ .;=*-2,*20*2,’ 1’>1/1-*0’?..12.’2’,)*’ 1;,)*-2’,6,*.’2’Q ¼ 2’<6’Q ’-¼ 6=*-.’6,,*20*0’,)*’4*2*-6/ 12^ *-*2>*’)*/0’6,’ *8’ 1-9’6.’12*’1’,)*’0*/*56,*.’1’ ,)*’ 1;,)C 6-1/26’12*-*2>*¼ ().’86.’,)*’*6-’2’ 8)>)’,)*’5-*6,’62, C./6+*-’65,6,12’2’,)*’<*,)10^ .,’ =.>1=6/);->)’>6?*’,1’,.’>-..’2’,)*’0+.12’ 1’,)6,’D10 ¼ -¼ 6=*-.’,119’,)*’ 1;,)*-2’+*8’1’ ,)*’_;*.,12’620’-1?’,)6,’.?*’,/’,)*’>/1.*’1’).’ /*’)*’86.’0*2, *0’8 ,)’,)*’<*,)10.,’ =.>1=6/);->)’ 1;,)¼ ’,)*’4*2*-6/ 12*-*2>*’1’,)6,’);->)’)*/0’2’Q ’)_’86.’*/*>,*0’D.)1=¼ ()*’.-*^ ?6 20*-’1’).’/ *’86.’.=*2,’2’,)*’0.>)6-5*’1’,)*’ D.)1=.’1 >*’8)>)’)*’ //*0’+7,)’=-*C*?2*2,’0 52 ^ ,’0/5*2>*’620’.;>>*..’ -¼ 6=*-.’>6?*’1’6’ :,^ 5;*21,’6?/’-20’).’ 6,)*-’0 0’56//62,’.*-+>*’2’,)*’ *+1/;,12¼ :.’)1;.*’86.’12*’1’,)*’)1?*.1’ .);-’ 620’,)*’*6-/’<*,)10.,’=-*6>)*-.¼ 2’,)*’?2.,-’).’ -.*’86.’-6=0’620’).’;.*;/2*..’620’=1=;/6-AI7>120^ .,62,/’2>-*6.*0¼ :.’*/1_;*2>*’2’,)*’=;/=,’86.’ .62>, *0’D’,)’7’;2>,12’1’,)*’:1/’4)1.,’620’,)1;5)’ 5*2*-6// ’.?11,)’620’5-6>*’;/’86.’6,’,?*.’=18*-’;/’ 620’*+*2’1+*-8)*/?25¼ :*’86.’6/86.’-7 2*0’620’ */*+6,*0’2’,)1;5),’620’/ *’620’/6D1-*0’8,)’*6-2*.’ 0*/,’1-’).’<6.,*-.’>6;.*¼ :.’6>,+,’1’?20’ 620’=*-.*+*-62>*’,15*,)*-’8,)’,)*’8*5),’1’).’?1-^ 6/=18*-’56+*’)?’5-6,’2/;*2>*’2’).’12*-*2>*’ 620’2’,)*’);->)¼ :*’0*0’2’20*-.12’¼ ¼B62¼ KR Q ¼ :*’/*,’21’/,*-6-’-*?6 2.’*L>*=,’62’6;,1^ D15-6=)’M=-* L*0’,1’-¼ & 5),?62.’ ’ ’ 1’ % 8E’ ’ ’ ’ ’ 7 ’ :’ $’’ $’ =’ ’ ’-’ ’- ’ ’ ’ ’M*0,*0’’ ’ -¼ ;?^ ?*-;’ 6.)+//*’ Q?1X¼’ ;??*-.’$+ ’’ ’6 9 (’=¼ Ƭ & 5),?62’ ’fN!’ % ’!’!’!’M 6.)+//*’ Q R’ K?1XƬ =-65;*’& ’+ ’ S ¼

6=*’(18 2’,)*’>6=,6/1’,)*’ 25/.)’=1..*.^ .12.’6,’,)*’ 6=*’1’4110’:1=*’*-*>,*0’2,1’6’D.)^ 1=.’.**’1’,)*’ 25/.)’);->)’2’Q ¼ ()*’.**’18*.

,.'*L .,*2>*',1',)*' ?;2 >*2>*' 1 '< ..' ;-0*,>' 1;,,.% ()*' -.,' D .)1=' 86.' 1D*-,' 4-6 ' % %'1 ' ,1>9,12' >12.*>-6,*0' 6,'& *.,? 2.,*-'B;2*'KR Q '8)1' .', // ,)*' 2>;2*A6*2,% ()*' D .)1=' 1 ' 6=*' (182' .',)*' ?*C' ,-1=1$,62' 1',)*' 25/ >62' 0 1>*.*.' 2' 1;,)' ->6'1 ' 8) >)' 2' QS ',)*-*' 8*-*',)*' 1//18 25'D*. 0*.' 6=*' (182% 6,6/'*.,6D/ .)*0' QSN' <6;-, ;.' Q !' 4-6^)6? .' (182' Q ST ,% :*/*26' QSK' -625*' +*-' ,6,*' QSN' *2,-6/ ->6' QSN% ()*' &*./* 62' ? .. 12.' 2' ,)*' 0 .,-> ,' 1 ' 6=*' (182' *?D-6>*0' 2' QSS '> ->;,.'K '>)6=*/. ' K'1,)*-'=-*6>) 25C=/6>*. ' R' ? .. 126-*.' 620'6.. .,62,' ? .. 126-*.' K ' .;D1-0 ^ 26,*' =6 0' 620' ;2=6 0' 65*2,. ' ' ?*?D*-.' K ' 12' ,-6/ 1-' ?*?D7.) = 'KSQ' .>)1/6-.' 2' ;206 C.>)11/.' 620' SRQN' 6,,*2062,.' 12' =;D/ >' 81-.) =% ()*' 1?62' 6,)1/>.')6+*' 6,' 6=*' (182'6'+ >6-' 6=1.,1/>'MD .)1=' 2' =6-, D;.X' 8)1.*' 0 1>*.*'*?D-6>*.' 6D1;,')6/'6'01[^ *2'>);->)*.% ' 62012'6 '' ' S ' **' !' ' 6=)6-C' M.,)*' 6, 2 [*0' 1-?' 1',)*' :*D% =-* L' ,/*' II>12.,-;>,' 1-?J') %" E'I7 N' -1?',)*'-11,'1',)*'.6?*' 1-?'. 52 25' ,1'>1+*- J 4*.*2;.'-" '=% X'12*'1',)*'2;?*-1;.'81-0.' *?=/1 *0' 2',)*' D/*' M620'., // 1 ,*2*-' 2'/6,*-' 1-' -6DD 2 >6/ : *D-*8X',1'0*21,*'6'+ //65*' 1-'>1//*>, 12'1 ' 08*// 25.'!.?6//*-',)62'6'>, 'M */620' 1*. %=' SX% *'*? 4f ,62/* '=-1=1.*.',1'-*20*-' ,'D ')6?/*,J' > f' ==% g'Q X',1'0 ., 25; .)' ,.'1>>;--*2>*.' -1?' ,)1.*' 1 ' " "' " 1' ; "1' 620' 1,)*-' . ? /6-' 81-0.% .'62'6==*//6,+*' ,' .' 1;20'12/ ',)-*'*, ?*.& R')-12% LL+ 'K ' 62,'+ ' 7 620' ' 6?% + ' Q"M 2' ,)*1/6.',)*' =1 2, 25'D* 25'0 *-*2,*') (%" 1' I7 NX' D;,' 2'2*.,)*-' .',)*-*'62 ,) 25',1'*26D/*' ;.',1' L'62 ' .=*> 6/ 1->*',1',)*'81-0% 2'26?*.'1 '=/6>*.' ,'1>>;-.' 2' ' / ' 4 ' / ' / ' 4 4' '620',)1.*')*-*' 1//18 25' 6/.1' / $ ' 4' + <0? '*,>% ;',)*'2;?D*-'1 '=/6>*.'>1?=1;20*0' ,)*-*8,)' ?*2, 12*0' 2',)*' (6/?;0'.)18.',),6,',)*' 26?*' D*>6?*' 6' ?;>)' >1?12*-' 12*' 6,'6', ?*'.;D.*^ _;*2,',1',)*' D/ >6/).,1- % **' ,)*' 81-0.' D*5 2^ 2 25' 8 ,)' 1 / ' 4f 2' -6D>',)*' >1--*.=120 25' /1>6/ *A;/)*,') ' .' 2' -*_;*2,';.*' M.**',)*'/ .,.' 2' 1D 2.12 .' " ' ' ==*20%% ' ? ,)' .% +%

6=)6-6D .' M >-7> -=6V -X' 6',182' 1' 0;?? 6' 8 ,)' 6' +*- ' .,-125' 86//' .:--*20*-*0' D ',)*' >, [*2.' ,1' *-*6/ .',)*' 5*2*-6/ 1' *.=6. 62' 6 ,*-' 6' .*5*',);.' -*20*-*0';2*L=*>,*0/ '.)1-,'MB1.*=);.' ' 1' + ' R' RX% */620' > ; f=% SQ X',)29.' ,',)*')%" =; +' M_% +%X' 1',)*'-6DD 2.' D;,' >)86-[' -* *-.' ,',1',)*')9 %" =&" ' M N ' 7 NX' 1')*' B*-;.6/*?' (6/?;0' >$ " f' X' 620' 20.' ,' 2',)*' 8*// 2*6-' 4*01-' 2' & 60 ' ;-6-'M?*62 25'6==6-*2,/ ',)6,'?6-9*0'12' 62' 0*' */0*.' %'6'/ ,,/*'.1:,)C*6.,'1' 9-12X'8)>)')*' .6 .' .' .,// >6//*0' ,)*' =-25'1' D .%J' ()' .'=1.^ ,12')18*+*-' .**?.',11'21-,)*-/ %

6=) -6,)% **' 1 /' 4 !

6=)6-D6- >)6'M=-1D% 1-'2. B '

"+ .' D;,'0 *-*2,' -12,',)*' +6//* ' 1 'D/*.. 25J' \.** 8 6 ' ' (' 26?*0' 2' K) -12% LL ' KSX' 6' =/6>*' ?*2, 12*0' D ' B126,)62' <6>>6D.*;.' M ' <6>>' L ' N X% ()*' 26?*' .**?.' ,1' D*' 0*- +*0' 1?' D %"= + (',)*')6/0**' 81-0' 1-' " ' % ' M ;L,1- ' !' - f' >1/% X' 620',);.')6.'6'-*?6-96D/*'>1--*^ .=120*2>*' 8 ,)',)*' 26?*.' 1' *,)62 'M)1;.*' 1 '06,*.X' *,D=)65*' M)1;.*' 1' 5.X' 620' 1',)*' <1;2,' 1' / +*.' ,.*/ ' 12' 8) >)',)*',)-**' 8*-*' . ,;6,*0 ' 6//*.., 25' ,1',)*' 62> *2,' -;. ;/2*..' 1',)*'=/6>*' M>1?=% >)86-[' '=% K SX% I

6=D ,D-6' M 67 C=6X' 6' =-*,*2, 1;.' / ,,/*' ,182' IG - [E 8' 2' $==*-' 0;?.*6' 6==6-*2,/ ' 21,' 6-' -1?' 6=)6-6D .'M_% +%X',69*2' 620' D;-2,' D ' *-*6C' / .',)*' 5*2*-6/ 1' *.=6. 62' MB1.*=);.' ' +' R' RX% ()*' 26?*' 1>>;-.' 8 ,)' >12. 0*-6D/*' +6-*, ' 2' ,)*' ,*L,.'>) U% 1% % '*,>%' :;0.12' 2' /1>%X' 620' *,-;.' =1//12 ;7' >' ' ' # ' ' S X' 5 +*.' ,' . ?=/

' KSX' > ,*.' ,)*' 26?*' .1?*8)6,' 0 *-*2,/ ' M 6 -6=0(-6 1X' 620' ()*101-> ,' I % !' ' 3!'@ !' X')6.' " " 'MD6VN=6 X' .1',)6,',)*'=/6>*' .'6/,15*,)^ *-'01;D, ;/% 7

6=D6-56?7/6'M=-1D% ' ' " ' 8'6'+ /^ /65*' .60',1')6+*' D**2' . ,;6,*0'K ' ? /*.' -1?'B*-;.6^ /*?!',)*' 26, +*' =/6>*' 1',)*'=-*.D ,*-' ;>62' 8)1' 8-1,*',)*'?*?1-'>12>*-2 25',)*'-*?6 2.'1' ,% ,*^ =)*2'6D1;',)*' ,)'>*2,;-'M */620' !'=% SQQX' D;',);1;5),'D' 1,1+>;.'ID !'=% KQ X',1'D*',)*'26?*' 1'6'=*-.12% ** / ' ! 6=D6-26 ?% ** / $! 6=D6-6-6% ** / ! 6=DD-1-.6'6'=/6>*' M 686=1=7-6' 1-' 676=;=C' 8' 26?*0'D ',1/*? '6.'6',182' 1' 0;?.>6'8*.,'1' ,)*'B1-062'620',)1;5),'D' */620' ID !'=% SR X',1' D*',)*' %" 'M1-' *=*-6-6X' =/6>*0' 2',)*' J' - ' D*,8**2' B*-;.6/*?'620' .D96/12% ** / ! ,' .'=1.. D/ ',)*'.6?*' 8 ,)' / ' 4' 2 ' 'M_% %X% 67D6-.7D6% *>' / ! 6=D6-.6 6?6'IO 1 % E % '+% -% ($! J3 % 1' % % '6==6-% 1-' 7 N' + //65*' 1'=*6>*JX' 6 =/6>*'8)*-*' >621-.',-11=.'8*-*';;',1'=*>*.'D 'B;^ 06.'<6>>6D.*;.'M '<6>>% + 'N X% B1.*=);.' 2',)*' =6-6//*/ 6>>1;2,'>& !' L ' ' X' >6//.' ,'6' + //65*' >)3%G) % % O % 8!' */620' .;55*.,.' > f' =% SR X',)6,',' ?6')6+*' D**2',)*'.6?*' 8 ,)',)*' %" ' ? 'M_% +%X' 8)*-*',)*'=-*.D ,*-' ;>62' 86.'D1-2' 1-',)*' %" = ' ?*2, 12*0' 2').' 8-, 25.% :*' 6/.1' 6OO;>*.'62' 6//;. 12' -1?',)*' (6/?;0'>&" '$ 9 ' 1/1' '>1/% X',1'6'8 2*C5-18 25'+ //65*')% " =' $ ' 7 KX'01;D,/*..',)*'.6?*% -1?',)*' ;^ 5, +*.' 2',)*'6D1+*'D6,,/*')6+ 25',69*2'-* ;5*' 2',)*' > ,'1' 6+ 0 J' ,' 81;/0'6==*6-',1')6+*' D**2' 2*6-' B*-;.6/*?!')*2>*' ,' .'=1.. D/*',)6,' ,'86.',)*' +//65*' 2*6-'$2 'M_% +%X',)*' -6D>'26?*'1'8')>)' .') =' &J 86/0'=/6>*.' ,' 21-,)'1' 6?/6'12',)*' 6^ 6-,62'D1;206 7'>? "!' f' +'NSQ'21,*X'D;',) .' .' _;,*'6-D,-6- ' ' I

6=D6-C 1-*>)% ** 6=D6-,1D6' ** 1 /' 4O !

6=)6-CU6*D6-.#'M +//65*' 1'U6>)6-6. IX' 6' =/6>*' ?*2, 12*0' D' 1[1?*2' > f' 6 f' L' X' 6.' / 25' 2',)*'-*5 12' 1' /*;,)*-1=1/.'620' 6==6-*2,/ ' + .,*0' D ' & // D6/0' 12') .' 86 ' -1?' 46[6',1' : *D-12' >- '=% K ' 1)2X% ,' .**?.',1')6+*' D**2' 0 *-^ *2,' -B?',)*' 6,/CU6>)6-6.'M_% +%X' 1',)*' =1>- =)6' M '<6>>% + '7KX' 620' B1.*=);.' >& !' L ' R' X% ,' .' =-1D6D/ ',)*' ?10*-2') '. + 'M 1D 2.12' ; =' " ' 'N X' 6' + A/651' 12',)*' 21-,)'.0*' 1' & 60 ' ;-1,'1==1..,*' (*// U6>)6-6'6D1;,')6/'86 'D*,8**2' B*-;.6/*?'620' .)9*/12'M 62'0*' */0*') ' ' RKX% ** / !

6=D*2%6,D6' IO I% g 8' 6' =/6>*' 6==6-*2,/ ' >/1.*',1'620'12',)*'*6.,'.0*'1'B*-;.6/*?'8)>)'86.' -*=6 -*0' D ' B126,)62' <6>>6D.*;.' M ' <6>>' L ' N X% ()*' 26?*' .**?.',1' D*' 0*- +*0' 1?' D %"= + (',)*')6/0**' 81-0' 1-' " ' % ' M ;L,1- ' !' - f' >1/% X' 620',);.')6.'6'-*?6-96D/*'>1--*^ .=120*2>*' 8 ,)',)*' 26?*.'1' *,)62 'M)1;.*' 1 '06,*.X' *,D=)65*' M)1;.*' 1' 5.X' 620' 1',)*' <1;2,' 1' / +*.' ,.*/ ' 12' 8) >)',)*',)-**' 8*-*' . ,;6,*0 ' 6//*.., 25' ,1',)*' 62> *2,' -;. ;/2*..' 1',)*'=/6>*' M>1?=% >)86-[' '=% K SX% I

6=D ,D-6' M 67 C=6X' 6' =-*,*2, 1;.' / ,,/*' ,182' IG - [E 8' 2' $==*-' 0;?.*6' 6==6-*2,/ ' 21,' 6-' -1?' 6=)6-6D .'M_% +%X',69*2' 620' D;-2,' D ' *-*6C' / .',)*' 5*2*-6/ 1' *.=6. 62' MB1.*=);.' ' +' R' RX% ()*' 26?*' 1>>;-.' 8 ,)' >12. 0*-6D/*' +6-*, ' 2' ,)*' ,*L,.'>) U% 1% % '*,>%' :;0.12' 2' /1>%X' 620' *,-;.' C =1//12 ;7' >' ' ' # ' ' S X' 5 +*.' ,' . ?=/

6.' %" 1' -1?' 8) >)' ,' .**?.' =1.. D/*' ,)6,' ,)*' .>- =,;-6/' ' / ' 'M_%'+%X'?6 'D*' 2,* ,0*0%

6=D -6' M 67. =>,X' 6' =/6>*' 8)1.*' 2)6D ,62,.' -*,;-2*0' -1?' 6D /12'M ' .0-%'+' RXT'*+ 0*2,/ ',)*' ' / ' -'M_%'+%X'1',)*' : *D-*8',*L,'M [-6' 'K X%

7=)7,)1- ?'M ')-12%' KX%' **' / ' !

6=D ,1-' M: *D%') %" (' \ H' 2 *;,%h'6' " % 1'6.' 2' ?1.' L' '*,>'T *=,'1 4' (-211> ' ;/5% %% 81'6'?6-, ?*' >1;2,- ',)->*' ?*2, 12*0' 6.' ,)*' =- ?, +*' .*6,' 1',)*') /.,2*.' M *;,% 'KNT'B*-%'L/+ ' T' ?1.' L' X' 8)1'6-*'12>*' >6//*0' 6=),1- ?'M *;,% 'KNX'6.'1',)*' .6?*'-6>*'6.' ',)*' < [-6,*' =*1=/*'1',)6,'26?*'M4*2%'L' T' ')-12% N' KX% ()*-*')6.' D**2' 6' 5-*6,' 0 +*-. , '1'1=2 12' 8,)'-*56-0',1',)*' *L6>,'. ,;6, 12'1',)6,'>1;2, 7'M.**!' ?12.' " 'N'-!'=% X% **' / ' !

% ()*' 5*2*-6/1=2 12',)6,' 6=),)1-'86.' %% 9 'M21,',)*'>, ' 6==601>6'1-' %" '2')1*2>6' .**' >);/,[' * '+' S X' .';=12',)*' 8)1/*' 1;20*0' ?1-*' 12',)*' 62> *2,'+*-. 12.'1',)*'% D/*'.;>)'6.',)*' *=,;65 2,'620',)*' (6-5;?.',)62'12'627'.1;20'6-5;^ ?*2,'M.**' 1>)6-,' " ' +'NKT' < //*-' $! # ! =% S'._%T ,-6;.' ' . %" "'=% X% 56 2.',) .'1=2 12')6+*'D**2O-5*0á M X'()*'6;,)1-^ ,'1'B1.*=);.'M 2V' 'S KX'8)1'.**?.',1'.**9' 6=)C ,1-'.1?*8)*-*'D*,8**2' 5 =,'620',) 1=6T MKX',)6,' ,)*' 6=),1- ?' >6?*' 1-5 26// ' -1?' 5A=,' -1?' 8)>)' 6==601>6'.'.1'6-'-*?1+*0',)6,',.**?.') 5)^ /' ?=-1D6D/*',)6,'62' 5 =,62'>1/12 '.)1;/0' -.',)6+*' *?5-6,*0',) ,)*-'620',)*2'656 2'-*?1+*0',1' 6/*., 2*' ., //' ?1-*' -*?1,*T' MNX',)6,' 6=),1-'620' 6==601>6'6'6-*'+*- '0 .. ? /6-'26?*.'MD;,'.**' :*>-*2' 2',)*' !'$ '?' !'L 'NNT'B6D/12.9 ',% ! ','.%T 4*.*2;.'-" !'=% RT' 1.,*-'6 =% '_%X'*+*2' 2'.1;20T'M X',)6,' 6=),1-'.'MB*-% L/+ 'X'0*.526,*0'6.'62'./620'M:X',)1;5)' .1?*^ ,?*.'6/.1'.52 *.'6'>16.,% **' // / ! K% ,)*-.' 656 2'6.' 6/?>,'>' ; ' ' N, ' " 1'=% NK X' 620'.,//?1-*' 6>9*?6>)*-' I% ' " '='K '._%X')6+*',-*0',1'=-1+*',)6,',)1') /.,2*.' 0*-+*0',)*'-' 1-5 2' -1?',)*' ./620'1' 'M.1' 1.*2?;//*-'& "' ' 'NSNT' 'NQ T' <1+*-.' " ' 'KQT' >25*-9*') !' R T' 86/0' "!'- !'NN T (;>)'?!'=% K NT' :,[5',. '.%"!' T' *-,)*6;'A.-%'? "!='Q T' 21D*/'?!'=% T' */,[.>)'?!'=% KR T' ;-.,' !'.%+%X'D*>6;.*' 'M X' 6=),1-'.'8,)%B*-*?6)'62' ./620T'MKX',)*' =-1=*-'26?*'1',)0')/.,2*.' ') " (1)*-*,),*.J'M [*9%dd ' ST'U*=)% ' T' ' 6?%'L' XT'MNX'6' '&% '*L.,*ZN 2' -*,*'M,-6D1'L' RT' /2 ' +'K X% ()*' *=,%')18*+*-'*+ 0*2,/ '?69*.' 6'0.,2>,12'D*,8**2',)1' 6=),1- ?'620')*-*,) ?T 21-'.' ,'=-1D6D/*' *,)*-',)6,'6'.?6// ./620'/9*' -*,*' .)1;/0'D*'6D/*',1'.*20' 1-,)',); '*6-/ '.1'/6-5*'6'D10 ' 1'*? 5-62,.'6.'?;.,')6+*'/620*0'12',)*',*-- ,1- *.'1' ,))' + ?'.1'6.',1'D*'6D/*',1'*L=*/',)*'?'620',69*'=1.^ .*.. 12'1',)*-'>1;2, W1-',)6,',)*')1*2>62.'81;/0' 6//18'6'.*6 6-25'-6>*/9*',)*' -*,62.',1'.*,,/*' 2' ,)*-'+>2, 'M.**':1>9') 1'=% NS X% **' ! N% 6-'?1-*'=-1D6D/*' .' 6/?*, .'=-*+1;.'1=2^ 12'M1;20' 2',)*' -.,'*0, 12'1')' ' ' ?' =% <'D;,'8)>)')*'6,*-86-0'-*>6//*0X',)6,' 6=),1-' .' ,)*'./620'1' % ' -1?',)*'5*15-6=)>6/.,;6, 12' 1',)6,'./620',?6')6+*'D**2'92182',1',)*' 5 =^ ,62.'6,6'+*-'*6-/'=*-10'620',)*'?6')6+*',*2,' >1/12*.',),)*-'8)1'6,*-86-0'-*?1+*0'-1?'.1?*' -*6.12'1-'1,)*-',1',)*'.1;,)*-2'>1 71' 6/*.,2*'D1-^ 0*-25'12' 5 =,% 8 2,12'ID !'h !' L12% '=% Q'Q X6>,;6// '1;20'12',)6,'./620'62'62>*2,')1*^ 2>62'>1 2'8,)',)*'2.>-=,12'8)>)',)*'-*60 01-J'MI I NNX'21,'+*-' ;2/9*' 6=),1-T'D;,' 2',)*' &N ' !'. 'M *=,% QK ' ' X',')6.'D**2' =-1+*0',)6,' 8//,12'86.'?.,69*2' 2',)*'-*60 25'1' ,)6,' 2.>-=,12'M.**' 4*.*2;.' ' !' " ! 'NK X% ==1.*0',1',).' 0*2, >6,12'6/.1'.',)*' 6>,',)6,',)* =-62.'6-*'*/.*8)*-*'M4*2%'L' X'>6//*0'),, ?'M_% %%X' **' # / !

% ' ., // ?1-*'=-1D6D/*' 0*2, >6,12' .' 8,)'>*-^ ,6 2'=6-,.'1'6 %'' * ,)*-'M X',)*'>16.,'1',De' 5A=C' ,62' 'M ,6-9'?/1'=%% SXT' MKX' 'M 660 6.' & !'(*-7%'8)>)')6.' ? 6,TJ' :6 2*' , !'$!' 'S XT'1-'MNX'=6-,'1' '8*.,'1' 5 =,'M#;6C' ,-*? *-*'D '$ 'Q S'=%K X% ()*'=1.,12' 1',)*'>1;2,- '.2>*',' 86.'=*1=/*0'D' < [-6,*.'?6' 26,;-6// 'D*'.;==1.*0',1'D*' 2' 5A7=,'1-'2*6-',1',' 2' - >6' 1-',)*' 0*6'1',)*' /.,2*.' 1;.,)C8*.',' 1' 6/*., 2*' *L>/;0*0'D',)*'?5-6, 12'1',)*') /.,2*.% 2'B*-% L/+ ',)*'*L=-*.. 12' M >1;2,- '1' 6=)^ ,1-'X')6.'6'8 0*-'. 52 >6, 12',)62'62' 2.;/6-/1>6, 12' 1-',)*',*-?' 0*21,*.'62' ?6-, ?*'/620'8)*,)*-' >16.,'1-' ./620' 6.' 2' ,)*'*L=-*.. 12' ? ' " ' M 6 /' 4*2%'d'SX'D '8)>)',)*'21-,)*-2'>16.,.' 620',)*' ./620.'1',)*' <*0,*--62*62' .**?',1'D*' 2^ ,*20*0',)*'1-?*-' 2'=6,,'6,'/*6.,'D* 25'>*-,6 2/A17 2^ >/;0*0%' ,'?;.,'D1'7-*?*?D* *0'))18*+*-',)6,',)*' /*' .'.=19*2'1'6.'6'.*6'T07X'D' 6);?' 2',)*'0*^ .>-=,12'1' 1'1-'()*D*.'M ' ,'.'6/.1'=1.. D/*' ,)6,',)*'*L=-*.. 12' 2'B*-%'?*-*/ '-*'*-.',1',)*' ?6-^ ,?*'=1., 12'1',)*') /.,2*.'M>1?=% [*9%LL+' SX' 620',)6,' 6=),1-'.')*-*'=1*,>6// ';.*0' 1-' 6=),1^ -?% 1-.,*-'I@% !' ' "' '=% '._%X',) 29.',)6,' ,)*' 6=),1- ?'260'/+*0'12',)*' 5A=,62'>16.,'.>2P>C 1 8)*-*'6D1;,' 6? *,6'M>1?=% *2^6? 2'1'(;0*/6'=% K '1)2X% -1?')*2>*')*.;==1.*.'6'>1/12'1',)6,' =*1=/*'620',)*-'D-*',)-*2'620'*6.,*-/'2*5)D1-.'P,)* " ')60'512*' 1-,)'2',D*'=*-10'D*,8**2',)*' -.,'86-.'1',)*'81-/0'MO*.>-D*0'2'4*2%'L+X'620',)*' D-,)'1',.66>'620',.*,,/*0'12',)*'.1;,)*-2',16.,'1' 6/*., 2*';20*-',)*'26?*'1' " 1'6,*-')6+25' *L=*//*0',)*' + ?'M_%+%X'8)1'/+*0'6D1;,'46[6% ;,'2'.;D._;*2,',?*.' 1-.,*-',)29.',)*.*'2*8')/.,2*.')60'656 2'.*2,'6'>1/1)'8)1'>12_;*-*0',)*' =-1+2>*'1' 6=*,);.'2',)*'./620'1' =-;.% ().' >1/12')*' 0*2, *.'8,)',)*') 1=62.'8)1'/+*0' 6>>1-0 25',1' :*-101,;.'M+ 'QQX' ;=12',)*' ./620% ' 1//18 25'1;,',)*.*' .;55*., 12.' *5 26/0' ,;6-,' 11/*'M 2',)*'6 % ';' 1'Q,)'*0%'6-,>/*' 5A=,'=% RX'6,*-'6'>12A*>,;-*' 2' :*2' ' f $!'=%K '._%')6.'=-1=1.*0',1'-*>152.*' 6=),1-'2' ,)*' 62> *2,' 5 =,62'26?*' % 'M 1(--1X'8)>)' '/,*-6// ',-62.>-D*0' .'8-,,*2' 2',)*') *-15/ =)>.') ' =-1D6D/' ' =-121;2>*0') 'M -;5 >)' ? f D "!=%LLL+ ' 1%QRR'R X'8)*2>*' 1=,>')U%A ' -6D%) !' ()*' .?/6-,'1'26?*' .'.1'5-**,'),6,',6/12*'?5),.6,.';.'D;,',)*'>1--*.=120*2>*' 1' ;(--1-'6.' ',6' ---, ',1'7I ' ;2/*..'` -* *-',1',)*') /.,2*'>16.,'.**?.'>12>/;.+*% &1' ?;.,'21,'.;==1.*')18*+*-',)6,' 6=),1-'86.' 1=,1.a' ,'?;.,'-6,)*-'D*'>1?=6-*0',1',)*' 1=, ,*'21?*'=-1D^ 6D/' 2'=-?, +*'65*.'1'5-*6,*-'*L,*2,',)62' ;20*-'),)*' ,1/*?*.' 1-',)1'2;?D*-'1'21?*.'86.2',)*' >1;-.*' 1',?*' 5-*6,/' 2>-*6.*0% ()*' 6=),1- ?' .,620'/6.,' 2',)*'/.,'1',)1'<[-6,*'=*1=/*.' 2'4*2% 620')-12%'=-1D6D/'6.'08*//*-.' 2',==*-' 5 =,',)*' 26?*.'2*L,'D*1-*',)*?'D*25'1' 5 =,62'620',)*' %*6-/*.,'26?*.'1'D 62'=*1=/*.%' **' > # / ! ()*' ?5-6,12'1',)*')/.,2*.' .'?*2,12*0'1-' 6//;0*0',1'2'6//,)*'=6..65*.'.=*69 25'1' 6=),1-'1-,)1' 6=),1- ?% ',);.'6==*6-.',1')6+*'D**2'62'*+*2,'1' 5-*6,'?=1-,62>*'620',).'.;==1.,12'-*>*+*.'.;==1-,' -1?',)*'.,6,*?*2,'2' ?1.% 2',)F'/.,'1'4*2%620')-12%'6.',)*','*L,'218'.,620.',)*')/.,2*.'6-*'.6 0' ,1')6+*'>1?*' 1-,)' -1?',)*' 6./;)?''`,)*' 6./;C) ?'8)*2>*'>6?*' 1-,)',)*%)/.,2*.'620',)*' 6=)^ ,1-?'''8)*-*',)*':*D% 1-D 0.';.',=' .;==1.*',)6,',)*)/.,2*.'620' 6=),1-?'D1,)'>6?*' -1?',)*' 6./;^)?% :*-*',)*-*'.**?.',1')6+*'D**2'6',-62.=1.,12' 1-',)*'1,)*-'=6..65*.'6-*'6.'*L=/>,'1-'?1-*'.1'620' =*-10'1',)*'?5-6,12'?;.,')6+*'D**2'+*-'-*?1,*

. 2>*' ,)*') / ., 2*.' 8*-*' 6/-*60 '*.,6D/ .)*0' 2' 6/*.C' , 2*77 2' D-6)6? .', ?*' M4*2%LL 'NK'N X% ()*' *+ ^ 0*2>*' 1 ',)*' AU =, 62' ?12; ?*2,. 'C8)>)' .' 20 -*>, ' ,*20.',1',)*' .6?*' >12>/; . 12 'D;,' ,69*.' ;.' *,' 6-,)*-' D6>9' 2', ?*% ,'/*60.' ;.',1' .;==1.*',)6,',)*') / .^ , 2*.' 620'9 20-*0' 26, 12.' 8*-*' >1526,*',1',)*' 5A7X' , 62.' D;,'.1'0 *-*2,' -1?',)*'?' 2' 7622*-.',)6,',)*' ? ;.,';)6+*' .*=6-6,*0'D* 1-*' ,)*' >)6-6>,*-' 620' 2.,,;^ , 12.' 1 ',)*' /6,,*-')60' 6,,6 2*0' ,)6,' 0*+*/1=?*2,' 2' 8)>)',)*E' >12, 2;*0',)-1;5)1;,',)*' =*- 10',1' 8)>)' ,)*-' ?12; ?*2,.' D*/125% &*' 20' -1?',)*' .>;/=^ ,;-.*.'1' 6?*.*.' '6,' <*0 2*,' D;',)6,',)*' 5 =^ , 62.' 6D1;,' K ' % %' 8*-*' 6,' 86-' 8,)',)*') / .^ , 2*.' ,)*' (19C96-;' 620',)*')6 -6,626' 1',)*' *6' 620',)6,'1,)*-')6A(6,626' .*-+*0',)*?' 6.' ?*>-*26^ - *.% ()*') / ., 2*.' 620' (19C96-;' 8*-*' =) . >6// ' >1526,*' 620')60',)*' .6?*0 ., 2>, +*'0-*..'',)*' (19C 96-;' 620')6 -6,626' 8*-*' 6/.1' =) . >6// ' >1526,*' 620' 1;5),',15*,)*-' 2',)*' .6?*' .) =.% ()*-*' .'-*6^ .12',1'D6'/*+*',)6,',)*' (19C96-;' 6-*',)*' 6- 62.' 620' ,)*')6 -6,626')6+*' D**2')*/0',1'D*',)*')*-*,) ?' 1',)*' D/*' 620',)*' *6-/ *-' -*,62.' 1',)*' 4-**9.' 2^)6D,25' -*,*' 620' =-1D6D/ C,)*' >16.',1' 6/*., 2*' 6/.1'I6 * %';2'.% +% 5 =,'=% SKX& //D*6-' 6' 5-*6,*-' -*.*?D/62>*',1',)*' 5 =, 62.',)62'01*.' 62' 1,)*-' 5-1;=' 1' 1-* 52' =*1=/*.' -*=-*.*2,*0' 2',)*' -' .>;/=,;-*.% ().' *+ 0*2>*' =1 2,.',)*-* 1-*',1',)*' .=-*60'1'6'.*6 6- 25'-6>*' >1526,*',1'7)*' 5 =, 62.'6,' 6'+*-'-*?1,*', ?*% ()*-' 1- 5 2'.'21,'6/12*'.=19*2' 1'2',)*'-*>1-0'1',)*' ? 5-6, 12'1',)*') / ., 2*.'D;,' 2',)*',-60, 12'1',)*')>.2>62.',)6,',)*'>6?*' "7?' ,)Y - ,)-6A62' *6'\.**' ;'620'8*' ?;.,'/119' 1-',)*'=-?6*+6/.*6,'1',)*' 8)1/*-6>*' 12',)*'>16..' 1'-6D 6'620' ->6'8)*-*' 6//62> *2,'6;,)1-,.*'/*60' ;.' ?6 2/',1'=/6>*',)*' ;.),.*' 620',)*' ,)1=62.% *>' ;.;% I'()*'0 *-*2>*'1',)*') / ., 2*.'-1?',)*' L =, 62.' 2'0-*..' 620'?622*-.' .'6.' 8*')6+*'.**2' *+0*2,'12',)*' 5 =, 62'?12; ?*2,.% -1?',)*' D/*' 8*'/*6-2',)6,',)*' -'/68.'620'-*/5 12'8*-*'/9*8 .*'0 ^ *-*2,'1'?',)1.*'1' 5 =,'620'8*'?6',)-*1-*'>12^ . 0*-'1;-'=-*+1;.' .;==1. ,12'6.',1',)*' , ?*'1',)*' .*=6-6, 12'1',)*'=*1=/*.',1'8)>)',)*'D*/125',1'D*' =1. ,+*/',-;*' 2',)*' -'=6-,>;/6-'>6.*' ,' .'=-1D6D/*' ,)6,',)*'/*.', 6=),1-'21,'/125'6,*-',)*' -.,'6-- +6/' 1',)*'<[-6,*',-D*.'8)/*',)*')60'21,' *,'6,,6 2*0' ,)6,'6,,6>)?*2,',1',)*'.1/,)6,'6,*-86-0'.1'*? 2*2,/' >)6-6>,*-[*0',)*'0*.>*2062,.' ,)1.*'8)>)'1-?*0' ,)*' 5A=, 62'26, 12% ()*'81-0.'1',)*'=-1=)*,' ?1.' M L' X.**?',1' 20>6,*'6'0*/+*-62>*'1',)*') / ., 2*.' -1?'D12065*% ()*'?*2, 12'1',)*' ,) 1= 62.',)*-*' .'81-,)'1'21,*d ,)*'6-*'=*-)6=.'.=19*2'1'6.'6'0*^ 5-60*0'=*1=/*%I' ()*' 2,*2, 12'6==*6-.',1'D*',1'.)18' ,)6,'.-6*/'86.'21,',)*'12/'26, 12'8)>)'))60'D**2' =-1+ 0*2, 6// '/*0' -1?'12*'>1;2,-',1'621,)*-'8)*-*' ,'?5),'.*,/*'620',)*' 2,*-=1. , 12'81;/0'.**?',1' ?=/'1==*-.. 12'=-*>*0 25',)*'?5-6, 12%' ,'?6'D*' -*?6-9*0',)6,'<62*,)1'.=*69.'1'6'-*+1/,'620'-*,:-2' ,1'6//*5 62>*'1',)*' D 62.'=-1D6D/',)*' *)6D?' 1-' ;D?' -1?'8)1.*'26?*' D 6'*,>%' >*-,6 2/' >6?*'2',)*'-*52'1',)*' -.,'9 25'1',)*',)-0'0 26.^ , ' *>)*-1=)*.' ' *>)*-1>).'2',)*'*6-/*.',65*'1' 5 =, 62')..1-' % %'>-%KS 'M 1-A'& '@ !'KO' *0%=% XJ'M ?,)'' !'.%+%X% **'+' !

6=),1- ?'M:*)%) %+ (1' !'=*2%'L ' *=,% -67 15McV$' ;/5% %" :' *;,% 'KN' 6((071A> 7' %% 1' % ' 6=),1-?.',)-12% 'K'd271=, ,V ,%+%-% 671= *V[' %" " 1' ' 6=),)1-?JX I,)*' 2)6D ,62,.'1' / ' 'M_%+%X%

7' 6= .,-62; .'(' '>? ' ' % 81' 6' -62> .>62'86.'D1?'6,' 6= .,-621' 2',)*' D-;[[' B;2*'KN NQ % 1/ ,>6/,-1;D/*.'0;-25'8)>)')1'C86.' ?=- .12*0'/*0')?',1'_;',)*'81-/0'620',1'6..;?*',)*' -62> .>62')6D,% :*'/*0'6'/ *'1'*L,-*?*'6;.,*-,' ./**=25'12/',)-*)1;-.'6'06 '620'*6, 25'D;,'12>*' 06/ '8,)1;,',1;>)25'/*.)'1-',) -, C.L'*6-.% :*' 86.'?60*' 2_;.,1-'6,' 1?*'*.=*> 6// '656 2.',)*

-6,->*/$'M_%+%X' 620' 6+*' .,6,*.',)6,')*60 25',)*' 6-?'1'-;_.60*-.'6.',)*'8*-*'>6//*0')*'*20*6+1-*0' ,1'-11,'1;',)*-*.'D' -*' 620' .81-0'620'6>,;6//' D;-2*0',1',)*'5-1;20'*5), C.L'+//65*.'1',)1'-6,-C' >*//'2' 6?=62 6%J' 1=*' ;5*2;.' .*2,')?'2' NR'6.'2;2>1',1' >/ '620'*?=/1 *0') ?'6,',)*' 1;2>/1'/1-*2>*' 2'.**9 25',1'*' *>,6';2 12'D*^ ,8**2',)*'4-**9'620' 6, 2');->)*.% 2' N >)^ 1/6.' ' #=,')?'12'6'>-;.60*' 2,1' 1)*?6'620':;2^ 56-'656 2.,)*':;.. ,*.% ,*-',)'.')*'., --*0';='6' >-;.60*'656 2.',)*'(;-9.'620'2' S';,,25')?^ .*/'6,',)*')*60'1' '?*2'-6.*0'1-',)*'-*/*'1' */5-60*',)*2'D*. *5*0'D'<1)6??*0' ')*'>6-- *0' ,)*'.,6206-0'2',)*'+*-'1-*?1.,'1',)*' 5),'620'1D^ ,6 2*0'6'>1?=/*,*'+>,1- % : *'0 *0' >,% KN' SS'6,' //6>)'2' 6-2,)6% /*L620*-' 'D*6, *0'/?' 2' SR'620')*'86.'>6212 [*0'D' *2*0>,'d ' 2' K % ?125') .'81-9.'6-*d IR!8' '% % ' ' 2 1' !'6 1' '656 2.,')*' 6,)*-.'1' 6./*' M *2>*' Q ',1XT' 620'2',)*' - 'D 'M D 0% Q ',1?%L =,%' '=%NKXa 'MK%X $% ' % ' MN%X $% ' S'SA1b!8' ' ' '% ' 'M6,//,)-**' 2',)*' - !'D !8a 'MS%X' '6 ' .' & */,*') + = + ' 'NK %

6=,6, 12'1-'+ 4 .' '"'D !' <1.*.' 1-06 2*0'M L10% LLL' NX',)6,'*+*- % .-6*/,*' .)1;/0' =6 ')6/'6',)*9*/ "' ' 1-'=*-.12'6.'6'-*0*?=^ ,12' ,)6,',)*-*' ?5),'D1'21'=/65;*'6?125',)*'=*1^ =/*'8)*2',)*'8*-*'2;?D*-*0%J' <62A!'2,*-=-*,*-.' 6-*'1'1=2 12',)6,',) .'=6 ?*2,'86.'0*. 52*0',1',69*' =/6>*'6.'1,*2'6.',)*'=*1=/*'P8*-*'2;?D*-*0T'620',)6,' ,) .'=6 ?*2,'1',)*')6/'.)*9*/=*-'D*6-/D* 25'*+60*0' 8)*2' 6+ 0'2;?D*-*0') .',;DA*>,.'410';2.)*0',/1' 2*5/*>,'8,)'6'=*.,/*2>*'MK' 6?%LL+'X' ;,',.' ?1-*'5*2*-6// ',)1;5),',)6,'<1.*.'/6 0',) .',6L'12'6//' ,)*'=*1=/*'=6 6D/*'A*6-/ '1-',)*'?6 2,*262>*'1',)*' ,6D*-76>/*'1-',)*'.6>-*.'8110'1/'8 2*' /1;-')6D,.'620'.;D..,*2>*'1',)*'=-*.,'620' *+,*.' 2' 1;-' 6+1;-.',?*',)1',-D;,*'86.'=;2>,;6// '=6 0% ** ' ! ()*' .-6*/,*.'8)*2'-*,;-2*0' -1?' 6D /12'=6 0'12*',)-0'=6-,'1'6'.)*9*/,1',/*'(*?=/*' D* 25'0 .6D/*0'=-1D6D/ '6,',)6,',?*'D'=1+*-, '-1?' 01 25'?1-*'M *)*?%L'NK%' ()*'-6DD 2.'1/P.*-+*',)6,' ,)*'B*8.' 2'5*2*-6/'620'*+*2',)1'=-*.,.'*L>*=,'81?^ *2')/0-*2';20*-',)-,*6-W1'65*'620'./6+*.' 8*-*'/6D/*',1'=6 ',)1')6/'.)*9*/% ()*'>1//*>,1-.'0*^ ?620*0',' 2',)*'D*5 22 25'1' .62'D;,';.*0'21'>1?^ =;/.12',//',)*' 6..1+*-'8)*2',)*'*',)*-'>1,..-6 2*0' .'=6 ?*2,'D-',119' .*>;-,' 1-' ,% ,*-',)*' 0*^ .,-;>,12'1',)*'(*?=/*',)1'8*.'8*-*'>1?=*//*0',1' =6 ',)*')6/'.)*9*/,1',)*',*?=/*'1'8;=,*-' 6=,1$C 2;.%' 6/?*,% **' !

6=,1 &6 4 ' '62'*?2*2,'>160^ A;,1-'1' >1/6?=60;.'620' ;>>-'2',)*' *1-?6,12' 86.'D1?'6,':65;*26;*2' Q'.,;0*0'?*0>=>'620' 6,*-86-0',)*1/15 '620'D*>6?*'=6-.)'=-*.,'6,' -*D;-5' S% :.' 6,)*-.'26?*'86.' 1= .,*2'620',)*'86.' 6'D/6>9.?,)'8)*2>*',)*'26?*' 6D->;.% 1-'6'8)/*')*'86.'/*>,;-*-' 2',)*'$2+*-.,'1' -*D;-5'620'2' K')*'D*>6?*'=6-.)'=-*.,'6,' -;>).6/'8)*-*')*' .,;0*0' :*/P-*8'8,)'6'>12+*-,*0'B*8'?60*',)*'6>C _6 2,62>1'1' >1/6?=60;.'620'86.'/*0',1',)*'.,;0' 1' ;,)*-.'&(,25.% 6//*0',1',)1'>6,)*0-6/6,' 6^ ./*')*',)*-*'D7M7?>'2, ?6,*'8,)' .)6?;.'620' 2').'/*>,;-*-.',1',)*'.,;0*2,.'12' 1?62.')*'.)18*0'-*^ 1-?6,1-',*20*2>*.% 2' K')*'D*>6?*')6=/6 2',1' 0* *20*0'5*2,/ '656 2.,'12*'1' ;,)*-.';6,,6>9.'1;' 6>>1;2,'1',)*',-6 >' 2' 20;/5*2>*.% ;,)*-'MB62% ' KK.)6-=/'-*D;9*0' 6=,1'6.'6',?*C.*-+*-% .;25' 620'=*-)6=.'>12+>,*0' 6=,1'6D62012*0'<6*2>*' M KNX'620',119';='6'=-*D*20',)*-*'8)0' *1'd')60

' ; 1' 'N" ' '$ '5 'M *062' S S' Q+SX' # '6 ' '4 4 'M *062' SKK' ,1X% ,*-') .'0*6,)'6==*6-*0') .', (' '7!' -!') % '& !' '&% %!'% ' ' ' %% 'M ?..,% S ' ,1Xa ' ," ' ' 'N !' - 'M2' % 6==*/.' 1' ?..% SQR' 1/%X% '/..'1 ') .' 81-9.' .'7 +*2' D ' >*-12' LL ' % ' ': 1* *-' 7 !' ; !' ? 1' + 'S 7' : 665' '@ ' 1'.% +% 7

6==*/': // $ 3' 1; .' 1;25*-'D-1,)*-'1' ,)*' 1-*51 25' 86.' D1?' 2*6-' *062' >,1D*-' Q % 2' S R' ,)*' >);->)' 2' 1-0*6;L'=-1+ 0*0' ;20.' 1-') ?' 620')*' .=*2,' 1;-' *6-.' 2',-6+*/' 620'.,;0 ' 2' 25/620' */5 ; ?' 620'4*-?62 % 2' S N)*'D*>6?*' =-1 *..1-'1' : *D-*8'620'2' SNN M8 ,)' ? -6/0;.'620' /6>.*;.X 86.`=-1 *..1-' 1'0 + 2 , '6,' 6; ?;-% : *' 86.' 6'=1;.')- ., 62'6' ?1.,'/*6-2*0',)*1/15 62'620 I' 6',)1-1;5)' -1,*.,62,' 2'6', ?*' 1'5-*6,' ,- 6/% *^ .0*.') .',)*1/15 >6/ 620' *L*5*, >6/ 8-, 25.')*' ; >) * / ' ?*?1-6D/*' 1-') .' >12,-1+*-. '8 ,)' ;L,1- ' >12>*-2 25',)*'62, _; , '1',)*'+18*/=1 2,.% : .'+ *8' 86.' =;D/ .)*0' 2') .' & ' % ' M SKN' -*=- 2,*0' 2',)*' 6==*20 L',1') .' ' '7 ' N 61' ?.,% SQR X% ,' 86.',),6,',)*.*' =1 2,.' 8*-*' 2+*2,*0' D ',)*' B*8.'1' (D*- 6.' .1?*' . L') ;20-*0' *6-.' .;D.*_;*2,7',1',)*' 0*6,)' 1')- .,' 8)*-*6.' ;L,1-/')*/0',)*?',1' D*' >1*+6/ 8 ,)' ,)*' /625;65*% ()*' 1= 2 12' 1' 6==*//;.')6.' . 2>*' D**2' 5*2*-6// '-*^ >* +*0% : .'5-*6,*.,'81-9' 86.',)*' '$ '>12^ ,6 2 25' 6?125' ?62 '1,)*-'/*6-2*0' 620' +6/;6D/ '%O .^ .*-,6, 12.'6' >1//*>, 12' 1'+6- 1;.' -*60 25.' 620' *--1-.' 8)>)')60'>-*=,' 2,1',)*',*L,'1',)*' D/*% : *' 86.' 1>>;=*0',) -, C. L' *6-.' ;=12',) .' 81-A>'8)>)',)*' -1,*.,62,.' .1' ?;>)' 0 ./ 9*0',)6,',)*' ') 20*-*0',)*' ?=-*.. 12.'1','620' ,'86.'21,'5 +*2',1',)*'=;D/ >';2^ , /' S '8)*2' B1)2')' .' .12'8)1'A1 2*0',)*' >1?;^ 2 12' 1',)*');->)' 1' 1?*' 1D,6 2*0' /*6+*' 1',)*' 9 25',1'=- 2,' ,% ;L,1- 'M,)*' .12X>-,>.*0',.)6-=^ / '620'6/.1'D ,,*-/'6,,6>9*0' 6==*//;.' 1-') .',)*1- ' 1',)*'+18*/=1 2,.' 2') .' - ' ,(('*,>% M 6.*/' S QT' NO' =6-,' S ' ,1X% 6==*//;.' -*=/ *0' 2'6'D ' 'M=- 2,*0' 2' /6,*-'*0 , 12.'1' ,)*' 8!' : *' 6-,)*-'=;D/.)*0'12',)*',*L,' 1',)*' % (%' ' ' ' '& 4 '6" ' = 'M ?..% S K?1X' 2'-*=/ ',1' ;L,1- % '2*8' *0 , 12'1',)*' '$!'6==*6-*0'6,': 6//*' M CQSX' 2' N'+1/.'Q+1% 2' S ')*' + . ,*0' L 1-0% : *' 0 *0'6, 6;?;-'B;2*' S S Q% ?125') .'1,)*-'81-9.'6->' # '&% ' 'M4*2*+6' SN ' ,1' 620' 2',)*' 12012'*0 , 12'1',)*' '$ ' SS Xa ' $* = % ' '6'>1//*>, 12' 1'>- , > .?.' 12' ,)*' *8' (*.,6?*2,'M4*2*+6' SNK ,1Xa ' ' ' ' % ' ' ' ' 5 ' ' 'D !' 2 '&' 1' ' '# '6% % '6% '&% !'M 6/?% S ' ,1Xa ' ' ' 7 ' ' N !' - !' M ?..% SQR' 1/%X% ';//'/..' 5 +*2' D ' : 665' ' @ ' ' ' .' 2' >*-12'+1/% LL 'T 620' 6/.1' 2',)*' *0 , 12'D ') .' .12' 1') .' ' '7 ' ' N!' -!' M ?..% SQR' 1/%X' 8) >)' 6/.1' 5 +*.' D ^ 15-6=) >6/ .9*,>)*.' ; 20*-' ,)*' ,/*' ' ' %% ' ? '1',)*' 0 .,25; .)*0'?*?D*-.'1',)*' 6==*/' 6?^ / % : .' 1--*.=120*2>*' 8 ,)' $.)*-' .' 5 +*2' 2' 6-- .' 1//*>, 12' 1'$.)*-.' *,,*-.% : *' 6/.1' 8-1,*' + " '$ ' M S ' ,1X' -*=- 2,*0' 6?125',)*' =*' =-1/*51?*26' & 6/,12.' 1/ 5/1,% ' ' /1* *-' 7 ! ; !' ? '+L ' T ' :*-[15'5 =6 + % (' ' SS%

6=,6 2' .',)*' -*20*- 25' 2',)*7;,)% *-.%' 1' J2;?*-1;.' : *D% 620'.*+*-6/' 4-**9' 81-0.' 1' 8)>)',)*' 1//18 25' 12/ ' -*_; -*' .=*> 6/ */;> 06, 12% 1-' ,)*' 3 N' " (' -*20*-*0' ``>6=,6 2. J' K' 25.' L ' ' R' .**' ' ' !

M %X' .'6'=;-*/ '? / ,6- ', /* '>6=,6 2'62.8*-.',1' 7' ' =',)*' : *D-*8'6-? '620' I 1' 2 ,)*' 1?62% **' #! ()*' '>6=,6 2'1',)*'5;6-0J I % -LH (1 8 8 .=19*2' 1' 2' >,.' LL+ ' S' 86.' ,)*' -A*,1-62'% !' ! **' ' #'=% N K'D% MK%X' !=K" ' 8)>)' .' 1>>6. 126// ' -*20*-*0 % '6==/*.'.1?*, ?*.',1'6'?/,6- 'MB1.)'L'K T' B;05% L 'S T' .6% LL 'NT' 62% L' QX'.1?*, ?*.',1'6'>+/>1?620'M*% 5% .6% ' T' SXa' ,.'-60>6/.*2.*' .' '620')*2>*' '8,)1;,'-* *-*2>*' ,1',)*'?*62.'*?=/1 *0a',)*',*-?' //;.,-6,*.',)*'01;D/*' 1 >*'1',)*' " %" ('1-' 'M 7;05*J X% **' ($! MN%X' " 2 "(M L10% TL+7' T' L+' T' K 6?% LL 'QT' 25.' L'KKT' K' 25.' L'K T' L'K T' L+' K T')-12'L' T' L' QT' K')-12% + 'RT' /1-0 J K' 25.' + 'K' 'RT' [*9% LL 'KNT' =-2>* J' [*9% LL ' X' =-1=' 6' " '?62' % >% 12*' 1',)-**' 4-% - -4 '6') 5)*-'1-0*-'1'.1/0 *-.' 8)1' 1;5),' -1?')>)6-1,.' " = 'M L10'L+' 7 L+' T ' 25.' L' KKT' ']- % $ ' :1-2% ' LL 'NKT' ;-=% $ %% T' S RXT' *?=/1 *0' 6/.1' 1-',)*' D10 C5;6-0'1'9 25.' M ' 25.' L'KKT' K' 25.' L'K T ')-12% L ' T' L ' QX% ()*' *=,')6.'-% ' % *% 6>>1-0 25',1' -5*2' 620' 4-*51-'1' ..6' M 2',)*' 8' .1/0 *-.'/5), 25' -1?')>)6-1,.J' 620' .1' >6//*0' D*>6;.*' *6>)' >)6-1,' >12,6 2*0' " ' .1/0 *-.' 12*' 1'8)1?'?6265*0',)*')1-.*.'8)/*',)*'1,)*',81' 1;5),'M>1?=% 86/0'?" "!' ! 'Q X% 1-'6/,)1;5)' 12',)*' 5 =, 62' ?12;?*2,.' ;.;6// 'D;' 12*' 1-' 6,' ?1.,'81'6==*6-' 2',)*' 86-C>)6-1,. ' *,'1>>6. 126// ' 6.'>*-,6 2/ ' 2',)*' .. - 62' D6.C-*/*. ' 2' 600, 12',1' ,)*' 0- +*-'620',)*' 86-=- 1-'62' 6-?1-CD*6-*-'1-';?D-*/^ /6CD*6-*-' .' 0*=>,*0' 6.' .,620 25' 2',)*' >)6-1,' 8)1' ' ? 5),'=-0=*-/ 'D*',*-?*0' 1-' 6' " ' !' **' ' f ',' ,-;*',)*' :*D-*'8'6-? '0 0' 21,' 1-5 26// ' >12. ,'1'>6+6/-' 6/,)1;5)' >)6-1,.' 8*-*' 2' ;.*' 6?125',)*' 62662,*.'620',)*' -.,'1>>;--*2>*.' 1',)*',*V?' 6-*' 2' >122*>, 12' 8,)',)*' 5 =^ ,62.'1');,'6,'6'/6,*-'06,*' 6')6-1,C._;60-12' 86.' 1-^ 562 [*0'M' 25.' d' KST' >1?=' L'RT' +' ST' K 6?% + ' X% 12.*_;*2,/' ',' .' 21,' .,-625*',)6,'6?125' ,)*' //6,,6/12.'1' 6+ 0'620' 1/1?12' MK' 6?% LL 'QX' ,)*-*'.)1;/0'D*' 26?*0'6.'6'=-1? 2*2,'D*-1',)*'/*60*-' 1',)*.*' " ' '1-',-6,)*- >1?=% 4*.*2;.' " E!' =% K T' 1,,>)>-'$% ' =' NQ._% 86/0'? !' " !',)*0% g' K'>% '6P' 1/1?12.' >)6-1,C?>2' ?*2,12*0' M 25.' L'KKT' K')-12% + 'RX'6.'2*L,',1',)*'=-6A *>,.' 1') .' >)6-1,C 1->*' M NNI ' ,*-',)*',?*.'1 1/1?12',)*-*'>*-,6 2/ '8*-*')6-1,C>1?D6,62,.' I =' 8' 6.' -1 6/' 1 >*-.' 2',)*' 21-,)*-2' 9 2501?'A?0' 2',)*' -* 52' I 'B*);'-;22*-.' 620')6-1,**-. 1-?*0' 6.' ,' 8*-*',)*' 9 25.' -6% I,1-62' >1)1-,' MK' 25.' L'K XT' 620',)*') * '1',)*.*' -6*,1^ -62.' M>6//*0' D ' *? 2*2>*' 1-' D62',D8X 86.'6?125',)*'?1.,'21D/*'1',)*' -*56/6,,*2062,.' M % /% 60A;,6 /,C5*2*-6/X% >>1-0 25/ 'B1-6?') 60' 62' 1^ >*-'1',) .',/*' 12' 8)1.*')620',)*' 9 25' /*62*0J' MK' 25.' + 'K RXT' B*);.')6-1,**-' 86.' 096-' MK' 25.' L'KSXT' 620' *96)')*0',) .' *? 2*2,'1 >*' ;20*-' *96) 6)' MK' 25.' L+' K X% ,)*-.')18*+*-' M6,*-' -;. ;.X')1/0',)6,',)*' 86.' ?*-*/',)* ,)-0'1 >*-' 2' -629' 6,.*-',)*' 9 25' 1-' >1?620*0' 6' ,) -0'=6-,'1',)*' 6-? 'M>1?=',)*' 1?62' 8' 1' ,)*' 4-**9' 5/1..6- .,.' M6=% -;. ;.' '6/ "!' 620' 2' @ 'N ' % !'?!'=% T' >)/*;.2*-'7 '-+ =' !' .% -% ** T' ;-*.2*' ? '.' + % T' .** 1.*2?;//*-'$ " '60' L10% L+' X% *>' ' ' < '0' !

M %X' ()*' >6=,6 2' 1',)*' (*?=/*J' I % * ' è 2% W ?*2, 12*0' D ' ;9*' M >,.' +' T' +' K X' 2' >12^ 2*>, 12' 8,)',)*-*.,.'86.'21,'6'?/,6-'1 >*-')';.;=*- 2,*20*0',)*'5;6-0'1'=-*.,.'620' *+,*.'8)1' 9*=,'86,>)'D'2 5),'2',)*'(*?=/*% ()*'>6=,6 2.J' ?*2, 12*0' ;9*' LL 7' '8*-*'=-1D6D/')..';D6/,*-2.%

()*'1 >*'6==*6-.',1')6+*'*L .,*0' -1?'62'*6-/ '06,*' ,)*' =- *.,.' ,)6,'9*=,',)*'011-J'MK' 25.'L 'RT' LL+' QX' 6-*' 0*.>- D*0' D ' B1.*=);.' >& !' L ' Q ' X' 6.' ,)*' 1 >*-.' 5;6-0 25',)*' (*?=/*J' 'I% O - - ' ')%H3 % 8d' 6'21, >*'1>>;-.' 2' K' <6>>' ' '1 '6' =-6A *>,'1 ',)*' (*?=/*' I- % --* ' ',>=1=XT' ,) .'1 ^ >*-' .' ., /*0' -% * '1-'>6=,6 2') 'B1.*=);.'>& !' dd' S' KT' '+ ' 'NXT' 620' 2',)*' < .)26'> "' 'gKX' -1 2' ',)*'>6=,6 2'1',)*'?1;2,6 2'1 ,)*' (*?=/*TJ') .'0;,E '6.'0*.>- D*0' 2',)*'=/6>*'/6.,' _;1,*0'86.',1' + . ',)*'=1.,.' 0;- 25',)*' 2 5),'620' .'*' ,)6,',)*' .*2,- *.' 8*-*' 01 25',)*' -'0;, 'M>1?=%' ')-12% L' T' K')-12% LLL ' NT' LLL+' Q',XT' B*-% dd' X% **' 0 / !

()*'-629'1-'=18*-'1'62' .-6*/ , .)'>6=,6 2'86.'0*.^ 526,*0'D ',)*'2;?D*-'1 '?*2';20*-') .'>1?620'6.' >6=,6 2'1 ' ,E7'1-'>6=,6 2'1'6',)1;.620'\>1?=% 4Z $;'T' 620',)*'>1?620*-'1-'>)*'1',)*'8)1/*' 6-? '86.'>6//*0',)*'>6=,6 2'1',)*')1.,'M_%'+%X% ()*' 0 + . 12.'1',)*'6-= '8*-*'-*5;/6,*0' 2'.1?*'?*6.;-* D ',)*'0 + . 12'1' 6? / *.' 6.',)*')*60.'1' 6? / *.' 8*-*';.;6// '1 >*-.% 6=,6 2.'1C);20-*0.'1-'/6-5*-' >1?=62 *.' 8*-*' =-1D6D/ ' 8)6,' 81;/0' D*' >6//*0' 2' ?10*-2'=)-6.*' .,6 C1 >*-.'620' 1-?*0',)*'>1;2>/.' 1'86-% **' " ! 1?*, ?*.' 0 ., 25; .)*0' ?*2' 8)1'8*-*'21,': *D-*8.'8*-*'=-1?1,*0',1') 5)'.,6, 12.' 2',)*'6-?EC M *;,% ' T' ')-12% L$ ' T' K')-12' LL+' T' K' 6?% LL 'NRX% **' < ! D %410'.'>6//*0' % 'M -2>*JX' '"'#' 'M7D' 62% + ' X'21,'6.'*_; +6/*2,',1' 1-0'1' :1.,. J' D;'D*>6;.*')*' .',)*')*60'620'=-1,*>,1-'1').'=*1=/*% 1' 2',)*' '(% 1;-' 1-0'.'>6//*0' 6=,6 2' 1')'.'=*1=/*.' .6/+6, 12'I % f '-*'I8-G% ' A' -' :*D% ' X'D*>6;.*')*'.',)*'D*5 22*-'.1;->*' 620'6;,)1-'1',)*-'.6/+6, 12',)*')*60'1')');->)' 8)>)')*'>120;>,.'8 ,)'620'2')?.*/ ',1'D/*..*02*..' M>1?=%B1.)% ' X% **'(' '! 6=, +*'M=-1=*-/ ' " (:' 4-% 89 *9:#+#;' .'0.,25; .)*0' -1?'6'=V .12*-'M_%+%X'1-'12*' 2'D120^ 65*'M_%+%X% **' (77(% 6-1;.' 20 52 , *.'620

6=, +*.' 8 ,)' -1=*.'12',)* -')*60.%J' -1?',)*' 5 =, 62'<12;?*2, .%

>-;*/, *.'8*-*' 20 >,*0'12',)1.*'8)1')60' ,)*' ? . 1-.,;2*' ,1' D*' ,_A>*2' >6=, +*' 2' 86-% ()1.*'8)1'.;--*20*-*0'8*-*'/*0' 1;','8 ,)')6/,*-.'6.' ' 1-'*L*>;, 12'M' 25.' dd' NKX' **' 8 ' $.! 2' .1?*'1>>6. 12.'=6-, >;/6-'0 .,- >,.'8*-*' ?6-9*0'1;','8 ,)'6'/2*' 1-'0*.,-;>, 12' MK' 6-6'+ 'KX% ()*'+ >,1-.'.*',)* -' **,';=12',)*'2*>9.'M_%+%X'1',)*'>6=^ ,;-*0'9 25.'620'21D/*.'MB1.)'L'K X' 1-' ?;, /6,*0',)* -'=*-.12.'D ';;, 25' 1 ',)* -',);?D.',1*.'1-'*6-.'MB;05% ' T' K' 6?% +' KT' [*9% La7 'K XT' 620' .1?*, ?*.',)* '=;'1;',)* -'* *.'M_% %X' D '=6.. 25' 6' -*0C)1,' -12' 1+*-' ,)*?'1-'/,*-6// '.>11=*0'1-'0;5',)*?' 1;'1',)* -'.1>9*,.'MK' 25.'LL+' T' .6% L' X% ()*.*'>-;*/, *.' 6-*'., //' =-6>, .*0';20*-'.1?*' 1',)*' 0*.=1, >' 51+*-2?*2,.'1',)*' .,*-2'>1;2,- *.% **'+$ ' ! ,'86.',)*'D6-D6^ -1;.'>;.,1?'1',)*'>12_;*-1-.'1',)1.*' , ?*.',1' .;.=*20',)* -';2)6== '>6=C 2> *2,' .. - 62.' /6 25' 6=, +*.'6/ +*%

, +*.' D ',)*')620'M 6?%+ ' KX' 620'6/.1',1' ?69*',)*?')18' 0182',)6,',)* ' ? 5),' 51' 1+*-',)*?'M .6%/ ' KNX' .1?*, ?*.',)* ' 8*-*',)-182'6?125',)1-2. ' 8*-*' .682' 6.;20*-' D*6,*2',1'= *>*.' 8 ,)',)-*.) 25' 2.,-;?*2,.' 1-') 60' ?=1.*0';=12',)*?',)*' .*+*-*..',620'?1..',/6D1P - 1;.' 1>>;=6, 12.' MB;05% + ' T K' 6?% L ' N T ')-12% LL ' NX% ()*' .1/0 *-.' 8)1' 8*-*',69*2' 8*-*' 0*C =- +*71 '6//',)* -' =-1=*-,A' 620'.1/0' 269*0' 2,1' .*-+ ^ ,;0*% &)*2',)*' > , ' 86.' ,69*2' D ' 6..6;/,' 6// ',)*' ?*2' &*-*' ./6 2T ,)*' 81?*2'620'>) /0-*2' 8*-*' >6-- *0' 686 ' >6=, +*' 620' .1/0' 6,' 6' +*- ' /18' =- >*' M .6% LL ' b!.' L/+ ' NT K')-12% LL+ ' RC T .6% L/ + ' KT < >% ' T B1*/ ' NX% *' ! 1?*, ?*.',)*

! (76()%01'0,'('7($)6 3*' %)9' 0=')53' ##9 %(1' : 016=31)#

>12_;*-1-' .,- ==*0',)*' 8-*,>)*0' =- .12*-.' 269*0' .)6+*0',)*-')*60.' 620' ?60*',)*?',-6+*/' 2',)6,'>12^ 0, 12' *L=1.*0',1',)*' D*6,' 1 '6' +*-, >6/.;2'D ' >%6 ' 620',)*') // 25' >1/0' 1 ',)*' 2 5),% 1-' 8*-*' 81?*2' *L*?=,*0' -1?',) .',-*6,?*2,'M .6% ' X% (1',)*?' ,) .' 86.',)*)*5),' 1 ' 20 7 , ' 6.' 8*// 6.' 1 '>-;*/, ' *.=*> 6// ',1',)1.*' 0*.>- D*0'D ',)*'=-1=)*,..' 8)1')60' 20;/5*0',)*?.*/+*.' 2' 6//?622*-' 1 '0*/ >6> *.' 1 '/ +^ 25 ' 620' 6//',)*' .;=*- /; , *.' 1 '1-26?*2,6/0-*..' 620' *+*2'8)1.*' 6>*.')60')6-0/ '*+*-' D**2' *L=1.*0',1',)*' . 5),' 1 '?*2% & 1?*2'620')/0-*2'8*-*'6/.1'*L=1.*0' ,1',-*6,?*2,'6,'8) >)')?62 , '.)?00*-.'M 6)% ' ST U*>)% L +' KT ..,)% ' NT K' 25.'+ ' KT .6% >LLL+ IRT .6% L ' N QT K' 25.'L+' NT : 1.% L NT ?1.' ' NX% 1?*, ?*.',)*' =*1=/*' 8*-*' >6-- *0' 2,1' >6=, + , ' 620',-62.=/62,*0',1' 0 .,62,' >1;2,-*.T ,) .' 86.',)*' >6.*' 8 ,)',)*' B*8.' MB*-% LL ' T LLL L R T L/' T K' 25.'LL +' KC 4X%F 2'.1?*'>6.*.',)*' >12_;*-*0'26, 12.'8*-*'?*-*/ '?60*',-D;,6-'MK 6?% + ' ST K' 25.'L +' X% (1' D*',-D;,6- ')18*+*-' 86.' >12. 0*-*0'6'5-*6,' 521? 2 '620'86.'6'.1;->*' 1 ' -*=-16>)',1',)*' 01/ 0*, *.' 1 ',)*' >1;2,-*.' 8)1' 8*-*' ,);.' .;DA*>,*0'MK 25.'L L 'Q NX% ,'86.'/ 9*8 .*'6' >;.,1?' 6?125',)*')*6,)*2.',1'>6-- ' 2' ,- ;?=)',)*' ?65*.' 1 ',)I* 510.' 1 '.;>)' 26, 12.' 6.',)*' ')60' +62^ _;.)*0'M .6 K' L/+ ' KT B*-% L/+ ' T 62% L ' QT ?1.' ' X% ,// 6-,)*-',1'.)18',)*' -' 6D.1/;,*'.;'C =*- 1- ,E7',)*+>,1- 1;.' .1+*-* 52.';.*0',1'>)625*',)*' 26?*.' 1 ',)*' ?126->).' 8)1?',)*' .;D0;*0'MK 25.' LL+' T K)-12% ddd 'K 'KK' LLL+ ' T 62% ' X% ()*' >12_;*-1-.')18*+*-' 8*-*' 21,' 6/86 .' 0*.,.;,*' 1 ');?62, % 2' ?62 ' 2.,62>*.',)*' '=*-? ,,*0',)*' >12_;*-*0'9 25.',1'-*,6 2',)*-'6;,)1-,AI'12/ '-*_;-^ 25' -1?',)*?',)*'=-1? .*' 1 '5110' 6 ,)'620',)*'=6 ^

?*2,'1',- D;,*% ;,' 2' .;>)'6'>6.*',)*'9 25.'-*^ D*//*0',)*A' 8*-1',-*6,*0' 8,)',)*' 5-*6,*.,'.*+*-, ' M4*2'L +' 7 T K' 25.' LL 'Q T LL +' C T .6% LL +'KT B*-% LL 'S' SX% **' (-6;< :%

6=, + , 'M=-1=*-/ ' .1?*' 1-?'1',)*'-11,' " "(',1' + ' % T D;,' -*_;*2,/ '*L=-*..*0'D ' 1,)*-' : *D% 81-0.X% ()*' 1//18 25'6>>1;2,'.' >)*/ I' >1?= /*0' -1?',)*' 6-, >/*.' 2' ,,1' 620' ?,)' .% ()*' D12065*' M_% +%X' 1 ' .-6*/' 2' 5 =,' 620',)*-%.;DC A;56, 12'6,'0 _*-*2,', ?*.'D ',)*')/., 2*.'620'1,)*-' 26, 12.' \.**' ($;'6->' .1?*, ?*.' 2>/;0*0';20*-' ,)*' 6D1+*', ,/*T 620',)*' B*8.' ,)*?.*/+*.' =*-)6=.' 8 ,)'-* *-*2>*',1' 62 * .' + . 12' M>)% + X' *>912',)*-' 26, 126/' >6=, + , *.' 6.' 1;-' ',)*' 6D /1^ 2 62' <*0 62' 4-*> 62' 620' 1C ?62' M .*2?*25>-' 6 + ' D " ' ' QX% ;',)*=1=^ ;/6-' 0 ., 2>, 12' ;.;6// ' >12 /2*.' ,)*', *-?',1',)*' >12_;*.,' 620' 0 .=*-. 12' 1 ',)*' ,*2'21-,)*-2J' ,- D*.' D ',)*' .. - 62.',)*.;D^ .*_;*2,' 0*=1-,6, 12' 1 ',)*' -*^ ?6 2 25' ,81',- D*.J' D ' ,D1' 6D /12 62.'620',)*' 26/0 .-;=^ , 12' 1 ',)*' *2, -*' B*8 .)*=1/, ' D ',)*' 1?62.% *>' / ! ()*' 81-0' % 1' 6.' 6==/ *0',1',)*' =*1=/*' 1 ' .-6^ */')6.' D**2' 6==-1=-6,*0' >12,-6- ',1',)*' 626/15 ' 1 ' 1;-'/625;65*',1' ?*62' L=6,-6, 12% ()*' + 1/*2,'-*^ ?1+6/1',)*' *2, -*' =1=;/6, 12' 1 '6'>, ' 1-' .1?*, ?*.' *+*2' 1 '6' 0 .,-> ,' .' 21,' 62' ;2>1?7 12' *+*2,' 2' 62^ > *2,') .,1- % .' 6' ?*6.;-*' 1 '=1/> ' 21' 1DA*>, 12',1' ,' 12' ,)*' 5-1;20' 1 ');?62, ' 867' */,' D ' 62 ' 12*' . 2>*' 2' 6>,' ',' 86.' 6' +*- ' ? /0' =-1>**0 25' 2' >1?^ =6- .12' 8 ,)',)6,' 1 ' .*// 25' 6',- D*' 1-' 26, 12' 2,1' ./6^ +*- % +*- ' .;>)' 0*.,-;>, 12' 1 '26, 126/' L .,*2>*' *+*2' 2' ?10*-2', ?*., ' .' 6AB,',1' D*' *?D ,,*-*0' D ',)1' . ?;/,62*1;.'0 .-;=, 12' 1 '-*/ 5 1;.'D120.T D;,' 2',)1' 62> *2,' 81-/0',)*' =1. , +*' .62>, , '6,,- D;,*0',1' .=*^ >6/ =/6>*.' 620',)*' /1>6/ 6,,6>)?*2,'1' * , ' ?60*' *L=6,-6, 12' 01;D/ '.*+*-*% ()*' : *D-*8' =*Y=/*' 1-' 2.,62>*' 2' ?62 ' ?1.,' +,6/ =1 2,.' >1;/0' 21' /125*-' 1D* ',)*-' .6>-*0'/68' 6,' 6//' 8)*2' =*-.126// ' -*?1+*0' -1?'B*-;.6/*?T 620' 2' ?62 '1,)*-.',)*' 8*-*' 1->*0' ,1' ?10 ' ,'D '-*6.12'1',)*' -')>625*' 1 '> ->;?.,62^ >*.% (81' =- 2> =6/?1, +*.' ?=*//*0'>12_;*- 25'=18^ *-.',);.',1',-62.=1-,' 6?/*.' 2',)*' ?6..d -.',)1' 0*. -*' 1 ' -6= 0/ ' // 25' 8,)' 6' +6/;6D/*' =1=;/6, 12' 2*8';>,*.' D;/,' 1-' =- 0*' 1-' 1-' =1/> T 2*L,',)*' 0*^ ,*-? 26, 12',1'D-*69';=')1.,/*' 1-562 [6, 12.' 1 ' 062^ 5*-1;.' -*? 2A/**2>*.' 1 '=6.,' 5-*6,2*..% 1,)' ? 5),' .1?*, ?*.' D*' >1?D 2*0' 2',)*' <*26)*?'M ')-12% +' KS' 620' K' 25.' d ' RX' (5/6,)'C /*.*-' >6-- *0'686 ' % % > -% N7A' ,)*' .-62.CB1-062 1'D- D*.'M ')-12% +'KNX'620',)*' 2)6D^ ,62,.' 1 ' 46/ /**' MK' 25.' d 'KRT >1?=6-*' .6% L ' X

,1' .. - 6%)6/?62*.*-',8 >*' 2+60*0'MK' 2%aT.'L+ C N'SX',)*'9 2501?'8) >)'-*?6 2*0',1' : 1.D*6',119' 6^ ?6- 6' % % K '6 ,*-'6' . *5*' 1 ',)-**' *6-.'620'>6-^ - *0' .-6*/6866 ' 2,1' .. - 6% *>' % ' !' 2'62' 2.>- =, 12' 2,*-=-*,*0'D ' 68/2.12'ID$ 1' ' KX' ,)*'>6=,;-*'1' 6?6- 6' .'>/6 ?*0'D '9 25' 6-512'M .6% dd' X 6.') .' 182'6>) *+*?*2,% ()*'> , *.' 1 ' 6?6^ - 6' 8*-*' 1>>;= *0'D ' =*1=/*' .*2,' -1?' 6D /12' ;C ,)6) ' +6 ' : 6?6,) '620' *=)6-+6 ?T 620' : 6/6D ' : 6C' D1-' 6-6'620',)*' - +*-'1 '41[62'D*>6?*',)*' .*6,.' 1 ' ,)*'*L /*0' .-6*/,*.% 1 **'? ' ! ()*',)*1- ' 1 ',) .',)- ' .' ,)6,' 2' ,)*' , ?*' 1 ' ,)*.*'>12_;*- 25' ?126->).' .. - 6' 86.'-6= 0/ '- . 25' 2,1' =11-*-' 620',1' 655-620 [*' 2*+*)' 86.' =-1D6D/ ' 6' 5-*6,' 1DA*>,' 1 ' =1/ > % ,' .',)*-* 1-*' >-*0 D/*' 6.' (5/6,)C /*.*-')60'-*>* +*0'21'=6-, >;/6-'=-1+1>6, 12' -1?',)*' .-6*/,*.','),6,')1'>6-- *0'1 ',)1.*' ?6..*.'1 '7KX' D*/*+*0',)6,' 2') .'06 ',)* '08*/,' 2'/6-5*' ?;/, ^ =1=;/6, 12',21',.1>9') .');5*'>, '8,)% : .' .;>>*..^ 1-')6/?62*.*-'?60*',)*' .-6*/, .)'9 25' : 1.)*6',- DC ;,6-A% &)*2',)*',- D;,*' 86.'8,))*/0')*6,,6>9*0' 620'-*0;>*0' 6?6-6'620'D '86 '1 '=;2.)?*2,'620' 1 '=-*+*2, 12' ,-62.=1-,*0' 2,1' .. - 6'620 *0'6',.' 9 25' 620'6/' ,)*'?1.',+6/;6D/*' =1=;/6, 12' -*?6 2 25' ,1',)*',*2',- D*.'MK' 25.'L+ 'SX% ()6,')*'0 0' 21,' >62 '1 '6//',)*'=*6.62,.' .'=-1D6D/*' -1?',)*'26,;-*' 1 ',)*' >6.*T : 125.,*2D*-5 ')18*+*-' ?6 2,6 2.' ,)*' >12,-6- 'I1? ' '" ' "1' ' ._' 0 2D% ,-%X% ()*'6? /*.',);.'-*?1+*0'8*-*' 2'6'5-*6,'?*6.C 2-*'.*,,/*0' 2'+*- '0 .,62,'>, *.' ?62 '1 ',)*?'=-1D6^ D/ '21,' 6-' -1?',)*' 6.=62' *6'620',)*' -'=/6>*' 86.' .;==/*0'D '>1/12*.' -1?' 6D /12'620' ;. .'MK' 25.' L+ 'K X% **' # ! K% ' ' " ' & ' % ! ' ().' 86.' =-1D6D/ '21,' *..*2, 6// '0 *-*2,' 2' ,.' *L,*-26/'>-^ >;?.,62>*.' -1?',)6,'1 ',)*-' B;06 ,*' D-*,)-*2' .;D^ .*_;*2,/ '0;-25',)*'*L /*' 2' 6D /12% M **'D*/18%X & >'9218'21,) 25' *L>*=,'D ' 2 *-*2>*' -1?',)*'D119' 1 '(1D ,'M%+%X' 1',)*' -*/5 1;.' 1-' .1> 6/'.,6,*' 1',)*' .-6*/,.)'*L /*.' 2' .. - 6% 1;D,/*..',)*'>12..,62,' =1/>'1'.*+*2,**2' .;>>*.. +*' 9 25.')60'* *>,;6// ' *.,-625*0',)*'=*1=/*' -1?',)6,'-*/5 12'8)>)'>*2,-*0' 2',)*'(*?=/*'620')60'-*0;>*0',)*'2;?D*-'1'6,) ;/ ?*2'D* 8',)*' 8)1'8*-*'-*+*6/*0'1-',DN'>12.1^ /6, 12'1 /A6)% 1?*=-*.,.'6,'/*6.,' 8*-*'6?125' ,)*?'MK' 25.'L+ 'KDX C,)1;5)' ,' .'21,'>*-,6 2',)6,' ,)*.*'8*-*'1',)*',-D*'1' *+'M' 25.'L 'N X% ()*' =*1=/*')60'D**2'2;-,;T=0'1-'K ' *6-.'2'01/6,- ' 2' ,)*-'182'/620'8)*-*',)*'0*=6-,*0'21,'MK' 25.'L+ ' KKX' -1?',)*' .2.'1'B*-1D16?'21,8,)..620 25',)*' =-1L ?, '1',)*'(*?=/*'620',)*'.;>>*..12'1'2^ .=-*0'=-1=)*,.'MK' 25.'L+ ' NX'6?125',)*?% *^ =-+*0'1',)*.*')*>9.'12',)*-'26,;-6/7>/26, 12.'MK' 25.'L+ ' X',1?'-1?',)*-'26, +*'.1/'0*.,;,;* 1'6')*-*0 ,6-'9 25',)*'=-1D6D/'D*>6?*'?1-*'620' ?1-*'>/1.*/'6.. ?/6,*0',1',)*-')*6,)*2'2* 5)D1-.'2' <*0 6% 20' 8)*2'6 ,*-',)*'/6=.*' 1'?1-*',)62'6' >*2,;- ',)*' +*-*'A1 2*0'D ',)*' -.,'*L/*.' -1?'B*^ -;.6/*?'+*-' '*8% 6?/*.'=-1D6D/'-*,6 2*0'.; >*2,' 1'6==-*>6,W620' 1/' /18',)*' 2.,-;>, 12' 1' [*9*/% ;,' 8)*,)*-',)*' 8*-*' ?62' 1-' *8',)*-'5*2*6/15*.' 8*-*' =-1D6D/' /1.,'6' ;.12'1',)*-,' 8 ,)',)*'B*8.',119'=/6>*' .-6*/ >*6.2%' 1' 6-'8*-*',)*A' -1?',)*'>120,12'1'" ^ '8)>)',)*'81-0' '>6=,+*J .;55*..,X',)6,',)*' D119'1';.6226'-*=-*.*2,.',)*-'*/0*-.'2' 6D /12'6' -*,6 2 25',)*'=18*-'1'/*'620'0*6,)'1+*-',)*-'182' 3A/*1=/*'M 'KQX'8)*2' 62*/86.'6.' *,'6' 1;25' ?62% ()*'6;,)1-,'1',)6,'D119'>6221,'20**0'D*' =-*..*0'6.',1',)*')-121/15 ' *,',)*'21,>*.'5+*2'D' [*9*/ML+'T LL' X'>12>;-'2',)*'5*2*-6/'6>',),)6,' ,)* ', //B*/0'62' 2,*-26/'A;-.0>,12'1+*-',)*-'182 ?*?D*-.% ,'6'/6,*-', ?*'220*-',)*' */>;>0.*'8*')6+*'0 .,2>,'=-11',)6,'2',)*'=-2>=6/'>, *.',)*'B*8.' 8*-*'51+*-2*0'D '62'1 >*-'I ; % #18' ,)*-'182' 26, 12'6.'6/.1'2' 5 =,';20*-',)*' ,1/* *.% ()*' D119'1'(1D,'*L) D ,.' .-6*/,*.' 2' <*0 6'=1..*..*0'1' ./6+*.',)*?.*/+*.'M+ ' QX' ,)*'D119'1' 62*/,*//.' ;.'1'6'B*8' 2'*?2*2,'=1/,>6/.,6, 12'620',)6,'1' .,)*-'>*/*D-6,*.',)*-'=18*-'620'>12.*_;*2>172',)*' *-. 62'*?= -*% $20*-',)*' */*;>/0.*'\.**' A 12;.h',)*'8*-*'1>>6. 1207'=1-,62,'6.'56-- .12C .1/0*-.'T 620',' ?6'D*'.;.=*>,*0',)6,'12',)*'8)1/*' ,)*-'/1,'86.'?/0*-',)62',)6,'1',)*'1,)*-'>12_;*-*0' 26, 12.'6?125'8)>)',)*'08*/,% N% 6 '@ ' '"'6 ' '& !'<62'6,^ ,*?=,,'>)6+*'D**2'?60*',1'0.>1+*-',)*',*2',-D*.'*L^ (5/6,)C /*.*-')60'-*>* +*0'21'=6-,>;/6-'=-1+1>6,12' ., 25'6.'6'0.., 2>,'>1?7;2, % B1.*=);.'I& !'L ' -1?',)*'.-6*/,*.','),)6,')1'>6-- *0'1 ',)1.*'?6..*.'1'7KX' D*/*+*0',)6,'2')'06 ',)* '08*/,' 2'/6-5*' ?;/, ^ =1=;/6,12',21',.1>9') .');5*'>, '8,)% : .' .;>>*..^ 1-')6/?62*.*-'?60*',)*' .-6*/,.)'9 25' : 1.)*6',-DC ;,6-A% &)*2',)*',-D;,*'86.'8,))*/0')*6,,6>9*0' 620'-*0;>*0' 6?6-6'620'D '86 '1'=;2.)?*2,'620' 1'=-*+*2,12'-62.=1-,*0'2,1'.. -6'620 *0'6',.' 9 25' 620'6/',)*'?1.',+6/;6D/*'=1=;/6,12'-*?6 2 25' ,1',)*',*2',-D*.'MK' 25.'L+ 'SX% ()6,')*'0 0' 21,' >62 '1 '6//',)*'=*6.62,.' .'=-1D6D/*' -1?',)*'26,;-*' 1',)*'>6.*T : 125.,*2D*-5')18*+*-' ?6 2,6 2.',)*' >12,-6- 'I1? ' '" ' "1' ' ._' 0 2D% ,-%X% ()*'6? /*.',);.'-*?1+*0'8*-*' 2'6'5-*6,'?*6.C 2-*'.*,,/*0' 2'+*- '0 .,62,'>, *.' ?62 '1 ',)*?'=-1D6^ D/ '21,' 6-' -1?',)*' 6.=62' *6'620',)*' -'=/6>*' 86.' .;==/*0'D '>1/12*.' -1?' 6D /12'620' ;. .'MK' 25.' L+ 'K X% **' # ! K% ' ' " ' & ' % ! ' ().' 86.' =-1D6D/ '21,' *..*2, 6// '0 *-*2,' 2' ,.' *L,*-26/'>-^ >;?.,62>*.' -1?',)6,'1',)*'-'B;06,*' D-*,)-*2' .;D^ .*_;*2,/ '0;-25',)*'*L /*' 2' 6D /12% M **'D*/18%X & >'9218'21,) 25' *L>*=,'D ' 2 *-*2>*' -1?',)*'D119' 1 '(1D,'M%+%X' 1',)*' -*/5 1;.' 1-' .1> 6/'.,6,*' 1',)*' .-6*/,.)'*L /*.' 2' .. - 6% 1;D,/*..',)*'>12..,62,' =1/>'1'.*+*2,**2' .;>>*.. +*' 9 25.')60'* *>,;6// ' *.,-625*0',)*'=*1=/*' -1?',)6,'-*/5 12'8)>)'>*2,-*0' 2',)*'(*?=/*'620')60'-*0;>*0',)*'2;?D*-'1'6,) ;/ ?*2'D* 8',)*' 8)1'8*-*'-*+*6/*0'1-',DN'>12.1^ /6, 12'1 /A6)% 1?*=-*.,.'6,'/*6.,' 8*-*'6?125' ,)*?'MK' 25.'L+ 'KDX C,)1;5)' ,' .'21,'>*-,6 2',)6,' ,)*.*'8*-*'1',)*',-D*'1' *+'M' 25.'L 'N X% ()*' =*1=/*')60'D**2'2;-,;T=0'1-'K ' *6-.'2'01/6,- ' 2' ,)*-'182'/620'8)*-*',)*'0*=6-,*0'21,'MK' 25.'L+ ' KKX' -1?',)*' .2.'1'B*-1D16?'21,8,)..620 25',)*' =-1L ?, '1',)*'(*?=/*'620',)*'.;>>*..12'1'2^ .=-*0'=-1=)*,.'MK' 25.'L+ ' NX'6?125',)*?% *^ =-+*0'1',)*.*')*>9.'12',)*-'26,;-6/7>/26, 12.'MK' 25.'L+ ' X',1?'-1?',)*-'26, +*'.1/'0*.,;,;* 1'6')*-*0,6-'9 25',)*'=-1D6D/'D*>6?*'?1-*'620' ?1-*'>/1.*/'6.. ?/6,*0',1',)*-')*6,)*2'2* 5)D1-.'2' <*0 6% 20' 8)*2'6 ,*-',)*'/6=.*' 1'?1-*',)62'6' >*2,;- ',)*' +*-*'A1 2*0'D ',)*' -.,'*L/*.' -1?'B*^ -;.6/*?'+*-' '*8% 6?/*.'=-1D6D/'-*,6 2*0'.; >*2,' 1'6==-*>6,W620' 1/' /18',)*' 2.,-;>, 12' 1' [*9*/% ;,' 8)*,)*-',)*' 8*-*' ?62' 1-' *8',)*-'5*2*6/15*.' 8*-*' =-1D6D/' /1.,'6' ;.12'1',)*-,' 8 ,)',)*'B*8.',119'=/6>*' .-6*/ >*6.2%' 1' 6-'8*-*',)*'*A' -1?',)*'>120,12'1'" ^ '8)>)',)*'81-0' '>6=,+*J .;55*..,X',)6,',)*' D119'1';.6226'-*=-*.*2,.',)*-'*/0*-.'2' 6D /12'6' -*,6 2 25',)*'=18*-'1'/*'620'0*6,)'1+*-',)*-'182' 3A/*1=/*'M 'KQX'8)*2' 62*/86.'6.' *,'6' 1;25' ?62% ()*'6;,)1-,'1',)6,'D119'>6221,'20**0'D*' =-*..*0'6.',1',)*')-121/15 ' *,',)*'21,>*.'5+*2'D' [*9*/ML+'T LL' X'>12>;-'2',)*'5*2*-6/'6>',),)6,' ,)* ', //B*/0'62' 2,*-26/'A;-.0>,12'1+*-',)*-'182 ?*?D*-.% ,'6'/6,*-', ?*'220*-',)*' */>;>0.*'8*')6+*'0 .,2>,'=-11',)6,'2',)*'=-2>=6/'>, *.',)*'B*8.' 8*-*'51+*-2*0'D '62'1 >*-'I ; % #18' ,)*-'182' 26, 12'6.'6/.1'2' 5 =,';20*-',)*' ,1/* *.% ()*' D119'1'(1D,'*L) D ,.' .-6*/,*.' 2' <*0 6'=1..*..*0'1' ./6+*.',)*?.*/+*.'M+ ' QX' ,)*'D119'1' 62*/,*//.' ;.'1'6'B*8' 2'*?2*2,'=1/,>6/.,6, 12'620',)6,'1' .,)*-'>*/*D-6,*.',)*-'=18*-'620'>12.*_;*2>172',)*' *-. 62'*?= -*% $20*-',)*' */*;>/0.*'\.**' A 12;.h',)*'8*-*'1>>6. 1207'=1-,62,'6.'56-- .12C .1/0*-.'T 620',' ?6'D*'.;.=*>,*0',)6,'12',)*'8)1/*' ,)*-'/1,'86.'?/0*-',)62',)6,'1',)*'1,)*-'>12_;*-*0' 26, 12.'6?125'8)>)',)*'08*/,% N% 6 '@ ' '"'6 ' '& !'<62'6,^ ,*?=,,'>)6+*'D**2'?60*',1'0.>1+*-',)*',*2',-D*.'*L^ (5/6,)C /*.*-')60'-*>* +*0'21'=6-,>;/6-'=-1+1>6,12' ., 25'6.'6'0.., 2>,'>1?7;2, % B1.*=);.'I& !'L ' -1?',)*'.-6*/,*.','),)6,')1'>6-- *0'1 ',)1.*'?6..*.'1'7KX' D*/*+*0',)6,'2')'06 ',)* '08*/,' 2'/6-5*' ?;/, ^ =1=;/6,12',21',.1>9') .');5*'>, '8,)% : .' .;>>*..^ 1-')6/?62*.*-'?60*',)*' .-6*/,.)'9 25' : 1.)*6',-DC ;,6-A% &)*2',)*',-D;,*'86.'8,))*/0')*6,,6>9*0' 620'-*0;>*0' 6?6-6'620'D '86 '1'=;2.)?*2,'620' 1'=-*+*2,12'-62.=1-,*0'2,1'.. -6'620 *0'6',.' 9 25' 620'6/',)*'?1.',+6/;6D/*'=1=;/6,12'-*?6 2 25' ,1',)*',*2',-D*.'MK' 25.'L+ 'SX% ()6,')*'0 0' 21,' >62 '1 '6//',)*'=*6.62,.' .'=-1D6D/*' -1?',)*'26,;-*' 1',)*'>6.*T : 125.,*2D*-5')18*+*-' ?6 2,6 2.',)*' >12,-6- 'I1? ' '" ' "1' ' ._' 0 2D% ,-%X% ()*'6? /*.',);.'-*?1+*0'8*-*' 2'6'5-*6,'?*6.C 2-*'.*,,/*0' 2'+*- '0 .,62,'>, *.' ?62 '1 ',)*?'=-1D6^ D/ '21,' 6-' -1?',)*' 6.=62' *6'620',)*' -'=/6>*' 86.' .;==/*0'D '>1/12*.' -1?' 6D /12'620' ;. .'MK' 25.' L+ 'K X% **' # ! K% ' ' " ' & ' % ! ' ().' 86.' =-1D6D/ '21,' *..*2, 6// '0 *-*2,' 2' ,.' *L,*-26/'>-^ >;?.,62>*.' -1?',)6,'1',)*'-'B;06,*' D-*,)-*2' .;D^ .*_;*2,/ '0;-25',)*'*L /*' 2' 6D /12% M **'D*/18%X & >'9218'21,) 25' *L>*=,'D ' 2 *-*2>*' -1?',)*'D119' 1 '(1D,'M%+%X' 1',)*' -*/5 1;.' 1-' .1> 6/'.,6,*' 1',)*' .-6*/,.)'*L /*.' 2' .. - 6% 1;D,/*..',)*'>12..,62,' =1/>'1'.*+*2,**2' .;>>*.. +*' 9 25.')60'* *>,;6// ' *.,-625*0',)*'=*1=/*' -1?',)6,'-*/5 12'8)>)'>*2,-*0' 2',)*'(*?=/*'620')60'-*0;>*0',)*'2;?D*-'1'6,) ;/ ?*2'D* 8',)*' 8)1'8*-*'-*+*6/*0'1-',DN'>12.1^ /6, 12'1 /A6)% 1?*=-*.,.'6,'/*6.,' 8*-*'6?125' ,)*?'MK' 25.'L+ 'KDX C,)1;5)' ,' .'21,'>*-,6 2',)6,' ,)*.*'8*-*'1',)*',-D*'1' *+'M' 25.'L 'N X% ()*' =*1=/*')60'D**2'2;-,;T=0'1-'K ' *6-.'2'01/6,- ' 2' ,)*-'182'/620'8)*-*',)*'0*=6-,*0'21,'MK' 25.'L+ ' KKX' -1?',)*' .2.'1'B*-1D16?'21,8,)..620 25',)*' =-1L ?, '1',)*'(*?=/*'620',)*'.;>>*..12'1'2^ .=-*0'=-1=)*,.'MK' 25.'L+ ' NX'6?125',)*?% *^ =-+*0'1',)*.*')*>9.'12',)*-'26,;-6/7>/26, 12.'MK' 25.'L+ ' X',1?'-1?',)*-'26, +*'.1/'0*.,;,;* 1'6')*-*0,6-'9 25',)*'=-1D6D/'D*>6?*'?1-*'620' ?1-*'>/1.*/'6.. ?/6,*0',1',)*-')*6,)*2'2* 5)D1-.'2' <*0 6% 20' 8)*2'6 ,*-',)*'/6=.*' 1'?1-*',)62'6' >*2,;- ',)*' +*-*'A1 2*0'D ',)*' -.,'*L/*.' -1?'B*^ -;.6/*?'+*-' '*8% 6?/*.'=-1D6D/'-*,6 2*0'.; >*2,' 1'6==-*>6,W620' 1/' /18',)*' 2.,-;>, 12' 1' [*9*/% ;,' 8)*,)*-',)*' 8*-*' ?62' 1-' *8',)*-'5*2*6/15*.' 8*-*' =-1D6D/' /1.,'6' ;.12'1',)*-,' 8 ,)',)*'B*8.',119'=/6>*' .-6*/ >*6.2%' 1' 6-'8*-*',)*'*A' -1?',)*'>120,12'1'" ^ '8)>)',)*'81-0' '>6=,+*J .;55*..,X',)6,',)*' D119'1';.6226'-*=-*.*2,.',)*-'*/0*-.'2' 6D /12'6' -*,6 2 25',)*'=18*-'1'/*'620'0*6,)'1+*-',)*-'182' 3A/*1=/*'M 'KQX'8)*2' 62*/86.'6.' *,'6' 1;25' ?62% ()*'6;,)1-,'1',)6,'D119'>6221,'20**0'D*' =-*..*0'6.',1',)*')-121/15 ' *,',)*'21,>*.'5+*2'D' [*9*/ML+'T LL' X'>12>;-'2',)*'5*2*-6/'6>',),)6,' ,)* ', //B*/0'62' 2,*-26/'A;-.0>,12'1+*-',)*-'182 ?*?D*-.% ,'6'/6,*-', ?*'220*-',)*' */>;>0.*'8*')6+*'0 .,2>,'=-11',)6,'2',)*'=-2>=6/'>, *.',)*'B*8.' 8*-*'51+*-2*0'D '62'1 >*-'I ; % #18' ,)*-'182' 26, 12'6.'6/.1'2' 5 =,';20*-',)*' ,1/* *.% ()*' D119'1'(1D,'*L) D ,.' .-6*/,*.' 2' <*0 6'=1..*..*0'1' ./6+*.',)*?.*/+*.'M+ ' QX' ,)*'D119'1' 62*/,*//.' ;.'1'6'B*8' 2'*?2*2,'=1/,>6/.,6, 12'620',)6,'1' .,)*-'>*/*D-6,*.',)*-'=18*-'620'>12.*_;*2>172',)*' *-. 62'*?= -*% $20*-',)*' */*;>/0.*'\.**' A 12;.h',)*'8*-*'1>>6. 1207'=1-,62,'6.'56-- .12C .1/0*-.'T 620',' ?6'D*'.;.=*>,*0',)6,'12',)*'8)1/*' ,)*-'/1,'86.'?/0*-',)62',)6,'1',)*'1,)*-'>12_;*-*0' 26, 12.'6?125'8)>)',)*'08*/,%

6 :

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f' 2',)*'6=1>- =)6/'D119'1 '(1D ,'8) >)' .'5*2^ *-6// 'D*/ *+*0',1'D*'6' ? L,;-*' 1 '=1*, >6/ >, 12'8 ,)') .,1- >6/ 6>,.' -*>1-0*0'D ' 6' >12,* ?=1-6- '8*')6+*' 6' = >,;-*' 1 ',)*' 22*-'/ *' 1 '6' 6? / '1 ',)*' ,- D*' 1 ' 6=),6/ ' 6?125' ,)*' >6=, +*.' 8)1?')6/?62*.*-' D-1;5),',1' 2*+*)% ()*'6=1>- =)6/D119'1 ' 6-;>)' .>*? X 2' <-% 6 6-0 .' 1= 2 12 ',1')6+*'D**2' 8- ,,*2' D '12*'8)1.*'* *. ' / 9*',)1.*' 1 ' [*9 */' 8*-*' 6? / 6-' 8 ,)' ,)*' 5 562, >' 1-?.' 1 ' .. - 62' .>;/=,;-*% *+^ *-6/ 1 ',)*' .6/? .' 6==*6/I',1'*L=-*. ',)*' .*2, ?*2,.' 1' B*8.' 8)1' 8*-*' *,)*-' =6-,69*-.' 1-' 8 ,2*..*.' 1 ',)*' .. - 62' >6=, + , % 86/0'6.. 52.',1',) .'=*- 10' .6% L/ 'L/ ' LLL + 'L+ 'L+ 'L/ L 'LL 'LL+ 'LLL+ ' LLL+ 'L/' L L' > L' / ' LL 'LL+ 'LLL + ' LLL ' L + ' *LL ' *LL ' >LL ' *LLL' >LLL % /.1' 2' .6F LLL' 8*'.**?',1')6+*',)*' 81-0.' 1 '62' .-6*/ ,* '08*/!^ 25'=*-)6=.' 2'B;0?6'MK)-12% L+ 'RT LLL ' SX' 8)1')60' .**2',)*' 0*=6-,;-*' 1 ') .' >1;2,- ?*2',1' .. - 6'1 620' 2' .6% >LLL+ '62'1;,=1;- 25'1 ',)*' -.,' 2,*2.*' **/ 25.' 1 '6'B*8 .)' *L /*' 2' 6D /12% Z ;,' ,' .' -1?' ,)*',)-**' 5-*6,'=-1=)*,. 'B*-*? 6) ' [*9 */'620' 62^ */ ',)6,'8*'/*6-2' ?1.,'1',)*'>120 ,12'1',)*'>1?0 ,)*' 60+ . 25'620' >)**- 25',)*? ' 1//18*0',)*?' 2,1' .^ . -6% ()*-*' 1-'6' *8' *6-.',)* ')60'21' =-1=)*, >' 5; 0*T , // .;00*2/ ',)*' + . 12'1' [*9 */ 6,')*D6-' M 2',)*' ? ?*0 6,*' + > 2 , ' 1 ' 2*+*) ' 6>>1-0 25',1' 6 6-0 '1-' 6>>1-0 25',1'1,)*-.' 2*6- 6->)*? .)' 12' ,)*' ;=)-6,*.X 6..;-*0',)*?',)6,',)*' 5/1- ' 8) >)' //*0',)*' (*?=/*' 6,' B*-;.6/*?' 86.' 21,')1=*/*..//' 8 ,)0-682' -1?',)*'1;,>6.,'=*1=/*'1'410% .'B*-*^ ? 6)' 86-2*0',)*?' 1 '>1? 25' 81*' .1' [*9 */,6;5),' ,)*?')18',1'D*6-',)6,'8) >)' 86.' >1?*' ;=12',)*?% &)12' [*9*/0*0'6 ,*-'=6.. 25'6,'/*6..',*8*2, C.*+*2' *6-.' M [*9% LL L' X 2' >6=, + , ' 62 */ .;-+ +*0' *+*2'D* 120',)*' *,;-21'620',)1;5)') .') 5)' .,6, 12' 620'6.>*, >'/ *' =-1D6D/ '.*>/;0*0') ?' -1?' -*_;*=,' 6? / 6-' 2,*->1;-.*' 8 ,)') .'=*1=/*') *' //*0',)*'=/6>*' 1 '>) * ' 2,*-=-*,*-' 1 ' 410 .' 8 //,1' .-6*/' 620'56+*' ,)*' ?1.,' >12.= >;1;.' *L6?=/*' 1 '0*+1, 12' 620' 1D*^ 0 *2>*',1') .'/68.% -" ' 5 ' ; ! ' ()*' -.,' 5?*62,' 1 ',)*' * 1-,' 1 ',)*' *+625*/ .,' 1 ',)*')- ., 62' *+*2,' ',)*' *,;-2' .',)*' 0*>-**' 1 ' -;.' % %SNS M8)>)' 86.' =1.. D/ ' -6?*0'D ' 62 */I .*>' < /?62' 6 ,)% **' D*/18 ' 620' >1?=% ' I ' " ' D (8! # ' D !' 'QX' 2'>12.*_;*2>*'1'8)>)' K NS 'B*8.' 1 ' 6D /12' -*,;-2*0' ;20*-')*.DD6[[6-' + ,,)' NN ' ./6+*.' D*. 0*.' >6,,/*% () .' *20*0' 2',)*-' D; /0 25' ,)*'6/,6-'620'/6 25',)*' 1;206, 12'1',)*'.*>120'(*?^ =/*' , C,)-**' *6-.'6 ,*-',)*'0*.,-;>, 12'1',/*' -.,% ()*=-15-*..'1',)*'81-9'86.')18*+*-'6/?1..' ? ?*^ 0 6,*/ '.,1==*0I' 1-'U*-;DD6D*/'B*.);6'620',)*'-*.,' 6D-;=,/ '-* ;.*0'6//)*/=' -1?',)*')/ C)*6,)*2' 2)6D^ ,62,.' 1 ' 6?6-6'620'.112' */',)*' * *>,.' 1 ',)*'*2^ ? , ',);.' 20;>*0% ()6',)*' ? 20' 1 ' -;.' 86. >)625*0'D ',)*-' 2,-5;*.' 8*' 6-*' 21,' 2 1-?*0'D;,')*' 86.'=-1D6D/ '6D.*2,' 2'0 .,62,'=6-,.',)-1;5)'>12^ ,2;6/ 86-% ()*-*' .' .1?*' 0 >;/, ' 2' [-6' +'6.',1' ,)*' 26?*.')6.;*-;.' 620' -,6L*-L*. ' *',)*'5*2*-6/ 6>,7' 6-*' I>/*6-% &)*2' 6- ;.' M : .,6=.X762' 6D/*' 620' 5*2*-1;.' ?126->)'6.>*20*0',)*',)-12*',)*'B*8.' .112' 1D,6 2*0' D .' 6+1-% ',) .' >- . .' U*-;DD6D*/' 86.' 2'>) *'6;,)1-,E'M 6*.)D6[[6-' '6'0 *-*2',=*-^ .12' =*-)6=.' D* 25'0*60X' 620' ;20*-') ?',)*' (*?=/*' 86.'-*>1? ?*2>*0' 2',)*'.*>120'620' 2 .)*0' 2',)*' L,)' *6-'1' 6- ;.' % ' K C % /,)1;5)',) .' ?;.,' D* -*>902*0'62' *-6' 2',)*') .,1- ' ,' .' 21,' .6 0' ,25'1'B*8.% & *'=6..'12',1' ',)*'.*+*2,)' *6-'1'9 25' -,6L*-L*.J' M 125 ?62;.X'% [-6' + ' ' % *% % % R' 8)*2' [-6' >1?*.' 2=' -1?' 6D /12',1'B*-;.6/*?'8 ,)',)*'9 25 .' >1? ?*206,1-' /*,,*-.' 6>>1?=62 *0' D ' 6' /6-51' D10 ' .= - .;6/ */*?*2,.' 1 ' <16. .?' 620',);.' 86.',)*' 26C 1 ') .' 26, 12% ()*' *2;?*-6, 12' 2' [-6' + ' ?69*.'(, 12' D*,,*-'=-*=6-*0' 1-',)*' 0 .=*2.6, 12'1 ',)*' 41.=*/% ,)*?' ;20*-' Q ' ?6/*.' 8 ,)',)*' -' 6? / *.d =*-)6=.' 7 ' 2*8' ?=;/.*' 1 '>1? ?*-> 6/ *2,*-=- .*' 620' 6>, + , ' 6?1;2, 25',1' '=*-.12. ' 1;25' 620' 1/0d7 ' 8)1?' ' 86.' 6/.1' ?=/62,*0' 2',)*? '620'0*+*/1=*0' 2',)*' 06 .' N 6-*'>>1;2,*0'6.')6+ 25')*6,)*2' 8 +*.' M [-6' L ' 1',)*' .:=*-. 12' M.**' B6?*.' + ' NX' 8)>)',)*')6+*' QC NX% 2',)*' ,8*2, *,)' *6-'1',)*' .6?*' 9 25' 1-' >12, 2;*0',1' **/' *+*2',1',)*'=-*.*2,',?*% 2' 2*' % % S' *)*? 6) ') .'>;=C)*6-*-' 56 2.') .'=*-? .^ 62' 221+6, 12' 86.' * *>,*0';=12',)*' 26--18' 620' 12*C7

. 0*0' 21, 12.' 1 'B ; 06 . ?' D ' ,)*' 6 . .1> 6, 12.' 1 ',)*' *L^ /*' 8) >)' 6/,) 1 ; 5)' ,' -* . ; /,*0' 2' ,)*' 0* *>, 12' 1 ' ? 62 ' -1 ?' ,) *' 26, 126/ 6 ,)' MD ; ,' 1 ',) *. *' *8' >6-*0' ,1' -*, ; -:2' ,1' ,)* ' -' 26, +*' /620X ' *, ' / 9*' ,)*' *6-/ *-' 1A1 ; -2' 2' 5 =,' M8 ,)' 8) > *' 2' ,) *' 5/18 25'= >, ; -*.' 1 '=-1=)*> ' ,' 86. ' 1 ,*2' >1 ? =6-*0X ' *20*0' 2' ,)*' >1/^ 12 [6, 12' 1 ' 6/*., 2*' 8 ,)' 6' -*.)' 620' ? 1-*' ,) 1-^ 1 ; 5)/ ' >; /, ; -*0' =1=; /6, 12 ' *,' ?1-*' .>-; =; /1 ; ./ ' 0* (1,*0',) 62' *+*-' ,1',) *',) *1>-6, >' > ; /, ; . ' 8) 1' +1/ ; 2^ ,**-*0' 8 ,)' = 1 ; .' [*6/ ,1' /6 '62*8' ,) *' 1 ; 206, 12. ' 1 ' ,)*' : *D-*8' =1/ , %

4# -" ' ' % 1' '& -- %' MK' <6>> : 'K T B6 ? *. ' T ' *,%' ' T B1) 2' + ' T B1. *=) ; . '& ' L ' 'N' *,>%T *=, ' 1-' 8) >)' ,' 6/. 1' -*20*-. ' -) ')6 ' % O 8' . ',)*' >1//*>, +*' 26 ? *' 5 +*2' ,1' 6// ,) 1. *' 0*. >*2062, . ' 1 ',/>B, 8*/+*' ,- D*. ' MB6 ? *. ' ' T -, ' *$) 1 O ' >, . ' LL+ ' X' 8) 1' / +*0' 8 ,) 1 ; , ,)*' >12 2*. ' 1 ' 6/*., 2*' M, 78 ' ' 1-%+ ' N ' *, >%T / - A' (6/? ; 0 >' BV . 26X ' 0 ; - 25' ,)*' , ? *' 1 ',)*' .*>120' (*?=/*% ()*' 2 ; ? D*-' 1 ' *L /*. ' ? 1. ,/ ' 1 ',)*' ,- D*' 1 'B ; 06)' 620' *2A6 ? 2' M [-6 ' ' *, >%X' 8) 1' 6+6 /*0',)*? . *+/+*. ' 1 ',)*' =*-? .. 12' 1 ' ^ -; . ' ,1' -*, ; -2' -1 ?' ,)*' -' >6=, + , ' 2' 6D /12' ,1' ,) 1' /620' 1 ' ,)*' -' 6,) *-. ' .>6->*/ ' *L>**0*0' ' 20**0' ,' -*6>) *0',)*' 2 ; ? D*-' 1 'S '\,)*', 1,6/ . ,6, *0' D1,) ' 2# [-6' 620' *)*? 6)' . ' *L>/ ; . +*' 1 ',)*' ./6+*. ' K NS T D ; ,)*' . ; ?' 1 ',)*', *? . ' 5 +*2 ' 78 ,)' ./ 5), ' 0 *-^ *2>*. ' 72D1,)' 01>;) *2, . ' 6//. ' .) 1-, ' 1 'N h% D/ B*8 .)' 6 ; ,) 1-, *. ' .** 2' ,) . ' . ; -=/ ; ' .-6*/ , *. ' 1 ',) 1' ,*2' ,- D*. ' M>1?=' $ ' , '5 "1' >) % LL LX ' 20' 6?125',) *. *' *8' D ; ',) *' /18*. ' 620') ; ? D/*. , ' *-' . ; >)' 6. ') 60' *0*0', 1' 6 ; ,) 1-, ' 8*-*' ,1' D*' 1 ; 20' M>1?=' / ' ' 26') " 1' + ' T 46?% 7LL ' X% ()*' 5-16, ' D ; /9' 2-',) 1' 26, 12' -*?6 2*0' .>6, , *-*0' 1+*-' ,) 1' 80* 01? 2 12' 1 ' ,)*' *-. 62' *?= -*' =-* *-- 25',)*' 2*8')1?*.' 2' 8) >)',) * ' *2A1 *0' 6/',) *' =- + /*5*. ' 1 ' 26^ , +*CD1-2' . ; DA*>, . ' 620' 8) *-*',) , 7') 60' 2' ? 62 ' >6. *. ' 6>_ ; -*0' 8*6/,) ' 620') 121-. ' , 1' ,) *' 0625*-. ' 620' 0 ^ >; /, *. ' 1 ' 6' -*>1/12 [6, 12' 1 ' ,) * -1' 1-? *-' >1; 2, - % ; . ' 8) /*' D ',)*') 620. ' 1 ',)*' 0*. = . *0' ? 21-. ' 8) 1') 60' D-6+*/ ' 512*' 1-,) ' 86. ' , 1' D*' -*>-*6, *0' 21, ' 12/ ' ,)*' (*?=/*',) *' + . D/*' >*2, -*' 1 'B ; 06 . ? ' D ; , ' 6/. 1',) *' ., // ?1-*' ?=1. 25' 620' ?=1-, 62, ' *0 >*' 1 ',) *' B*8^ .) ' /68' 620' B*8 .) ' >; /, ; -*', 1',) *' ? ; >) ' /6-5*-' . *>, 12' 8) >)' -*?6 2*0' D*) 20' 620' 5-60 ; 6// ' 0 ; .*0' , . */ ' 1+*-',) *' 8) 1/*' 1 ',) *',) *2' 9218 2' 81-/0' , ' 86. ' 5 +*2' ,1' =6-, > =6 *' 2',) *' 2, */ /*>, ; 6/ / *' 620',) *' =-15-*. . ' 2' > + / [6, 12' 1 '6// ,) *' 26, 12. ' 8 ,)' 8) 1?' ,) *' -' /1, ' 86. ' >6. ,# (1',) *' .=*-. 12' . ' ,) ; . ' 0 ; *',) *' >1. ? 1=1/^ , 62' */*?*2, ' 2' B ; 06 . ?' 8) >)') 6. ' 600*0' .1' +6. , / ' 21, ' 12/ ' , 1' , . ' 182' . , -*25,) ' 620' 0 ; -6D / , ' D ; , ' 6/. 1' 5*1^ 5-6=) >6// '6, '/*6. , ' , 1',) *' -6= 0' .=-*60' 1 ')- ., 62 , ' 7 1' 6-') 18*+*-' -1?',) *' 0 .=*-. 12' =6+ 25',) *' 86 ' 1-',) *' 2*8' 6 ,) ' D ' -*/6L 25',) *' - 51-' 1 'B*8 .)' /68 ' 8- , ,*2' 1-' 1-6/ ' 6. ') 6. ' D**2' 6. . ; ?*0' P ' .1?*' 12*' 1 ',) 1' . , -125*. ', ' . *. ' D ' 8) >)',) *. *' +1/ ; 2, 6- ' *L /*. ' 8*-*' D1; 20', 1' 6/*., 2*' 620' B*-; . 6/*? ' >12. . , *0' 2' 2' ,) *' +*- ' -*5 ; /6, 12. ' 620' 0*> . 12. ' 12' 6//' - , ; 6/' 620' /*56/ =1 2, . ' 8) >)',) * ' -*>* +*0' -1?',) *' . ; =-*?*' -*^ / 5 1 ; . ' 6 ; ,) 1- , *. ' * ,) *-' D-1 ; 5), ' D6>9' D ',) * -' 182' 0*/*56, *. ' 1-' , -62. ? , , *0' , 1',) *?' DA ' . =*> 6/ ?*. . *2^ 5*-. ' -1?',) *' *2, -6/ 1 ; -, ',) *' 62) *0- ?' M >, . ' LL+ ' K X% 4*2*-6// ' , ' ? 5), ' D*' .6 0' 1 ',) *' 8) 1/*' % 1' 6. ') /1' M 6->% g X' .6 0' 1 ',) 6, ' 1 ' 5 =, å ,) 6, ' 8) /*',) * '/119*0' ; =12',) *' >1 ; 2, - ' 2' 8) >)',) *') 60' D**2' D1-2' 620' D-*0' 6. ',) *' -') 1?*' . , //,) *' 2*+*-' >*6. *0' . 1'/125' 6. ',) *' (*?=/*' . ,110' , 1' >12. 0*-' B*-; ^ . 6/*?' 6. ',) *' .= - , ; 6/ ?*, -1=1/ . ' , 1' 8) >)',) *' -' * *. ' 620') *6-, . ' 8*-*' 0 -*>, *0% < 62 ' 8*-*') *' = /5- ? 65*. ' ; 20*-, 69*2',) ,) *-' -1 ?',) * -' 6-C0 . , 62, ' /620. ' M >, . ' ' 4C T B1. *=) % 1' + ' R ' N ' *, >%X% ()*' (6/? ; 0' ID !' ! ' T >1?=' - !' !' >% KX .=*69. ' 1 '21' /*. . ' ,) 62' NQ ' . 26515 ; *. ' 2' B*-; . 6/*? ' D*. 0*. ' ,) *' (*?=/*' 6// D*/125 25', 1' 0 *-*2, ' >1? ? ; 2 , *. ' 1 ',) 1' .=*-. 12' M>1?=' 6/. 1' >, . ' + ' RX% D ; 2062, ' 620' 6-' *L>**0 25',) *' 21-? 6/ , 6L ' 1 ') 6/ ' 6')*9*/ I$" +!' +

X' 8*-*' ,) *' 5 , . ' ,) *' . *2, ' -*5 ; /6-/ ' 1-' ,) *' . ; ==1-, ' 1 ',) *')1/EI7 =/6>*' M51/0' 2. , *60' 1 '. /+*-' 620' >1==*-' - !' $" hS ' >% KX ' 620', // ?1-*' / D*-6/ 8*-*',) *' ?12*^ , 6- ' * _ ; +6/*2, . ' 1-' .6>- >*. ' =-1= , 6, 1- ' 1 *- 25. ' I % 1') /1X ' 1-' +18. ' *, >%' 8) >)' /18*0' -1?' 6// >1 ; 2, - *. ' 2, 1',) *' .6>-*0' , -*6. ; 7E7 ()*' 62) *0- ?' 656 2' -*5 ; /6, *0' ,) *' *6- ' 8 ,)' 6// ,. ' . ; D0 + . 12. ' ,) -1 ; 5) 1 ; ',) *' 8 0*' > ->/*' 1 ',) *' .=*-. 12' ,) *' 6>, ') 6, ' ,) *' >1? ?*2>*?*2, ' 1 ',) *' 2*8' ?12), ') 60' D**2' 1 > 6// ' -*>152 . *0' D* 25' 6221 ; 2>*0' * ,) *-' D ' D>6C >12C -*. ' , 1',) *' 60A1 2 25' >1 ; 2, - *. ' 1-' D ' ?*. . *25*-. ' , 1' =/6>*. ' ?1-*' -*?1, *% ()6, ' 2' 5*2*-6/ ' ,) *-*' *L . , ^ *0' 6. ' 6-' 6. ' > -> ; ? . , 62>*. ' =*-? , ,*0' 62' ; 2 2, *--; =, ^ *0' 2, *->1 ; -. *' D*, 8**2',) *' B*8 . ' 6D-160' 620',) 1. *' 2' 6/*., 2*' >6221, ' D*' 01 ; D, *0% -1D6D/ ' 18 25', 1',) . ' +*- ' >122*>, 12' , 81' 1-* 52' 6>60*? *. ' 12/ 1' . **?' , 1') 6+*' *L . , *0' 06- 25',) *' , ?*' 1 ',) *' .*>120' (*?=/*' T ,) *' 1 ; ,) ' 1 ',) *' .=*-. 12' 26, ; -6// ' =-* *-- 25', 1' -*^ .1-, ' , 1',) *' 1 ; 2, 6 2C) *60' 1 ' /*6-2 25' 620' -*/ 5 1 ; . ' 2^ . , -; >, 12' 2',) *' : 1/ ' , % 3() *' 26/ 0*. , -; >, 12' 1 ' ,) *' (*?=/*' 620' B*-; . 6/*? ' 86. ' ,) ; . ' 6' D/18') 6-0/ ' /*. . ' .*2. D/ ' */, ' D ',) *' .=*-. 12',) 62' D ',) *-' D-*,) -*2' 1 'B*-; . 6/*? ',) *? . */+*. % -1?',) 6, ', ?*' 1-86-0' 21' + . D/*' >*2, -*' D1; 20',) *' 8 0*/ C. >6, , *-*0' ?*? D*-. ' 1 ' - /*' B*8 .)' 26, 12', 15*,) *-T 21,) 25' -*?6 2*0', 1',) *?' D ; , ' >1? ?12' ?*?1- *. ' >1? ?12') 1=*. ' 620' 6' >1? ?12' 6 ,) %

M1%X 1-*?1. , ' 2',) *', 81' 1-',) -**' >) *'. *>, 12. ' 2, 1' 8) >)',) *' .=*-. 12') 6. ' D**2' 0 + 0*0' . , 620',) *' 6D^ /12 62' > -- % B1. *=) ; . ' & !' L+ ' N X ' *?^ D-6> 25' ,) 1' B*8 . ' 1 ',) *' *-. 62' *?= -*' 2, 1' *+*- ' =6-, ' 1 ' 8) >)' M . ,) % QX ' ' 6D /12 6 ' <*0 6 ' *-^ . 6 ' ; . 626 ' <*. 1=1, 6? 6 ' . . - 6 ' *, >% ' ,) *' =*2*^ , -6, *0% ()*' B*8 . ' 1 ' 6D /12 6' =-1=*-' =- 0*0',) *?^ . *+*. ' 12',) *' *L>*=, 126/ =; - , ' 1 ',) * - / 2*65*' 6' D16. ', ; 2 1-?/ ' -*>152 . *0',) -1 ; 5) 1 ; ',) *' 26, 12% &7) 6, 'B ; 06*6' , ' 86. ' . 6 0' 86. 8 ,)' -*. =*>, ', /T*' .^ =*-. 12' 1 ' 1,) *-' >1 ; 2, - * . ' 6. ' =; -*' /1 ; -', 1' 01 ; 5) ' ' ,) 6, ' 6D /12 6' 86. C, 1' B ; 0. *6' MB*-; . % (6/?%) !' + ' X% : *-10' =-*, *20*0', 1') 6+*' . =-; 25' -1?' 6D /12 62' 62^ >*. , 1-. ' MB1. *=) % & !' L + ' NX ' 620' 6/. 1' D*. , 18*0',) *') 5) C=-*. ,) 110' ; =12' 6' ?62' -1?' 6D /12' MB1. *=) ' & !' d K ' X% 2',) *' ?*. . 65*. ' . *2, ' D ',) *' 62) *^ 0- ?', 1',) *' 8) 1/*' .=*-. 1=' 6DA012 6' -*>* +*0',) 1' =-*>*0*2>*' I1$ "!' XT 6/,) 1 ; 5)' .' -*?6 2*0' 6' . , 620^ 25' -*= 6>) ' 656 2. , ' ,)*' 6D /12 62. ' ,) 6, ' ,) * ') 60') */0' 6/11 ' -1?',) *' 26, 126/ >6; . *' 8) *2',) * -' D-*,) -*2' -*, ; ?**A# , 1' 6/*., 2*' 620',) ; . ') 60' >6; . *0',) *' 8*69^ 2*. . ' 1 ',) *' B*8 .) ' . , 6, *' M 186 RXT' 6. ' 20**0' / + 25' 2' 6/*., 2*' ; 20*-' 62 ' > ->; ? . , 62>*. ' . ' *2; ?*-6, *0' 6?125',) *' M NX B*8 .) ' 1-0 262>*. ' M 6>) -662 0*. ' ' , 1' <6 ?12 0*. . ' $ %+ ' # / "8' ()*' +*- ' , *-- , 1- ' 1 ' 6D /12 6' 86. ' 1-' >*-, 6 2' - , ; 6/ =; -=1. *. ' >12. 0*-*0', 1' D*' 6. ' =; -*' 6. ' 6/*., 2*' , . */ ' % *- ' / , , /*' . ' 9218 2' 1 ',) *') . , 1- ' 1 ',) *' 6D /12 62' ' % :' D ; , ',) *-*' . ' 21' -*6. 12', 1' . ; ==1. *' ,) 6, ' , . ' >120 , 12' 86. ' ; 20*-' *-. 62' 6. ' 8*// 6. ' ; 20*-' */*; C 0*-',) *' 4-*6, ' B1. *=) ; . ' -*>1-0. ' *L=-*. . / ' ,) 6, ') *' >12^ -?*0',) *' 1-?*-' =- + /*5*. ' 1 ',) *' B*8 . ' 2' 6D /12 6' MB1. *=) % & !' L ' Q ' X' 21, 8 ,) . , 620 25',) * -' -?' -*^ ; . 6/ , 1' 6. . ., ' 2' -*D ; /0 25',) *', * ?=/*' 1 ' */ ; . ' 6, ' 6D /12' M : *>6, % 6=% B1. *=) % &% ' ' KKX% (81' 5-*6, ' > , *. ' . D . ' 2' <*. 1=1, 6? 6 ' 620' *) 6-0*6' 12',) 1' ; =) -6, *. ' 8) *-*',) *' ?12*. ' 2, *20*0' 1-', -62. ? .^ . 12', 1' B*-; . 6/*?' 8*-*' 0*=1. , *0' MB1. *=) % & !' L + , ' R ' N ' *, >%X ' 6. ' 86. ' ,) *' >6. *' 6/. 1' 6, ' =6? >6' 2' . 6' < 21-' 610 >*6' 2') - 5 6 ' *-56? ; . ' 620' 0-6C ? ,, ; ?' 2' 1/. ' . **?' , 1') 6+*' D**2' *2, -*/ ' ,) *' -' 182' 620' 1-' 6' 2 ; ? D*-' 1 ' *6-. ' ,) * ' 6==*6-' *+*2', 1') 6+*' * /A1 *0' ,) *' ; 20 77=; , *0' =1. . *-. 12' 1 ' 6' 8) 1/*' =- 2> =6/ , ' M, S% X% 4-*6, ' >6/6? , * . ') 18*+*-' D* *// ,) *? ' D1,) ' 6D1 ; ',) . ' , ?*' ; 20*-% < , D- 06, *. ' M S% RX ' 620' /6, *-' ; 20*-' 6/ 5 ; /6 ' ,) -1 ; 5) ' ,) *' A*67/1 ; . ' 1 ',) *

4-**9.' 620' - 62.!' 620' 6,'D1,)' 1 ',)*.*' *=1*)..',)* ' *? 5-6,*0' 2' /6-5*' 2 ; ?D*-.'% &) *.)*-' .)* ') 60' 2' ,)1.*' , ?*. ' 6.' 86.' 6 ,*-86-0' ,)*' >6.*' 6' ; 2 +*-.6// ' -*>152 .*0' *.)26-1)' 6,' .)* -')*60 ' .' 1=*2' ,1' 01 ; D, ' 6/.)1 ; 5)' $ ' ,2 '$ ' *2; ?*-6,*.' .)*' 26?*.' 1 ' ,**2' 5*2*-6, 12.' 1 ' . ; >) ' 01 8 2' ,1' .)*' .) -0' >*2, ; - % ( )*' , *.' 8) >)' / 29*0' 6D /12 6' ,1' 6/*., 2*' 8*-*' =*-.)6=.'>/1.*-' .)62' 2' .)*' >6.*' 1 '62 '1.)*-'=1-, 01 ?% ,)*' .:*-. 12 ' D1,)' 12' 6>>1 ; 2, ' 1 ',)* -' 5-*6,*-' =-1LC ? ,E ' f) >)' *26D/*0' .)*?' ,1' >1? ? ; 2 >6,*'D 'D*6>12.' M *.)C /, 2' D* 25' .)*' /6.,' ..,6, 12' 12' .)*' -12, *-.'! 5 '" # " ' X' 620' 1 ',)* -' >1? ?12' -6?6 >' 0 1?% ( )6,',) .' .:*-. 12' 86.' 21,' 8 .)1 ; ,' 62' 2 /; *2>*' 12' ,)N' 0*+*/1=?*2,' 1 ' ,)*' U1-16.,- 62' -*/ 5 12' M>1?=% = *5*/' I !' '. 8' 8) >)' 2' ,.' .; -2' 6 2 20 ; *2>*0' B ; 06 . ?' M620' 6,' 6' /6,*-' .,65*' 421., > . ?X' >62')6-0/ 'D*' 01 ; D,*0' 6,' .)*' .6?*' , ?*' ,' 86.' 6D^ /12' 8) >)' 6 ,*-' .)*' 26/ 0*.,-:>, 12' 1 ',)*' (*?=/*' D ' ,.' 2 ; ?*-1 ; .' 620' 6-C 6?*0' 6>60*? >.' D*>6?*' 1-' 6' /125' , ?*' ,)*' .= - .; 6/ >*2,-*' 1 ',)*' B*8 .)' -6>1' 620' 86.' .)*' .*6,' 1 ',)*' =- 2>*' 1 ',)*' 6.=1-6' M *.)' 4>/ ; .)6X% **' 8 # 6 !

ID31 ()*' .*>120' 5-*6,' 620' =-*C*? 2*2,/A7 ?=1-,62,' 5-1 ;=' 1 ',)*' .:*-. 12' 8*' 20' 2' 5 =,% ' .)*' 1- 5 26/ ?? 5-6, 12.' -1?' 6/*., 2*' M>1?=% U*>)% L ' X' 620' 1 ',)1.*' 8) >)' ,119' =/6>*' 2' .)*' , ?*.' 1 ',)*' /6.,' 9 25.' 1 'B ; 06)' MB*-% L/ ' KX' 8*')6+*' 21' ?1-*' >*-.6 2' ,-6>*.' .)62' 1 ',)1.*' ; 20' 2' 5 =,% ' .)*' -,6L*-L*.' >) ; .' MB1.*=) ; . ' & %!' '*,>%X% ,' 86.' 12/ ' 6 ,*-' /*L620*-' .)*' 4-*6,' 8)1' -.,' .*,,/*0' Q 'B*8 .)' .1/0 *-.' 2' ,)*' ()*D6 . ' 620' =*1=/*0' 6' ,) -0' 1 ') .' 2*8/ C 1 ; 20*0' > , ' /*L620- 6' 8 ,)' B*8. 7620' ,1/*?6. ; ,.)*' -,6L*-L*.' .12' 1' 65 ; .' 6 ,*-') ?' 8)1' 2>-*6.*0' ,)*' 2 ; ?D*-' 1' 5 =^ , 62' B*8 .' D ' -*.)' ?=1-,6, 12.' -1?' 6/*., 2*' ,)6, ')*' 5 =, 62' .:*-. 12' D*562' ,1' .=-*60' 1+*-' ,)*' 8)1/*' >1 ; 2,- ' -1?' ,)*' D 62' 0*.*-, ' 2' ,)*' 21-,)' ,1' ,)*' D1 ; 206- *.' 1 ' ,)1= 6' 2' ,)*' .1 ; ,)' M) /1 ' @ ' ' KN ' 1+*-' ,)*' -*26 >6' 620' =6-,.' 1 ' /P 6' MB1.*=) ' & ' L+ ' ' KX' 620' 6/125' ,)*' D1-0*-.' 1 ',)*' - >62' >16.,' 1 ' ,)*' <*0 ,*--62*62% ()*' *2A1 *0' *_ ; 6/ - 5),' 8 ,)' ,)*-' *//18C. ; DA*>,. ' D1,)' 5A7=, 62' 620' 4-*9' MWM(-1d -,,6 ' B1.*=)% &% ' ' *,>%X' 620' 8*-*' 60? ,^ ,*0',1',)*') 5)*.,' 1 >*.' 620' 0 52 , *.% ()*' -**' 0*^ +*/1=?*2, ' 8) >)' 86.' ,)*-*' 6//18*0' ,)*?' *26D/*0' ,)*?',1'-*6>)' ; 20*-' 4-*>/>' 6 ; .= >*. ' ,)*') 5)*.' ,'*? ^ 2*2>*' 2' .> *2>*' 620' 6-,% ()*-' 6-, .,' 620' f, -92 >2' 8*-*' .*2,' 1-' ,1' 0 .,62,' >1 ; 2,- *. ' 6.' 12>*' ,)*')1*2 ^ > 62.') 60' D**2' I< 1' 'Q ' :' 6 "!' '"8!' 2' 4-**9' .,-6,*5 '620' 4-**9' .,6,*. ?62.) = ' 4-**9' /*6-2^ 25' 620' 4-**9' -* 2*?*2, ' ,)*' 8*-*' -*60 ' 0 .> =/*.% -1?' ,)*' 2 ; ?D*-' 1 'B ; 0**1C4-**9' -65?*2,. ') .,1- ^ >6/' Z$06>, >' *= >' *,>% W/P ' *?*,- ; . ' < 6/>) ; . ' ; C =*/*?; ' -,6=62' - .,6A/. ' B6.12' [*>) >/ ; . ') /1' ,)*' /0*- (/ *10 ; , 12' *,> 1' >1//*>,*0' 2' < ; //*-'@ ' D !' ? ! 'K CKN X' 8) >)') 6+*' . ; -+ *'0' 8*' ?6 ' *6. / '>12>/ ; 0*' 8) 6, '62' ? ?*2.*' / ,*-6, ; -*' ,) . ' 5 =^ , 62' .:*-. 12' ? ; .,') 6+*' =1..*.*0% (1' ,)*?' .' 18^ 25' / 9*8 .*' ,)*' 4-**9' ,-62./6, 12' 1 ',)*' D/*' 921 8 2' 6.' ,)*' *=, ; 65 2, ' 8) >)' 2' .' ., ; -2 ' 8) /*' ,' *.,-625*0' ,)*' =*1=/*' ?1-*' 620' ?1-*' -1?' ,)*' /625 ; 65*' 1 ',)*-' 6,)*-' ,)*' /0*- (/ *10 ; , 12' *,> 1' >1//*>,*0' 2' < ; //*-'@ ' D !' ? ! 'K CKN X' 8) >)') 6+*' . ; -+ *'0' 8*' ?6 ' *6. / '>12>/ ; 0*' 8) 6, '62' ? ?*2.*' / ,*-6, ; -*' ,) . ' 5 =^ , 62' .:*-. 12' ? ; .,') 6+*' =1..*.*0% (1' ,)*?' .' 18^ 25' / 9*8 .*' ,)*' 4-**9' ,-62./6, 12' 1 ',)*' D/*' 921 8 2' 6.' ,)*' *=, ; 65 2, ' 8) >)' 2' .' ., ; -2 ' 8) /*' ,' *.,-625*0' ,)*' =*1=/*' ?1-*' 620' ?1-*' -1?' ,)*' /625 ; 65*' 1 ',)*-' 6,)*-' ,)*' ?*2,1 ; .' 1 '6// ')18*+*-' 86.' ,)6, ' =*>; / 6-' 4-6.>1C B*8 .)' =) /1.1=) ' 8) >)' .=-625' -1?' 6' ? L, ; -*' 1 ' : *//*2 .?' 620' - *2,6/ .?' 620' 8) >)' =/6 *0' .; >)' 6' =-1? 2*2, ' =6-, 62 , %' ' : +*' 0 + . 12.' 1 ',)*' > , ' . ,; 6,*0' 12' ,)*' */,6' M,)*' . ,*' D*.,' 606=,*0' 1-' 26+ 56, 12' 620' >1? ?*-> 6/ =; -^ =1.*.X' 8*-*' 1>>; = *0' *L>/ ; . +*/ ' D 'B*8 .' MB1.*=) ; .7' & 'L + ' KX% ',)*' .:*6' 5/18 _5' 6>>1 ; 2, ' 2' ,)*' B*-; .% (6/?% I1$ +!' SXT' 620' 8)*2 ' 2' >12.*_ ; *2>*' 1 ',)*' - 62' 1==-*.. 12' 2' 6/*., 2*' 2 6. ',)*' .12' 1 ',)*' /6.,') 5)C=- *.,' 1 ',)*' / 2*' 1 'B1.) ; 6') 60' *0' ,1' 5 =,' 8)*-*' ,1/*? ') /1?*,1-' 56+*') ?' 62' *L,*2. +*' 0 .^ ,- >,' 2*6-' : */ 1=1/ . '6' 2*8' ,*?=/*' M *,)')12 1X') 60' 6- .*2' 6, ' *12,1=1/ .' MB1.*=)% & 'L 'N' K V%X ' % % Q '8) >)' D60*' 6 -',1' -+6/',)*' (*?=/*' 1 'B*-; .6/*?% ;>) ' 20**0' 86.',)*' 2 /; *2>*' 1 ',)*' B*8 .% 2' 5 =,' 8)1?')$1' M %' SX' 2') .' , ?*' *., ?6,*.' 6,' 6' ? /$12') 6, ' ,) .' 2*8' ,*?=/*' 86.' ,-*6,*0' 8 ,)' >12. 0*-6, 12' *+*2' D ' ,)*' 62) *0- ?' I1 "' R' 1X,' ()*-' >12^ 0 , 12' ,' ?6 ' *6. / 'D*' 2 *--*0' 86.' /1 ; - .) 25' D1,)' ; 20*-' ,)*' */*; > 0 62' 620' : 1?62' .86 ' D ; ' ; 20*-' 6/ 5 ; /6 ' 620' ., // ?1-*' =20*-' *-1' MB1.*=)% 1' ' Q' X' ,)*' / 9*' ,)*-' D *,)-*:' 2' 1,)*-' =6-., ' 1 ',)*' 1?62' *?=-*' .; *-*0' 5-*6,/ ' -1?' . ; 00*2' 1 ; ,D ; -.,' 1 ',)*' =1=; /6>*' =-1?=,*0' 620' >1 ; 2,*262>*0' 2' .1-.,' 2.,62>*.' D ',)*-' -; /*-.% -1?' 5 =,',)*' 6.=1-6' .=-*60' .1 ; ,) 86-0',1' D .. 2 6' 8)*-*' .1?*' -*?262,' 1 ' , ', // *L .,' ; 20*-',)*' 26?*' 1 ',)*' @ + 1' 620' 2' 6// / 9*/) 110' *6. , 86-0',1' -6D 6' M< .) 26' $"I1 '+ ' X' 8)*-*' 8*' 20' 6' B*8 .)' 9 2501?' M *?*2X' 2' ,)*' .1 ; ,)' M(6D6-' 6=% /+% 0*' 6>AW &P ! ' N& ! ' ! '=% QX' 620' 6' /6-5*' B*8 .)' .*,,/*?*2, ' M)6 D6-X' 2' : *A6[' 2' ,)*' 21-,)% ** . ! M>%X' 21,)*-' =- 2> =6/' .*>, 12' 1 ',)*' .:*-. 12' 8*' 20' 2' - 6' 8) ,)*-' ,)*')60' D**2' D-1 ; 5), ' >) * / ' D ' */*; >; .' >6,1-' 1-' >621-' MB1.*=)% & '+ 'N RX% 8)*2',)*' D6,,/*' 1 ' =. ; . ' % % N ')60' =; ') ?' 2' =Z 0 .*.. 12' 1 ',)*' >1 ; 2,- *.' 1 ' - 6' -1=*-' 662' /1' 6' <*.1=1,62A 6' *-. 6') ?2 > 6' 6/*., 2*' >,+!' ,'20>-') .' 620') .' .; >>*..1-. I' 1.,*- 25' -; /*',)*' -*6*2*0',)*') 5)*.,' 0*5-**' 1 '=-7=*-. , 'I ' >%X' =- 2> =6/ ' 6,' 2, ^ 1>)' 12' ,)*' -12,*.' 620' */*; > 6' 1 ;' ,)*' / 5- .' 620' 1,)*-' 5-*6, ' > , *.' 1 ; 20*0' D ' */*; >; .' 620' ,)*' =- +^ /*5*.' 8) >)' ,) .' 9 25')60' D*.,18*0' ; =12' ,)*?' 8*-*' >12.,62,/ ' >12 -?*0' ; =' ,1' ,)*' , ?*' 1 'B1.*=) ; .' I& ' L 'N X% 2, 1>) ; .' = =)62*. ' 1-' = ?62*. ' 6.')*' 86.' >6//*0' .**?.' ,1')6+*' D**2' ,)*' 12/ ' A7- 62' =1,*2^ ,6,*' D ' 8)1?' ,)*' - 62' 0 .=*-.*0' ,)*?.*/+*.' ,)-12 ; 5)^ 1 ; ' ,)*' ./620.' 1 ',)*' %7 5*62' ,1' <6>*012 6' ,1' 4-**>* 7' 8)*-*' ,)*' 2)6D ,*0' >) * / ' ,)*' .*6=1-,.' 620' ,)*' ?6-,.' 1 ',-60*' 620' >1? ?*-> *% ** # ! MO%X' /,)1 ; 5)' ,1' ; .*' ,)*' 81-0.' 1 'B1.*=) ; .' I& ! L +' 'KX' ,)*')6D ,6D/*' 5/1D*' 86.' .1' ; // 1 'B*8 .' ,)6, ,)*-*' 86.' .>6->*/ '6'>1-2*-' 1 ',)*' 1?62' *?=-*8)*-*' ' ? 5), 21,' D*' 1 ; 20 ' 6' .,6,*?*2, ' ; // '>12 -?*0' D ' ,)*' 2 ; ?D*-' 1 ' 1?62' 0*>-**.' ..; *0' ,1' +6- 1 ; .' =6-,.' 1 ',)*' *?=-*' 1-' ,1' ,)*-' =-1,*>, 12' MB1.*=)% & ! L +' '._%X ' ,)*-*' .' E!*' , 21' 7 D.1/ ; ,*' =-11 ' 1 ' ,)*' -')6+ 25' 6>_ ; -*0' 62 ' L*0' .*,,/*?*2, ' 2' ,)*' ?*,-1=^ 1/ .' ..*/ ' 62, *- 1-' ,1' ,)*' ,?*' 1 ' 1?=*' 8)1' 6 .*-' ,)*' ,69 25' 1 'B*-; .6/*?' >6-- *0' D6>9' 8 ,)') ?' -672 ' B*8 .)' >6=, +*.' 620' = .12*-.' ,1' 1?*' % % SN% ()*.*' D* 25' 5*2*-6// ' * ,)*-' 6//18*0' ,1' -*, -*' -1?' ,)*' .*-+ >* 1-' -62.1?*0' ,)*' 2*0')*-*' 6.' 620' 2' , ?*' 1-?*0 'D ',)*' 600 , 12' ,1' ,)*-' 2 ; ?D*-' 1 ' -*.)' ?? 5-62,.' -1?' . 6' 620' 4-**>*' 6' /6-5*' 620') 5)/ ' 2 /; *2, 6/ >1? ? ; 2 ,A ' 8) >)' 1>>; = *0' >) * / ' ,)*' (-62., D*- 2*' =1-, 12' 1 ',)*' > , '.15*.)*-' 8 ,)' 62' ./620' 2' ,)*' (D*-% ()*-' =-1.=*-, '5-*8' 8 ,)' ,)*-' 2 ; ?D*-.' 620' .; *-*0' D ; ' .)1-,' 2,*--; =, 12.' ; 20*-' (D*- ; .'M ; *,% - !'>% NSX% ()*' *L=; /. 12' ; 20*-' /6 ; ^ 0 ; .' M ; *,% !' K X' 620' 6/ 5 ; /6' MB1.*=)% & 'L+ 'SX

.'>12,-60 >,*0'M 1' 6..'/L 'ST -1. ; .'+ 'SX ()* ')*' /*0' >6=, +*' ,)1.*' 8)1') 60' /*0' 1,)*-.' >6=, +*I ' D; /,' 2; ?*-1;.' . 26515;*. ' 1;20*0' .>)11/.'M*+*2' 6 M =) +' QX' .' 6' 5;-6, +*' 6//;. 12' ,1' ,/ *' + >,1- ' .)1-,C/ +*0' 6>60*? X' ?60*' =-1.*/E a*.' 620' *2A1A7*0' 8)>)' 1;-' D/*..*0' *0** ?*-' 6>) **+*0' 1+*-' . 2',)*' ,)*' ;// 60+62,65*.' 1' : 1?62' > , [*2.'M 2',)*' 0*>-**.' 81-/0' 0*6,) ' 620')*// 'D ' 8) >)' 1;-' -; 2*0' -6>*' 6-*' ,)* ' 6-*' ., /*0' - O ' (-1dV-6,' - % D-1;5),' 2,1' D12065*' M .6 L+ ' QT 1?+ ' K T' (1;06,1 'B1.*=) & !' L + ' X ()*' >122*>, 12' D*^ 46/ +' K T' : *D ' K' *, R T' 1/ ' X **' ,8**2',)*' 1?62' .=*-. 12' 620' 6/*., 2*' 86.' +*- ' > . ! >/1.*' *.=*> 6// ' .1' /125' 6.',)*' 1;25' =- 2>*.' 1',)*' 6= ;>) 2 /;*2>*' 1',) .' : *-10 62')1;.*' 8*-*' 2' 6' ?622*-' 1D/ 5*0',1' / +*' ' 1?*' ()*-*' .'21'01;D,',)6,',1',)*' 2 /;*2>*' 1',) .' =18*- ;/ D10 ' 8)1.*' 2; ?D*-' 1- 5 2' .,-625*' - ,*,' <6,,*1' 0' 6.>) ' 62' D ?*+?62', 2*' - 6-' 1',)*' >12^ 620' >;.,1?. ' 6,,-6>,*0'21' .?6// .)6-*' 1 '=;D/ >' 21, >*' +*2,' 1' < 12,*' 6/>12*' 2',)*' 0;>) ' 1' $-D 21' 2' ,^ M(6> ,;. ' ;*,12 ;. ' >*-1'B;+*26/' : 1-6>*' <6-, 6/' 6/ ' 86.' ,)*' 1;20*-' 1',) .' -* 1-?*0' 1-0*-' 2' K ' B;., 2 62' !'% 8' 620',1',)* -'6>>*..',1',)*' ?^ -*,*20 25',)6,',)*' -62> .>62.' 8*-*' 21' /125*-' .,- >,' =*- 6/' >1;-,' 86.' 0;*',)*' 6?*/ 1-6, 12' 1',)*' >120 , 12' 1//18*-.' 1' ,' -62> .' 6.',)*' 81-*' 6' 0 *-*2,' >18/' 1',)*' B*8 .)' =*1=/*' ,)-1;5)1;',*+*-' >1;2,- ',1' 0 0' 21,'/*,',)* -' D*6-0' 5-18 '620')60' ? , 56,*0',)*' +18' 8)>)' ,)*' .86' 1' 1?*' *L,*20*0 ,' 86.' 6/.1' 1 '=1=*-, ')*' 8 ,)'%,)*'=1=*.'=*-? .. 12' 620' 6>>1?^ ,)-1;5)' 1?*>) * / 'D1,)'D* 1-*' 620' ., // ?1-*' 6 ,*-' =62 *0' D ' .1?*' 1,)*-.' -*, -*0' 2,1' 6' .1/ ,< ')*-? ,^ ,)*' 26/ 0*.,-;>, 12' 1 'B*-;.6/*? ',)6,',)*' .,-*6?' 1' 65*' 1',)*' 6?6/01/' 2*6-' <6..6> 1 (/*' -* 1-?*0' B*8 .)' *? 5-6, 12' 86.' =1;-*0' 1+*-',)*' 5-*6,*-' =6-,' ?S29.' 8*-*' ?;>)'=*-..*>;,*0' D ',)*' -62> .>62.' 8)1' 1' ;-1=*' ',)*' 81-/0C8 0*' 2 /;*2>*' 1',)*' B*8 .)' 0-1+*',)*?' -1?' =/6>*' ,1' =/6>*' 2' KQ 1=*' /*?^ .=*-. 12' 12')- ., 62, ' 8)>)'600-*..*0' ,.*/' -.,' *2,' 6//18*0',)*?',1' =;',)*?.*/+*.' ;20*-',)*' 1 '6//',1',)*' 1-?*-'6.'6'D10 'M >,.'L ' ST 'R' X' 1D*0 *2>*' 1',)*' 12+*2,;6/.' 620',1',69*',)*', ,/*' 1' 6-,)*-'?*2, 12' 8 // D*' 1;20' ;20*-',)*' 6-, >/*' (! - 6-.' : *-? ,' < 21-.' 8 ,)' ,)*' -5),' 1' */*>, 25' 6' ()*' ?1.,' ?=1-,62,'1-5 26/ 6;,)1-, *.' 12',)*' .^ + >6-' 5*2*-6/ ()*-' -.,'*.,6D/ .)?*2,' 86.' 6,' 1/0' =*-. 12' 6-*' B1.*=) & !' L + ' T L + ' T' &* !' 'ST' ?*2[12*' 2*6-' 6?*-21 2' KR ,)*' ')*/0',)*' -.,') /1' !' :' 0 @ ! -629*/)6.'>1/^ 5*2*-6/ >)6=,*-' 6,' /+6> 26' 620' 0-*8' ;=',)*' -;/*' 1' /*>,*0',)*' +6- 1;.'=1 2,.',15*,)*-' 2' 62' *L)6;., +*' *.^ ,)*' 2*8' 6..1> 6, 12' 8)>)' -*>* +*0' 6/,*-6, 12.' 620' .6 ' 2') .' " * $! *>) Q N' =' RC N' RC 600, 12.' 2' N NS' 620' ' *2A1 2.' 6?125' 1,)*-' ' 1?='B1.,'F +!' !'D "!' =' NNS' N T' 86/0' ,) 25.',)6,',)*' 6=;>) 2.'.)6// =*- 1-?'0 + 2*' .*-+ >*' " ' !' N + ' -V f +' *' / '( ) f M 8 ,)1;,' . 25 25T',)6,',)*' .)6// .6 ') ;,' 12*' ?6..' $ 4 '$ ' ' % !=1 !' ()*' *L,*-? ^ *6>)' 06 ' 2',)*-' >12+*2,.'T ,)6,',A *E' .)6// 1D.* 7 *' 26, 12' .;,>-*0' D ',)*' B*8 .)' 2)6D ,62,.' 1' 6/*., 2*')1;.'-' 1-' ?*2,6/ =-6 *-' ?1-2 25' 620' *+*2 25' 06 .' ;20*-',)*' 1?62.' 6-' D*,,*-' 07.*-+*.',)*' 26?*' 1' 1-' 0 .> =/ 2 25',)*?.*/+*.' 620' 06 .' 1' ./*2>*T ,)6,' >6=, + , T 1-' 6 ,*-',)*' ?6..6>-*' 1' >1;2,/*..',)1;^ .620.',)*' >6=, +*.' 8*-*' -*0;>*0',1' 6' -*6/ D12065*' >>1-0 25',1' B1.*=);.' 2').' 0*,6 /*0' 6>>1;2,' M 6-' *.=*> 6// '+ 'R' NX' '?*' */ 2',)*' .*5*' 1' ..;' 620',)*' >)6/ >*.' 1',2' 1=*' 6;/ ' ' KS' B*-;.6/*?' D ' (,;.' 620' R ' 8*-*' >6=,;-*0' 2',)*' 56+*',)*?',)*' 26?*' 1' % " ' ' ' ' ' ' ' ' 8)1/*' 86-' ',)*' /6,,*-' 2;?D*-',)*' 5-*6,*..' =6-,' 1' 620' .;D&*>,*0',)*?',1',)*' + .,6, 12' 620' >1-^ 8*-*' 0 .-D;,*0' 6?125',)*' =-1+ 2>*.' ,1')*' D;,>)*-*0' -*>, 12' 1',)*' 12+*2,;6/.' 2',)*' .6?*' *6-',)*',81' 2' ,)*' 6?=) ,)*6,-*.' 1-' >6.',)*-*' ,1' 8 /0' D*6..T' 1;20*-.' 620' -..' + >6-.' 5*2*-6/ 1',)*' 1-0*-' <6,,*1' 1,)*-.' 8*-*' 011?*0',1' 81-9' 6.' =;D/ >' ./6+*.' 2' 5 =,' 0' 6.>) ' 620') .' - *20' ;01+ >1' 0' 1..1?D-12*' 2/E7,)1.*' ;20*-',)*' 65*' 1'.*+*2,*2' (+*-*.1/0' 2,1' 81-*' *L>/;0*0' -1?',)*' 1-0*-1' 0 .1D*0 *2>*' ()1' 1;-,)' + >6-' 5*2*-6/ ') *) 21' 12*' 1',)*' ?1.,' 6?1;.' =-*6>)*.' 1' ,6/ 'D*>6?*' 6' -1,*.,62,' 2' S Q' 1-' D12065*' ** A ;-. , <' K' 2' *_;6// ' 0-*60 ;/ 0*.,-;>, 12' */' ;=12',)*' -*?6 2.' 1',)*' 26^ 6', ?*' ,)*' 8)1/*' 1-0*-' 86.' 1-D 00*2',1' =->')' 620' , 12' 8) >)')60' 12>*' ?1-*' 6..*?D/*0' 2' B;0?6';20*-' ,)*-*6,*2*0' 8 ,)' .;==-*.. 12' D;',)*' -' .;D? .. 12' 620' ,)*' -* 52' 1' : 60- 62' M ' NNX' 8)>)' 12' 6.I.;.') ;?D/*' =*, , 12.'6+*-,*0',)' 0625*-' -1?',)., .', ?*' >12> .*/ '-*/6,*.T 620' D ',)*.*' ,81' .6+65*' 86-.',)*' 06,*.',)*' 0*+*/1=?*2,'1',)*-' =*>;/6-')6-6>,*-',)*-' B*8 .)' =1=;/6, 12' ?;.,')6+*' D**2' * *>,;6// '*L, -=6^ -6= 0'.=-*60'620'5-*6,' 2 /;*2>*' 2',)*' 1? .)') ;->) ,*0' -1?',)*' : 1/ ' 620' ,.*/ ' 6'-*.;/,' 8)>)' 0 0' 21,' .*+*-*' 6.>*,> .?'6'0*. 52*0' 2*5/*>,' 1' ?,)' ? 20' 1//18' -1?',)*' 6D /12 62' >6=, + , N ,*-86-0' 620' D10 ' *=0' 6' >16-.*' ;>22 25' */1_;*2>*' ?60*' 6' 0-*6- ' =*- 10' 1' ,**2');20-*0' *6-.I' 1==-*.. 12 ,)*?',)*' 6+1-',)*' >6=, + , ' 1-' =*-^ 7>-;.)*0' 2' ;-1=*' 6// 8)1' D1-*',)*' 26?*' 1' .-6*/')6=.' .1?*, ?*.' / ,*-6// ',)*-' =1.,*-, 'M [-6' +' X)/0-*2' 1',)*' >6=, + , J' .' 6' >1?212' 5;-*' 1' LL L' X' ,;-2D6>9JMU*=) K X'1-' D-25656 2!' .=**>)'0*21, 25',)1.*' 8)1' 8*-*' 2' >6=, + , ' 1-' =*-^ M [*9 L+ ' NX ,)*'>6=, + , J' 6-*' 5;-6, +*'=)-6.*.')6=.' .1?*, ?*.' / ,*-6// ',)*-' =1.,*-, 'M [-6' +' X LL L' X' ,;-2D6>9JMU*=) K X'1-' D-25656 2!' 6/ -* *-- 25',1',)*' B*8 .)' 26, 12' 2'D12065*' 620',)*-' M [*9 L+ ' NX ,)*'>6=, + , J' 6-*' 5;-6, +*'=)-6.*.' -*, ;-2',1' 62662 '. ? /6-'*L=-*.. 12' .';.*0' 2'-*^ 6/, 12',1' 20 + 0;6/.'MB1D'L/;' Xa '()*' 1-0',;-2*0' 6>>1;2,' ,)*' ?.. 126-*.' ,)*' >6=, + , ' 1 'B1D J' ' *)1' -*/*6.*0') ?' -1?',)*' 2' -6[/' 1251' 6-D6- ' 7 ;2;.;6/.;*- 25.' 620' =*-=/*L , *.',1' 8)>)')*' D60' 5 =,' 620',)*' 6..% D**2' 2' D12065*' 620' >6;.*0') ?',1'-*A1>*' 656 2' 2' 2' Q Q,)*' 1-0*-')60' NR 6=;>) 2' (,129' -,)1;' ,)*' 6+1-' 1' 410' : *' /*0' >6=, + , ' >6=, +* J' 1- <, ; .+1'L' .31* - +1' - /169

' + >6- 6,*.' 5*2*-6/' '% " ' 'C8 ,)' 6D1;,'
N ' ?*?D*-.% ' =-1+ 2>*' ? ; .,')6+*' 6,' /*6..,' '
>1?=/*,*' >12+*2,.% : 1 ; . *.' 8 ,)'/*.' .,)62' 1 ;.' ?129.'
6-*' >6//*0' ! ()*' 5-*6,*.,' 2 ; ?D*-' 1 '% 9
'86.' ;2, /' Q R' 2' ,6/ T D ; , ',15*,)*-' 8 ,)'1,)*-'
?126., >1?2?;2 , *.' 2*6-/ '6//',)*' >12+*2,.' 1',)*'
6=;>) 2.')6+*' . 2>*' D**2' .;==-*..*0'D ',)*' 51+*-2^
?*2,'1',)*'9 2501?'1 ' ,6/ % ,')6.'6/.1'>12+*2,.'1-
-*. 0*2>*.' 2' -62>*' 8 ,[*-/620' ;.,-6' -;.. 6 '
.*+*-6/' 1,)*-' 4*-?62' ..6,*.' */5 ; ?' : 1//620' -*^
/620' 25/620' 1/620'(;-9* '4-**>*' 20 6',)*' * ^
>)*//*.'620' 1;,)' ?*-> 6% 2' ?1.,'1',)*.*' >1;2^
,-*.',)*' 2; ?D*-'1'>12+*2,.' .'12',)*' 2>-*6.*% ()1'
'M8 ,)'/*..,)62' 1;-'>12+*2,.X6-*' 2' -*/620'
-16, 6' ;>>6'620' & *.,=)6/6% ()*' /6,,*-'8)>)'
>1?=-.*.' -;.. 6' : 621+*-'620' : *..*C 6-?.,60,'
86.'*.,6D/.)*0'2' Q ' ()*' -.,'>12+*2,'2'6 (
86.' 1;20*0' 2' Q Q' 2' .>1;2,' */0 25% ()*'/= '
' '8,)'*= .>1=6/A;-.0>, 12'6-*' 2' (;2.'
D .. 26' 6,26' 1?D6 '620' 5-6% 2' 1;,)' ?*-^
>6',)*')6+*'.1?*-*. 0*2>*.'620'6-*'=*2*,-6, 25'?1-*'
620' ?1-*' 2,1',)*' 2,*- 1-% D1;,' '?*?D*-.'6-*'
*?=/1 *0'6.' 1-* 52' ? .. 126-*.'620',)*-7' .'6'.*?^
26- ' 1-'=-*=6- 25'>)1.*2' 1;25' 6=;>) 2.' 1-' 1-* 52'
? .. 12.' 2' 1?*%
()*-*' .'/9*8 .*' 62' 1-0*-' 1' 6=;>) 2' 2;2.'> % =
" '1-' % 8'6/.1'92182'6.'O ' '" ' $C 1'
2., ;,*0'D ' <6-6' 1-*2[6' 1256',)*' 8 018'1'6'21^
D/*' *6=1/,62% ()*-' -.,'*.,6D/.)?*2,'86.'6,' 6^
=/*.' 2' NQ' 80*2',)*',119',)*',)-0' -;/*' 1' ,%
-62>.% ()*')18*+*-'.112' ,,*0',)' 1-',)*'
?1-*-5 0'-;/*'1',% /6-6% ',)'1-0*-'12/'6'*8'
>12+*2,.'6-*'/*,'?1.,'1',)*?' 2',6/'620' 8 ,[*-^
/620'8,)'6'*8'2' -62>17' 6+6-6'620' 1;,)' ?*-^
>6% **'& '$ '+ !' '$!'@*(=
(' ' % ' % 'M ;50% NKX' &600 25'
& (' ! ',% L+ T' 1)-'? "!' " =
1' "' 1' 'N Q%

6=;>6,'1-' /$ 'd M %X' '.*>,'8)>)'6-1.*'
6D1;,' % Q '26?*0' -1?'6'>18/1-'>6=' 8)>)',)*'
81-*'6.'6'D605*% ,'86.'1;20*0'D '12*' ;-620''-*^
=;,*0',1')6+*'D**2'6%>6-=*2,*-'M1,)*-.'.6 '6'D;,>)*-X'
8)1'=;D/.)*0',)6,',)1'7 7-5 2')60'6==*6-*0',1') ?'
620'5+*2') ?')*-' ?65*'620',)6,'1')*-' 12'8,)'
3,) .' 2.>-=, 12a' '6?D'1'410',)6,',69*..'686'
,)*'.2.'1',)*'81-/0'5-62,';.'=*6>*%J'600 25',)6,'
.)*0-*>,*0')?',1',69*',)1'?651',1',)*'D.)1=' 1'
; ' 2'1-0*-',)6,')*'?5),'1-?'6'.1>*,'1'6//',)1.*'
8)1'0*. -*0',1'-*.,1-*'=*6>*' 2'>);->)'620'.,6,*T 8)1'
.)1;/0' 2',19*2'1',)*-'D*/125 25',1'.;>)'6'.1>*,'
8*6-'6'8),*')110'1-'>6=;>)*'8,)'6'/*60*2'?65*'
/9*',)*'.*>,% ()*'8*-*'=;,'0182'D ' :;51'D.)1='1'
;L* -*% MK%X' 1?*1',)*' & >/ ,*.' 2' 25/620'
6/.1'1/X,6 2>0',)*'26?*'1' % '6D1;,',)*'*6-'
NQ 'D*>6;.*',)*'-* ;.*0',1';2>1+*-',)*-')*60.'D^
1-*',)*':1.,%'<1.)*?' +!'# !'>*2,'L '=,% '>)%
+'g T *-5*-''' ' -""" 1' 'NN %

6-% **'8 '4 'T ' !

6-6'M1-'1 5 3'B1.*=)'.12'1' ?*12 6-6'
M +%X'6'>*/*D-6,*0'B*8.)'>1?*?*2,6,1-'12',)*' %(%'
/+*0'2',)1'21-,)'1' -62>1',186-0',)*'*20'1',)*'
/+*2,)'>*2,;- % 1//18 25',)*'*L6?=/*'1')..';2-
,*'<*26>)*?'D*2C)*/D1'B1.*=)' 6-6'6D62012*0',)*'
6//*51->6/ ?10*'1' 2,*-=-*,6, 12'1'8))>)'). 182'
6,)*-'86.'6'5-*6,'0* *20*-'620'0*+1,*0') .',6/*2,.',1'
6'.?=/*'620'5-6?6, >6/ 2,*-=-*,6, 12'1',)*' D/^
>6/,*L,% :.'>1?*?2,6-*.'8)>)'*L*20'1+*-'2*6-^
/',)*'8)1/*' /0'(*.,6?*2,'6-*'0.,25;.)*0'1-'/15^
>6/'.*_:*2>*'620'/;>0'0>,12'D;,'1'?1.,'1',)*?'
-65?*2,.'12/')6+*',);.' 6-' D**2'=-2,*0% :'.
5/1..*.';=12' 6.) .'>1?*?2,6-'12',)*' *2,6,*;>)'
)6+*'?1.,/'D**2'=-2,*0" '4*5*-'
>. "!' +' NQC ' \ ,;,,5' QNRh' T .**').' ; '
* !' '=% ' \ D% Q hX'620'.1?*'1',)*?';20*-

,)*', ,/*' 2') .' N7H' `HNN'M -*./% Q X
620' " "'M *=[5' Q X% -65?*2,.'1')
>1?*?*2,6-'12' I *-1=7ST M /GZ KN' 6-*'5+*2
D ' *' 1..' 2') .' N ' 'M 6-?6' Q X'T
!' *1=1/0' ;9*.' M ./25*2' Q SXT
D '4*5*-'M -*./% Q X% -65?*2,.'1'
,)*'>1?*?2,6-*.'12'6 " ' "'620' '
)6+*'D**2'=;D/.)*0'D ' -% 01/=)'B>// 2*9'M *=[5'
Q X% ()*'>1?*?2,6- '12' ')6.'D**2'
='2,*0'2' 6=/*.' Q '620'-*=-2,*0'2',)*'>1//*>, 12'
M<*,[' Q RX% ()*'>1?*?2,6-'12'D '
.'-*=-2,*0'2' -629* .' " ' '?+" '
' ' " ' 'D ' + 'M Q SC QX% :.'>1?'C
?*2,6-A'12' '86.'=;D/.)*0'2' -*./6;' QS % **'
;-.,';" 'D (' ' T ,,1' %%' %

6-6' ?*12'D*2C)*/D1'6/.1'>6//*0' % ?*12'
)60C 6-.)62'6'>*/*D-6,*0'B*8.)'>1?*?*2,6,1-'/+*0'
2',)1'*/*+*2,)'>*2,;- ' :*'86.'6'D-1,)*-'1',)*'
>*/*D-6,*0'<*26>)*?' D*2C)*/D1'620' -*>*+*0',)*'
26?*' 6-6'),)*' . 26515;*' 1-') ./*..12'12
,)*' 6DD6,)'620',)*'26?*')60C 6-.)62' -1?') .'>1/^
/*>, 25'620'*L=/6 2 25'MX 77IH',)*'<0-6.)?% 6-6'
.',)*'6;,,)1-'1',)*'>*/*D-6,*0'D + ' 6'>1/^
/*>, 12'1'<0-6.)?'12'6/?1.,'*+*-.*'1',)*' /0'
(*.,6?*2,% :*'D-1;5),',15*,)*-'6'>6,*26'1',-60^
,126/*L=1. , 12.' -1?';=86-0'1' ,'0 *-*2,'81-9.'
1'6//'65*.'?62AI7 1'8)>)'6-*'1'5-*6,'+6/;*% (*2'
0 *-*2,'*0 , 12.'1',) .' 81-9'6==*6-*0'D*,8**2' K'
620' Q T 12*'1(,)*'D*.,'620'?1.,'>12+*2*2,' .',)6,'
=;D/.)*0'6,' -629 1-,'12',)*'<6 2*' SQ ' 1/1% 1H'
6=6=1-,' 2',)*' :*D-*8'622;6/>6//*0') ' " ('R
+ ' '*,>%X T U;2[' ' ' ' ' =" '
N ' D /I%!'KR CN NX' ,* 2.>)2*0*-' [76C
$' " ' ' ; " ' ;
M *-/2' Q KCS '>1/% KS 'KS 'T ,,1' %' ' X%

6-6D67 /12'I< % ** ' +% -% ` 6V76> 8-'
;/5%)81'6'26?*'5+*2'M' .0-' L' N X'6.'
12*'1',)*' .12.J'1'<662'M 62X',)6,'0+1->*0').'
4*2,/*' 8 *' 6 ,*-',)*'*L /*' 620d' 6==6-*2,/ ' >1--*^
.=120 25',1',)*' ,%2; 'M % +%X'1',)*' :*D-*(A',*L,'
M [-6'd'N X'6/,)1;5)',)*/'-,' .')*-*'5-*6,/'>1--;=,%

6-6>6//6' 1- $' M=-1=*-/' $'
$! $ ' $' 8 $ 3'6' 1?62'*?=*-^
1-% :*'86.'.12'1',)*I>?=*-1-' *=, ? ;.' *+*-;.'
620'86.'D1-2'6,' 12' % % QQ% ()*'26?*' 6-6>6//6'
2*+*-' 6==*6-.' 12' ?*06/.'D;,' 86.'6'2>926?*' -1?'
).' /125C)110*0' ,;2>' ?60*' 2',)*' 6.)12'1',)*'
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,12')1'D*.,18*0' 1?62' >,[*2.)=' 12'6//) .' -**'
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greater amount of taxes on releases and heritages, which were paid only by citizens. In his campaigns he imitated at one time Alexander, at another time Sulla; while his main object was to oppress and exhaust the provinces, which had been in a great measure spared by the tyranny of former emperors. In 217 he was assassinated, at the instigation of Macrinus, prefect of the Prætorians, by one of his veterans named Martialis, on the 8th of April, 217, on the way from Edessa to Carrhæ. Historians paint the life of Caracalla in the darkest colors. Among the buildings of Caracalla in Rome, the baths—Thermæ Caracallæ—near Porta Copena, were most celebrated, and their ruins are still magnificent." Caracalla, cruel to mankind, was yet indifferent to religion, and during his reign no new persecutions were devised against the Christians. Spartianus (*Vita Caracalli*, i, 707) tells a story of his being greatly affected, at seven years of age, on hearing that a Jewish boy had been punished for his religion. From a passage in Tertullian (*ad Scapulam*, cap. 4) it is inferred that Caracalla had a Christian nurse.—Chambers's *Encyc.*; Lardner, *Works*, vii, 310–312; Gibbon, *Dec. and Fall* (ed. Milman), ch. vi.

Caraccioli, Galeazzo, marquis of Vico, one of the earliest and most distinguished followers of the Reformation in Italy. Born in Naples, in 1517, of a noble family, which had given warriors to the field and cardinals to the Church, he began life with the most brilliant prospects. Married at twenty to Vittoria, daughter of the duke of Novera, he had by her six children. In 1541 he heard Peter Martyr, and after a long and painful investigation, in spite of the distressing conviction that he would have to leave family, friends, home, and wealth in abandoning Rome, he became a Protestant, and in 1551 escaped to Geneva. His father, his uncle cardinal Caraffa, his wife, and his children sought for many years to change his purpose, but in vain. In Geneva he acquired the entire confidence of Calvin, who dedicated to him his Commentary on 1 Corinthians (edit. *Tholuck*, p. 205). He died in great peace, 1586. His life, by Balbano, will be found in the *Museum Helveticum*, viii, 1748, p. 519; and, abridged, in Gerdes, *Specimen Italiæ Reformatæ* (Lugd. Bat. 1765, 4to). See M'Crie, *Reformation in Italy*; Herzog, *Real-Encyklopädie*, ii, 574.

Caraïtes. See Karaites.

Caramuel (*Juan de Lobkowitz*), a Spanish theologian, was born at Madrid, May 23, 1606. He became a Cistercian, and after several preferments, among which was the abbey of Melrose, in Scotland, was made vicar general of the archbishopric of Prague. When the Swedes, in 1648, besieged the city, Caramuel, forgetting his episcopal character, set himself at the head of a body of ecclesiastics on the battle-field. His services were rewarded by the emperor with a collar of gold. In 1657 he was made bishop of Campagna, in Naples, which he resigned in 1673, but afterward became bishop of Vigevano, in the Milanese, where he died, Sept. 8, 1682. He was "a man of vast but ill-digested learning, with an ill-regulated imagination. His moral theology (*Theologia Moralis*, Louvain, 1643, fol.) is so universally decried that even Romanists have censured it. He taught that the commandments of the Decalogue are not immutable in their nature, and that God is able to change or dispense with them, as in cases of theft, adultery, etc.; he also held that the smallest degree of *probability* justified any criminal action." A list of his numerous writings (37 volumes) is given by Nicolas Antonio, *Bibliotheca Hisp. Nova.*—*Nouv. Biog. Générale*, viii, 666.

Caranza. See Carranza.

Caravan, the Arabic name for a body of pilgrims or merchants travelling in the East. Orientals who have occasion to journey—whether for pleasure, religion, or profit—usually do so in companies, for the sake of society as well as protection. Hence the most motley associations may take place. They often consist of hundreds of persons, mostly mounted on camels, which (including those for baggage) frequently amount to several thousands. Such spectacles are common in all parts of Turkey, Persia, and Arabia, especially through the sandy deserts. They march at first disorderly, but after a short period of practice with great regularity, mostly by night, in companies which are each kept together by a large beacon-fire on the top of its own peculiar standard. Much time is consumed in packing and unpacking; but when this confused scene of preparation is over, they travel with great uniformity (see Ezek. xii, 3) from about eight P.M. till about midnight (Luke xi, 5, 6). In the cooler seasons they journey by day, only halting for a brief repast at noon. Seven or eight hours is the usual day's stage (Hornemann, p. 150), or about 17 to 20 miles. See Traveller.

Modern Oriental Caravan.

be his covering. He is usually obliged to content himself with such cold food or fruits as he has himself brought. His outfit should therefore consist at least of the following articles: a carpet, a mattress, a blanket, two saucepans with lids, contained within each other; two dishes, two plates, etc., a coffee-pot, all of well-tinned copper; also a small wooden box for salt and pepper, a round leather table, which he suspends from his saddle, small leather bottles or bags for oil, melted butter, water, a tinder-box, a cocoanut cup, some rice, dried raisins, dates, and, above all, coffee-berries, with a roaster and a wooden mortar to pound them: all this is in addition to such more substantial provisions as he may prefer or can conveniently carry. The porter in attendance can only be relied upon to show him his chamber, and perhaps furnish him with a key. In case of sickness, however, the latter is generally able to administer simple remedies, and may even set a broken limb. — Kitto, s. v. See CARAVAN.

Interior of a Caravanserai.

Carbuncle is the rendering in the Auth. Vers. of the following Heb. and Gr. words: 1. אֶקְדָּח, *ekdach'*, only Isa. liv, 12 (Sept. κρύσταλλος, Vulg. [*lapis*] *sculptus*), some *sparkling* gem (from קָדַח, to *inflame*). 2. בָּרְקַת, *bare'keth*, only Exod. xxviii, 17, and xxxix, 10, as the third in the first row of the high-priest's breastplate (Sept. σμάραγδος, Vulg. *smaragdus*, i. e. emerald); or בָּרֶקֶת, *barekath'*, only Ezek. xxviii, 13 (Sept. ὀνύχιον, Vulg. *smaragdus*). From the etymology (בָּרַק, to *flash*), we assume that a stone of a bright coruscant color is meant. Kalisch translates it *smaragd*, or emerald, and says it is a sort of precious corundum of strong glass lustre, a beautiful green color, with many degrees of shade, pellucid and doubly refractive. Pliny enumerates twelve species of emerald. They are not rare in Egypt (see Braun. *de Vest. Sacerdott.* p. 517 sq.). 3. Ἄνθραξ, lit. a *coal* of fire, Tobit xiii, 17; Ecclus. xxxii, 5. 4. The carbuncle is thought by many to be denoted by the word נֹפֶךְ, *no'phek* ("emerald," Exod. xxviii, 18; xxxix, 11; Ezek. xxvii, 16; xxviii, 13). See EMERALD. Under the name "carbuncle" are comprehended several brilliant red stones of the clay family which resemble a glowing coal, such as the ruby, the garnet, the spinel, but particularly the *almandin*, that is, the noble Oriental garnet, a transparent red stone with a violet shade and strong glass lustre. Probably it is not so hard as the ruby, which, indeed, is the most beautiful and costly of the precious stones of red color, but, at the same time, so hard that engravings cannot easily be made in it (Rosenmüller, *Alterth.* iv, 1, 34). In the present state of our knowledge respecting the ancient Hebrew mineralogy, it is impossible to determine with precision what particular gem is denoted by either of these terms, although they all evidently were precious stones of a brilliant fiery hue. See GEM.

Car'cas (Heb. כַּרְכַּס, *Karkas'*, comp. the Sanscrit *karkaça, severe*; Sept. Θαβάζ v. r. Θαραβά, Vulg. *Charchas*), the last named of the seven eunuchs ("chamberlains") in the harem of Ahasuerus (Xerxes), who were directed to bring queen Vashti into the royal convivial party (Esth. i, 10). B.C. 483.

Carcase (נְבֵלָה, פֶּגֶר, πτῶμα), the dead body of a man or beast (Josh. viii, 29; Isa. xiv, 19; Heb. iii, 17, etc.). According to the Mosaic law, any Israelite became ceremonially unclean until the evening (and in turn rendered whatever he touched unclean, Hag. ii, 14; comp. Num. xix, 22), by (unwitting) contact, under any circumstances, with a dead animal of the "unclean" class (Lev. v, 2; xi, 8 sq.; comp. Deut. xiv, 8), or with any "clean" animal, in case it had not been regularly slain according to the prescribed mode (Lev. xi, 39 sq.). The eating of any (clean) beast that had died an accidental or natural death was still more strictly forbidden (Lev. xxii, 8; comp. Ezek. iv, 14; xliv, 31); but it might be sold as food to a foreigner (Deut. xiv, 2). Carrion was doubtless buried or burned. On the sepulture of persons found dead, see HOMICIDE. An unburied carcase (Jer. xxxvi, 30; Psa. lxxix, 3) was considered by the ancients the height of indignity and misfortune (Virgil, *Æn.* x, 559). See BURIAL. The Levitical enactments respecting all dead bodies evidently had their origin in sanitary reasons in a climate so liable to pestilence (Michaelis, *Mos. Recht*, iv, 309 sq.). On the incident of the beehive in the skeleton (Judg. xiv, 8), see BEE.—Winer, i, 2. On the allusion to the vulture's scent for putrid flesh, Matt. xxiv, 28 (Loder, *De cadavere Judaico, ab aquilis Romanis discerpendo*, Argent. 1715; Rechenberg, *De adagio Christi*, etc., Lips. 1696), see EAGLE. Comp. Wemyss, *Symbol. Dict.* s. v.

Car'chamis (1 Esdr. i, 25). See CARCHEMISH.

Car'chemish (Heb. *Karkemish'*, כַּרְכְּמִישׁ, prob. *fort of Chemosh*; Sept. Χαρμείς v. r. Καρχαμείς in Jer., but omits in Chron. and Isa., Χαρκαμείς in 1 Esdr. i, 5), mentioned in Isa. x, 9 among other places in Syria which had been subdued by an Assyrian king,

/>, 12' 1 '6'=1=*' >12,-6- ' ,1' ,)*' 1= 2 12' 1 ',)*' >6-0 ^ 26/CD .)1=.' 86.' 2; //% 620 ; /=) ; .' -* ? 6-9. ' 8 ,)' -*^ 56-0' ,1' ,)*' */*>, 12' 1 ' 4 *⁄6. ; .' ' ,) 6, ' 6/,) 1 ; 5)' 6// ,)*' >6-0 26/.' >/*-5X ' 620' =*1=/*')60' 6' +1 >*' 2' ,)*' */*>, 12 ' ,)*' >6-0 26/CD .)1=.' 6/12*')60' ,)*' - 5), ' 1 ' % 6==-1+ 25' 1-' 0 .6==-1+ 25' ,)*' */*>, 12 ' 620' >12.*>-6,^ 25' ,)*' */*>,% 12*' D ; .' >6-0 26/.' 6 *' 218*/ 5 D/*' ,1' ,)*' =6=6> % ; .' ' .**? .' , 1')6+*' D**2' ,)*' -., ' 8)1' -*. ,- >,*0' ,)*' */*>, 12' ,1' ,)*' >6-0 26/.' 12/ J' M 62012 ' 6 !' O3 U (1' .% ¾% 3 N% 7 " *J' ' % ' 2' NN ' ,)*-*' 8*-*' , 8*2^ , ' 620' 6 , .*-' ,)*' 0*6,)' 1 ' /*? *2, ' ' 2' N K' ,)*' >6-0 26/.' -*. 1/+*0' ,)6, ' ,)6, '2; ? D*-' .)1 ; /0' 21, 'D*' *L^ >**0*0% 2' N Q' 6, ' ,)*' */*>, 12' 1 ' $-D62' ' ,)*-*' 8*-*' , 8*2, C,)-**% ()*' 1; 2> / 1 ' 6./*' L*0' ,)*' 2; ? D*-' 6, ', 8*2, C 1; -' 620' , /? ' >1//*5*' , .*/ ' 6==*6-.' ,1')6+*' D**2' 6// 6/125' +*- ' A*6/1; .' 1 ' 62' 2>-*6.*' ,1' ,.' 2; ? D*-.% : 18*+*-' *1' d' . *', ,)*' *L6 ? =/*' 1 ' 6 `/6-5*' 2>-*6.*' >-*6, 25' 2' 12*' 06 ',) -, C12*' 2*8' >6-^ 0 26/. ' 2' 1-0*-' ,1' 2*; ,-6/ [*' ,)*' 1==1. , 12' ? 60*' ,1') ?' D '6' >6-0 26/ 8)1')60' 1-? *0' 6' =6-, ' 2' ,)*' >1/^ /*5*% ()*' D ;// % ' 2' ' L*0' ,)*' 2; ? D*-' 6, ' 1-, ' 620' 1-D60*' ,1' >-*6,*' ? 1-*% ; ' ,)*' >1//*5*') 6. ' . 2>*' D**2' *2/6-5*0' ,1' . *+*2, ' ? *? D*-*' ,)*' 2; ? ^ D*-' 6, ' 8) >)' ,' 86F' 26// ' L*0' D ' ,)*' D ; // ' 1 ' 1=*' L, ; . ' ' 2' QSd' . L' 1 ' ,)*. *' 6-*' D .)1=. ' , ' =- *. ,. ' 620' 1 ; -, **2' 0*6>12. % ()*' 2; ? D*-' 1 '>6-0 ^ 26/CD .)1=.' 86. ' 6, ' -. ,' . *+*2 ' D ; , ' ,' 86. ' .)1-, / ' 6 , *-^ 86-0' 6/, *-*0' , 1' . L ' 6, ' 8) >)' , ')6. ' *+*-' . 2>*' -*? 6 2^ *0% ()*. *' D .)1=. ' 12' ; 206 . ' 620' *. , +6/. ' 1 > 6, *' 6. ' ,)*' =1=*' . ' + >6-. ' 6, ' ,)*' 6/, 6-' 1 ' , % 6+ 1 ; -' 2' ,)*' >) ; ->) ' 1 ' 6, *-62 ' 1-' 6.. . ', ,)*' =12, ' 8)*2')*' 1 >^ 6, *. ' 2' =*-. 12% ()*' >6-0 26/CD .)1=.' 2' QS ' 87-*' < 6- 1' < 6, *' D .)1=' 1 ' ., 6' 620' *//*, - ' B ; / ' K ' QNK1' 12., 62, 21' 6, - [' D .)1=' 1 ' 1-, 1' 620' , % ; ^ 26 ' B ; 2*' KN QN 1' ; 5 ' ? 6, ' D .)1=' 1 ' 6/*. , - 26 ' < 6 ' R' 7 1' 2,)12 ' 65 621' 0*' [*+*01 ' D .)1=' 1 ' -6. >6, ' B62% KK Q 1' 4 -1/6? 1' 0 20-*6 ' < 6->)' Q K1' ; 01+ >1' // *- ' D .)1=' 1 ' /D621' =- / ' K ' Q % ' / . ; ' 1 ',)*' >6-0 26/C=- *. ,. ' 620' >6-0 26/C0*6^ >12.' .' 5 +*2' 2',)*' & ' ' ? " ' 620' 2',)*' 1^ ? 62' 6,)1/ >' 6/? 626>.' 622 ; 6// % % ' ()*' 0-*. .' 1 ' 6' >6-0 26/' .' 6' -*0' .1 8)>)' D ',)*' 0 ; , ' 1 ') .' >*')*' 18*.' , 1' ,)*' ? .^ ,62*' 6' -1>)*, ' 6' .)1-, ' =; -=/*' ? 62, /*' 620' 6' -*0')6, % ()*' >6-0 26/.' D*562' , 1' 8*6-' ,)*' -*0')6, '6, ' ,)*' 1; 20

6-0 26-6' : 6, %

> / 1 ' 12.' 2' K a' ,)*' =- + /*5*' 86.' 5-62, *0' D ' 1=*' 221>*2, ' % , .' >1/1-' .' 0*. 52*0', 1' .)18',) 6, ' ,)*' >6-0 26/.' 6-*' D1; 20', 1' .)*0',)* -' D/110' 2',)*' >6; .*' 1 ',)*') ; ->) ' '2**0' D*% ' 2 ; ? D*-' 1 ' . ? D1/ >6/ >*-* ? 12 *.' 6>>1 ? =62 ' ,)*' 2+*. . , ; -*% ()*')6, ' .' 5 +*2' D ',)*' =1=*' .' 182') 620 .' 620' ? 62 ' >6-0 26/.' 8)1' 01' 21, ' + . ' 1 ? *' 0 *' 8 ,)1 ; , ' *+*-') 6+ 25' -*^ >* +*0', % ()*' 12/ ' *L>*=, 12' .' 2' 6+1-' 1 ' ? *? D*-.' 1 '-1 6/')1 ; .*. ' , 1' 8)1 ? ',)*') 6, ' .' .*2, % .',)*' >6-^ 0 26/. ' 8)*2' 0-*. .*0' 2' ,)*' .6>-*0' +*., ? *2, . ' >1 ; /0' 21, ' 8*6-',)*' -*0') 6, ' 620') 60' ,)*-* 1-*' 21' 1,)*-' 0 .^ , 2>, 12', 1' ? 6-9',)*' 0 (*-62>*' D*, 8**2',)*? ' 620' =-*/^ 6, *. ' 1 ' 62' 2 *- 1-' -629' *L>*=, ' ,)* -' =/6>*' 6 ; / ' =*-? ,, *0',)*? ', 1' 8*6-',)*' -*0' D122*', I " ' % ' O8X' 8) >)' =-*+ 1 ; ./E') 60' D**2',)*' =-*-156, +*' 1 ',)*' =12, '6/12*% ()* ' 8*-*' 6/. 1' =*-? ,, *0',)*' -*0') 6D , ' D ',)*' .6? *' =1=*% 7

% -" ' $ ' 1 ',)*' >6-0 26/. ' ; 2, / ',)*' , ? *' 1 ' $ -^ D62' ' 86. ' ' D2 .' ,) 6, ' =1=*') 18*+*-' B62% / N ' 5-62, *0', 1' 6// ',)*' >6-0 26/.' ,)*' , ,/*' 1 ' 6 ' ()*' >6-0 26/CD .)1=.' 6-*' , ,/*0' 6 2 =' ! ' >6-- 65*' 620' / +*- ' .*-+62, .' 6-*' 1D/ 56, 1- ' =6-, .' 1 ',)*' *., 6D/ .) ? *2, ' 1 '6' >6-0 26/% S% @ ' ' + ' ! ' ()*' =1=*' 6/12*' >62' */*+6, *' 62 ' 12*' , 1' ,)*' >6-0 26/6, *' 8) >)') 1' 01*.' D ' 0*>/6- 25' 2' ,)*' .*>-*, ' 12. . , 1- ' ,)*' 26 ? *.' 1 ',)1.*' 8)1 ? ')*' =-1=1.*.', 1' ? 69*' >6-0 26/.' .6 25' ' @ ' : *' 6 , *-86-0 ' 2' 6' =; D/ >' 12. ., 1- ' =; , .' ' ,)*' -*0' D122*', ' 02' ,)*')*60' 1 ',)*' 2*80 C6==1 2, *0' 1' >6-0 26/' . 52. ') ?' 8 ,)' ,)*' >-1.. ' 620' >-*6, *.') ?' >6-0 26/' 8 ,)',)*' 1-?' 1 ' 81-0.' 1//18 25d' & ' ' , % ' ' ' $ ' $ '&% 2 ' ' % ' ' " 1' ' ' ' ' 1' % ' 4 ' 1' 4 ' 4 ' ' ' 1' % ' ' 1' % ' ' $ ' '% ' ' 4 '% % ' " 2 1' ' ' ' $ ' 5 ' 6 ' ' % ' " " ' " ! ' D ' ' ' ' '@2 ' ' '$% '$ 1' ' ' & % ' ' ' ! ' ' % ' ()*' /*56/' ' 1 '>6-0 26/. ' 620',)* -' -*/6, 12. ', 1',)*' =6=6/' .** ' 6-*' L*0' D ',)*' 'D ',)*' 0*>-**.' 1 ' (-*2, ' I ' % %!' ' 5 !(8 ' D ',)*' D ; // ' 1 ' L, ; . ' ' 5 '$! =- / N SQ ' 620' D ' /6, *-' =6=6/' >12., , ; , 12. % ',)*' >6212' 1 ' (-*2, ' 6. ' 6D1+*' > , *0' , ' .' 0*>-**0' ,)6, ' 6// 620' *6>)' 1 ',)*' =6-, > ; ^ /6-' 8) >)') 6+*' D**2' */. *8) *-*' 1-06 2*0' 2' ,)*' .6? *' .A? 10', 1 ; >) 25',)*' / *' 65*' /*6-2 25 ' 620' 1,)*-' _ ; 6/^ >6, 12. ' 1 ',)1. *' 8)1' 6-*' , 1' D*' =-1? 1, *0' , 1' D*' D .)^ 1=. ' ,)*' .6? *' 6-*' 6/. 1' , 1' D*' -* ; -*0' 2' ,)*' >-*6, 12' 1 ' >6-0 26/.' 1 ' ,)*') 1/ ' 1? 62') ; ->) ' ' *7*2' ,) 1 ; 5)' ,) * 'D*' 0*6>12. ' 8) 1? ',)*' ? 1. , ') 1/ ' *? 62' = 12., ' .) 6// ' 6. ' 6-' 6. ' >62' >12+*2 *2, / ' D*' 012S' >) 11. *' 1 ; , ' 1 '6/',)*' 26, 12. ' 1 ')- ., *201 ? ' 6. ') *' .) 6// /- 0 =*-^ . 12. ' >1 ? =*, *2, % 26// ',)*' .6? *') 1/ ' . 210' 2 1+*0' ,)*' .1' ? 62 ' ? 1. , ' 5- *+1 ; ' 0 >; /, *. ' 1 ',)*') ; ->) ' >6221, ' 6+1 0' >6// 25', 1' ? 20',) 6, ' 21,) 2A7' . ' ? 1-*' 2*>^ *. . 6- ' 71-',)*') ; ->) ' 1 ' 410', 62',) 6, ' ,)*' ? 1. , ' D/*. . ^ *0' 1? 62' =12, '6==/ ' *. =*> 6// ') *-*',) 6, ' . 1/ > , ; 0*I') *') ' D ',)*' 0 ; , ' 1 ') ' >*') *' 18*.' , 1',)*' R - .) ^ +*-. 6/') ; ->) ' ,) 6, ') *' , 69*' ; 2, 1') ? . */ ' ', 1' 8 , ' 6 ' >6-0 26/. ' ? *2' ,)*' ? 1. , ' . */*>, ' 12/ J' 1' D6. , 6-0 ' 21-' *>>/*. 6. , >' 8) 1') 6. ' 21, ' D**2' 6' *6-' 2' 1-0*-. ' >62' D*' >) 1. *2% 6-0 26/.' ? 6 ' D*' , 69*2' -1 ? ' 62 ' >1 ; 2^ , - ' D ; ' ,)*' =1=*') 6. ' 6/86 . ' >) 1. *2' 6' /6-5*' ? 6A1-, ' 1 ' , 6/ 62. % 2' >, 1D*-' QSS ' 1 ' R ' >6-0 26/. ' NR' 8*-*' , 6/ 62. ' D ' D -,) ' Q -*2>) ? *2 ' ' =62 6-0. ' ' 4*-^ ? 62. ' ' -16, 62 ' ' *⁄5 62 ' ' 1-, ; 5 ; *. *' 620' R - .) ^ ? 62% ()*' -629' 1 '>6-0 26/ .' 2*L, ',)6, ' 1 '=1=*' 620' ,)*' =1=*' .' 6 : 6 .' >) 1. *2' -1 ? ',)*' -' 2 ; ? D*-% 2>*' ,)*', ? *' 1 ' /*L620*-' ',)*' - 5), ' 1 '*/*>, 25',)*' =1=*' / *. ' 2',)*' 1//*5*' 1 ' 6-0 26/.% **' + / ' ()*' =1=*' 1 , *2' *? =/1 .' >6-0 26/. ' 6. ' 6? D6. . 601-. ' 620',)*' 20 ^ + 0 ; 6/',) ; .' *? =/1 *0' .' ., 0*0' *56, *' ' ! ' >6-0 26/C/*50, *' 6>, *0' D* 1-*' ,)*' -*>*2, ' 6D. 1-=, 12' 1 ' ,)*' 6=6/' , 6, *. ' D ',)*' 9 2501 ? ' 1 ' , 6/ ' 6. ' 51+*-21-' 1 ',)*' 21-,)*-2' =-1+ 2>*. ' 1 ',)*' 6=6/' , 6, *. ' 8) >)' ,)*2>*' -*>* +*0',)*' 26 ? *' 1 '/*56, 12. % ()*' >) * ' .*>^ -*, 6- ' 1 ' ., 6, *' ,) *' 1-' ? 2 ., *-' 1 ' 262>*. ' ,)*' + >6-' 1 ' 1? *' 620' 1,)*-' /*60 25' 1 >6/. ' 6->' 6/^ 86 .' >) 1. *2' -1 ? ' 6? 125',)*' >6-0 26/.% ()*-' 0 52 , ' .')*/0', 1' =/6>*',)*? ' 2',)*' -629' 1 ' ; -1=*62' =- 2>*. ' 620' . 1' /125' 6. ',)*', *? =1-6/=18*-' 1 ',)*' =1=*. ' /6. , *0 ' ,)*')*/0' > + / 6. ' 8*// 6. ' *>>/*. 6. , >6/ 1 >*. % 1-' ' % *% =6=6/ >1? ? .. 12. ' 8) >)' 6-*' ; 20*-',)*' 0 -*>, 12' 1 '>6-0 26/. ' .**' + / ! Q% U *- / ; -*% ' *--6- . ' ' ; " ' 'RR1' /* 2*-' ' ' , ! ' & 4! ' ! : ' ;00#$ ' ' ' , ' ! ' ' MB*26 ' SR ' ,1X1' *[' ' I+ !' S' & 4! ' M : * 0*/D*-5' S ' ,1X1' # ' ' " ' ' %1' ' O ' -1? ',)*' ,6/ 62' M 120% S ' 1/%X1' ; 5 ; ., ' ' + !1 ' 1' ()1? 6.. 2' N !' ' 7 ' ' ' % ' M+1/% ' >%

NXH *5*/ ; "' '& " ' 'NKRT 1/*^ ?62' " '& 4 1' >)% A ' g 4T : *-[15' # =) D % +' ' % **' 6& >& 0? 9R9 $ 'g + / !'

6-* 7 'MK' 25.'LL+ 'KNX% **' 1 '

6-* ?' M >-= A;X' 12*' 1 ',)*' 600 , 126/' 5-1;=' 1 ' */*+*2' > , *.' 1 'B;06)' M_%+%X' 2,*-=1/6,*0' D ',)*' *=C ,;65 2,'6,'B1.)'L+ ' R'620',)1;5),',1' D*' ,)*'=-*.*2,' + //65*') '6D1;,' 7')1;-' 8*.,' 1 'B*-;.6/*?' M& /.12' ' ';' 'KSQT >)86-[' '=% RS' QT 1D 2.12' * ' ;"!' 5 !'=% NS CRX' D;,' ,)*' =1. , 12' 65-**.' D*,,*-' 8 ,)' ,)6,' 1 ' 8 '4' ' M_% %X%

6-7 '(' '6' ? 2 .,*-' 1 ',)*' 4*-?62' * 1-?*0') ;->)' 86.' D1?' 2' 1-,);?D*-/620' >1;2, % 6% 2' *=,*?D*-' Q % : *' .,;0 *0',)*1/15 ' 2',)*' ()*1^ /15 >6/ *? 26- '1',)*' 4*-?62' * 1-?*0') ;->)' 6, 1-9' 6' 2' QNK)*' 86.'/ >*2.*0'620' 1-06 2*0'620' ? ?*0 6,*/ 'D*>6?*' =6.,1-' 1',)*' 4*-?62' * 1-?*0' >);->)' 2' 1-9' 6% 8)>)' =1.',)*' 1>>;=*0',//) ' 0*6,) ' =-/S' Q N% .' 6' =-*6>)*-')*' 86.' >/*6-' >1?=6>,'*6-2*.,'620'.1/*?2% 2').'?622*-'/119.' 620',12*.',)*-*' 86.' 6' =*>;/6-,' 8)>)'D*/125.' D;, ,1' *8 ' 6'9 20'1')1)/ ' 6.>26, 12' 8)>)' >)6 2*0',)*')*6-*-' 620' 68*0').' >12.>*2>*% **=' ?=-*.. 12.' 8*-*' ?60*' 8)*-*+*-')*' =-*6>)*0' 620' 1-',) .' ?1-*' ,)62' 1-' 62 ',6/*2,.' 1-'/*6-2 25')*' =1..*..*0')*' 86.' 8 0*/ '92182' 620' 5-6,* ;// '-*?*?D*-*0% : *' =1.^ .*..*0'6/.1',)*' -6-*' ,6/*2,' 1 '=-*6>) 25' 2' D1,)' 4*-^ ?62' 620' 25/ .)' 8 ,)' 6' >1--*>,2*..',)6,' ?60*' ,' ?^ =1.. D/*',1'0*,*-? 2*' 8) >)' 86.') .' 26, +*',125;*

6-* ' *' / L '.12' 1' -% // 6?' 6-* '86.' D1-2' 2' QS' 66+ .,*0') .' 6,)*-' 2') .'/6D1-.' 2' *256/' 620' 0 *0' 6,' >-6?=1-*' 2' QKK% ?125') .' &1-9.' 8*-*% ? ' ' ' ' ' ;' '' ;' ' M *-6?=1-*' Q '0+1X' ' ? ('6' *256/*.*' ,-62./6, 12' 1',)*' (' *,>% ''41-,12' ; !' ' ('.%+%

6-* '& // 6?'062' *?2*2,' 6=, .,'? .. 126- ' 86.' D1-2' ;5% ' S '6,' 6;/*-.D;- ' 1-,)6?=^ ,12.) -*' 25/620% : .' 6,)*-' 86.' >/*-9' 1',)*' =6-^ .)'620' ?6..*-' 1'6' -**' .>)11/' 2' 8)>)') .' .12' -*^ >* +*0') .' */*?*2,6- '*0;>6, 12% : 6+ 25' *6-/ ' *?^ D-6>*0' 6=, .,'=- 2> =/*.')*' 86.' 2' QN ?? *-.*0' 2' ,)*' - +*-' *2' 620'6 ,*-86-0' D*>6?*' =6.,1-' 1'6' 6=^ , .,')>);->)' 2',)*' + //65*' 1' <1;/,12% : *-*')*' 86.' 6' 0 / 5*2,'.,;0*2,'21,'12/ '1',)*1/15A7D;,'6/.1' 1'26,^ ;-6/) .,1- 'D1,62 '620' ?10*-2' /625;65*.% 2' Q ')*' -*?1+*0',1' * >*.,*-' 8)*-*')*')60' *+*- ' =-1.=*>,' 1 '6' ;.* ;/620')6== '/ *% ;',) .' ? 20' /125' 1>>;' = *0' 8 ,)',)*' 0;, '1' ? .. 126- ' *L*-, 12.' 6?125',)*' 3)*6,)*2' 81;/0' 21,'6//18') ?',1' 20;/5*',)*' =-1.=*>,' 1 '-*?6 2 25'6,')1?*% ()*'>6;.*' 1' ? .. 12.' 86.') .' 6+1-,*' ,)*? *' 620')6+ 25' 6,',)*' ;-5*2,' -*>1?^ ?*206, 12' 1 ') .' - *20.' ;//*-' /620' 620' ;,>/ *' 1' /2> ' 0 -*>,*0' =;D/ >' 6,,*2, 12',1',)*' ;:DA*>;,)-)1;5)',)*'=-*..'.,*=.' 8*-*' 1-,)8 ,)',69*2',1'>1?^ ?*2>*'=-6>, >6/1=*-6, 12.'6?125',)*' 6=, .,.%) * ^ / ',)-1;5)') .' *L*-, 12.',)*' 6=, .,' < .. 126- ' 1>^ *, '86.' 1-?*0' >,% K RK% /-%B1)2' ()1?6.'8)1')60' 6/-*60 '.=*2,'.1?*' *6-.' 2' *256/' 620' 86.' ?^ D;*0' 8 ,)' 6' . ? /6-' *2,);.6.?' 2',)*' >6;.*' 1 '?.^ .12.' C,1',)*')*6,)*2')60' -*>*2,/ ' -*,;-2*0')1?*% 6-* '+1/;2,**-*0' 1-' 20 6' 6..1>6,*0' ()1?6.' 8 ,)') ?' 620' *?D6-9*0' B;2*' N RN' 6>>1?=62 *0' D ')' 8 *' 620' 8)1/*' 6? / ' <-% $02* ' 2' 62' 20 51' 6>,1- ' 620' 86.' D-1;5),' 2,1' >/1.*' >12,6>,' 2' ,) .' .=)*-*' 8 ,)' ,)*' 26, +*.% : *-*')1' .=*2,' +*' *6-.' =-*6>)^ 25' .,;0 25',)*' *256/**' 620' 62.>-,' /625;65*.' 620' *.,6D/ .) 25' .>)11/.% 6-* ')6+ 25' ?60*' .6, .^ 6>,1- ' 2_; - *.' -*.1/+*0',1' *.,6D/ .)') .')*60C_;6-^ ,*-.'6,' < ;026D6,, % ()*')1?*' .1> *, ' .*2,'1;,'81' = 1;.'620' *L>*//*2,'/6D1-*-. ' <6-.)?62' 620' &6-0 ' ',)*' 1-?*-' 1 ' 8)1?')60' D**2' 6',*6>)*-',)*' /6,,*-' 6' =- 2,*-% 2',)* -' 6-- +6/ 6,' 6/>;,,6' 2' RR',)*' 20 62' 51+*-2?*2,'-* ;.*0'=*-? .. 12',1' 2>-*6.*',)*' ? .. 126- ' 1->*' 6,' < ;026D6,, ' 620' 6>>1-0 25/ ' 1->*0',)*?',1'D-*69' ;=',)6,'*.,6D/ .)?*2,'6,'6' 52*6,' /1..',1',)* -' ;20.% <-% 6-* '620') .' - *20.' L*0' ,)* -'-*. 0*2>*' 6,',)*' 62 .)'.*.,/*?*2,'1 ' *-6?=1-*' 8)*-*' ;20*-',)*' =6,-1265*' 1 ',)*' 51+*-21-' 8)1' 86.' ?1.,' - *20/ ',1',)*' 1DA*>,'1',)* -' ? .. 12',)* ' *2^ A1 *0' 6', 0*' 1 '=-1.=*-. ' D* 120',)* -' ?1.,'.625; 2* *L=*>,6, 12.'620' 8*-*'=/6>*0' 2',)*'>*2,-*' 1'6' ?;>)' ?1-*' 2; ?*-1;.' =1=;/6, 12' 6?125' 8)1?',)* ' 8*-*' -**',1'>6-- '12',)* -' 81-9' 1 ')- ., 62' 2.,-;>, 12% 2' Q ',)*' ?6-_;.' 1 ' & *//*./* ' 8)1' 1;20*0',)*' 1//*5*' 1 ' 1-,' & // 6?' 1-' 2.,-;>, 25',)*' 1;,)' 2' ,)*' 1?=62 .' .*-+ >*' 2',)*' +*-26>;/6-'/625;65*.' 1 ' 20 6' 1 *-*0' 6-* ',)*' =-1 *..1-.)=' 1 ' *256/**% ,*-'>12. 0*-6D/*')*. ,6, 12'620'.6, . 6>,1- '*+ 0*2>*' ,)6,',)*' 0;, *.' 1 ',)6' . ,;6, 12' 81;/0' 21,' 2,*- *-*' 8 ,)',)' .' ? .. 126- '/6D1-.' 6-* '6>>*=,*0',)*' . ,;6^ , 12' 620',)1;5)',)*' ,*6>) 25' 1',)*' 62.>-.' 620' <6)-6,,6'/625;65*.' D* 25' .;D.*_;*2,GE' 0*+1/+*0' 12' ,)*'1>>;=*-'1',) .'>)6 -'600*0' 5-*6,/ ',1',)*'-1;, 2*' 1') .'0;, *.')*' >12, 2;*0' 1-',) -, ' *6-. ' ,)*' 8)1/*' =*-10'1 ',.'*L .,*2>*' 7,1>12,- D;,*',1',)*' ;.* ;/2*..' 620',)*' 6?*' 1',)6,' 2.,,;, 12% : *' 218' 1-?*0',)*' 6>_;6 2,62>*' 1 '/*6-2*0'=;20,.' -1?' 6// =6-,.' 1 ' 2^ 0 6',)-1;5)' 8)1?' 2',)*%>1;-.*' 1 ' *6-. ')*' 86.' *2^ 6D/*0',1',-62./6,*',)*' F >-=,;-*.' 2,1' 6//',)*' =- 2> =6/ /625;65*.' 1 ' 1-,)*-2' : 201.,62% 1-',)*' .,;0*2,.' 21,)*' >1//*5*')=')60',1' >1?= /*6-2*0' ?6-.' 1',)*' /62^ 5;65*.')*',6;5),',)*?' 620'6 ,*-' ?62 ' *6-.')*' >1?^ =/*,*0' .' +1/;?21;.' *256/**' 0>, 126- % //B .' =) /1/15 >6/ -*.*6->)*.' 8*-*' ?60*' .;D.*-+ *2,',1',)*' 0*. 52' 1',-62./6, 25',)*' 6>-*0' -6>/*.' A7,1',)*' +*-^ 26>;/6-' /625;65*.' 1 ' 20 6% ()*' +*-. 12.' 1 ',)*' .6>-*0' >- =,;-*.' 2',)*' =-*=6-6, 12' 1 '8)>)')1',119' 62' 6>, +*' 620' /6D1-1;.' =6-,' 2>/;0*0',)*' 62.>-,' : 2011' -AD/6..6' <6>-6,,6' *256/**' 1-56' (*/2C 56' ;-26,6' <6/0+62' 42A6-6,,**' ;/1.)**' ;.)^ ,11' ;2A6D**' 1-')9)' 6.)?**-' ..6?' ;-?62' 6/' 1-' <65;0)6' (;?;/' M 256/*.*' -?*2 62' <6^ /6 ' /201.,62>*' 620' *-.' 62.% 2'. L'1',)*.*',125;*.',)*' 8)1/*' >- IX,;-*.' 1',)*' /0' 620' *8' (*.,6?*2,.' 7+*-*' =- 2,*0' 620' > -> ;/6,*0' ,)*' *8' (*.,6?*2,' 6=^ =*6-*0' 2',8*2, C,)-**' /625;65*.' D*. 0*.' +6- 1;.' 0 6^ /*>,.' 2' 8)>)' .?6//*-'=1-, 12.'1',)*.6>-*0',*L,'8*-*' =- 2,*0% ()*' 8)1/*' 2;?D*-' 1' /625;65*.' .',6,*0'6, 1-, ' 620' 8*' 6-*' =-1D6D/ ' D*/18',)*',-;.,)' 8)*2' 8*' .,6,*' ,)6,',)*' *6-?=1-*' =-*.. ' ;20*-',)*' 6;.=>*.' >) * / '1' -% 6-* '86.')121-*0',1' D*',)*' 2.,-;?2,' 2' 6D1;,',)-,' * *6-.' 1 '-*20*- 25',)*' &1-0' 1' 410' 6>>*.. D/*',1',)-**');20-*0' ? // 12.'1 ');?62' D* 25.' 1-' 2*6-/ '12*',) -0' 1 ',)*' =1=;/6, 1=' 1 ',)*' 81-/0%J' : *' 0 *0' B;2*' R QN % ** ' ' 'D ' ;..6>*' 6-* ' M 120% QN 'KO' *0% K?1X' */>)*-' ; %" ' ' 'M) /6% Q Q?1X' B6?*.12' % ' '; 9 %" ' NT <6-.)?62' ' ' ' " ' ' 'M 120% Q R'K'+1/.%Q+1X' " %!'5 ' ' N %

6-5 // ' . '12*' 1',)*'/*60*-.'1',)*' >1,>)' 1+*262,*-.' M_%+%X' 86.' D1-2' 2' *-,).) -*' 6D1;,' S % : *'-*>*'+*0') .'*0;>6, 12'6,' D*-0**2'*2,*-*0' ,)*' ?2 ,-'1',)*' -*.D ,*-' 62' ;>)'620'86.'=6.^ ,1-' 1',)*' 6-12 ' >);->)' 6,' 4/6.518% &)*2',)*' 25/.)');->)'86.'*.,6D/.)*0' 2' SS ')*' -* ;.*0',1' 6>>*=,') .' >)6-5*' -1?',)*' 6->)D .)1=' 620' 6/.1' -*^ ;.*0',1'/*6+*' >1,/620' 6-*' 2' D62 .)*0% .*-',)*' D6,,/*' 1' 1,)8*/' -05*' 2' 8)>)')*' ,119' =6-,')*' /*0',1' :1//620'D2,'-*,;-2*0',1' >1,/6 0' 620',119' =6-,'8,)',)*' 6?*-12 62.J'M_%+%X'1-'..-,>,' -*.D ^ ,*-62.% ;-.;*0' D ',)*' ?/,6-')*' 86.' .;-=-.*0' 8,)') .' -*20' :*2-' :6//'6,' #;**2.*-- 'B;2*' N' SQ 'D;,')*'*.>6=*0' 8)/*:6//'86.'?1-,6// '81;20^ *0% 2' :6// .' =*-.12' 86.' =;20' 6' ' *>/6-6, 12' 1

- 2> =/*. J' 8) >)' >6; . *0' 6' ., //) 1,,*-' =; -. ; ,' 1 ' 6-^ 5 //% 6-5 //' 6 ? *-12 ' 620' 1,) *-.' 218' =-*=6-*0' 8) 6,' .' 9218 2' 6. ' ,) *' 62_ ;) 6-' *> /6-6, 12 J' D*>6; ,*' ' 86. ' 6 L*0', 1',) *' ? 6-9*, C> -1. .' 6,' 62_ ;) 6- ' B ; 2*' KK' 4Q % 6-5 // 86. ' 0*>/6-*0' 6', -6 ,1- ' 620' 6' =- >*' . *, 12') . ') *60% 2' *=, *? D*-') *' = ; D/ >/ ' *L>1? ? ; ^ 2 >6, *0J' ,) *' 9 25' 620' 1,) *-.' 6,' (1-&110' : ; 2, *0' -1? ' =/6>*' ,1' =/6>* ') *' =-*6>) *0') . ' /6. ,' .*-? 12' 12' ; 2. -*' 1? ? 12 ' B ; / ' SQ ' 620' 86. ' 6 (*. , *0',) *' .6? *' 2 5) , ' 6, ' 1+ 25, 12' < //% : *' 86. ' ,- *0' 620' >12^ 0* ? 2*0' ,) *' >6. ., 25' +1, *' D* 25' 5 +*2' D ' ,) *' 0 ; 9* ' 1 ' -5 /* ' 8) 1' 6 , *-86-0' D , ,*-/ ' -*=*2, *0' ,) . ' 6>, ' 6-5 // 86. ' *L*>; , *0' 6, ' 0 2D ; -5) ' B ; / ' K ' SQ % ' ' : *,) *- 25, 12 ' # ' ' " ' " '' $ ' +1/% ' >) % ' ; % " ' 1' ' M 0 2D ; -5) ' KO' *0% QN XT' # ' ' " ' 1' M -*. D , *- 62' 16-0 ' / /6%X ' +1/% ' >) % ' : 119 ' 6 ! ' ; %" 1' ' N % 6 - 6 ' M 1= 1X ' ,) *' .1 ; ,) C8 *. , *-2' 0 . , - >, ' 1 ' . 6' < 21-' M_% +%X ' 86./ *0' 12' ,) *' % D ' ,) *' < *0 , *--62*62' 620' 12' ,) *' & % D ' ,) *' 5*62' *6' 620' 20*2, *0' D ' 3 ? 62 ' D6 . ' 620' >-**9. % 2' ,) *' % /6 ' 0 6' *6. , ^ 86-0' 8*-*') -A 5 6' 620' > 6') *-*' . *=6-6, *0' D ' 271 ; 2, 6 21 ; .' /620 ? 6-9. ' 7*, ' 8 ,) 1 ; ' 62 ' L*0' D1 ; 20C 6-7 78) >)' >12, 2 ; 6// ' /; >, ; 6, *0' 12' ,) *' % ' 8) *-*' ,) *' - +*-' < ? 620*-' 1-? *0' 21, ' .1') ? *) ',) *' =1/ , >6/ 6. ' ,) *' 26, ; -6/ D1-0*-' M , -6D1 ' L ' ' QT >1 ? =' L / ' SKQX% ( ) *' % & % 625/*' 1 ' ,) . ' -*5 12 ') 6+ 25' D*'2' . *, /*0' D ' 1- 62' >1/12 *. ' 86. ' .1 ? *, ? *. ' 0 . , 25 ; .) ^ *0' -1 ? ' 6- 6' D ' ,) *' 26) *' 1 ' ' M / 2 ' + ' KRX% < 1 ; 2, 6 2' -625*. ' . , -*, >) *0',) -1 ; 5) ' , ' *2, -*', *-- , 1-"P 7 A ; , , 25' 1 ; , ' 2, 1' =-1 ? 12, 1- *. ' 6, ' ,) *' . *6T A *, ' >12. 0*-^ 6D/*' =/6 2. ' 2, *-+*2*0 ' 8) >)' 8 *-*' 8 *// 86, *-*0 ' 620' -; , ; / 2' 5-6 2 ' 1 / ' 8 2*' *, >% ( ) *' 2) 6D , 62, . ' >1 ?^ =1. *0' 1 ' +6- 1 ; . ' ? L*0' -6>*. ' M6 ? 125' 8) >)' 8 *-*' . 1 ?*' 1 ') *? , >' . , 1>9 ' *-,) *6 ; ' ' ? "! RN' . _ %X ' 8 *-*' *2565*0 ' 6, ' /*6. , ' 12' ,) *' .) 1-*' 2' 26+ 56, 12' 620' = -6>A ' M : _"T1>% A ' KT ( ) ; *A 70% ' ' QT ,-6D1 ' L + ' SSKX% ' B*8 .) ' >1/12 ' . ' -* *--*0', 1' 2',) *' =1>- ^ =) 6' M ' < 6>>% d ' KK ' NNX 6. ' D* 25' 6+1-6D/ ' 6 0 0 -*. . *0' DAC ,) *' 1? 62. ' 2' 6' 0*>-**' 8) >)' 26 ? *. ' ,) *' =- 2> =6/ , 18 2. ' : 6/ >6-26. . ; . ' M,) *' D -,) =/6>*' 1 ' ,) *') . , 1- 62' : *-101, ; . X ' 2 0 ; . ' M ? *2, 12*0' 2' >, . ' LL+ ' X ' , 1' 8) >)' ? 6 ') *' 600*0' < /*, ; . ' M>1 ? =% >, . ' LL ' CKQXT' 620' ,) *' . 6 ? *' =6. . 65*' 6// ; 0*. ' . , 1' ,) *' 6>, ' ,) 6, ' ,) *' 6C - 62. ' 8 *-*' ,) *2' M % % NRX *2018*0' 8 ,) ') *' =- + /*5*' 1 ' 1? 62' > , [*2.) =' M + ' L/ L ' X ' 6 , *-') 6+ 25' D**2' 1-' . 1 ? *' , ? *' . ; DA*>, ' , 1') 10*. ' M>1 ? =% , 1/*? ' ' KT' <*/6' ' ST' 1-D 5*-' & ' ? ! ' K ' . _ %T' : **-*2' ' ' ' Q' . _ %XF 1? *8) 6, ' /6, *-' M % % N X M76- 6' D*>6? *' 6' =-1+ 2>*' 1 ' ,) *' 1? 62' *? = -*' M. *' ? ,) . ' ' ' ! ' ? ! . % +FX% ^ 1? *' 62, ^ _ ; 6- 62. ' M. *' *-D-; 55*' ' ' '% ! ' # ! =% SQX') 6+*' 0 . >1+*-*0',) *' 6- 62. ' 2',) *' % (% ; 20*-' ,) *' 26? *') ' M 77N ' K 25. ' L ' RX ' ? *2, 12*0' 2' >122*>, 12' 8 ,) ',) *' ' M 7 B 7' K 6? % LL ' KNX 6. ' ,) *' / *C5 ; 6-0. ' 1 ',) *' B*8 .) ' 9 25. T D ; ' ,) *. *' , *-? . ' 6-*' -6,) *-', 1' D*' , 69*2' 6. ' ==*//6, +*. ' ' 620' ' M4*. *2 ; . ' -" ' =% S X% **' $ 4' (: (' 620' + ! 6- 2 , / 6' 620' 6-2 1/6% ( ) *' =-1+ 2>*' 1 ' = ' M4*-? 62 ') I" E' . 2>*' NNS ') 6. ' D**2' 62' 6==6265*' 1 ',) *' 0 ; 9*. ' 1 ' ; . , - 6% 2' 1/0*2', ? *. ' , ' 86. ' 2>/ ; 0*0' 2' /6+12 6 ' 620' 0 ; - 25',) *' 86-. ' 8 ,) ' 4*-? 62 ' ,) *' -. , ' . **0. ' 1 ') - . , 62 , ' 8*-*' . 182% ( ) *' =- 2>*. ' 1 ' 6- 2,) 6) 60' D*>1? *') -, 62. ' D ' ,) *' ? 00/*' 1 ',) *' * 5),) ' >*2, 6-AJ' *, ' ,) *' ? 6. . ' 1 ',) *' =*1^ =/*' 0 0' 21, ' *? D-6>*' , ' D* 1-*',) *' /6, , *-' =6-, ' 1 ',) *' 2 2,) ' >*2, ; - % 2' ' M4*-? 62 ') 8 ' 8) >)' . ' 6/. 1 ' 6' 0 ; >) ' 1 ' ; . , - 6 ') - . , 62 , ' 86. ' *6-/ *-' =-1=656^ , *0% 1-, ; 26, ; . ' 0*6>12' 1 ' : *-? 651-6. ' -. , ' D .) 1=' 1 ' _ ; /* 6 Z. ' . 6 0' , 1') 6+*' -. , ' 2, -10 ; >*0' , ' 2' 6 ^ D6>) ' 620' ; =', 1' SN 6 D6>) ' 86. ' 62' 6->) 0*6>12- ' 1 ' _2 /> 6% ',) *' * 1-?6, 12 ' ; ,) *- . ' 01>, - 2*' . =-*60' -6= 0^ / ',) -1 ; 5) ',) *. *', 81' =-1+ 2>*. ' 620' - ? ; . ' (- ; D*-' M_% X ' 8) 1' -. , ' =-S? ; /56, *0',) *? ',) *-*' D*>6? *' >6212 1' 6 D6>) ' 2' N T A7*,) *') 60' 6 , *-86-0', 1' /*6+*',) *' >1 ; 2, - ' 620' -*, -*' , 1' & ; -, *? D*-5' -1? ' 8) *2>*') *' . ; ==/ *0') . ' >1 ; 2, - ? *2' 8 ,) ' *+625*/ >6/ D119. ' 620' , -6>, . ' =6-, / ' 2' /6+12 >' 620' =6-, / ' 2' 6, 2% 2' 6/? 1. , ' ,) *' 8) 1/*' =1=; /6, 12' 1 ' D1,) ' =-1+ 2>*. ') 60' 601=, *0',) *' * 1-?6, 12 ' 620' (- ; D*-' 8 *2, ' D6>9' 2' S ' , 69 25' 8 ,) ') ? ' ,) *' -. , ' =- 2, *-' ,) *-*') 60' D**2' 2' ,) *' >1 ; 2, - ' B1) 2' < 620*/ MB 62/ ; . X% 2' R ' 6/ *, , *-' 1 ' =- 2>*CD .) 1=' ( ) 1? 6. ') -02' , 1' ,) *' =1=*' .) 18. ' ,) 6, ' D ; , ' 12*' , 8*2, *,) ' 1 ' ,) *' =1=; /6, 12 ' 620',) 6, ' 6? 125',) *' /18*-' >/6. . *. ' 60) *-*0', 1' 1? 62^ . ? % *, ' 862, ' 1 ' ; 2 , ' 6? 125',) *' ? 2 . , *-. ' 620' 6' Z 5-18 25', *20*2*A 7, 1' 20 ; /5*' 2' .) 1/6. , >' 620' 015^ ? 6, >' 0 . > ; . . 12. ' 1=>) *0' ,) *' 011-. ' 656 2' , 1' 1? *' A 620' 2' R' . 1? *' 1 ',) *' ? 2 . , *-. ' 8*-*' 0- +*2' 686 7' ( ) *' 1? 62' 6,) 1/ >' */*? *2, ' . , *60 / ' 2>-*6. *0' ; 2, / ' 2' RQ ' 6// ,) *' -1, *. , 62, ' ? 2 . , *-. ' 8*-*' >1? 620*0' D ' ,) *' * ? =*-1-' *-0 2620' ' , 1' / *6+*' 8 ,) 2' 1 ; -, **2' 06A % 2' S ' ,) *' . 6? *' >1? ? 620' 86. ' . . ; *0' 1-' ,) *' /6 , E7 8) 1' 8*-*' , 1' -*>62, ' 1-' *? 5-6, *' 8 ,) 2' . L' 8***9. % < 1. ' =-* *--*0' ,) *' /6, , *-' 6/, *-26, +*' 620' 8*2. ' 2, 1' 1) *? 6 ' : ; 256-A ' 620' MB*-? 62A! % ( ) . ' . , 6, *' 1 ' ,) 25. ' >12, 2 ; *0' ; 2, / ' ,) *' =-1? ; /56, 12' 1 ' ,) *' >*/*^ D-6, *0' *0 >, ' 1 ', 1/*-6, 12' D ' B1. *=) ' ' 2' Q % ( ) *' 0*21? 26, 126/' . , 6, . , >. ' 1 ' . ,) *' , 81' =-1+ 2>*. ' 8*-*' 6>>1-0 25' , 1' ,) *' 1 > 6/ >*2. . ' 1 ' QS ' 6. ' 1/^ /18. d " ' 1? 62' 6,) 1/ >. ' N IS KT 2 . *0' 4-**9. ' NT B712C ; 2 , *0' 4-**9. ' T ; ,) *-62. ' S SSST * 1-?*0' N% ' 1? 62' 6,) 1/ >. ' SS SQT $2 , *0' 4-**9. ' K QT 12C ; 2 , *0' 4-**9. ' KR T ; ,) *-^ 62. ' T * 1-?*0' K T 1,) *-' . *>, . ' % ( ) *-*' 6-*',) -*' D .) 1=- >. d . , ' ,) *' . **' 1 ' 6 D6>) ' . ; -6562' 1 ' ,) *' 0 C 111. *' 1 ' 41-[' 8 ,) ' K ' / + 25. ' QN' >; -*. ' S ' D*2* >*. ' 4 S% . *>; /6-' =- *. , . ' 620' C ' -*5 ; /6-' =- *. , . ' T 70 ' ,) *' . *6' 1 ' 4 ; -9A' D*/125 25', 1',) *' 6->) D .) 1=- >' 1 ' 6/ [D ; -5 ' >12, 6 2. ' K ; ' / + 25. ' K' >; *2*-*. ' ' D >*. ' 620' >1 ; 2, . ' K ' . *>; /6-' P-*. , . ' 620' ' -*5 ; /6-' =- *. , . T NO ' ,) *' . *>' 1 ' 6+62, ' . ; -6562' 1 ' 6/ [/X ; -5 ' 8 ,) ' SR' / + 25. ' N >; -*. ' ' D*2* >*. ' ' . *>; /6-' =- *. , . ' 620' K' -*5 ; /6-' =- *. , , % 2' 6-2 1/6' ,) *-*' 6-76/. 1' ' >12+*2, . ' 1>>; ^ = *0' D H S ' ? 129. ' 620' K' D ' ' 0 ; 2. T 2' 6- 2,) 6' ,) *-*' 6-*' ' 1 ',) *' /6, , *-' 620' Q' >12+*2, B+ ( ) *' ; ,) *-62. ' 6->' . ; DA*>, ' , 1' ,) *' *226% ( ) *') 6+*' 2' ,) *' 0 . , - >, ' 1 ' /65*2 ; -, /' K' > ->; , . ' 8 ,) ' K ? 2 . , *-. T 620' 2' , /A6, ' 1 ' //6>) ' ' 6- 6>) ' =*-. 12. T K' /*) *-5 ' T N' 1-2C D6>) ' S T ' .*2, -6, , *2 ' R NT ' * *-2 , [' SK T S' , % , *, *-' SK T ' -*. 6>) ' S TI ' Q' , % ; =-*>), ' KRT R' (-*D*. 25' K T ' -*. 01- ' QN T ' ! 6, C .>) 5 ' SQT K' U/62 ' QST N' & *. D- 6>) ' NT ' 42*. 6 ; ' R T ' */09 ->) >2 ' Q ! T ' ' ' M6212 ? 1 ; . XT 6/06 ; ' ! ? " " ' ! ' ' ! , " ' +1') " ' ! ') M 2. =6>) ' QN' K' +1/. %XT ' : *-[15 H>6 CcO > : _=,) V >' + ' K Q' -1? ' 8) >) % ,) . ' 6-, >/*' . ' >120*2. *O% 6- * , 12 ' & ' % % ' D .) 1=' 1 ') >) *. , *-' 86. ' D1-2' 6, ' 1-) 6? ' 1-,) ; ? D*-/620 ' R% : *' 86. ' *0 ; >6, *0' D ' *-26-0' 4 /= 2 ' D ' 8) 1? ') 1' 86. ' . *2, ', 1' 0? ; 20' : 6// ' L 1-0 ' 8) *-*') *' 5-60 ; 6, *0' % % 2' ' 620' %< % 2' Q % : *' -*? 6 2*0' 2' ,) *' >1// *5*' 6. ' *// 18' 620' ? 6. , *-' ; 2, / ' S% 2' S ') 1' 86. ' ? 60*' D / P=' 1 ' /6206 % 2' S Q / *' 86. ' . *2, ' D ' B6 ? *. ' ' 8 ,) ' -. % : 6// ' 6+*262, ' 620' & 6-0 ' , 1' ,) *' 210' 1 ' 1-, ' 8) *-*') *' 0* *20*0' *= . >1=6> % 2') . ' -*, ; -2 ' ,) *' ,6, *. ' . *2, ' 6' /*, , *-' , 1' 9 25' B6 ? *. ') 5) / ' >1 ? C -602 25') ? ' 620' ,) *' -*. ' , 1' ,) *' 0 + 2*. ' 1-',) *' -' + -^ , ; *' /*6-2 25' = *, ' 620' /1+*' 1 ' = *6> *% : 1' 86. ' 60^ +62>*0', 1',) *' . *** 1 ') >) *. , *-' 2' S R' 1 ' 8) >)') *' >12, 2 ; *0' D .) 1=' ; 2, / ') . ' 0*6,) ' 2' SKQ% : *' 86. ' 6' ? 62' 1 ' . 1/ 0' A ; 05 ? *2, ' 620' +6- 1 ; . ' -*60 25' = 6-, > ; C /6-/E' 2',) *' 6,) *-.' 620' . >) 11/? *2' 6% . , -*2 ; 1 ; . ' 1==1^ 2*2, ' 1 ' 1? *' 620' 6' . , *60 ' 6/+ 2 . , % : *' 8-1, *' - " ' 6 ' S ,18 ST $" ' ' ' " ' " ' " M 120% S ' K? 18 S T ' 6 ' " ' ' - ' M 12012 ' S %N' Q+18 ST # ' " + ' M L 1-0 ' S N' ,18 S T N

BH‴? % ‘M 2‘ 6,*.‘ ‘ ‘ 120‴ SQ X‘620‘ .*+*-6/‘ 1,)*-‘ 81-9.‴ ‘ < 00/*,12‘ 6 ‘ ; =‘ "(*‘ ‘ T‘ : 119‘6 ‘ ; %" ‘ ‘ T‘ 7 ‘ ‘ ? ‘ ; !‘ ‘ ‘ ‘ N‴

6-/ ./*‘ I 2 8‘ 6‘ > , ‘ 2‘ ; ?D*-/620.) -*‘ 620‘ 62‘ *= .>1=6/ .**‘ 1‘,)*‘) ;->)‘ 1‘ B25/620‴ ‘ D*/125.‘,1‘,)*‘ =-1+ 2D*‘ 1‘,)*‘ 6->)D .)1=‘ 1‘ 1-9‴ ?126.,*- ‘ 86.‘>1? ?*2>*0‘)*-*‘ 6D1;,‘ RN‘ 620‘6 ,*-^ 86-0‘ 2 .)*0‘ D ‘9 25‴ : *2- ‘ ‘8)1‘ - >)/ ‘ *2018*0‘ ,‘ 620‘ ////*0‘ ,‘ 8 ,)‘ -*5 ; /6-‘>6212. ‘620‘ 6-,)*-‘ 6,‘,)*‘ -* _ ; *.,‘ 1‘ 6->)D .)1=‘ ( ) ; -.,62‘ *-*>,*0‘ ,‘ 2,1‘ 6‘ >6‘ 3‘,)*0-6/‘ >) ; ->)‴ ,‘ 86.‘ ,)*‘ 12/ ‘ -*5 ; /6-‘ >)6=,*-‘ 2‘ 25/620‘ >1?=1.*0‘ 1‘ ; 5 ; ., 2 62‘ >6212. ‘620‘ 8)1‘ , 7‘ 8 ,)‘,)*‘ >12.*2,‘1‘,)*‘ =1=*‘ 620‘,)*‘ 9 25‘ *2A1 *0‘,)*‘ - 5),‘ 1‘ */*>, 25‘,)* -‘ D .)1=‴ ( )*‘ =- 1- ‘ 86.‘ 0 .^ .1/+*0‘ 2‘ B62 ; 6- ‘ ‘620‘ ,.‘ . ,*‘ 620‘ ?621-‘ 5 +*2‘ ,1‘ ?6 2,6 2‘ 6‘ 0*62 ‘ =-*D*206- *. ‘ *,>‴ ( )*‘ 0 1>*.*‘ .‘ >1?=1.*0‘ 1‘ =6-,.‘ 1‘ ; ?D*-/620‘ 620‘ & *.,?1-*/620‘ 620‘,)*‘ >)6=,*-‘ >12. ..,‘ 1‘6‘ 0*6 ‘ 6->)0*6>12‘ >)62^ >*//1-‘ 1 ;-‘ >6212. ‘ 620‘,)-**‘ ? 21-‘ >6212.‴ ( )*‘ 2>; ?D*2,‘ M QSQX .‘ 6? ;*/ & 6/0*5-6+*‘ ‘ ‴ ‘ >12^ .*>-6,*0‘ 2‘ QS ‴ ‘ 62012‘6 ‘ ! ‘ ‘ .‴+‴

6-/.,60,‘1-‘ 6-1/1.,60,‘62‘ *? 2*2,‘D ; ,‘ + 1^ /*2,‘ >160A ; ,1-‘ 1‘ ; ,)*-‴ : .‘ 26?*‘ 86.‘ ‘ 8 ‘D ; ,‘)*‘,119‘) .‘ .‘ ; -26?*‘ -1?‘) .‘ 26, +*‘ =/6>*‘ 2‘ -62 k12 6‴ ( )*‘ 06,*‘ 1‘) .‘ D -,)‘ .‘ ; 2921 8 2‴ : *‘ .,; 0 *0‘,)*1/15 ‘620‘,)*‘ >6212‘/68‘6,‘ 1?*‴ 2‘ ‘)*‘ 8*2,‘,1‘ & ,,*?D*-5‘620‘6 .*-‘,69 25‘ .*+*-6/ 6>60*? >‘ 0*5 >*.‘ 620‘1D,6 2 25‘6‘ 5-*6,‘-*=; ,6, 12‘ 1-‘ .>)1/6., >‘ /*6-2 25‘) *‘ 86.‘ 2‘ N‘ ?60*‘ =-1 *..1-‘ 1‘ ,)*1/15 ‘620‘6->)0*6>12‴ : .‘ 2, ?6> ‘8 ,)‘ ; ,) 7‘ D*562‘ 2‘ K‴ &)*2‘ 6-/.,60,‘>6?*‘ D6>9‘ -1?‘6‘..6A 7 X,‘ 1 2*‘671 ; ,/ ‘620‘ 1 ; 20‘,)6,‘ ; ,)*- .‘ 1= 2 12.‘ 8*-*.‘ ; D+*-, 25‘ .>)1/6., > .?‘ 2‘,)*‘ $2 +*-, ‘)*‘ 6,‘ -.,‘ 1==1.*0‘ ,)*?‘ + 1/*2,/ ‘ D ; ,‘ 6 ,*-86-0‘ 0*+1,*0‘) ?.*/‘,1‘ D/ >6/ .,; 0 ‘620‘ D*>6?*‘ 12*‘ 1‘ ; ,)*-.‘ ?1.,‘ [*6/1 ; .‘ 60)*-*2,.‴ ‘ .1?*‘ 1‘) .‘ >12,*?=1-6^ - *.‘) .‘ *-; 0 , 12‘ .‘ 6,‘,) .‘ , ?*‘) 5)/ ‘ .=19*2‘ 1‘D ; ,‘ < */62>,)12‘ 0*2 *0‘) 27*‘ ,)*-‘ .1 ; 20‘/*6-2 25‘5*2 ; .‘ 1-‘ =*, ‴ 2‘*.>6= 25‘ -1?‘ .>)1/6., > .?‘)*‘ .**?.‘,1‘)6+*‘ 512*‘,1‘,)*‘ 1==1. ,*‘ *L,-*?*‘ 1‘? .,> .?‴ 2‘ ,)*‘ >*/*D-6,*0‘ * =. >‘ .=; ,6, 12‘ MB ; 2*‘ K RX‘)*‘ 0 .=; ,*0‘ 8 ,)‘ >9‘ M_‴+‴X‘ ;=12‘) ; ?62‘ -**01?‘ 620‘ 0 + 2*‘5-6>*‴J‘ ; ,)*-‘ D* 25‘0-6 8 2‘ 2,1‘,)*‘ 0*D6,*‘ .;-=6..*0‘ ,)*‘ 1,)*-‘ 0 .=; ,62,..‘ 620‘ -1?‘,) .‘ , ?*‘ ,)*‘ D-*6>)‘ D*,8**2‘ 6-/.,60,‘620‘,)*‘ 5-*6,‘-* 1-?*-‘ 1=*2/ ‘ ?62 *.,*0‘ ,..*/‴ ( )*‘ 2*L,‘ *6-‘ M KRX‘)*‘ =; D/ .)*0‘6‘,-*6, .*‘ ‘ ‘ ‘$ %(‘ 8) >)‘ 6/^ ,)1; 5)‘ 0* 6>*0‘ D ‘ D ,,*-‘ 6,,6>9.‘ 12‘ ; ,)*-‘ 86.‘ 2*+^ *-,)*/*..‘ 62‘ 6D/*‘ 81-9‘ .*,, 25‘ 1-,)‘,)*‘ 5-*6,‘=- 2> ^ =/*‘ 1‘ -1,*-,62, . ?‘+ [‘ ,)*‘ =6-6?1; 2,‘ 6; ,)1- , ‘ 1‘ >- =,; -*‴ : *‘ 6/.1‘6,‘,) .‘, ?*‘ >12,*20*0‘ 1-‘,)*‘ 6; ^ ,)1-, ‘ 1‘,)*‘ *= ./*‘ 1‘ ,‴ B6?*.‘ 656 2.,‘ ; ,)*-‴ 2‘ ,)*‘ =; D/ >6, 12‘ 1‘ 7)*‘ D ; // 1‘ *1‘ d‘ 656 2.,‘,)*‘ -*^ 1-?*-.‘ 6-/.,60,‘.)18*0‘6‘ -*6/‘620‘)12*.,‘ >1; -65*‘ 2‘ .,620 25‘ -?‘ 8 ,)‘ ; ,)*-‴ : .‘ 81-9‘ 12‘ % ‘ $‘ ‘M K X 6,,6>9.‘,)*‘ 2 6// D / , ‘ 1‘,)*‘ =1=*‘ 12‘ ,)*‘ D6. ‘ 1‘,)*‘ D/*‴ 2‘ K ‘0 ; - 25‘ ; ,)*-.‘ >12^ 2*?*2,‘ 2‘,)*‘ & 6-,D ; -5‘ 6-/.,60,‘)60‘6/?1.,‘ .1/*‘ >12,-1/‘ 1‘,)*‘ -* 1-?‘ ?1+*?*2,‘6,‘ & ,,*?D*-5‘620‘ 86.‘ .; =-*?*‘ 2‘,)*‘ $2 +*-. , ‴ : *‘ 6,,6>9*0‘ ?126‘ >/ .?‘620‘>*/ D6> ‘ 2‘6‘,-*6, .*‘ ‘ ‘

,62' 620' < 15/ 1., 2% **' + ' ,' 86.' -;55*0 ' D;,' -:, , :/ ' 620' 2)6D ,*0' D ' 6' 86-/ 9*' -6>*' M.**' ? ,) . ' ,' ' ' !' ? !' !' +%X% ()* ' 6-*' 0*^ .>- D*0' D ' ,-6D1' ML+ ' =% K X' 6.' C81-..) == 25' -*.' 6/12*' 1 '6//' ,) *' 510. ' ,1' 8) 1 ?' ,)* ' .6>- >*0'62' 6..% 12*' 1 ',) * ?' ?6-- *0', //') *') 60' > ; ,' 1 ',) *') *60' 1 ' 62' *2*? ' 620' =-*.*2,*0' ,' ,1',) *' 9 25 ' 8) 1' =/6>*0' ,' 12') .' =6/6>*') 6+ 25' -..' >;,' 1:,' ,) *' ,125;*' 8) >)' 86.' >)1==*0' ;=' 2,1' . ?6// ' = *>*.' 620' ? L*0' 8 ,)' ?*6/' 620' 2',) .' >120 , 12' 6 ,*-' D* 25',6..*0' " ',) *' 9 25 ' 86.' 5 +*2',1',) *' 86-- 1-' 8) 1' D-1:5),' ,' 620',1') .' 6? / ',1' *6,% *6->) ; ,' .6 .' ,) 6,' ?1.,' 1 ',) *' >;.,1?.' 1 ',) *' 6-?62 62.' 620',) * -' /625;65*' 8*-*' *-. 62' 620' < *0 62% -- 62' 5 +*.',) *' .*., ?1CI' M.**' ? ,) .' ' ' ' ' ? !' .' +% 6-?*/;.X%' 7' ;',) *' > ->; ?.,62>*.' ,) 6,') 6+*' ?60*' ,) *' 26?*' 1 ' 6-?*/' ?1.,' 6? / 6-' 6-*' ,) 6,') *-*' / A6)' D-1:5),' D6>9' .-6*/' ,1' 6//*5 62>*' ,1' B*) 1+6) ' 620' ./*8',) *' =-1=)*.,' 1 ',) *' 1-* 52' 620' 6/.*' 510') *-*' /,') .' *2^ ,-*6, ' 8*-*' >12.;?*0',) *' .:>>*.. +*' ,*.J' 1 ;,' 1 ',) *' -1 6/' 5;6-0' 620') *-1' 12',) *' 1,) *-') 620 ' / .) 6' -*>* +*0',) *' + . ,' 1 ',) *' D*-*6+*0' ?1,) *-' 8) 1.*' .12' M.**' ? ,) .' ' ' ' ' ? !' .' +% 6-?*/;.X%' 7' 86.' .112',1' -*.,1-*',1') *-' 6-?.' MK' 25.' +' K ' *,>%X' **' > ' !' ()*' -.,' 1 ',) *.*' ,) -**' *+*2,.' 8 ,) 1:,' 01;D,',119' =/6>*' 6,' ,) *' *6.,*-2' *20' 1 ',) *' - 05*' 6,' 6' .=1,' >6//*0' = '' + "1' 2*6-' ,) *' -;2*0' + //65*' 1 ' >/C < 62.;-6') -.,' 0*.>- D*0' D ' 62' 0*0' ID 1' 'NK ' ._%X% ()*' ,-60 , 12' =-*.*-+*0' 2',) *' >12+*2,' 620' 6?125',) *' -;.*.' 1 ',) *' 2* 5) C' D1- 25' + //65*.' ,) *' 26?*.' 1 ',) *' =/6>*.' ,) *' 0 .,62>*' -1?' B*[-**/' ,) *' 26,;-*' 1 ',) *' /1>6/ , ',) *' =-*.*2>*' 1 ',) *' 2*+*-C 6 / 25' .=- 25' 6//' 6-*' 6+1-6D/*' M.**' ,62C' $ ' ' !' =% c '. %' ()1?.*2' ' ; +1' 'KKN'._%X% ()*',*--6>*' 12' 8) >)' ,) *',-60 , 12^ 6-' .,-;>,.;-*' .,620.' >1?620.' 6' 21D/*' +1*8' 1+*-',) *' 8) 1/*' =/6 2' 1 ' .0-.*/12' -1 A',) *' D629.' 1 ',) *' .D12' h0182' 6,',) *' D1,,1?' 1 ',) *' .,**=' 0*>/ + , ' 686 ',1',) *' 0 .,62,') //' 1 ' 4 /D16 ' 6,' 8) 1.*' D6.*' .,>10',) ,' -1 6/' >, ' 1 ' B*[-**/% (1',) *' Q ' =-1=)*,.' -625*0' 01;D,^ /*.:' 12',) *' 8 0*' ;=/620' .8**=' A;.,' D*2*6,)' ,/ **' .*-^ -6>*',1',) *' ?;/, ,:0*.' 1l' =>12/>' ?62 ' 1 ' 8) 1?' ?6 ') 6+*' -*?6 2*0' 12',) *' =/6 2',21' 6/,6-' 1 ' / A6)' 81;/0') *' 2' /;// + *8 ' 620',) * ' >1;/0' 6//' .**' 2',) *' **+*2 25' ,8 / 5),',) 6,' ,) *' -*' 1',) *' 1-0' *// 720' >12.;?*0' ,) *' D;?,C.6>- >*' 620',) *' 8110' 620',) *' .,12*.' 620' ,) *' 0;.,' 620' / >9*0' ;=' ,) *' 8 6,*-J' M+*-% NQX% ()*' =*1=/*' ,) *2' ,-*?D/ 25' 8 ,)' *6-' 620' 20 526, 12' .* [*0' 6,' / A6) .' D 00 25' ,) *' =-1=)*.' 1' 66/T' 620' / A6)' D-1:5),',) *?' 0182' 2',1',) */A-119' 7//12' 620' ./*8',) *?',) *-*%J' 2',) *' /18*-' 0*>/ + , *.' 1 ',) *' ?1;2,6 2' .' 6/ ?1;20' >6//*0' (*// */C ;. .' // >' : //' 1 ',) *' - *,.,. J' 8) >)' =-1D6D/ ' ?6-9.' ,) *' +*-A' .>*2*' 1 ',) *' *L*>;, 12% <6 ' 21,' ,) *' =-*.*2,' 26?*' 1 ',/ *' .)12' ,.*/ '7 6+*' 1- 5 26,*0' 2C,) .',-65 >' *+*2,'H ,' .>6//*0' 7 + ' 2 + 1' ,) *' +*-' 1 ' /6:5),*-%J' ( ) *'=-1=)*,' 8*2,' ;=' 656 2',1',) *' 6/,6-' 8) >)' 86.' H8-') ;,' U ' % ',) *' .;? ? ,' 1 ',) *' ?1;2,6 2% &) /*') *'=-6 *0') *' .6 0',1') .' .*-+62,' ' 41' ;=' 218 ' 620' /119' ,186-0',) *' 5*6%J' ()*' .*6' .' 21,'+ . D/*' -1?',/ *' ,*-^ -6>*' D;,' 6' *8' ? 2;,*.' 6.>*2,'/*60.' ,1' 6' =*69' 8) >)' >1? ?620.' ,.' 8) 1/*' *L=62.*% *+*2' , ?*.' 0 0' ,) *' .*-+62,' >/ ?D',) *') * 5),' 620' 6,' /6.,' .68' ,) *' / ,,/*' >/1;0' / 9*' 6' ?62 .') 620J' - . 25' ;,'1 ',) *' .*6% **' > 5 ' !

>>1-0 25',1' ,) *' -*=1-,.' 1 ' ?*.' ,-6+*//*-.' ,) *' ?1;2,6 2' 8*// 0>.>-f I>.' ,.' : *D-*8' 26?*' M.** 6D1+*X%' <6- ,'0*.>- D*.' ,'6.' 6' 0*/ 5), ;/ -*5 12 J' 620' .6 .' ,)*7' 5110' _ ;6/ , ' 1 ' ,.' .1 / .' 6==6-*2,' -1?' ,) *' 6>,) 6,' ?62 ' 101- *-1; ' =/62,.' 6) 0' /18*-.' 6.' / A 6> ,/ .' A12_ ; /. ',6[*,.1.' 62*?12*.' *,>% ' 5-18' 8 /0' ;=12',) *' ?1;2,6 2' I- ' =% K ' ._%X% ,,1' +12' >),>-' 1' " ' =% S X' 5 +*.' 6' 5/18 25' 6>>1;2,' 1 ',' D*6;, ' 620' +6- *0' .>*2*- % <-% 6?*' 6/.1' .6 .' 1' ?1;2,6 2' 2' 1-' 6-1;20' 6/*., 2*' -*,6 2.' ,.' 62^ > *2,' D*6;, ' .1' ? ;>)' 6.' ;-?*/% (81' 1-' ,)-**' + /^ /65*.' 620' .1?*' .>6,,*-*0' >1,,65*.' 6-*' 1;20' 12',' 1 ',' D;,' 5-1+*.' 6-*' *8 ' D;,' /;L;- 62,' ' ,.' 21'=/6>*' 1-' >-65:' 620' =-*> = >*.' 1-' -1>9.' 1 ',) *' 8 /0' 516,.' D;,' ,.' .;-C =/6>*.' 620' -1?' ,) *' >;.,1?' 8) >)' 6==*6-.',1') 6+*' D**2' =-*+6/*2,' 1 '-*.1-, 25',) ,) *-' 12' 2*8C?112' 620' .6DD6,) .' MK 25.' + ' KNX',) *-*' .**?',1') *' 5-1;20.' 1-' D*/ *+ 25',) 6,' -1?' +*- ' *6-/ ' , ?*.' ,' C7f6.' >12. 0*-^ *0' 6' .6>-*0' . X1,% 2' /6,*-', ?*.' A7,) 651-6.' 86.' /*0' ,1' ,' D ',) 6,' -*=:,.6, 12' 6>>1-0 25' ,1') .' D 15-6=) *-' /6?D/ >) ;.' M(, % " ' >% N' =% ' K' *O% *./%X' 8) 1') ?.*/ ' + . ,*0',) *' ?1;2,6 2' 1' *.=6. 62' ,11' >6?*',) ,) *-',1' >12.;/, ' .1' 8*' 6-*',1/0' D ' (6> ,;.' I ' X' 8 ,)',) 6,' ? L,;-*' 1 ' 6>,' 620' 6D/*' 8) >)' ?6-9.' 6//',) *') *6,) *2' 21, >*.' 1 ' 6/*., 2* ' ,) *' 1-6>/*' 1 ',) *' 510' 8) 1.*' 26?*' 86.',) *' .6?*' 6.',) 6,' 1 ',) *' ?1;2,6 2' ,.*/ ' 1' 62' 1-6>/*' 8 ,) 1;,' ?65*' >-' ,*2I' =>' M.**' ? ,) .' ' ' ' ' ? !' .' +% 6-?*/;.X%' 7' ;',) *' > ->; ?.,62>*.' ,) 6,') 6+*' ?60*' ,) *' 26?*' 1 ' 6-?*/' ?1.,' 6? / 6-' 6-*' ,) 6,') *-*' / A6)' D-1:5),' D6>9' .-6*/' ,1' 6//*5 62>*' ,1' B*) 1+6) ' 620' ./*8',) *' =-1=)*.,' 1 ',) *' 1-* 52' 620' 6/.*' 510') *-*' /,') .' *2^ ,-*6, ' 8*-*' >12.;?*0',) *' .;>>*.. +*' ,*.J' 1 ;,' 1 ',) *' -1 6/' 5;6-0' 620') *-1' 12',) *' 1,) *-') 620 ' / .) 6' -*>* +*0',) *' + . ,' 1 ',) *' D*-*6+*0' ?1,) *-' 8) 1.*' .12' M.**' ID 1' 'NK ' ._%X% ()*' ,-60 , 12' =-*.*-+*0' 2',) *' >12+*2,' 620' 6?125',) *' -;.*.' 1 ',) *' 2* 5) C' D1- 25' + //65*.' ,) *' 26?*.' 1 ',) *' =/6>*.' ,) *' 0 .,62>*' -1?' B*[-**/' ,) *' 26,;-*' 1 ',) *' /1>6/ , ',) *' =-*.*2>*' 1 ',) *' 2*+*-C 6 / 25' .=- 25' 6//' 6-*' 6+1-6D/*' M.**' ,62C' $ ' ' !' =% c '. %' ()1?.*2' ' ; +1' 'KKN'._%X% ()*',*--6>*' 12' 8) >)' ,) *',-60 , 12^ 6-' .,-;>,.;-*' .,620.' >1?620.' 6' 21D/*' +1*8' 1+*-',) *' 8) 1/*' =/6 2' 1 ' .0-.*/12' -1 A',) *' D629.' 1 ',) *' .D12' h0182' 6,',) *' D1,,1?' 1 ',) *' .,**=' 0*>/ + , ' 686 ',1',) *' 0 .,62,') //' 1 ' 4 /D16 ' 6,' 8) 1.*' D6.*' .,>10',) ,' -1 6/' >, ' 1 ' B*[-**/% (1',) *' Q ' =-1=)*,.' -625*0' 01;D,^ /*.:' 12',) *' 8 0*' ;=/620' .8**=' A;.,' D*2*6,)' ,/ **' .*-^ -6>*',1',) *' ?;/, ,:0*.' 1l' =>12/>' ?62 ' 1 ' 8) 1?' ?6 ') 6+*' -*?6 2*0' 12',) *' =/6 2',21' 6/,6-' 1 ' / A6)' 81;/0') *' 2' /;// + *8 ' 620',) * ' >1;/0' 6//' .**' 2',) *' **+*2 25' ,8 / 5),',) 6,' ,) *' -*' 1',) *' 1-0' *// 720' >12.;?*0' ,) *' D;?,C.6>- >*' 620',) *' 8110' 620',) *' .,12*.' 620' ,) *' 0;.,' 620' / >9*0' ;=' ,) *' 8 6,*-J' M+*-% NQX% ()*' =*1=/*' ,) *2' ,-*?D/ 25' 8 ,)' *6-' 620' 20 526, 12' .* [*0' 6,' / A6) .' D 00 25' ,) *' =-1=)*.' 1' 66/T' 620' / A6)' D-1:5),',) *?' 0182' 2',1',) */A-119' 7//12' 620' ./*8',) *?',) *-*%J' 2',) *' /18*-' 0*>/ + , *.' 1 ',) *' ?1;2,6 2' .' 6/ ?1;20' >6//*0' (*// */C ;. .' // >' : //' 1 ',) *' - *,.,. J' 8) >)' =-1D6D/ ' ?6-9.' ,) *' +*-A' .>*2*' 1 ',) *' *L*>;, 12% <6 ' 21,' ,) *' =-*.*2,' 26?*' 1 ',/ *' .)12' ,.*/ '7 6+*' 1- 5 26,*0' 2C,) .',-65 >' *+*2,'H ,' .>6//*0' 7 + ' 2 + 1' ,) *' +*-' 1 ' /6:5),*-%J' ( ) *'=-1=)*,' 8*2,' ;=' 656 2',1',) *' 6/,6-' 8) >)' 86.' H8-') ;,' U ' % ',) *' .;? ? ,' 1 ',) *' ?1;2,6 2% &) /*') *'=-6 *0') *' .6 0',1') .' .*-+62,' ' 41' ;=' 218 ' 620' /119' ,186-0',) *' 5*6%J' ()*' .*6' .' 21,'+ . D/*' -1?',/ *' ,*-^ -6>*' D;,' 6' *8' ? 2;,*.' 6.>*2,'/*60.' ,1' 6' =*69' 8) >)' >1? ?620.' ,.' 8) 1/*' *L=62.*% *+*2' , ?*.' 0 0' ,) *' .*-+62,' >/ ?D',) *') * 5),' 620' 6,' /6.,' .68' ,) *' / ,,/*' >/1;0' / 9*' 6' ?62 .') 620J' - . 25' ;,'1 ',) *' .*6% **' > 5 ' !

>' .'>1+*-*0'8 ,)'6'- >)'620'>12.,62,'+*-0;-*J' I 2' 1' RX' ()*-*' .' 21,'6' /18*- J' .6 .' 62' 0* */0*' ,)6,' ')6+*' .**2' 2' 46/ /**' 1-' 12' ,)*' =/6 2.' 6/125',)*' >16., ',)6,' '01'21,' 20')*-*' 12' 6-?*/%%%., // ,)*' -65-62,' /1+*/ ' ?1;2,6 2',)6,')07 86.' 1 '1/0J' >17 ' 'N 'QX% '()*' 8)1/*' ?1;2,6 2'. 0*' 86. 0-*..*0' 8 ,)' D/1..1?.' 620' /18*- 25' .)-;D.' 620' -65-62,')*-D.J'M<6-, 2*6;'=% NRX% 1' .6 6)'MLLL+ KX' 6//;0*.',1' ,)*' *L>*//*2> 'M.=/*20 0'1-26?*2,.X'1' . 5),';2/*..'>/1.*/ ' 1//18*0% ()'.'?6 '.*-+*',1' //;.^ 6-?*/%J' 1'12' 6>>1;2,'1',)*' 5-6>* ;/ 1-?' 620' ,-6,*' ?1.' L'N% (1',)*.*'5-1,,1*.',)*'=-1=)*,.' /^ +*-062,'I/ *6;,'1',)*' .;?? ',)*')*60'1',)*'D-0*' 2' A6)' 620' /.)6'1,*2'-*.1-,*0'M' 25.' L+ ' R'._% 62, '+ ' ' .'>1?=6-*0',1' 6-?*/% ,' 86.' 6/.1'>*/*^ KT' K' 25.' 'K T' +'K T' 620'>1?='=*-)6=,' ' 25.' D-6,*0' 1-' ,.'=6.,;-*.' 620' .',)*-* 1-*' -629*0' 8 ,)' L+ ' NX% ,',)*'=-*.*2,' 06 ' .'.)182' 6' >6+*-2' 6.)62' 2' .6% LLL /'RT' B*-% R ?1.' 'KT' <>% >6//*0',)*' >6+*' 1' /A6)' 6' /,,/*' D*/18',)*'/129.I' + (T' 6)% ' % ,.' >12.=>;1;.' =1., 12' .' 6/.1' 6+*-2' 6/-*60 ' ?*2, 12*0' 620' 8) >)' .' 218' 6' <1.^ >1?=6-*0' 8 ,)',)6,'1 '(6D1-'MB*-% L/+ ' QX% ,.'5-*6,' /*?' .62>,;6- % $=12',)*' 21-,)C8*.',.;??',.' 62' */*+6, 12' .'-* *--*0',1' 2' ?1.' L'N% ' ?;>)'/*..' 62> *2,' *.,6D/.)?*2,'1' 6-?*/,*' ?129.' 8)>)' 1-^ 5/18 25'6>>1;2,'1' 6-?*/ .'5+*2')18*+*-'D'?62' 0*-' 20**0' 0*- +*0' ,.' 26?*' -1?' ,) .' ?1;2,6 2% ,-6+*//*-.' 8)1.*' + . ')6.'D**2'/6,*-' 2',)*' *6- ',1^ ** ! ()*' 1-0*-' .' .6 0' 2',)*',-60 , 12.' 86-0',)*' *20'1' .;??*-'1-' 2'6';,;=?C7620'8)1'>12^ 1',)*' 6, 2');->)',1')6+*' 1- 5 26,*0' 8 ,)' /A6)' .*_;*2,/ 1;20'*+*-A,) 25'=6->)*0'0-E'620'D-182% ?).0'M ,%B1)2'1'B*-;.%'_;1,*0' 2' < ./2' 'RX' M **' :6>9*,,.' 2 !' '$ % 1'=%NKC(CNKS%X ()*' D;,',)*' >12+*2,' 86.' 1;20*0' D' ,% 1;.'620',.' 8*.,*-2' *L,-*? ,'1',)*' -05* '7,)6,';2 1-,;26,*/' -*2>)'1-5 2' .',//.)182'D',)*'=-6>,>*' 1';2 ;-/^ 8 ,)' 8)>)'1-0 26-',-6+*//*-.' 6-*' ?1.,' 6? /6-'620' 25',)*' -*2>)'/65'12'+6-1;.'1>>6. 12.% 086-0' -1?'8)>)',)*',69*',)*-'?=-*.. 12.' .'?1-*'D/*69' 1' 25/620'86.'6'D-1,)*-'1',)*'1-0*-'620'12*'1',.' ,/62',)*'*6.,*-2% ,.'.0*.'6-*'.,**=' 620'-1>9 '.>62,^ ?1.,'6?1;.'5*2*-6/.'86.' ?12' ,19*.'1' *2,'M.**'0 /'>1+*-*0'8 ,)'086-'.)-;D.'620'6-1?6,>')*-D.' ,)*' *L,-6>,.' 2' & /.12.' ;' 'K ST' 1-',)*' 620')6+25'12/'6'*8'.>6,,*-*0',-**.')*-*'620',)*-*' >12+*2,'620',)*' . 25;/6-'/*5*20.'>122*>,25'<1;2, 2',)*'5/*2.'I ' ' 1' ' ._%% 6-?*/8 ,)',)*' -5 2'<6-'620'1;-' 1-0'.**'<.C ()*'.-;>,;-*'1' 6-?*/.' 2',)*'?6 2',)*'B;-6'1-^ / 2' ' C X% ' 6=1/*12',%86.';.*0'6.'6')1.=,6/ ?6, 12'M;==*-'11/,*X'8)>)'.'=-*+6/*2,'2',)*'>*2,-*' 0;-25',)*'.*5*'1' >-*'620'6,*-'.'.'-*,-*6,'86.'0*^ 1'&*.,*-2' 6/*.,2*'6'.1,'8),*'/?*.,12*'18,)' ..-1 *0'D',)*' -6D.% ',)*',?*'1' -DA'620'H/62C 210;/*.'620'+*2.'1'/2,% .';.;6/2'/?*.,12*'1-^ 5/*. .'+ .,'M Q X'12/'12*' - 6-'-*?6 2*0',)*-*'M-X ?6, 12.' ,'6D1;20.'2'>6+*.'M '?1-*',)62'K J'7<.C S X% ()*'1/0'>12+*2,'86.'0*.,-1 *0'D' DO6//6)' /2' ' SX'1,*2'1'5-*6,'/*25,)'620'*L,-*?*/',.1-,.'1').6)6'8)1'>12+*-,*0',)*'?6,*-6/.'1',)' .'182';.*T 1;.% ** ! ',)*'8*.,*20'6-*' 1;20')>)6/9' D;',' ',)6.'1'/6,*' 16-.'D**2'-*D;/,'12'6'.1?*8)6, 620',*-, 6-'D-*>>6I 1-?*0'1'-65?*2,.'1'>)6/9'620' ?=1. 25'.>6/*'D',)*'6 0'1'>12,-D;,12.'-1?' ;^ / 2,'M ;..*55*-' 2' ,,*-'6 +!'L+ ' KX% 2',)*' -1=*.*2,' ,.**?.',1'D*'>6//*0' 21-,)C*6..'1',)*'?1;2,'D* 120',)*' 6)-'*/C<196,,6' /X',)*' -6D.'D ' 6 ' -1?',)*'>12+*2,'1' =/;,12>'-1>9.'6==*6-'D-*69 25',)-1;5)',)*'0*=1. ,*0' / 6.'2*6-' ,.'21-,)*-2'*20% M **' 5*2*-6/GE')/'6 .,-6,6'620'1-? 25',)*'!D*5 22 25'1',)*'D6.6/,'1-?6^ % (-2,6,*' ,' !'5 + ' ' ' =% S'._%%T , 12'8)>)'-;2.',)-1;5)',)*'=/6 2'1' .0-.*/12',1'(6^ */620' !'=%NK'._%T :6?*.+*/0' 'N RT' >);'^ D1-'620',)*' *6'1'46/ /**'M ,,*-' !(8! ()*-1;20' D*-,'5 ' 'K T' 1D 2.12'5 " ' ' S ':T .,12*.'9218 2'D',)*'26?*.'1' ' 6=0*.'B;06 >GJ'620' ()1?.12' ' ';+' 'RNT' 1-,*-'# +' / A6).'?*/12.J'6-*',/*'D10*.'92182',1'5*1/15.,.' '$ '=%N T (-.,-6?' ' ' '=% RS%X 6.' 5*10*.%J' ()*-'*L,*-1-' .'>)*-,'1-' / 2,'1'6' / 5),.)'D-182',A1/1-T',)*' 2,*-1-' .')1//18'620'/2*0' 8 ,)'>-.,6/.1'_;6-,[' 1-' >)6/>*012A1% ()*'6-*' 1 " ,)*' 1-?'620'1,*2',)*'.[*I1',)*'/6-5*'86,*-C?*/12.' 1',)*' .,% 1-?*-/',)*'8*-*'6.%E'1D,6 2*0'D;,' 6-*' 218'+*-'-6-*/'1;20'M **,[*2' N N T 6-^ 9 2.12.' ' (1' 'NKK' X% ()*' 1/+*.J 6-*' ?1-*' >1?2?12% ()*'6-*',)*' 1..'.=2*.'1'6' 9 20'1'*>)2;.'I 8' -*_;*2,' 2',)*.*' .,-6,6'620' 2'.[*'620'.)6=*'6-*'*L6>,/'/9*',)*'-;' M 6-9 2.12' ' X% ()*' 6==/*.J'6-*'=-1D6D/',)*' .)*//.'1',)*' (' ,.*/' ' 1-',)*'/*5*20'1',)*'1-5 2' 1',)*.*' -;,..J'620',)*'=1.,12'1',)*' */0J'1-' 56-0*2J'1' /A6)'2'8)>)',)*'6-*'1;20'.**'<.C (2' 'S'S % ()*'8)1/*-05*'1'6-?*/.'0**=/ ';--18*0'8,)'-1>9'-6+2*.' //*0'8,)'.;>)'0*=.>' A;25/*'6.'.>6->*/',1'D*'=*2*,-6ID/*% :*-*'A6>96/.' 81/+*.')*26.'620'8/0'.8 2*?69*',)*-'/6-.'620' &110>1>9.' 20'*%7>1//*2,'>1+*-T'8)/*'2',)*'1=*2'1-^ *.,'5/60*.'=6-,-05*.'_;6/.'620')6-*.'.=1-,'6D1;,% 2',)*'.0*.%1',)*'?1;2,6 2'*.=*>6// '-1;20',)*'>12^ +*2,'620'1+*-)625 25',/>'.*6'6-*'5-=6,'2;?D*-.'1' >6+*.'620'5-1,,1*.'1-?*0'=6-,/'D'26,;-*'620'=6-,I' / 'D'6-,'620'20;.,-'2',)*'.1,';>6/>6-*1;.'-1>9% 6-?*/6,'12*'=*-10'.86-?*0'8</'?129.'620')*-^ ?,.'8)1'D;--18*0'2',)*.*'>1?1-,/*.'0*2.% ;^ -1;.',-60,12.'>/25',1'.1?*'1',)*?'2'=6-,'>12^ -?*0'D',)*'4-**9'2.>-=,12.'620'26?*.',)6,'?6' ., //D*',-6>*0';=12',)*-'86//.% 2*'1',)*?'.'>6//*0' ,)*'6+*'1',)*'12.'1',)*'-1=)*,.J'620'.'.60',1' D*',)6,'2'8)>)',)*'=1;.'D60 6)')0',)*'=-1=)*,.' -1?',)*';-'1',)*'2 6?1;.'B*[*D*/'M' 25.'L+ X% 2'12*',-6>,''>6//*0',)*'<129.' 6+*-2',)*-*'6-* 6.'?62'6.' '>6+*.'6OA6>*2,',1'*6>)'1,)*-' ;-2.)*0' 8 ,)'8 2018.'620'8 ,)'=/6>*.' 1-'./**=25')*82' 2' ,)*'-1>9% '=*>;/6-,'1'?62'1',)*.*'>6+*-2.' .' ?*2, 12*0'D');/[' I '+' Q 'NQKX',)6,',)*' *2,-62>*.' 2,1',)*?'6-*'.1' 26--18',)6,'12/'6'. 25/*' =*-.12'>62' >-**=' 2'6,'6',?*T 620',)6,',)*'>6+*-2.' 6-*' .1' >-119*0',)6,'6'=*-.12' .' ??*0 6,*/'1;,'1' . 5),';2/*..'>/1.*/'1//18*0% ().'?6'.*-+*',1'//;.^ ,-6,*' ?1.' L'N% (1',)*.*'5-1,,1*.',)*'=-1=)*,.' /^ A6)'620'/.)6'1,*2'-*.1-,*0'M' 25.' L+ 'R'._% KT' K' 25.' 'K T' +'K T' 620'>1?='=*-)6=,' ' 25.' L+ ' NX% ,',)*'=-*.*2,'06 ' .'.)182'6'>6+*-2' >6//*0',)*'>6+*'1' /A6)'6',/,,/*'D*/18',)*'/129.I' 6+*-2'6/-*60 ' ?*2, 12*0'620'8)>)' .' 218'6'<1.^ /*?'.62>,;6-% $=12',)*'21-,)C8*.',.;??',.' 62' 62> *2,'*.,6D/.)?*2,'1' 6-?*/,*' ?129.'8)>)'1-^ 0*-' 20**0'0*-+*0',.' 26?*'-1?',) .'?1;2,6 2% ** ! ()*'1-0*-' .'.6 0'2',)*',-60 , 12.' 1',)*' 6, 2');->)',1')6+*'1-5 26,*0'8 ,)' /A6)' ?.0'M ,%B1)2'1'B*-;.%'_;1,*0'2'<./2' 'RX' D;,',)*'>12+*2,'86.'1;20*0'D' ,% 1;.'620',.' -*2>)'1-5 2'.',//.)182'D',)*'=-6>,>*'1';2;-/^ 25',)*' -*2>)'/65'12'+6-1;.'1>>6.12.% 086-0' 1'25/620'86.'6'D-1,)*-'1',)*'1-0*-'620'12*'1',.' ?1.,'6?1;.'5*2*-6/.'86.' ?12' ,19*.'1' *2,'M.**'0 ,)*'*L,-6>,.' 2' & /.12.' ;' 'K ST' 1-',)*' >12+*2,'620',)*' . 25;/6-'/*5*20.'>122*>,25'<1;2, 6-?*/8 ,)',)*' -5 2'<6-'620'1;-' 1-0'.**'<.C /2' ' C X% ' 6=1/*12',%86.';.*0'6.'6')1.=,6/ 0;-25',)*'.*5*'1' >-*'620'6,*-'.'.'-*,-*6,'86.'0*^ .,-1 *0'D',)*' -6D.% ',)*',?*'1' -DA'620'H/62C 5/*.'+ .,'M Q X'12/'12*' - 6-'-*?6 2*0',)*-*'M-X S X% ()*'1/0'>12+*2,'86.'0*.,-1 *0'D' DO6//6)' 6.)6'8)1'>12+*-,*0',)*'?6,*-6/.'1',)' .'182';.*T D;,' ,'6.'1'/6,*' 16-.'D**2'-*D;/,'12'6'.1?*8)6, ?=1. 25'.>6/*'D',)*'6 0'1'>12,-D;,12.'-1?' ;^ -1=*% 6-?*/.'92182'D',)*'26?*'1'D ') ' 2' -6D 62'8-,*-% ';=-*.*2,' ,**?.',1'D*'>6//*0' /X',)*' -6D.'D ' 6 ' -1?',)*'>12+*2,'1' / 6.'2*6-' ,.'21-,)*-2'*20% M **' 5*2*-6/GE')/'6 % (-2,6,*' ,' !'5 + ' ' ' =% S'._%%T */620' !'=%NK'._%T :6?*.+*/0' 'N RT' >);'^ D*-,'5 ' 'K T' 1D 2.12'5 " ' ' S ':T ()1?.12' ' ';+' 'RNT' 1-,*-'# +' '$ '=%N T (-.,-6?' ' ' '=% RS%X / 'M *=,%d =A;.d' 2'B1.)%'1') %) ' 2' 6?%620')-12%X% ',182' 2',)*' ?1;2,6 21;.'>1;2,-'1'B;^ 06)'MB1.)%d ' X',)*'-*.0*2>*'1' 6D6/'M' 6?% d d 'K' ' ' X'620',)*'26,+*'=/6>*'1' 6+0.'6^ +1-,*'8 *' D 56/,)*'6-?*/,*..J'M' 6?%LL+ ' NT' ')-12% ' X% ()'.'86.'01;D,/*..',)*'6-?*/6, 8)>)' 6;/.*,';='6' '=/6>*'J'MI 7' " :'>1?=6-*'K 6?'L+ ' Q' D.6/1?.'=/6>*J'8)*-*,*)*'.6?* 81-0'.';.*0X'6,*-')'+>,1-'1+*-' ?6/*9'M' 6?% d ' KX% ()'.' 6-?*/'620'21,',)*'21-,)*-2'?1;2,' ?;.,'6/.1')6+*'D**2',)*'.=1,'6,'8)>)'9 25'$[[6)')60')'.'+2*6-0.'M7')-12'LL+ ' X% 2',)*',?*' 1' ;.*D;.'620'B*-1?*',' 86.',)*'.*6,'1'6' 1?62' 56--.12'I, ! .%+,')%%1O ' 6-?*/;.X% ()*' =/6>*'6==*6-.'2',)*'86-.'1',)*' -;.60*.')6+25'D**2')*/0'D'9 25' ?6/-*>)'656 2.,' 6/60 2' 2' K'MP /C / 6?'1'(-*' ' ' ;' $ T 2' ? ' ' '% ' @ '=% RRNX% ()*'-;2.'1',)*',182'218')9 ' .,//-*?6 2'6,',*2' ?/*.'D*/18' :*D-12' 2'6' ./5),/'.1*.,)C*6.,'0-*>,12'?/*.'D*/18' :*D-12' 2'6' M<612X'U 'MU=)X'620'1,)*-'=/6>*.'26?*0'8,)' 6-^ ?*/2'B1.)%d ' % ()*'6-*'0*.>-D*0'D1,)'D' 1D^ 2.12'I; !'5 !' ' R CK T; !'$!' Q N'=% X620' D' 62'0*' */0*'IO ' ' C RX'620%6==*6-',1' D*'1'5-*6,'*L,*2,% ()*'/*'6-1;20',)*'.*?>->;/6-')*60'620'6/125',)*'.)*/+25'.0*.'1'6'/,//*+6//*' 8)>)'.'.),;,'2'D'-;55*0'/?*.,12*'-1>9.% ()*')1;.*.'6-*'6/!2'-;2.'620',)*'-1=)*,.'620'12*'1' ,)1'+6//*' '.'6'/6-51'6-, >6!-*.*-+1-'.;==/*0'D'6

1;2,6 2' 6?125',)*' 2* 5)D1- 25' -1>9.% ( ) .' .' ?*2^ , 12*0' 2' ,)*' 6>>1;2,' 1 ' 9 25' ?6/- >) .' 1>>;=6, 12' 1 ',)*' =/6>*' 620' 218' 5 +*.' .)*' 26?*' 1 ') ' =; A' D '',1' 6' -; 2*0'>6../*' 1 '5-*6,' .,-*25,)' . .;6,*0' 8*.,^ 86-0' 1 ',)*' -*.*-+1 -' 12') 5)' 5-1;20' .)*' ?1.,' -*^ ?6-96D/*' 1DA*>,' 2',)*' =/6>*% ,.' 86//.' 6-*',*2' **,' ,) >9' ,/ * -' ./1= 25' D6.*?*2,' 620' /7*+>//*0' ?6.12- ' 6-*' *+ 0*2,/ ' 1 'B*8 .)' 1- 5 2 ' =-1D6D/ ' ,)*' 81-9' 1 ' : *-10% ()*' 2,*- 1-' 86.' -*?10*//*0 ' 620' ,)*' ;==*-' =6-,' -*D; /,'D ',)*' 6-6>*2.% *. 0*' ,' 6-*',)*' -; 2.' 1 '6' ?6.. +*' -1;20' ,18*-% -1;20' 620' 6?125',)*' -; 2.' 1 ',)*'/1>6/ , '6-*',)*' 1;206, 12.' 1 '.*+*-6/' 1/0' >);->)*. ' .)18 25' ,)6,',)*' ,182')60'6,' 12*' =*- 10' 6' /6-5*')- ., 62' =1=;/6, 12% M **' **,[*2'5 1' 'Q' RT' 1-,*-' # +' '$ 1' =% S T' >)86-[' 1C' !=% S%X **' !

' 6- ?*/ ,*' M:*D') ' ,)*'0*. 526^ , 12' 1 ' 6D6/M *=,%) % 1 ' ' 6?%LL+ 'CNT' LL. ' ST' K' 6?% 'KX'620') .' 8 *' D 56 /M *=,%) %%-*O ' % ' 6-?*/ ,*.. J' K' 6?% ' NT' ')-12% ' XT' 6.' 6/.1' 1 '12*' 1 ' 6+ 0 .' 86-- 1-.' : *[-6 'M *=,%=,=C' K' 6?% LL ' N X 1-' : *[-1' M *=,%) % ' ')-12%L 'N XT' 01;D,/*..' 6.' D* 25' 2)6D ,62,.' 1 ' L 'M_%+%X' 2' B;06)'MB1.)' L+ ' X

d' 6-?*/ ,*.,' ,)*' ?126.,>' 1-0*-' 1 ' ,%< 6- ' 1 ' <1;2,' 6-?*/%J' ,' 86.' 1;20*0' 6.' 62' 6..1> 6, 12' 1 ')*-?.,' D ' *-,)1/0' >1;2,' 1 ' ?15*.' 6D1;',' S' 12' <1;2,' 6-?*/' 620' -*>* +*0' ,.' -.,' -;/*' 2' K R' -1?' /D*-.,' =6,- 6->)' 1 'B*-;.6/*?',' 1' 8)1.*'0 1>*.*')/1;2,' 6-?*/ D*/125*0' 8)>)' -;/*' 86.' .62>, 12*0' D ' 7=*' : 121- ;.' ' 2' KK % ()*'-;/*' 86.' 1;20*0' 12',)6,' 1 ' ,% 6./' 620' *2A1 2*0',)6,',)*' =- 1-' D*' */*>,*0';262 ^ ?1;./ '1-' D ' ?6A1- , 1' ,1')6+*' =/6>*.' 2' 0*.*-.' .*=I' 6-6,*' >*//.' >1?12' -* *>,1- 1' 6// ,1' -*?6 2' 2' ,)*' -' >*//.' ?*0 .6, 25' D ' 06 ' 620' 2 5),' *L>*=., 25' 8)*2' 6,' ,')1;-.' 2' >);->)' *,>%T' ,1')6+*' 6// ,) 25.' >1? ?12' 21' /*.)' 6//18*0' .6+*',1',)*' . >9' 6..' -1?' : 1/ -110' ,1' 6.,*-' *+*- ' 06 ' *L>*=.*',1',)*' . >9' ,1' 1D.*-+*' >/ 6.,' ,1' /6D1-' 620',1' 9**=' . /*2>*' -1?' 6 ,*-' 1?^ =/ 2*',$' - ?*% ()*')6D ,' 86.' 6,' -.,' 8) ,*' 6.' 8>// 6.' ,)*' ?62,/*' 1 ' 8) >)' ,)*' D1,,1?' 86.' /6>*0',) >9' (,' *//18' D6;0.' 62' 1-26?*2,' .;==-*..*0' D ' /121C' - ;.' % ()*' ,)*2' 6..;?*0',)*' -1D*' 1 ',)*' < 2 ?.' 620' 6' 8) ,*' ?62,/*% ()*' 6-?*/ ,*.' 8 *-*' 6/.1' 92182' D ',)*' 26?*' 1 ' ; '1-' ; 8'@ 'I1@ Y ' ; /E' D*>6;.*' 1 ',)*' '0-*..' 1 'D/6>9' 620' 8) ,*' 8) >)',)*' 6-6>*2.' 8)*2',)*' ,119' =1..*.. 12' 1 ',)*' 6.,' >1?^ =*//*0',)*?',1' 8*6-' 2.,*60' 1 ',)*' 8) ,*' 0-7..' 8) ,*' D* 25' 8 ,)',)*?' 6' ?6-9' 1 '0 ., 2>, 12% ()* '>6?*',1' ;-1=*' 2' KNQ' 620')60' .*+*2' *.,6D/ .)?*2,.' 2' 25^ /620% ()*' -.,' 4*2*-6/)6=,*-' 86.')*/0' 2' K ' 2' 25/620' 6 ,*-' 8) >)' ,)-1;5)' ,)*' 6>, + , ' 1 ' ,)*' -' 5*2*-6/' ?12' ,1>9' "20',)*'=-1,*>, 12' 1 ' 221>*2,' ' ,)* ' .=-*60' 8 ,)' 5-*6,'-6= 0 , % -1?' 221>*2,' ' '' '->* +*0' 2' K ' 6' 2*8' -;/*' 8) >)' 86.' D*,^ ,*-' .;,*0' 1-' ,)* -' 2*8' . ,;6, 12' 620' 8) >)' >/6..*0' ,)*?' 6?125',)*' ?*20 >62,' 1-0*-.% 2., 56,*0' D ',)*' 0*. -*' ,1' *L>*/' ,)* -' - +6/. ' ,)*' 2+*2,*0',)*' =-1=)*,' 6D.;-0' /*5*20.% ()*' =-*,*20*0',)6,' ,)*' =-1=)*,' / A6)' 60' D**2' ,)*' 1;20*-' 1V,)* -' 1-0*-' 620',)*' -^ 5 2' <6-'(' ?*?D*-' 8)*-* 1-*',)* '>6//*0',)*?./*+*.' @ ' ; 1'1 I;' ' ' !' ()*.;>>*.^ . 12' 1 ',)*' 5*2*-6/.' 1 ',)*' 1-0*-' 6>>1-0 25',1',)* -') .,1- 62.')6.' 2*+*-' D**2' 2,*--;=,*0'. 2>*',)*'=-1=)^ *,' / A6)% ()*' C8*-* 0;/ '>6., 56,*0' 620' - 0 >;/*0' 1-' .;>)' =-*,*2. 12.' D ',)*' B*.;,.' 620' =6-,>;/6-/ ' D ',)*'/*6-2*0' 1//620.,' 6=*D-1>)% , /1',)*');->)' 2*+*-' 0*>0*0' 656 2.,',)*?' 1' 1=*' 221>*2,' ' ?^ =1.*0' ./*2>*' 12' D1,)' =6-,*.' 620',)*' 6D/*.' 1',)*' 6-?*/,*.' >62' D*' -*60' 2',)* -'/ ,;-5 >6/ D119.',1',) .' O6A%

()*' 5-*6,' .>) .?' 1',)*' ,)' >*2,;-' .=/ ,'6/.1',)*' 1-0*-' 1',)*' 6-?*/,*.' 620' >1?=/*,*0',)* -' >1--;=^ , 12' 6200' 0 .1-562 [6, 12% *+*-6/ 6,,*?=,.' 6,'6' -* ^ 1-?6, 12' 8*-*' ?60*' 1' 8) >)',)6,' 1' ()1?6.' 12C' 2*>,*' 8)1'/6 0',)*' 1;206, 12' 1',)*' 125-*56, 12' 1 <62,;6' 86.',)*' ?1.,' .;>>*.. ;/% ()1?6.') ?.*/' M6' >*/*D-6,*0' =*2 ,*2, 6-A' 2' -62>*' 620' 2',)*' *,)^ *-/620.X' 86.' D;-2*0' 2' :1?*' 6.' I6')*-*, >' D;,') .' >125-*56, 12' .112' *L,*20*0' 8 0*/ ' 620' -*>* +*0',)*' =- + /*5*' 1 ' /**, 25' 6' + >6-' 5*2*-6/% 1=*' ;5*2 ;.' ' ? , 56,*0',)*' -;/*' 1 ' 221>*2,' ' 2' N ' 620' *2^ 0*6+1-*0',1' ;2 ,*' 6//',)*' 6-?*/,*.' *L>*=;,)*' 12^ 5-*56, 12' 1 ' 7/62,;6' 12',) .' ? , 56,*0' -;/*' 6.' 6' 2*8' D6. % 1-' ,)*' .6?*' =;-=1.*' ,)*' 5*2*-6/ -*>* +*0' -1?' ;.' ' 2' R',)*' 6;,)1- , ',1' =-1>**0' 8 ,)' -*56-0',1' 6.,C06 .' 6>>1-0 25',1',)* -' 18?A 07T?>2,% 2' K' 5*2*-6/B1)2' 1-*,)',- *0' 1' 2,-10;>*' 6'5-*6,^ *-'.,- >,2*..' 1 ',)*' -;/*' 2,1',)*' 8)1/*' 1-0*-% : .'=/62.' 8*-*' 6==-1+*0' D ' 1=*' 6;/ ' D;',)*' 6;,)1-' 86.' =1 .12*0' D ' 0 .>12,*2,*0' ?129.' 2' % ()*' .6?*' 1-*,)' *.,6D/ .)*0 ' 2' K',)*' -.,' >12+*2,' 1 ' 6-^ ?*/,*' 2;2.% 2' S' L,;.' ' *.,6D/ .)*0',)*' (*-C' , 6- 62.' 1 ',)*' 1-0*-% ()*' -*>* +*0' 6' -;/*' 2' SN ' 8) >)' &6.'-* 1-?*0' 2' S Q% 3 3 (/*' ' 1' 6-?*/,*.' -*>* +*0',)*' -' 26?*' -1?' 51 25' D6-* 11,*0' 620',119',)*' -' -.*' 2',)*' S,)' >*2,;-A% ()*A' =-1 *..*0',)*' 1-0*-' 6.' -* 1-?*0' D ' ()*-*.6' 1' + /6' 2' =6 2' 8)1' 0*. - 25' 6' .,-*>,*-' -;/*',)62',)6,' 8) >)',)*' 6-?*/,*.'M 6-,)*-' ? , 56,*0' ' ' ;5*2 ;.' ' 2' N X 6 1-0*0' 6D1;,' SK' *.,6D^ /.)*0' 6' 2*8')1;.*' 6,' + /6' ;20*-')*-' -* 1-?*0' -;/*' 620' 2' ',)*' .>6/>*6,.' 8*-*' *L*?=,*0' -1?',)*' A;-.0 >, 12' 1',)*' < , 56,*0' 6-?*/,*.% ()*' 8*-*' 0 + 0*0' 2,1',8 1' 0 ., 2>,' D10 *.',)1.*' 1 ' =6 2' 8)1' 8*-*' >1?=1.*0' 1'. L' =-1+ 2>*.' ;20*-' 12*' 5*2*-6/' D*^ 25',)*' ,- >,*.,% ()*%1,)*-.')60' .*+*2,**2' =-1+ 2>*.' 2' -62>*' ,6/ ' 1/620' 4*-?62 ' *-. 6' *,>% ' .' 6'-;/*' 8 ,)',)*?',)6,' 2' *+*- ' =-1+ 2>*',)*-*' .)6// D*' 6')*-? ,65*' .)6// D*' 21,' ?1-*',)62',8*2, ' ?129.' 8)1' 6 ,*-',)-**' 8**9.'-*,;-2',1',)*' ?126.,*-E ' 620' 6-*'-*^ =/6>*0' D ' ,8*2, ' 1,)*-' ?129.% ()*-' ?622*-' 1 '/ *' .' +*- ' 6';.,*-*' M 12012' 6 !' ' 1' .%+%X%

6-* 11,*0' 6-?*/,*%

()*' =62 .)'>125-*56, 12' D .' D*>I1?>' *6-/E' *L, 2>,' 2' >12.*_;*2>*' 1 ',)*' .;==-*.. 12' 1 '6// ,)*' ?126.,>' 1-0*-*' 2' =6 2% 2' Q N' 21' ?1-*' 7/62' 1;-,**2' >12^ +*2,.' D*/125 25' ,1' ,' 8*-*' /* ,' 2' 1;,)' ?*- >6% ()*-' =-1>;-6,1-' 5*2*-6/ / +*0' 2',)*' 5*2*-6/)1;.*' 1 ' ,)*' ,6/ 62' >125-*56, 12' 1;2,*0' SN' >12+*2,.' 8 ,)' 6D1;,'R ' ?*?D*-.' 2' ,6/ ' -62>*' */5 ;?' : 1//620' ;.,- 6' 6+6- 6' -*/620' 1/620' 620' (;-91+% ')1' < , 56,*0' 1-' MG6/>*6,*' M 6-? */,>.')60' >12+*2,.' 2' ,6C' E' ;.,- 6' 6+6- 6' -*/620' 620' 1/620' 8 ,)' 6D%1;,' S ' ?*?D*-.% 2' QS ',)*' 6-?*/,*' ?129.' 6/,15*,)^ *-'2;?D*-*0' K ')1;.*.' 2' ,6/ T' K' 2' 4*-?62 ' :1/^ /620' 620' */5 ;?T' K' 2' -62>*' Q' 2' -*/620*' KK' 2' 6.,*-2' ;-1=*' M 1/620' 46// >6' ;.. 6' /;256-+X' S' 2' .6' ' 2' <*L>1' 620' 1;,)' ?*- >6' 620' 6' *8

2' =6 2% ()*' 2; ?D*-' 1 '?*?D*-.' 86.' *., ?6,*0'6,' 6D1;,' % 2>*' ,)*2',)*' 2; ?D*-') 6.' D**2' -*0;>*0' DE7,)*' .;==-*.. 12' 1 '6' 2; ?D*-' 1 '>12+*2,.' 2' ,6/ % ()*' 6-?*/ ,*' 2;2.' 1 ',)*' -* 1-?' 1 '()*-*.6')60' 2' Q N' 6D1;,' R ')1;.*.' 2' ,6/ ' -62>*' */5 ; ?' 25^ /620' -*/620' 6+6- 6' -;.. 6' ; .,- 6' 1/620' 1-,)' ?*- >6'M6,' 6/, ?1-*X' 1;,)' ?*- >6'620' 20 6i S' 1',)*.*'>12+*2,.' 8*-*' 2' -62>*' 2' QS ' =6 2'620' 1-,;56/')60' ')1;.*.T ,6/ ' RT' -62>*' T' 4*-^ ?62 ' : 1//620' 620' */5 ; ?' KQT' 4 -*6,' - ,6 2' 620' -*/620' T' 1/620' NT' ?*- >6' T' . 6' T' 6/,15*,)^ *-' 4 'D1;.*.' 8 ,)' 6D1;,' NK '?*?D*-.%

' >125-*56, 12' 1 '1;-' 60 '1 ' <1;2,' 6-?*/ 86.' 1;20*0' 2' -62>*' 2' K% ,.' ?*?D*-.' 6-*' 21,' 1D/ 5*0',1' *2,*-' 6' >12+*2,'D;,'>62' =6..',)*-' 21+ , 6,*' 2',)*' 81-/0% ()*')6+*' ?62 ' 2.,;, 12.' 2' -62>*' =- 2> =6// '0*+1,*0',1',*6>) 25'620',)*' 2;-. 25' 1',)*' .>9' 620')6+*' 12>*' 6' *6-' 6' 5-*6,' 56,)*- 25' 6,' +C -62>)*. 1-',)*' =;-=1.*' 1 '6' >1?12' .= - ,;6/ !' ()*-*' .'6/.1' 6' >125-*56, 12' 1 ' 6-?*/ ,*.' 2',)*' 6->)^ 0 1>*.*' 1 ' *8' -/*62. '$% %' 8)1',*6>)' 1;-' .>)11/.% ' <622 25' 2 '$!'- 'M 120% QS X'=% S'._ %T *)-' ? " " ' ' " ' 'N ST' 'N T' !) ' 'D !'& 1'D " "' ')" ' M/ 6, .D12 QSK%

6- ? */ ,*..' M ' 6?% LL+ 'NT' ')-1-,% ' X% **' < !

6- ? 'M:*D%) E' 1' 1,)*-^ 8 .*' :' *=,% O % 'D;,'O % ' 2' L10%+' X' ,)*' 26?*' 1',)-**' ?*2%

% ()*'/6.,'26?*0'1',)*' 1;-'.12.'1' > D*2'M4*2% L/+ 'RT' L10%+' X% % Q K% : .'0*.>*2062,.' 8*-*'>6//*0'6,*-') ?' 'M ;?'LL+ 'SX% K% '.12'1' :*--12'MB;06).' 5-620.12X'620' 6,)*-' 1' : ;-'M')-12% +'KXT' */.*8)*-*' >6//*0' 'M ' QX' 1-' 'M 'RX% % %=1.,' Q S%

N% ()*.12'1 'U -6-'>-' U6DO '620' *,)*-'1',)*',-6 ^ ,1-' >)6 'MB1.)' + ' T' ')-12% ' X% % % 62,*' S Q% 1?*')6+*'*--12*1;./ '0*2,,*0')?' 80,)',)*' =-*>*0 25' D;,',)*' 26?*.' 2' ')-12% +'K'6-*' *+ > 2^ 0*2,/ 'E '0 -*>,'.;>>*.. 12' 1 ' 6,)*-' 620' .12' -1?' B';C 06D%

6- ? ,*' M:*D% (1' *=,% O %% E',)*'=6,-12 ?>'1',)*'0*.>*2062,.' 1',)*' *;C D12 ,*' 6-?'M ;?% LL+ 'SX%

6-26)62' (' % %' =-*. 0*2,' 1 ' - 2>*,12' 1//*5*' 86.' D1-2' 1+% ' 2' ;?D*-/620'>1;2^ , ' 6% 2' 1+*?D*-' RQ')*' *2,*-*0',)*' A;2 1-' >/6..' 2',)*' >1//*5*' 1 ' *8' B*-.* ' 620' -*>* +*0',)*' -.;'0*5-**' 2',)*' 6-,.' 2' *=,*?D*-' Q ' :*' -*60' ,)*1/15 ' ;20*-' B1)2' <`< //62' % %' 2' &*.,*-2' *22. /+62 6% 2' Q ')*' -*,;-2*0',1' -2>*,12' 6.' ,;,1-' 620' -*. 52*0')./ ';;,1-.)=' 2',)*' 6// 1' Q N% 3:*' 86./>*2.*0'D',)*'=-*.D ,*- '1' *8' -;2%.8 >9'6,' 6.9*2-05*' 2' =-/' Q '620'=-*6>)*0' 2',)*' + > 2^ , '1' :6>9*,,.,182' L 1-0'620' 218/,12% B62;6-E!' Q ')*' 86.' 1-06 2*0'=6.,1-' 1',)*' ;2 ,*0')>);->)*.' 1 ' &),*.D1-1;5)' 620' $,>6 ' % % 2' *D-;6- ' Q ')*' ?1+*0' 1-').')*6/,)' ,1' 4*1-5*-*' 1' 62.' 620' 1=*2*0' 6' .>)11/' /*6>) 25',)*-*' 1-' 2 2*' *6-.% 2' <6%W QKN')*' 86.' >)1.*2'=-*. 0*2,' 1 ',)*' >1//*5*' 1 ' *8'B*-.* ' 86.' 26;5;-6,*0'12',)*' ,)' 1 ' ;5;.,' QKN' 620'6 .,*-' 6' .-+ >*' 1',)-,' *6-.' -*. 52*0' 2' Q N' 620').' >122*>,12' 8 ,)',)*' >1//*5*' 86.' 0 .^ .1/+*0'B;2*' Q % :*%86.' 2'0 *-*2,'>6=6>,*.'>12^ 2*>,*0' 8 ,)',)*' >1//*5*' 1-',)-,C +*' *6-.' + [%,81' *6-.' 6.' 6' .,;0*2,',81' 6.' 6',;,1-'620',-,A C12*' 6.' =-*. 0*2,% :.'>)6-6>,*-' 86.'0.,25;.)*0'D'? /0^ 2*..'A1 2*0',1' -?2*..'620' + 51-T')./*6-2 25' 86.' *L,*2. +*' 620')./=-6>, >6/ 6D/,' 2',)*' 1-0 26-AI7 6 ^ 6-.' 1'/ *' *L>**0 25/ '6>;.*% //./6D1-.' 8*-*' +*-.' ;.* ;/ 2' +*-.' 0*=6-,?*2,' 1 '6>,+, '6.' 6' ?62'6')-.,62'>/*-5 ?62',)*')*60'1'6'?1.,' ?=1-,62,'*0^ ;>6,126/ 2.,,;,12' 620' 62' * >*2,'>1C1=*-6,1-' 2' 2;?*-1;.' .>)*?*.' 1' D*2*+1/*2,' *2,*-=-.*%J' :* 0*0' 2' *86-9' %B%'<6->)'K Q R%'7 '-S'L '" :' & /.12' !'& 1' QS '=%SQ%

6-726 ?'M7 6=N2,H/+% -% 6=7.,' ;/5% 1' ?X'6' /6-5*' 620' 1-, *0'>,' 2',)*'>1;2,-'*6.',1' B1-062 ' ,)*' /620' 1' 46/660J '>12,6 2 25' 6' ,*?^ =/*J' '-! ' ' %X% ,' 86.' D*. *5*0' 620',69*2' /X'B;06.'<6>>6D6.;.'M'<6>>% +'KS' N' X% $20*-' ,)*' 26?*' 1' . .'M-1' 6=-,1 7X',)Z' .6?*' 1>>;-^ -*2>*' .'-*/6,*0' 2'K'<6>>%L 'K 'K%',)*',*?=/*' D* 25' >6//*0',)*' .'M-1' N& % 8!' ()' .' *26D/*.'; .',1' 0*2, ',' 80,)' '. $41 . ' M_%' %X%

6-26/'M16=I>,>1-X' 1.)/A' .*2.;6/% & >9*0'1-' ;2>12+*-,*0'?*2'6-*'-*=-*.*2,*0'6.' ;20*-',)*'01?^ 26,12'1'6' >6-26/?20'8)>)' .'*2?, '656 2.,' 410 J'620'8)>)'?;.,'..;*' 2'0*6,)'M 1?% + 'S' X% &1-/0/E7*2A1 ?*2,.'6-*' >6-26/'D*>6;.*',)*' 12/' ?2 .,*-',1',)*'868 2,.'620'0*. -*.'1',)*'62 ?6/=6-,'1' ?62'M 1?% L+'K T' 1-% L' X% ()*' >*-*?12 6/=6-,.'1',)*'<1.6 >0. *2.1,12'8*-*'>6-26/T',)*' -*C ?*0 6,*/ ',1',)*' D10 *.' 1' ?*2' 620' D*6.,.' M?D%+ 'ST' L' X% ()*' 8*6=12.'1'6')-.,62.' 86-6-*'6-*'21,'>6-26/T',)*' 6-*' 21,'1',);?62'1-52' 21-'6-*',)*'0-*>,*0'D');?62'8.01?'MK' 1-% L 7' 6/?*,% **' '!

6-2*/62% **' $! I

6-2*.*>>)' + '62',6/62'-*1-?*-'620' ?6-,-'1',)*' 4,)'>*2,;-'86.'D1-2'2'/1-*2>*'1'6' 5110' 6?/ % :.'*0;>6,12'620'>;/,;-*' 56 2*0'// ?' ,)*'*.,**?'1',)*'D*.,'.>)1/6-.'1',)*', ?*' .;>)'2.' 601/*,;.'620' *?D1% :*'D*>6?*'.*>-*,6-'620'=-1C ,)121,6-',1' 1=*' /*?*2,' '620')60'.1'?;>)'2^ /;*2>*',)6,',' 86.'.6 0' ,)*');->)'86.'51+*-6*0'D' 6-2*.*>>)'-6,)*-',)62'D' /*?*2,%J' ,' 6=/*.')*' ?D D*0',)*' * 1-?*0'01>,-2*' -1?' 6/0*.'M_% +%X' 620' 2' S)*'86.'6>>;.*0'6.'6')*-*,>'620'>,*0',1' 1?*% ()-1;5)',)*' 6+1-'1' 6;/ ')*'*.>6=*0'D;,' .1;5),'.6*,' 2' -62>*'8)*-*')*' -*?6 2*0'6,',)*' >1;-,'1' :*2-E7' ';2,/ K'8)*2'8*,)1;5),'/*' 2)5),'-*,;-2',1',6/ '620',119';=')./D10*'6,' 60;6% 2' ')*' 86.'.;?12*0',1' 1?*T D;,' 6/25',1' 6==*6-')*' 86.'*L>1?2>6,*0'6.'6')*-*,>' =-/S' R% ;.' '12')./6>>*..12'-*?1+*0',)*'.*2,*2>*' 1'*L>1?2>6,12'8,)1;,'62'-*>62,6,12'12',)*' =6-,'1' +%-2>.*>>)'6==-*)*20*0'0625*-'620',119'-* ;5*' 80,)' 1.?1'5-620C0;9*'1'(;.>62 '8)1'D6.*/'.;--*20*-*0')?'12'6'0*?620'2',)*'=1=*.'18?'8-,25% :*' 86.' ,-*0'D',)*' 2_;.,12'60)*-*0'.,*60 6../',1',)*' 6,)T' 620' +6.'>120*?2*0% 2' >,% N S')*' 86.' D*)*60*0' 620')./D10'6,*-86-0'86.'>12.;?*0% '<`-*'5 ' ' ' >)6=' +'M620'6;,)1-,*.' ,)*?'5 +*2X%

6-2 1/6% **' . !

6- 12'MK'<6>>% L 'K 'KSX% **' !

6-2 +6/'6'=*-10'1'*.,+,'2' 1?62' 6,)1/>' >1;2,-*.'D*5 22 25'12',)*'06 '6,*-',)*' =)62 '620' *20 25'6,',)*'>1?2>*?*2,'1' *2,'12' .)'& *02*.^ .>6206/8)>/',)./.*6.12'1>6.12.% 2' 1?*',)*' 6-2 +6/.'1D.*-+*0'8,)'-*+*/- '?6._;*-60*.'*6.,.' 620'5-1,*._;*'=-1>*..12.% ()*'4-**9.'B76+*'6'.?^ /6-'=*-10'8)>)',)*' >6// &% (:' , >1 2A-*)*20.',)*'8**9'=-*>*0 25',)*-' *6.12'1>6.12.% 2' 1?*',)*' 8)>)' 6.' <6-2;.'.6 .' 4 4 '% ' ' 8 ' ' ' % % "' !P' '5110'6>>1;2,'1' ,)*' 1?62' 6-2 +6/.'5 +*2' 2' ==/*,12.' 4 !' ' %C **'6/.1' >1/6 ' J' '5 ' ; "

liorum (Helmst. 1679, 4to); Zeuner, *Bacchanalia Christianorum* (Jena, 1699, 4to); Landon, *Eccl. Dict.* s. v.

Carob. See Husk.

Carol, a hymn sung by the people at Christmas. "The Christmas carol may be traced to the primitive Church. Tertullian (*advers. Gentil.* 39) states that at their feasts it was customary for the Christians to place in the middle such as were able to sing, and call upon them to praise God in a hymn, either out of the Scriptures or of their own invention. Durand also informs us (*Rel.* vi, 86, 9) that it was usual for the bishops on Christmas day to make sport, and even to sing with their clergy; and this custom was an imitation of the *Gloria in excelsis* of the angels, as we learn from Jeremy Taylor—"These blessed choristers had sung their Christmas carol, and taught the Church a hymn to put into her offices forever, on the anniversary of this festivity." For the popular carols of England, see Brand, *Popular Antiquities*, i, 262 sq.; Chambers, *Book of Days*, ii, 747 sq.—Eadie, *Eccles. Dictionary*, s. v.; Sandys, *Christmas Carols, Ancient and Modern* (Lond. 1833, 8vo). See Mysteries.

Caroline Books (*Libri Carolini* or *Opus Carolinum*), four books written against decrees of the second Council of Nice on the adoration of images, contained in the *Capitulare Prolixum* of Charlemagne. These books were drawn up under the direction of Charlemagne, but their preparation has been ascribed to Angilram, bishop of Metz, Angilbert, and to Alcuin. Roger de Hoveden directly names the last, and the most probable opinion is that Alcuin was the writer. At all events, they were written before the Synod of Frankfort in 794, and were published in the name of Charlemagne during the sitting of that council. In the preface the emperor declares that he had undertaken the work "*Zelo Dei et veritatis studio, cum confidentia regni sui sacerdotum.*" The great principles of these books are the following:

Lib. ii, c. 21: Solus igitur Deus colendus, solus adorandus, solus glorificandus est, de quo per Prophetam dicitur: "Exaltatum est nomen ejus solius" (Psa. cxlviii, 13): Cujus etiam Sanctis, qui triumphato diabolo cum eo regnant, sive quia viriliter certaverunt, ut ad nos incolumis status ecclesiæ perveniret, sive quia eandem ecclesiam assiduis suffragiis et intercessionibus adjuvare noscuntur, veneratio exhibenda est: imagines vero, omni sui cultura et adoratione seclusa, utrum in basilicis propter memoriam rerum gestarum et ornamentum sint, an etiam non sint, nullum fidei catholicæ adferre poterunt præjudicium: quippe cum ad peragenda nostræ salutis mysteria nullum penitus officium habere noscantur. Lib. iii, c. 16: Nam dum nos nihil in imaginibus spernamus præter adorationem, quippe qui in basilicis Sanctorum imagines non ad adorandum, sed ad memoriam rerum gestarum et venustatem parietum habere permittimus: illi vero pene omnem suæ credulitatis spem in imaginibus collocent; restat, ut nos Sanctos in eorum corporibus vel potius reliquiis corporum, seu etiam vestimentis veneremur, juxta antiquorum patrum traditionem: illi vero parietes et tabulas adorantes in eo se arbitrentur magnum fidei habere emolumentum, eo quod operibus sint subjecti pictorum. Nam etsi a doctis quibusque vitari possit hoc, quod illi in adorandis imaginibus exercent, qui videlicet non quid sint, sed quid innuant venerantur, indoctis tamen quibusque scandalum generant, qui nihil aliud in his præter id quod vident venerantur et adorant.

The Caroline books were first printed by Jean du Tillet, bishop of Meaux, under the assumed name of Eriphilus, or Elias Philyra (Paris, 1549, 8vo), at Cologne in 1555; by Goldastus, 1608; and in his *Constitution. Imperial.* tom. i; and, lastly, by Heumannus at Hanover (1731, 8vo), under the title *Augusti Concilii Nicæni Secundi Censura*.—Palmer, *Treat. on the Church*, pt. iv, ch. x, § 4; Bergier, *Dict. de Théologie*, s. v. *Image*; Gieseler, *Church History*, per. iii, § 12; Herzog, *Real-Encyklopädie*, vii, 429; Landon, *Eccles. Dict.* s. v. See Image-worship.

Carolostadt. See Carlstadt.

Carpenter, the rendering in the Auth. Vers. of the Heb. חָרָשׁ, *charash'* (2 Sam. v, 11; 1 Chron. xiv, 1; Isa. xliv, 13, etc.), as also of its Greek equivalent τέκτων (Matt. xiii, 55; Mark vi, 3; 1 Esdr. v, 14; Ecclus. xxxviii, 27, etc.), a general name, applicable to an artificer in stone, iron, or copper, as well as in wood. See Artificer. The Hebrews, at a very early period, appear to have made considerable progress in these arts (Exod. xxxv, 30-35). See Art. Of their works, however, we have no existing remains; but by a reference to the antiquities of Egypt, the country where their proficiency was acquired, we may obtain a satisfactory notion of their general character. See Handicraft. Tools of various kinds used in carpentry, as axes, hammers, saws, planes, chisels, and centre-bits, are represented on the ancient monuments, and to most of them we find allusions in Scripture (1 Sam. xiii, 19, 20; Judg. iv, 21; Isa. x, 15; xliv, 13). There appears but little difference between these implements and those of our time. See Turner. The ancient Egyptians were acquainted with the art of veneering: this proves that they knew the use of glue. They had chairs and couches of very graceful form (comp. Gen. xliii, 33; 1 Sam. iv, 18). Among the works of the Egyptian artists are found tables, bureaus, wardrobes, and coffers; several of the latter, probably designed for jewel-cases, rival in beauty the caskets of gold and silver. See Mechanic.

Modern Oriental Wooden Lock-maker.

Carpenter, Charles W., a Methodist Episcopal minister, was born in New York, Dec. 16, 1792, where his parents were members of the John Street Church. He entered Columbia College, but was compelled by ill health to quit before graduation. He was converted in his eighteenth year, and was licensed by Freeborn Garretson to preach in 1812. He entered the itinerant ministry in the New York Conference in 1814, but in 1816 he was obliged, by the weakness of his health, to go to Savannah, where he was engaged in business for ten years. During this time he labored as a local preacher, and was ordained deacon in 1820, and elder in 1826. In 1828 he returned to the North, and was readmitted into the New York Conference, in which he filled important appointments, as pastor and presiding elder, until 1850, when he was compelled by ill health to become supernumerary. He died May, 1853, at Plattekill, N. Y. He was of very uniform character, good literary acquirements,

620' 5-*6,' /1+*/ 2*..' 1 '0 .=1. , 12% .' 7' ? 2 .,*-') *' 86.' 6D/*' 620' .1;20 '620') .' 2 /;*2>*' 86.' 5-*6,' 620' 0;-6D/*% : *' 8 ,.' .*+*-6/ , ?*.' 0*/*56,*' ,1(,)*' 4*2^ *-6/ 9X2 *-*2>*' 620' 6.' =-*. 0 25' */0*-') .' 60? 2 .^ ,-6, +*',6/*2,' 86.' -*?6-96D/*% : *' 86.' .*>-*,6- '1' ,)*' *8' 1-9' 12 *-*2>*' 1-' .*+*-6/ *6-.' 620' 2' 6//=1.,.')*' 86.' * > *2,' 620' .;>>*.. ;/% : .' 0*6,)' 86.' A1 +/% ' ' 1'+' R T' =-65;*' (O(A26*' + ' NT' & 5),?A 2' ' '; "U1' % =% K %

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6-=[1+',)*.;-26?*'1'6' 6?/'8)>)' 86.'12*' 1',)*'?1.,'0.,25;.)*0'1',)*' ,)'>*2,;-' 1-',)*1^ /15>6//*6-2 25% ()*' -.,'*? 2*2,'?62'1',)*' 26?*' 86.' >2*0 9,' 6-=[1+'=-1*..1-' 1'/68' 6,' & ,,*2C

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He died Nov. 23, 1851. He published *Sermons* (1846-7, 2 vols. 12mo), besides detached sermons and addresses.—Sprague, *Annals*, iv, 697.

Carroll, John, D.D., first Roman Catholic archbishop in the United States, was born at Upper Marlborough, Maryland, in 1734. He was educated at St. Omer's, France, and at the colleges of Liege and Bruges, in Belgium. In 1769 he was ordained priest, and became a Jesuit. When the order was dissolved in France he went to England, and became tutor to a son of Lord Stourton, with whom he travelled on the Continent. On the breaking out of the Revolutionary War he returned to America, and took an active part on the side of the patriots. After the close of the war, the Roman Catholic clergy in the United States requested from the pope the establishment of a hierarchy, and Mr. Carroll was appointed vice-general. He fixed his residence at Baltimore. In 1789 he was named bishop, and in the ensuing year was consecrated. In 1791 he assumed the title of bishop of Baltimore. A few years before his death he was made archbishop. He died Dec. 3, 1815.

Carshe'na (Heb. *Karshena'*, כַּרְשְׁנָא, probably of Persian derivation; comp. mod. Pers. *Karshen*, "spoiler," or Zend *Keresna*, Sanscr. *Kreshna*, "black;" Sept. has but three names, of which the first is Ἀρκεσαῖος; Vulg. *Charsena*), the first named of the seven "princes" or chief emirs at the court of Xerxes (Ahasuerus) when Vashti refused to present herself at the royal banquet (Esth. i, 14). B.C. 483.

Carson, Alexander, LL.D., a Baptist minister, was born in Scotland about 1776, but early removed to Ireland. He began his public life at Tubbermore as a minister in connection with the Presbyterian Synod of Ulster, but having changed his opinions as to Church government, and adopted the views of the Independents, he seceded in 1803. Embracing Independent Baptist views, he formed a society at Tubbermore, of which he remained pastor to the time of his death. He wrote, in 1803, his *Reasons for separating from the Synod of Ulster*; and afterward produced numerous books and pamphlets—on baptism and other subjects of controversy—which are highly esteemed by the Baptists. Though a strenuous advocate of immersion, he was not a "close" communionist. After many years of incessant activity, pastoral and literary, he died at Belfast, Aug. 24, 1844, from the effects of a sudden fall into the Mersey at Liverpool a few days before. Dr. Carson was an earnest and often bitter controversialist. His dogmatism and arrogance detract greatly from the effect of his arguments. He is often right, often wrong; but, whether right or wrong, he is equally self-confident. Besides a number of pamphlets, reviews, etc., he published *The God of Providence the God of the Bible* (18mo):—*Theories of Inspiration* (18mo):—*The Knowledge of Jesus* (18mo):—*The Unitarian Mystery* (8vo):—*Examination of the Principles of Biblical Interpretation of Ernesti, Stuart, Ammon*, etc.:—a *Treatise on Figures of Speech*, and a *Treatise on the Right and Duty of all men to read the Scriptures* (N. Y. 1855, 12mo):—*Baptism, in its Mode and Subjects, with a Sketch of the Life of Dr. Carson* (Phila. 1857, 5th ed. 8vo).—Jamieson, *Cyclopædia of Biography*; Reid, *History of the Presbyterian Church in Ireland*, iii, 449.

Carstares, William, a Scotch divine and politician, was born in 1649, at Cathcart, near Glasgow, and completed his studies at the Universities of London and Utrecht. While in Holland he was introduced to the prince of Orange, who honored him with his confidence. After his return to England he became connected with the party which strove to exclude James from the throne, and, on suspicion of being one of the Rye-house conspirators, he was sent to Scotland, and put to the torture of the thumbscrew, which he bore with unshrinking firmness. On his liberation he went back to Holland, and became one of the prince of Orange's chaplains. He accompanied William to England in 1688, and was appointed king's chaplain for Scotland. He was subsequently of great service in producing a reconciliation between the Scottish Presbyterians and William III. A General Assembly being about to convene, at which it was understood that there would be opposition to the oath of allegiance, the king had delivered to a messenger dispatches directing the peremptory enforcement of the act. It is said that Carstares assumed authority to stop the messenger; and, presenting himself to the king (who had gone to bed) in the middle of the night, in the guise of a petitioner for his life, forfeited by his having thus committed high treason, to have prevailed on him to dispense with the oath. Whether the anecdote be true or not, there is little doubt that his influence obtained the dispensation. He became now virtually prime minister for Scotland, and received the popular designation of "Cardinal Carstares." Even after the death of William, his knowledge of Scottish affairs, and the respect paid to his talents, left him with considerable influence. In 1704 he was chosen principal of the University of Edinburgh. He died Dec. 28, 1715. See *State Papers and Letters, to which is prefixed the Life of Mr. Carstares* (4to, 1714); *Engl. Cyclopædia*; Hetherington, *Church of Scotland*, ii, 216.

Cart (עֲגָלָה, *agalah'*, from עָגַל, to *roll*; Sept. ἅμαξα [so in Judith xv, 11], Vulg. *plaustrum*; also rendered "wagon," Gen. xlv, 19, 21, 27; xlvi, 5; Num. vii, 3, 6, 7, 8; and "chariot" in Psa. xlvi, 9 [comp. Cart-wheel]), a vehicle moving on wheels, and usually drawn by cattle (2 Sam. vi, 6), to be distinguished from the chariot drawn by horses. See Chariot.

1. The carts which the king of Egypt sent to assist in transporting Jacob's family from Canaan (Gen. xlv, 19, 27) were manifestly not used in the latter country, but were peculiar to Egypt. These carts or wagons were, of course, not war-chariots, nor such curricles as were in use among the Egyptian nobility. The ready

An ancient Ethiopian Princess travelling in a Car drawn by Oxen, with a sort of Umbrella, a Driver, and a Footman.

means of transport and travel by the Nile seems to have rendered in a great measure unnecessary any other wheel-carriages than those for war or pleasure. The sculptures, however, exhibit some carts as used by a nomade people (enemies of the Egyptians) in their migrations (comp. Figs. 1 and 2, below).

Carts of the "Tokkari," some foreign nation defeated by the ancient Egyptians.

2. Elsewhere (Num. vii, 3, 6; 1 Sam. vi, 7) we read of carts used for the removal of the sacred arks and utensils. These also were drawn by two oxen. In Rossellini we have found a very curious representation of the vehicle used for such purposes by the Egyptians (Fig. 3). It is little more than a platform

on wheels; and the apprehension which induced Uzzah to put forth his hand to stay the ark when shaken by the oxen (2 Sam. vi, 6) may suggest that the cart employed on that occasion was not unlike this, as it would be easy for a jerk to displace whatever might be upon it. See ARK.

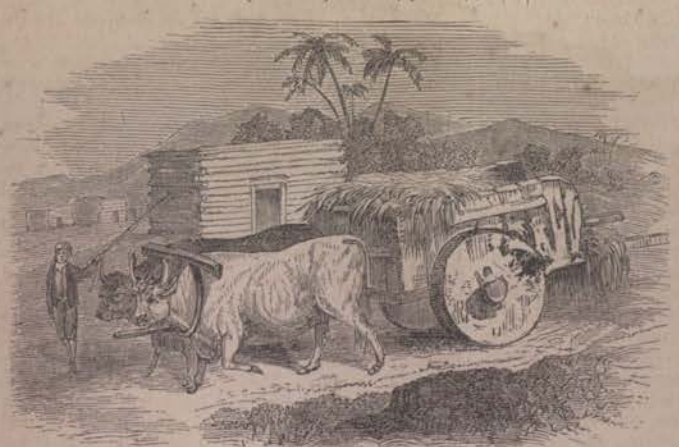
Ancient Egyptian Carts: 1, 2, for ordinary purposes; 3, for conveying a Shrine containing a Mummy.

3. In Isa. xxviii, 27, 28, a *threshing-dray* or sledge is to be understood. See AGRICULTURE.

As it appears that the Israelites used carts, they doubtless employed them sometimes in the removal of agricultural produce. The load or bundles appear to have been bound fast by a large rope; hence "a cart-rope" is made in Isa. v, 18, a symbol of the strong attachment to sinful pleasures and practices induced by long and frequent habit. Carts and wagons were either open or covered (Num. vii, 3), and were used for conveyance of persons (Gen. xlv, 19), burdens (1 Sam. vi, 7, 8), or produce (Amos ii, 13). As there are no roads in Syria and Palestine and the neighboring countries, wheel-carriages for any purpose except conveyance of agricultural produce are all but unknown; and though modern usage has introduced European carriages drawn by horses into Egypt, they were unknown there also in times comparatively recent (Stanley, *Sinai and Pal.* p. 135; Porter, *Damascus*, i, 339; Lynch, *Narrative*, p. 75, 84; Niebuhr, *Voyage*, i, 123; Layard, *Nineveh*, ii, 75; Mrs. Poole, *Englishwoman in Egypt*, 2d series, p. 77). The only cart used in Western Asia has two wheels of solid wood (Olearius, *Travels*, p. 418; drawn by oxen, conveying female captives; and others represent carts captured from enemies with captives, and also some used in carrying timber and other articles (Layard, *Nineveh*, ii, 396; *Nin. and Bab.* p. 134, 447, 583; *Mon. of Babylon*, pt. ii, pls. 12, 17). Four-wheeled carriages are said by Pliny (*Nat. Hist.* vii, 56) to have been invented by the Phrygians (Wilkinson, *Anc. Egypt.* Abridgment, i, 384, 385; ii, 39, 47). The carts used in India for conveying goods, called *suggar* or *hackeri*, have two wheels, in the former case of solid wood, in the latter with spokes. They are drawn by oxen harnessed to a pole (Capper, *India*, p. 346, 352). —Kitto, s. v.; Smith, s. v. See WAGON.

Modern Indian Cart.

Carter, ABIEL, a minister of the Protestant Episcopal Church, was born at Concord, N. H., May 2, 1791. He graduated A.B. at Dartmouth College in 1813, and soon after began the study of law at New York; but, turning his attention to religion, he left the Congregational Church, in which he had been educated, and became a student of theology under bishop Hobart, by whom he was ordained deacon in 1815. He at once became assistant to Dr. Lyell at Christ Church, New York. He was ordained priest in 1816, and became rector of Trinity Church, Pittsburg, Pa., whence he removed in 1818 to St. Michael's Church, Trenton, N. J. In 1822 he became rector of Christ Church, Savannah, Georgia. In 1827 the yellow fever raged in Savannah, and although it had been stipulated in his call that he should spend the summer of each year in the North, he refused to leave his people. His wife soon fell a victim to the pestilence, which also carried him away, Nov. 1, 1827. He published a number of occasional sermons. — Sprague, *Annals*, v, 584.



Modern Syrian Farm-cart.

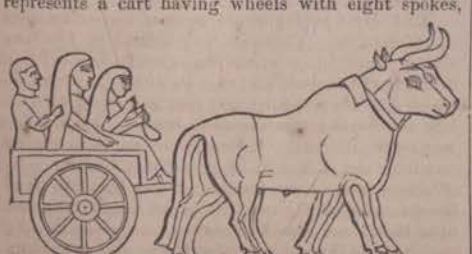
Cartes, des. See DESCARTES.

Cartesian Philosophy. See DESCARTES.

Cartesius. See DESCARTES.

Carthage, a famous ancient city on the coast of Africa, founded by Tyrian colonists, and long the rival

Ker Porter, *Travels*, ii, 533). A bas-relief at Nineveh represents a cart having wheels with eight spokes,

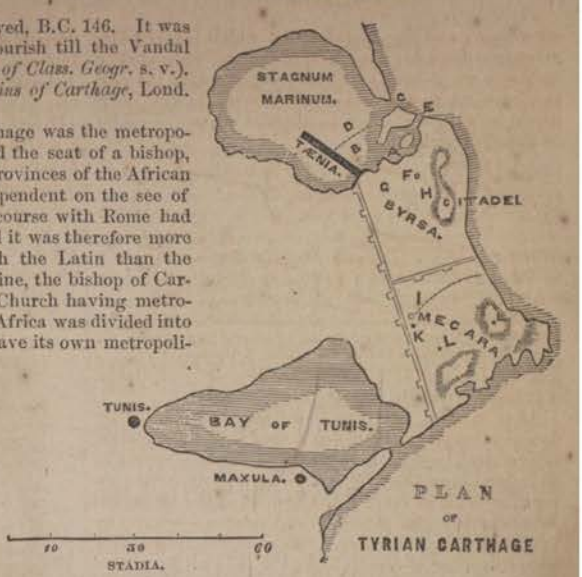


Captive Women in a Cart drawn by Oxen. From the Assyrian Monuments.

Coin of Carthage.

of Rome, by which it was taken and destroyed, B.C. 146. It was again rebuilt, however, and continued to flourish till the Vandal invasion (see a full account in Smith's *Dict. of Class. Geogr.* s. v.). Its site has lately been explored (Davis, *Ruins of Carthage*, Lond. 1861).

In Christian and ecclesiastical times Carthage was the metropolis of the proconsular province of Africa, and the seat of a bishop, having metropolitan authority over all the provinces of the African Church. All the African churches were dependent on the see of Rome, probably because their greater intercourse with Rome had made Latin the language of the country, and it was therefore more natural that they should be connected with the Latin than the Greek Church. Until the time of Constantine, the bishop of Carthage was the only prelate in the African Church having metropolitan jurisdiction; but under Constantine Africa was divided into six provinces, and each province began to have its own metropolitan, taking, however, the title of *primate*, and not that of *metropolitan*, which was still peculiar to the bishop of Carthage. This prelate, from the first, had authority to select whom he pleased from any church in Africa to consecrate to a vacant see (third Council of Carthage); for the bishop of Carthage had also the privilege of nominating to all the vacant sees of Africa. It was farther a privilege enjoyed by the primate of Carthage to convoke general and diocesan synods, to preside in them, and to judge therein of appeals brought thither from the provincial councils. That the African Church acknowledged no *papal* authority in the Roman see is evident from the well-known case of the priest Apiarius, where the African bishops denied the authority of the pope to receive appeals from the decisions of their synods, and his right to send a legate to take any sort of cognizance of their proceedings. In 691 the Saracens got possession of the city of Carthage, and of all this part of Africa, from which period the Church began to fall away; and though it was still in existence, under Leo IX, in the eleventh century, it soon after became entirely extinct.—Landon, *Eccles. Dictionary*, s. v.



CARTHAGE, COUNCILS OF. Among the most important are the following:

I. In 218–22 (?), under Agrippinus, on the baptism of heretics.

II. In 251, on the election of Cornelius as bishop of Rome, and the disputes of Novatian and Felicissimus.

III. In 252, on early baptism.

IV. In 253, on the baptism of infants and heretics. Cyprian presided, and 66 bishops are said to have been present. On the question whether baptism should be administered to infants before the eighth day, in view of the rite of circumcision, the council decided unanimously that God had no respect either to persons or ages; that circumcision was but the figure of the mystery of Jesus Christ, and that no one may be shut out from the grace of God. Cyprian, who wrote this decision to Fidus in his own name and in that of his colleagues, gives the reason for it in these words: "If the greatest sinners coming to the faith receive remission of sin and baptism, how much less can we reject a little infant just born into the world, free from actual sin, and only so far a sinner as being born of Adam after the flesh, and by its first birth having contracted the pollution of the former death; it ought to have so much the easier access to the remission of sins, inasmuch as not its own sins, but those of others, are remitted." These words are quoted by Jerome in his dialogues against the Pelagians, and by Augustine in his 294th sermon, in order to prove that belief in original sin has always been the faith of the Church.—Cyprian, *Epist.* 55, Labbe et Cossart, *Concilia*, t. i, p. 749; Landon, *Manual of Councils*, 101.

V. Held in 254 (?), when the Spanish bishops Martialis and Basilides were deposed as *Libellatici*.

VI. Held in 255 and 256, under Cyprian, on the necessity of rebaptizing heretics—attended by 71 bishops. They decided that there can be no valid baptism out of the Catholic Church, and addressed a synodical letter to Stephen of Rome upon the subject, informing him of their decision upon this and other matters. Stephen refused to admit the decision, and separated himself from the communion of Cyprian and the other bishops who acted with him in the council. The conflict lasted until the pontificate of Sixtus, when the African bishops gave up their theory of the invalidity of heretical baptism.—Labbe et Cossart, *Concil.* t. i, p. 793; Landon, *Manual of Councils*, p. 102.

VII. Held in 330, in favor of those who were steadfast in the persecution.

VIII. Held in 397 and 398, on discipline and the baptism of children.

IX. Two in 401, in which numerous canons were made on receiving converted children of Donatists among the clergy.

X. Two in 408, on pagans, heretics, and Donatists.

XI. Commencing June 1, 411, in which conferences were held with the Donatists, with a view to their reunion with the Church. Augustine was present, and argued the case from the side of the Church. At the close of the conference, Marcellinus, who represented the emperor Honorius in the council, gave sentence to the effect that the Donatists had been entirely refuted by the Catholics; and that, accordingly, those of the Donatists who should refuse to unite themselves to the Church should be punished as the laws directed. From this sentence the Donatists appealed to the emperor, but in vain. Honorius confirmed the acts of the Conference of Carthage by a law, bearing date Aug. 30, 414. This conference and the severe measures which followed it gave the death-blow to Donatism.—Labbe et Cossart, *Concil.* t. iii, p. 107; Neander, *Church History*, ii, 203 sq.; Landon, *Manual of Councils*, p. 111.

XII. Held in 411 or 412, against Cœlestius, disciple of Pelagius. Cœlestius was accused by Paulinus, among other things, of teaching that the sin of Adam only injured himself, and that its effects have not descended to his posterity, and that every child is born into the world in the same condition in which Adam was before the Fall. Cœlestius did not deny the accusation; for, although he agreed that children must of necessity receive redemption by baptism, yet he refused to acknowledge that the sin of Adam had passed upon them; nor would he confess, unequivocally, that they receive therein remission of any sin: accordingly he was condemned and excommunicated.—Labbe

et Cossart, *Concil.* t. iii, p. 347 sq.; Landon, *Manual of Councils*, p. 111; Mansi, *Concil.* iv, 289.

XIII. Held in 416, against Pelagius and Cœlestius. The doctrines of Pelagius were condemned by this council in a decree which was approved by Innocent I, bishop of Rome.

XIV. Held in 418, at which more than 200 bishops took part, under the presidency of Aurelius. Augustine styles it "the Council of Africa." Its decrees against Pelagianism were the triumph of Augustinism, and finally received the general approval of the Church. Prosper has preserved one of these decrees, in which the council declares that the grace of God given to us through Jesus Christ not only assists us to know what is right, but also to practise it in each particular action, so that without it we can neither have, nor think, nor say, nor do anything which appertains to holiness and true piety. The council agreed upon a letter to Zosimus, bishop of Rome, demanding that the sentence of condemnation passed by Innocent I against Pelagius and Cœlestius should be enforced until they should abjure their errors. — Mansi, *Concil.* iii, 810; iv, 377; Landon, *Manual of Councils*, p. 112; Schaff, *Ch. Hist.* iii, 798.

Carthusians, an order of monks in the Roman Catholic Church, founded by St. Bruno (q. v.) A.D. 1086. A legend of much later origin tells the following story: At the funeral of a friend of Bruno's in 1082, the dead man raised himself up, saying, "By the just judgment of God I am accused!" This was repeated on the two following days, and had such an effect on Bruno and six more that they immediately retired to the desert of the Chartreuse, and there built the first monastery. This absurd legend found its way into the Roman breviary, but was struck out by order of Pope Urban VIII. After Bruno had governed the first establishment for about six years, Pope Urban II, his former pupil, called him to Rome, and retained him there, although Bruno begged for permission to return to his brethren. The order increased slowly. In 1137 they counted four, in 1151 fourteen, and in 1258 fifty-six houses. In 1170 the order was recognised by the pope. Martin V exempted all the property of the order from tithes. Julius II provided, in 1508, by a bull, that the prior of the Grande Chartreuse, near Grenoble, should always be the general of the whole order, and that a general chapter should meet annually. At the beginning of the 18th century the number of houses was 170, of which 75 belonged to France. Many houses perished in the French Revolution, but some were re-established after 1815. Their principal establishment, the Grande Chartreuse, was reoccupied in 1816. In England the Carthusians settled in 1180, and had a famous monastery in London, since called, from the Carthusians who settled there, the "Charter-house." The order has given to the Church several saints, three cardinals, and more than seventy archbishops and bishops.

Until 1130 the order had no written statutes. Then the fifth prior of the Chartreuse, Guigo, compiled the *Consuetudines Cartusiæ*. Bernard de la Tour collected, in 1258, the resolutions of all general chapters which had been held since 1141. This collection was confirmed by the General Chapter of 1259, and bears the title *Statuta antiqua*. Another collection, *Statuta nova*, was added in 1367. A third collection, *Tertia compilatio statutorum*, dates from the year 1509; a fourth, *Nova collectio statutorum ordinis Cartusiensis*, from the year 1581. The characteristic of the statutes of this order is, that it aims, in the first place, at precluding the members from all intercourse with the world, and even, as far as possible, from all intercourse with each other; secondly, at separating the *professi* from the lay brothers, who occupy in no other order an equally low position, and are divided into three classes, *Conversi*, *Donati*, and *Reddîti*; thirdly, at separating every single Carthusian monastery from the whole surrounding region and population; and, lastly, at preventing all connection of the order with other monastic orders, and any direct influence on the world or the Church. Thus the whole order, and each individual member, is like a petrifaction from the Middle Ages. The monks wear a hair-cloth shirt, a white cassock, and over it, when they go out, a black cloak. They never eat flesh, and on Friday take only bread and water. They are not allowed to go out of their cells except to church, nor to speak to any person, even their own brother, without leave of their superior. Some of the convents are magnificent, especially those of Naples and Pavia, which have a world-wide renown for their ornaments and riches. In 1843 the order had 3 houses in France, 8 in Italy, and 2 in Switzerland.

Carthusian Monk—at Home.

Carthusian Nun—at Home.

There are also houses of Carthusian nuns, but the date of their origin is not known. They were always very few in number. Father Helyot, the historian of monachism, knew only of the existence of five, all of which perished by the French Revolution. In 1820 they re-established their first house near Grenoble, in France, and this is still their only establishment.

A history of the order was commenced by father Masson, general of the order, and vol. i published in 1687; but, for unknown reasons, the order forbade the continuance of the work. See also Morstius, *Theatrum Chronologicum S. Ordinis Carthusiensis* (Taur. 1681); Corbin, *Histoire sacrée de l'ordre des Chartreux* (Paris, 1653, 4to); Helyot (ed. Migne), *Dict. des Ordres Relig.* i, 872; Fehr, *Geschichte der Mönchsorden*, i, 78 sq.

Cart-wheel (τρόχος ἁμάξης), a chariot wheel (Ecclus. xxxiii, 5). See Cart; Wheel.

Cartwright, Thomas, a learned and eminent Puritan divine; born in Herts about 1535. He was educated at St. John's College, Cambridge, where he became a fellow in 1560. A few years afterward he was removed to a fellowship at Trinity College, of which he became one of the senior fellows. In 1564, when Queen Elizabeth visited the University, he appears to have distinguished himself in the disputations held before her majesty. He took his B.D. degree in 1567, and three years afterward was chosen Lady Margaret's divinity professor. He was a thorough Protestant. In his lectures he criticised the polity of the Church of England with great acuteness and learning. It was his conviction that the reformation of the Church had not gone far enough; and he advocated his views with a clearness and boldness which none could mistake. The following statement of the doctrines for which he was expelled from the University is given by Hook, in vindication of the severity with which Cartwright was treated. It will be seen that, with a

*8' *L>*=, D2. ' ,)* ' 6-*' + *8.' 2' 8) >)' ?1.,' ?10*-^ 6,*' ?*2' 2' ,)*') ;->)' 1 ' 25/620' 81 ;/0' 218' 65-**' A, 12')*' 86.' ?60*' 01?*.,>' >)6=/6 2',1' : *2- ' 0 ;9*' 8 , ' 1,)*-')- ., 62.% : 1' ?6 2,6 2*0',)6, ' 2' -*^ 1 ' 4/1 ;>*.,*-T =-*D*206- ' 1 ' (8 1-0 ' 2' ,)*' >) ;->)' 1-? 25' ,)*') ;->) ' ,' 86.' 2*>*..6- ' ,1' -*0 ;>*' 6// ' 1 ' ,% 6 ; /T 1 ')6/ 1-0 ' 2' ,)*' >) ;->)' 1 ' & *//.T 6' ,) 25.',1',)*' 6=1.,1/ >6/ 2., , ;, 12T ,)6,' 21' 12*' 1 ;5),' >)6=/6 2' 2' 1-0 26- ' ,1',)*' 9 25T 620' -*>,1-' 1 ' ,% ,1' D*' 60? .,*0' 2,1',)*')- ., 62' ? 2 .,- ' 8)1' 86.' ( )1?6.',)*' =1.,/*' 12012% 2' S K')*' 86.' ?60*' ;26D/*',1' =-*6>)T ,)6,',)1.*' 12/ ' 8)1' ? 2 .,*-*0',)*' =-*D*206- ' 1 ' ;-)6? ' 620' 2' S ' 0*72' 1 ' =12% 81-0' 1 ;5),',1' =-6 ' =;D/ >/ ' 2',)*');->)' 1-' 60? 2^ ' : .'/1 6/,E' 86.' 2' SQS' -*86-0*0' 8 ,)',)*' D .)1=- .,*-',/*' .6>-6?*2,.T ,)6,'=1= .)'M -0 26, 12.' 8*-*' 21,' 1 ')*.,*-% ;',)*' *+1/;, 12')*' /*0',1' -62>*' 620' +6/ 0T ,)6,' 12/ ' >6212 >6/ >- =,;-*' 1 ;5),',1' D*' -*60' *-* 6,' ,% 4*-?6 2' 6>>1-0 25',1' =-*- 1-?*0' 0 + 2*' .*-+ >*' 6,' ,% 4*-?6 2' 6>>1-0 25',1' =;D/ >/ ' 2',)*');->)T ,)6,',)*' =;D/ *' / ,;-5 ' 1 ;5),' ,)*' 0*6,)' 1 ' -% *,)' & 6-0 ' 9 25' B6?*.' 21? 26,*0' ,1' D*' .1' -6?*0',)6,',)*-*' ? 5),' D*' 21' =- +6,*' =-6 25' ?)*',1',)*' .*** 1 ' 6/ .D ;-A% 2',)*' .=- 25' 1 ' S :Q)*' 1-' -*60 25' 2',)*');->)' D ;',)6,'6//,)*' =*1=/*' .)1 ;/0' 8*2',1' -*/620' 620' 26// ' 0 *0',)*-*' =- / SQR% 6,,*20',1',)*' =-6 *-.' 1 ',)*' ? 2 .,*-T ,)6,',)*' .*-+ >*' : *' 8-1,*' 6' ' =;D/ .)*0' D ',)*' 6?0*2' 1> *, ' 1 ' D ;- 25' ,)*' 0*60' 0 0' 21,' D*/125' 62 ' ?1-*' ,1' ,)*' 2' Q N% ' : 119' 6 ' ; ! ' =% Q ' ._% ? 2 .,*- 6/ 1 >*' ,)62',1',)*' -*.,' 1 ',)*');->)T ,)6,' 6-+6A6/% % & ' D1-2' 2' ,)*' *6-' ' *_;6/ -*+*-*2>*' 86.' 0 ;*' ,1' 6// >6212 >6/ >- =,;-*' 1 ' 62' //;.,- 0 ;.' 6? / ' 1 ' 206/;. 6 ' D*>6?*' D .)1=' 620',1' 6// ,)*' 26?*.' 1 ' 410T ,)*-*' 86. ',)*-* 1-*' 1 ' 6>*2[6 ' 620' 51+*-21-' 1 ' 1?*% : *' 86.' =-* .*2,' -*6.12' 8) ',)*' =*1=/*' .)1 ;/0' .,620' 6,',)*' -*60 25' 1 ' 6,',)*' 1;2> / 1 ' 6./*' 8)1-*')*' .1' 86-?/ ' 0* *20*0' ,)*' 41.=*/ ' 1-' D18' 6,',)*' 26?*' 1 'B*. ; ..T ,)6,' ,' 86.' 2,*-*.',' 1',)*' =6=6> ',)6,' ;5*2*' >-*6,*0') ?' 6./68 ;/,1' .,' 6,',)*' 1-0 .',6D/*' 6.',1'92**/1-' .,620T >6-0 26/ 2' S% ' ()*' .;>>**0 25' =1=*.' .*2,') ?' 6.' ,)6,',)*' 1-0 .' ;==*-' 1;5),' 21,',1' D*' 60? 2 .,*-*0')*-' -'/*56,*',1' 4*-?62 ' 1)*? 6 ' 620' : ;256-A7' : 1' 2' =- +6,*' ' "%11 ' " ' ' ' 9 0*0' 6,' 1?*' 2' SR% .' ,)6,',)*' . 52' 1 ',)*' >-1..' 2' D6=, . ?' 86.' . ;=*-^ % 8 ' 2*=)*8' 1 ',)*' =-*>*0 25' 86.' .,, 1;.T ,)6,',' 86.' -*6.126D/*' 620' =-1=*-' ,)6,',)*' D1?' 6,' 6>*2[6' 2' S% 2' RN)*' D*>6?*' >6-0 ^ =6-*2,' .)1;/0' 1 *-') .' 182' >) /0',1' D6=, . ?' ?69 25' 26/ 620' =6=6/ 2;2> 1' 2' =6 2% : *' 86.' =-* .*2,' >12 *.. 12' 1',)6,' 6,)' 2' 8) >A')*' 2,*20*0',1' *0;^ 6,' ,)*' =:*' 86.' =;',;20*-',)*' >6,*' ,' 8 ,)1;,' D* 25' 1D/ 5*0',1' 62.8*-' 2',)*' >) /0 .' D62' D ' 1=*' B;/ ;.' ' 1-')6+ 25' 2' ' 6..*?D/*0' 26?*' ` ' 8 // ` ` ' 8 // 21, ` ` ' D*/ *+* ' *,>%' 21-' 1;5), ,)*' 1;2> / 1 ' .6 ' D* 1-*' 8) >)',)*' =1=*' 86.' > ,*0' 81?*2' 1-' =*-.12.' ;20*-' 65*',1' D*' .=12.1-.T ,)6, ' 2' 12' 6>>1;2,' ; ') .' >120;>,' 186-0',)*' *?=*-1-' <6L C 5 + 25' 26?*.' ,1' >) /0-*2 ' ,' 86.' >12+*2 *2,',1' 6+1 0' A2 /?2' 620' 9 25' 1; .' d ' 1' -62>*' *1' d)18^ =6562 .?' 6.' 8*// 6.',)6,' ,' 86.' =6= ., >6/',1' 1-D 0' ?6-- 65*.' *+*-' -*.,1-*0') ?') .' 0 52 , *.' 2' N' 620')1' 86.' 6,'62 '=6-, >;/6-', ?*' 1 ',)*' *6-' 620',1' 5-62,' />*2.*.' *?=/1 *0' 12' ?=1-,62,'? .. 12.' D ',)*' .;>>**0 25' 6,',)1.*' , ?*.' 86.' 2,1/*-6D/*T ,)6,'=-+6,*' ?6-- 65*.' =1=*.% : *' 0 *0' D .)1=' 1 ' .,6' 2' KN% ' *,*-' 2 1-' .:>)' 6.' 8*-*' 21,' =;D/ .)*0' 2' ,)*' >125-*56, 12' = + '.*+% 8*-*') 5)/ ' 2>12+*2 *2, ' *,>% ->)D .)1=' 4- 206/ 620' -*&) ,5 ,' [*6/1;./ ' 1=^ =1.*0' 6-,8- 5),' 620' 2')*' 86.' 0*=- +*0' 1 ') .' =-1 *..1-.) =' 620' */!18.) =% : * -*, -*0' -1?' 25^ /620',1',)*' 12, 2*2,' D*>6?*' >)6=/6 2' 6,' 2,8*-=' 620' 6 ,*-86-0' 6,' < 00/*D ;-5% ',)*' *20' 1 ' 6D1;./ ' 1=^ ,81' *6-.')*' -*,;-2*0',1' 25/620' 620' =;D/ .)*0' 6' $ ' & ' " ' (1' 8 ,)' 6' =*, , 12' 1-' -*/ * ' -1?',)*' .;D.>- =, 12' -* _; -*0' D ',)*' *>>/*^ . 6., >6/' >1?? .. 12*-% : *')60' 6' >12,-1+*-. ' 1 ' =6?=)/*,.' 8 ,)' &) ,5 ,' 620' 86.' 5-*6,/ ' =*-.*>;,*0' D ',)T ,' =-*/6,*' 620' 86.' ,8 >*' ?=- .12*0% 2' Q ')*' 1D,6 2*0' -1?',)*' *6-/ 1 ' * >*.,*-',)*' ?6.,*-.) =' 1 ',)*' 2*8')1.= ,6/ 6,' & 6-8 >9 ' 2' RK)*' 86.' / D^ *-6,*0' -1?') .' .*>1-,0' ?=- .12?*2,' 620' -*, ;-2*0',1' ,)*' ?6.,*-.) =' 1 ',)*')1.= ,6/ 6,' & 6-8 >9 ' 8)*-*')1' 0 *0' *>% K ' S N M1-' S K' 6>>1-0 25',1' .66>' & 6/^ ,12X% 6-,8- 5),' 86.' 6' ?62' 1 ' 5-*6,' =6-,.% *[6/ 8-1,*' 1 / ?á ',) 29',)*' .;2' 01*.' 21,' .**' 6' ?1-*' /*6-2*0' ?62%J' -1;0*' 2') .' # ' 6 ' M QSS' +1/% +X ' 5 +*.' 62' */6D1-6,*' =62*5 - >' 1 ' 6-,^ 8- 5),% ?125') .' 8- , 25.' 6-*' # ' =6 ' /[*+ -' 6,' ?.,*-06?' S T 25% +*-. 12' S Xá =(= ' ' ' $ 1 ' M ?.,*-06?' SNQ' ,1Xa ' %" ' '# ' ' " ' 6 =' ' M D 0% S ' *,>%X a ' &' ; ' ' ' M 12012' S S' ,1Xá ' ' ' ' ' " ' 5" "" - ' M S Q' 1/%X% : .' *L*5*, >6/ 8- , 25.' 6-*' ., //' 1 '+6/;*% -% /*L620*-' M 2' ,,1 .' % 1' .% +%X' .6 .' ,)6,' : *25.,*2D*-5' 2') .' 81-9' 12' >>/*. 6.,*.' D1--18.' /6-5*/ ' -1?' 6-,8- 5), .' %" 4 ' ** ,- =*' ' ' " .' : 119' 6 ' ; %" 1' ' RT' *6/' ' " ' 1' ' KT' ' Q' *,' 6/%T ' T' & 6/,12 .' .' < 00/*,12' 6 ' ;' %" ' ' NKS% 6-,8- 5), ' ( ) 1 ? 6. ' % %' D .)1='1 ' 6/ .D;- ' 86.' D1?' 6,' 1-,)6?=,12' *=,% SN ' : *' .,;0 *0' 6,' <6506/*2 ' .)*' ,)*' 86.' ?60*' 01?*.,>' >)6=/6 2',1' : *2- ' 0 ;9*' 8 , ' 1,)*-')- ., 62.% : 1' ?6 2,6 2*0',)6, ' 2' -*^ 1-? 25',)*') ;->)' 1 ' 25/620' 81 ;/0' 218' 65-**' 1-' -*/ * ' -1?',)*' .;D.>- =, 12' -* _; -*0' D ',)*' *>>/*^ 1' 8 ,)' 6' =*, , 12

K')-12% ' S' X% 2' 1/1?12 .' , ?*' : ;-6-6 ',)*')1*2 > 62')60' ,)*' >) * '>6-*' 1 ',) . '6.' 1 ',)*' /6-5*-' 6->) ,*>,;-6/ 81-9.% ( )6,' ,)*' 6-,' 1 '>6-+ 25 ')18^ *+*-' 86.' >;/, +6,*0' D ',)*' : *D-*8 .',)*? .*/+*.' ,1' 6' >12. 0*-6D/*' *L,*2, ' .' *+ 0*2,' 21,'12/ ' -1?',)*'>)*-^ ;D ?' 8) >)' 8*-*' .*,' -.,' 2' ,)*' (6D*-26>/*' 620' 6 ^ ,*-86-0.' 2' A7/1?12 .' (*?=/*' D ;,' 6/.1' -1?',)*' / 12.' 8) >)' +5*-*' =/6>*0' 12' *6>)' . 0*' 1 ') .',)-12*' M ' 25.' d' K X% ( )*' >6-+ 25' 1 ', ?D*-' .' ?*2, 12*0' 2' cL10% LLL ' ' 620' ,)*' =-1=)*,' .6 6)' 5 +*.' ;.' 6' ?) ; ,* 0*.>- =, 12' 1 ',)*' =-1>*..' 1 ' 01/C?69 25' ML/ + ' NX% ( )*' 1- 5 2' 620' =-15-*..' 1 ',)*' 6-,' 1 '>6-+ 25 ' 6 .' >12^ 2*>,*0' 8 ,)' D/ >6/ 2_; - *. ')6+*' D**2' 2+*.. , 56,*0' 620' //;.,-6,*0' 8 ,)' ?;>)' 25*2; , ' D ' <-% 620.**-' 2') .' $; '5 " ' *'* & ' ? !

6-+1..1 ' *2A6? 2 ' 6' < *,)10 .,' ? .. 126- ' .12' 1 ' & // 6?' 6-+1..1 ' 86.' D1?' 2' 1-286//' 25^ /620 ' *=,% K QR% ( )*' *? 2*2,'= *, ' 1 ') .' =6-*2,.' .6+*0') .' 1;,)' -1?' + >*' 620' 2' Q ')*' 86.' >12^ +*-,*0% 2' Q ')*' *2,*-*0' ,)*' , 2*-62,' ? 2 .,- ' 620' 2' QK ' 86.' 6==1 2,*0' ? .. 126- ' ,1' *8' 1;,)' & 6/*.% ( )*-*' 620' 2' 62' *? *2 .' 620 ' 8)*-*')*' 2,-10;>*0' < *,)10 . ? ') .' /6D1-.' 8*-*' 6D; 2062,' 620' ;.* ;/% 2' QN ')*' -*,;-2*0' ,1' 25/620 ' 620' -*C*2^ ,*-*0' ,)*')1?*' 81-9% : *' 0 *0' >,% K' Q % : *' >1? ?*2>*0' ,)*' -.,' -*/ 5 1;.' ?656[2*' 2' ;.,-6/ 6 ' 620' 8-1,*' 6/.1' ' ' ' 'M %*+% ' *8' 1-9 ' QN K?1X' 8) >)') 6.' D**2' .1/0' D ' ,)1;.620.% ' ' ' 'M *20% Q X' =% K%

6-+1..1 ' & // 6 ? ' 6' /6 ' < *,)10 .,' 12*' 1 ',)*' .6 2,.J' 1 "? 10*-2', ?*.% : *' 86.' D1-6' 2' 1-286//' 25/620 ' 6 ->)' ' ' 620' /H-*0' 12' 6' 6-?% 2') . 1;,)')*' *// 2,1' ,)*' =-*+6/*2,' . 2.' 1 ',)*' , ?*' .;>)' 6.' >1>9C 5), 25' 620' 6DD6,)C/-*69 25' D;,' 2')*' 86.' >12+*-,*0' 6 ,*-' 6' .*+*-*' ?*2,6/ .,-;55/*% 2' ')1'D*>6?*' 6' >/6..C/*60*-' 2',)*' & *./* 62');->)' 620')*/0',)6,' ;.* ;/ 1 >*' 1-' . L, ' *6-.% : .' 8)1/*' / *' 86.' 6' 8120*- ;/ //;.,-6, 12' 1 ',)*' =18*-' 1 ')- .^ , 62' 6 ,)' 620') .' + . ,.' =-6 !*-.' 620' *L)1-,6, 12.' 8*-*',)*' ?*62.' 1 ');20-*0.' 1 '>12+*-. 12.% : *' 0 *0' >,% N QN % **' ' ' 1' *0 ,*0' D ') .' .12' M % % Q?1' 6' D119' 8)>)') 6.') 60' 6' +6.,' > ->;/6, 12X' 620' ,*+*2.' # ' ' " 1' K Q' K R' RN%

6-8 ,)*2' B% % %' 6' ? 2 .,*-' 1 ',)*');->)' 1 ' 25/620 ' 86.' D1-6' 2' Q % : 6+ 25' D**2' 1-06 2*0' 0*6>12' 2' Q N 620' =- *.,' 2' Q ')*' 86.' 2' Q ' 6=^ =1 2,*0' =*-=*,;6/ >;-6,*' 1 ' 620);-.,' *-9.' 620' 2' Q '=*-=*,;6/ >;-6,*' 1 ' - ?/* ' : 62,.% : *' 0 *0' 6, 620);-.,'+ >6-65*' 2' QNK% : *' =;D/ .)*0' & ' N ' " ' ; " '5 ' ' ' * ' ' " ' - "' I '$ '# !' ' '$ ' ' ' '% " ' ' Q R' M 120% Q 'Q+1X' a '# ' ' " ' " "' '6 1' '=6-,.' '620' K' MKO' *0% ' 8 ,)' 6' 21, >*' 1 ',)*' 6;,)1-' D ' & % -18*//' % %' L % Q R' K' +1/.% K?1X% I ' ' # ' ' " ' " "' ' " ' @ "' ' " ' - "' 'M 8 ,)' *+% % 6//' -1?' 6 %!' % ' 120% Q S' K?1X ' 6-/ 25' %' ; " ' ' QRT ; "' ' + ' %

6- ') '6' >1/1-*0' 6=,.,' ? 2 .,*-' 86.' D1-2' 6' ./6+*' 6D1;' Q ' 2')6-/*.' ' >1;2, ' 6!% : *' A1 2*0',)*' 6=,.,');->)' 2' Q '6,' >)?120' 620')6+ 25' /*6-2*0',1' -*60' 620' 8-,*')*')*/0' ?**, 25.' 8 ,)',)*' >1/1-*0'=*1=/*' .1'.;>>*.. ;// ',)6,',)*');->)' / >*2.*0') ?',1'=-*6>)% '- 5 0'*>121? ')*' 86.' *2^ 6D/*0',1'=;->)6.*') .' 182' -**01?' 620',)6,'1 ') .',81' >) /0-*2' 2' Q Na' 620' 2' Q ')6+ 25' D*>1?*' 0**=/ ' 2,*-*.,*0' 2',)*' ? .. 12.',1' ->6')*' .;>>**0*0' 2' *.,6D/ .) 25',)*' ' >) ?120' ->62' < .. 126- ' 1> *^ , %J' : 6+ 25' D**2' 1-06 2*0')*' .6 /*0' 1-' *--6' *^ 12*' B62% KN QK ' 2' >1?=62 ' 8 ,)' 1/ 2' (*65;*' 62^ 1,)*-' >1/1-*0' =-*6>)*-% : *' *.,6D/ .)*0' 6' .>)11/ 6,' <12-1+ 6' 620' 6,,*?=,*0',1' *.,6D/ .)' 621,)*-' 6,' 4-620' 6=*' <1;2,% : 6+ 25'.,;0 *0',)*' 0 .*6.*.' 1 ',)*' >1;2C ,-E ')*' 86.' 2' QK ' 6==1 2,*0' =) . > 62',1',)*' >1/12 7' 2' *A%,*?D*-' QKS')*' 86.' 6==1 2,*0',1',)*' 1 >*' 1

+ >*C65*2,' 620' 12' <-% .)?;? .' -*,;-2',1' ?*- >6' 2' QKQ')*' D*>6?*' 6>, 25' 51+*-21-' 1 ' D*- 6#' 2' 6>> 0*2,6/ *L=/1. 12 ' 1+% Q' QKQ' 8) /*')*' 86.' *2^ 565*0' 2' ?62;6>,;-25' >6-,-05*.' 8)*-*8 ,)',1' 0*C' *20',)*' >1/12 '656 2.',)*' 6,,6>9.' 1 '.1?*' ./6+*C0*6/^ *-.' >6;.*0') .' 0*6,)' 12',)*' ,)' 1 ',)*' .6?*' ?12,)% ' ' =-65;*' & ' + ' Q%

6- /' (/ ' 6 6' 212>12 1-? .,' 0 + 2*' 1 ' 5110' 6D / , *. ' /*6-2 25 ' 620' 20;.,- ' 86.' D1-2' 2' 12012' 2' S K% :*' 86.' 1-' .1?*', ?*' 6'>1?? 12*-'6,' L*,*-' 1//*5*' L 1-0' 620' =-*6>)*0' .*+*-6/A*6-.' 8 ,)' 5->6' .;>>*..' D* 1-*',)*' : 12% 1> *, '1 ' 2>1/2 .' 22% =^ =1 2,*0' 12*' 1 ',)*',-*-.' 2' SSN')*' 86.' *A*>,*0' 2' SSK' 620' 6 ,*-86-0.' 56,)*-*0' 6' >125-*56, 12' 2',)*' 2* 5)^ D1-)110' 1 ' ,' < 652;.' 12012' - 05*% : *' 0 *0' *D% S N% : .' =- 2> =6/ 81-9' .)18 25' 5-*6,'/*6-2 25 ' ' 21,'A;05?*2, I .')./ 6 % ' '" ' ; "' 'D ' M 120% S QCSS' K' +1/.' ,1' KO' *0 ,% K' +1/.' 1/% S SC X' 6D- 05*0' " ' *-- *' M 0 2D% QNS' Q+1X% ' 6-/ 25' % ' ; " %" ' ' R T *6/' # ' ' " ' ' + ' T' + ' SN T' 6/6? ' 7 % N ' ' KK %

6.6.' 8 ') 'D .)1=' 1 ') 6=6' <*L >1' 86.' D1-2' 1 '6' 21D/*' 6? /A' 6,' *+ //*' 2' % : .' 6,)*-'% 2,12 1' 8)1' 8*2,',1' : .=62 1/6' 8 ,)' 1^ /;?D;.' 2' RN' 620' -*,;-2*0' - >)',1' *+ //*' 2' RQ' ?60*') ?' 6' =-*.*2,'1 '62' 20 62' ./6+*' 8) /*' D*' 86.' =;-.; 25') .' .,;0 *.' 6,' 6/6?62>6% ,' 2 2*,**2')*' 6>>1?=62 *0') .' 6,)*-',1' ,% 1? 251' 8)*2>*')*' -*^ ,;-2*0',1' =6 2' *2,*-*0',)*' 1? 2 >62' 1-0*-' 620' ,^ ,*0') ?.*/' 1-' 6' ? .. 126- % 2' N ')*' L*0') .'-*.^ 0*2>*' 6,' ,% 1? 251' 620' *?=/1 *0') ?.*/' 2'=-*6>)^ 25')- ., 62 ,A',1',)*' 20 62.% /> ,*0' D ',)*' >2 C' */, *.' 8) >)',)*' 20 62.' *20;-*0' -1?',)*' -' >12_;*-^ 1-.' 6.' 6.6.' ?60*' 621,)*-' +1 65*',1' =6 2' 2' 1-0*-',1' 2,*-*.,')6-/*.' ' 2',)*-' D*)6/ ' 620' .1' 6-' .;>^ >**0*0' 6.',1' =-1>;-*' 1-0*-.' 1-',)*' 1D.*-+62>*' 1',)*' 51+*-21-.' 2',)*' 8*.,'-*.,- >, 25',)*' DL*-> .*' 1',)*' -' =18*-.% $=12') .' 6-- +6/' 2' ?*= 16')*' ,-6+*/*0' ,)-1;5)' < *L >1' *8' =6 2' 620' *+*2' 2,1' *-;' 21, C' 25' *+*- 8)*-*',)*' ?=*-6/>1? 620.% 2' SNR')1' 656 2' >-1..*0',)*' 1>*62',1' .1/ >,' 6 0' 1',)*' *?=*-1-' 2' D*)6/' 1',)*' 20 62.% ,*-' 2 2 ,*' 0 .6==1 2,^ ?*2,.',)*' *?=*-1-' 5-62,*0' 6//',)6,')*')60' 6.9*0' 1-' 620' >12 *--*0';=12') ?',)*' D .)1=-->' 1') 6=6% 2' ')*' 86.' >12.*>-6,*0' 6,' *+ //*' 620' -*,;-2*0' 8 /' 6' D620' 1' ? .. 126- *.',1' ?*- >6' 8)*-*')*' /6/ 1-*0' 8 ,)' 2>*..62,'[*6/ 620' D1/02*..',1' 0* *20',)*' 26, +*%e' 620' 6,'/*25,)'-*, -*0',1' =6 2' 8)*-*')*' >12, 2;*0') .' *20*6+1-.' 2',)*-' D*)6/';2, /) .' 0*6,)' 6D1;,' SS% 2*' 1 ') .' >) * '1==12*2,.' 86.' *=;/+*06' 6' >6212' 1' 6/6?62>6' 8)1' =;D/ .)*0' 62' 2 6?1;.' 81-9' A;., ^ 25',)*' >-;*/, *.' *L*-> .*0';=12',)*' 20 62.i620' *+*2' ,)*-' ! 6.' 6.6.' -*=/ *0' D ' 6' 8- , 25' *2, ,/*0' ' ' ' ' ' ' 'M *^ + //*' K' ,1X%)6-/*.' ' 1-D60*' ,.' =;D/ >6, 12' D;',' 86.' =- 2,*0' 620' *=;/+*06' =*-. .,*0' 2*+*-,)*^ /*..' 2') .' 0*+ / .)' 01>,- 2*' *20*6+1- 25' 2' 6// & 6 .' ,1'=-1=656,*',)*' 21, 12',)6,ADE!',)*/68.' 1 ',)*');->)' ,' 86.' 6' 0;,' ,1' *L,*-? 26,*',)1.*' 8)1' -* ;.*0',1' *?D-6>*',)*')- ., 62' 6,)J')6-/*.' ' 6==1 2,*0') .' >12 *..1-' ,)*' >*/*D-6,*0' 1? 2 >' 1,1',1'*L6?2*' ,)*' .;DA*>,% 1,1' ?60*' D .' -*=1-,',1',)*' >1;2>/ 1' =6 2' D;,'21'A;05?*2,' 86.' *+*-'=-121;2>*0' 620',)*')1-- /X/*' ?6..6>-*.' 1 ',)*' 20 62.' >12, 2;*0',1' .;>)' 62' *L,*2',),6,' ,' .' .6 0' .**2' ? // 12.' 1 ',)*.*' 221>*2,' + >, ?.'=*-.)*0' 2'/*..',)62',*2' *6-.% ()' .' .' 01;D,^ /*..' 62' *L655*-6, 12% 2' 2 6?1;.' >6/;?2 ')6.' D**2' > ->;/6,*0' DEC.1?*').,1-62.' 656 2.' 6.' 6.6.' 1;20C' *0' 12' ,)*' 6;,)1-,A7' 1 ' :*--6-6/ 6/12*' 6' 8-.,*-' 1 '01' >-*0 ,' + [*,),6,')*' -.,'>1;2.*//*0',)*' =62 6-0.',1'=;-^ >)6.*' 2*5-1' ./6+*.',1' /6D1-' 2.,*60' 1 ',)*' 20 62.% ()' .' ,1-')6.' D**2' .;> *2,/ '-* ;,*0' D ' 4-751 -*' /1-*2,*' 620' 1,)*-.% ()*' 1,)*' 1-' 8-1/ 6.' 6.6.' 6-*' 7 ' ' '% '# % '4 ' ' *,>% M -62/7-,' RQ ,1' 620' 6,' (;D 2C

5*2' 2' SK T 6/.1' 2' -*2>) ' 6,' 2,8*-=' S RX T A' % '4 ' '4 '% ' ' ' % ' ' ' * ' 1'*,>% : .' 81-9.' 8*-*' =; D/ .)*0' 6,' *+ //*' K' 2' +*' =6-,. ' ,1T D ; ,') .' 2 ' ? ' ' ' ' -*?6 2.' 2' < % ' -*.>1,,' # ' ' .' 4-*51 -*' &% ' C' ' 'M<*?% 1 ' <1-% 620' 1/ ,% 1 ' 2., ,; ,*' 1 ' -62>*' +1 ' +X T 62012 ' 6 !' ' '.% + %T 5 ' ' ' Q N' NN T @ ' #!' 5 ' <6->) ' QN 'T : 1* *-' 7 ' ; !' ? + 1' LL L ' %

6.6 ; D12 '? '12*' 1 ',) *' ? 1.,'/*6-2*0' ? *2' 1 ') .' 182' 1-' 1 ' 62 ' 65*' 86.' D1-2' *D ' Q,) ' R' 6,' 4*2*+6 ' 8) ,) *-') .' 6? / ' 1- 5 26// ' 1 ' 6 ;=) 2S' /*0',1' 6+1 0',) *' =*-.*>; , 12.',1' 8) >)',) *' -*2>) ' -1^ ,*.,62,.' 8*-*' *L=1.*0% : .' 6,) *-' -26 ; /0' 6.6 ; D12' 6' ? 2 .,*-' 1 ' ,) *' * 1-?*0') ;->) ' -*, ; -2*0' 2,1' -62>*' 620' 0*+1,*0') ? .*/ ' ,1' ,) *' *0 ; >6, 12' 1 ') .' .12 ' 80 1' 6,' 2 2*' A *6-.' 1 '65*' .=19*' 6, 2% 2' Q) *' 8*2,' ,1' 6 ; .622*' 620' . , ; 0 *0' /68 ' ,) *1/15 ' 620' ,) *' 4-**9' 620' - *2,6/ /625 ; 65*.% : *' .112' D*>6? *' =-1 *..1-' 1 ' 4-**9' 6,' 4*2*+6 ' 620' ? 6-- *0' ,) *' 06 ; 5)^ ,*-' 1 ' : *2- ' ,*=) *2. ' ,) *' >*/*D-6,*0' =- 2,*-' 620' .112' D*562',1' = ; ,' 1-,)',-62./6, 12.' 1 ',) *' 4-**9' 620' 6, 2' 8-,*-.' 8 ,)' 21,*.' 620' >1? ?*2,6-*.% 2' RS) *' 6>^ >*=,*0',) *' 4-**9' =-1 *..1-.) =' 6,' <12,=*// *-' D ; ,') */0' ,' 12/ ' ; 2, / 7 RR ' 8) *2') *' 86.' >6//*0' ,1' 6-.' D ' : *2- ' ' 620' -*>* +*0' ,) *' 6==1 2, ? *2,' 1 ' / D-6- 62' ,1' ,) *' 9 25% : *2 '6==1 2,*0') ?' 12*' 1 ',) *' -1,*.^ ,62,' A ; 05*.' 2' ,) *' >12,-1+*-.A ' D*,8**2' ;' *--12' D .) 1=' 1 ' +-*; L ' 620' ;' /*.. .' < 1 ? 6A7' 6,' 12,6 2*^ D/*6 ; ' M S X% ( ) *' 1? 62' 6,) 1/ >.' ? 60*' ? 62 ' 6,^ ,*? =,.' ,1' 56 2' .1' 0 ., 25 ; .) *0' 6' >12+*-,T D ; ,' ,) *-*' 01*.' 21,' .**?' ,1' D*' 62 ' -*6.12' 1-' >12>/ ; 0 25' ,) 6,' ,) *XI7) 60' *+*2' =6-, 6/ .; >>*.. ' 6/,) 1 ; 5) ' ,' 86.' 5 +*2' 1 ; ,' ,) 6,') *') 60' 86+*-*0' 2' 6' >12 *-*2>*' 8 ,) ' ;' *-^ -12% ') ',) *' 0*6,) ' 1 ' : *2- ' ' S ' 6.6 ; D12' 8*2,' ,1' 25/620' 8 ,) ' -' : *2- %& 1,,12% B6 ? *.' '-*>* +*0') ?' 8 ,) ' 0 ., 2>, 12 ' 620' =-*.*2,*0') ? ' ,) 1 ; 5) ' 6' /6 ^ ? 62 ' ,1' 6' =-*D*20' 6,' 62,*-D ; - '620' M ,' .' .6 0X ,1' 621,) *-' 2' ,) *' >) ; ->) ' 1 ' ,% *,*-' 6 &*., ? 2.,*-' : *' 0 *0' B ; / ' S '620' 86.' D ; - *0' 2' & *., ? 2.,*-' DD* % *. 0*.') .' >/6.. >6/ 81 : ,.') *' = ; D/ .) *0' ' ; ' 'M 12012' S ' 1/% ' -629^ 1-,' S '620' 4*2*+6 ' SSN' ,1X T 7 ' - ' ? 'M4*2*+6 ' Q S ? 1' 8 ,) ' 21,*.T -*=- 2,*0' 2' ,) *' '$ 8M ' ' ' ; 'M S 'Q+1X' ; 20*-,69*2' D ' 1-0*-' 1 ' : *2-EIC '12' 1>>6. 12' 1 ' ,) *' 0 *-*21*' D*, 8***2' ,) *' -*=; D/ >' 1 ' *2 >*' 620' 1=*' 6 ; / ' 8 ,) ',) *' 6 ?',1' ? 6 2,6 2',) *' - 5) ,.' 1 ',) *',*?^ =1-6/ =18*-' 656 2.',,) *' >1 ; -,'1 ' 1? %' ,' 86.' .,1==*0' D ',) *' 9 25 .' 1-0*-' 8) *2' ,) *' 0 *-*2>*' 2' _ ; *., 12' 86.' .*,,/*0% : *' 6/.1' 8-1,*' & ' @ ' _ ; @% 'M 120% S ' ,1X' 656 2.',) *' B*. ; , >6/' 01>^ ,- 2*' 1 ' 6 ; ,) 1- ,A% ( ) *' D*.,' *0 , 12' 1 ') .' ' ' ,) 6,' 1 ' 1.,,*-06 ? 'M R' 1/X% ( ) *-*' .' 6' ; // 6>>1 ; 2, 1 ') .' / *' 620' 8- , 25.' 2' : 665 ' '@ ' 1' ' KN B ' ; ' 2 f' + ' K RT 62012 ' 6 ' ' 1' U ' ' %T : 1* *-' 7 ' ; ' ? ' + ' R %

6.*' . 6 6> ' 6' 6=, .,' ? 2 .,*-' 86.' D1-2' 6,' *) 1C /X1,) ' 2.,1/ 1%' <6..%' *D% K ' S ' ; 2 ,*0' 8 ,) ',) *' 6=, .,') ; ->) ' 2' R' 86.' / >*2.*0',) *' 1//18 25' *6-' 620' 86.' 1-06 2*0' 2' QN% 1-' ? 62 ' *6-.' <-% 6.*' /6D1-*0' 6.' 6' ? .. 126- ' 2' <6 2*' *8' -; 2.8 >9 ' 620' 1+6' >1, 6 ' 620' 8 ,) ' ? ; >) ' .; >>*.. ' ; 2, / 60+62> 25' 65*' -*20*-*0') ?' 2>6=6D/*' 1 ' 6-,) *-' *L*-, 12% : *' 0 *0' 6,' *60 *//0' 1+% N' Q K' 2' ,) *' RK0' *6-' 1 ') .' 65*' 620' ,) *' KO' 1 ') .' ? 2 .,-+% ' =-65 ; *' 226V A' + ' K %

6.*' & // 6 ? ' ? .. 126- ',1' ,) *' 20 62.' 2' 62C 6067' 86.' D1-2' 2' 862.*6' <6..%' ; 5% K S % : *' *?D-6>*0' 6' -*/ 5 1 ; .' / *' 2' Q N' 620' 86.' -*>* +*0' 12' ,- 6/ 2' ,) *' *8' , 1-9' 12 *-*2>*' 1 ' ,) *' <*,) 10 .,' = .>1=6/) ; ->) ' 2' Q % : .' -.,' 6==1 2,? *2,' 86.' ,1' ,) *' 6 ' 1 ' # ; - ,*' 62606% 2' Q R) *' .*-+*0' 6.' ? .. 126- ' 6,' *,-1 ,% -1?' Q ' ,1' QK ') *' .*-+*0' 6.' =-*. 0 25' */0*-' 2' +6- 1 ; .' 0 .,- >,.' 2' & *., *-2' 620 1-,) *-2' *8' 1-9 ' 620' 2' 62606 ' 2' QKQ' 62606' 86.' 5 +*2' ; =',1' ,) *' & *./*7?2' < *,) 10 .,. ' 620' 6.*' 86.' ?60*' .; =*- 2,*20*2,' 1 ' 20 62' ? .. 12.' 620' .>) 11/.T 620' -1?' QN ',1' QNN) *' 86.' 5*2*-6/ .; =*- 2,*20*2, ' 8 ,) 1 ; ,' *= .>1=6/ =18*-.' 1 ',) *' < *,) 10 .,' .1> *, *.' 2' 62606% ' 5-*6,' =6-,' 1 ') .' , ?*' 2' 6//.,) *' *6-.' 86.' .=*2,' 2' ? .. 126 '81-9' 6?125',) *',=0 62.% 2' QN ') *' 86.' ?60*' =- 2> =6/ 1 ',) *' & *./*A762' 26, +*' 2^ 0 ; .,- 6/ .>) 11/ 6,' /28 >9' 2' 8) >)' .*-+ >*') 1' -*^ ?6 2*0' ; 2, / Q % 2' Q ') *' 0*/ +*-*0' 6' .*-?12' D*^ 1-*' ,) *' 6260 62' 12 *-*2>*' 2' >1? ?*? 1-6, 12' 1 ' ,) *' , *,) ' *6-' 1 ') .' .*-+ >*' 2' ,) *' ? 2 .,- % B /1 0 *0' 2' >12.*_ ; *2>*' 1 '6' 6// -1?') .') 1-.*' 6,' ,) *' /28 >9' ? .. 12C) 1 ; .*' 62606' >,' R,) ' Q % : *' //*0' 6//') .' *>>/*. 6., >6/ =1.,.' 8 ,) ') 121-T D ; ,' D .' 5-*6,*.,' */0' 1 ' ; .* ; /2*..' 86.' 6? 125',) *' 20 62.% ( ) *' +*- ' .= - ,' 1 ' : 1,' .**? *0' ,1') *' -*=-10 ; >*0' 2') ? %J ' ' ,' " ' ' Q S' ' " ' / ' Q S' =% RT =-65 ; *' & ' + ' K T ' '" ' % 'M(1-12,1 ' QS X%

6.*/ ; .' (' '62' *? 2*2,' 4*-?62' .>) 1/6-' 86.' D1-2' 6,' 41,, 25*2' 2' NN% : 1' ,, ; 0 *0' -.,' 2' ,) *' .>) 11/.' 1 '4620*-.)*' ?' 620' 1-0) 6 ; .*2' 620' 6 ,*-^ 86-0.' 2' ,) *' ; 2 +*-. , *.' 1 ' & ,,*2D*-5' 620' * =[5 ' 8) *-*') *' -*>* +*0' ,) *' /*..12.' 1 ' */62>,) 12' 620' B% 6?*-6- ; .' : *',) *2' + . ,*0' ,6/A ' 8) *-*') *' >12, 2 ; *0') .' .,; 0 *.' 620' 12') .' -*,; -2' D*>6?*' 2' SN' =-1 *..I' 1-' 1 =) /1.1=) '62 '-) *,1-' 2' ,) *' $2 +*-. ,AI7' 1 ' 1.^ ,1>9% ;- 25' 6' .*>120' A1 ; -2* ') *' ?60*' 2' ,6/A ') *' -*>* +*0' ,) *' 0*5-**' 1 ' % %' 6,' .6 ' 2' SS' 620' ,) *' 1//18 25' 7*6-' -*>* +*0' 6' =6,*2,' 1 ' 21D / , 7' -1?' ,) *' ?=*-1-' < 6L ? / 62% I 2' RR) *' 6>>*=,*0' 6' =-1 *..^ 1-.) =' 2' ,) *' $2 +*-. , ' 1 ' : */?.,60, ' 8) *-*') *' 1=^ =1.*0' 2' ; 2 12' 8 ,)' ,) *' < *62>,) 12 62.' ,) *' * 1-,.' 1 ' ; /,-6' ;,) *-62' 1-,) 101L ' =- 2> =6// ' -*=-*.*2,*0' DA') .' >1//*65 ; *' 62 *' 1 ? 622' M % +%X ' ,1' =-1.>- D*' .> *2>*' 620' =) /1.1=) 77' : *' 86.' ,) *',*6>) *-' 1 ' 4*1-5*' 6/ L, ; .' M ' +%X ' 620' 8-1,*' 6' 5-*6,' 2 ; ? D*-' 1 ' 81-9.' ? 1.,' 1 ' 8) >)' -*? 6 2' ; 2=; D/ .) *0% : *' 0 *0' 2' S N% ** B% ; -9) 6-0, .'6% ' 'D ! ' ' ' ' ' ' * 4 ' ' ' M & ,,*2D% ,1X% ' : *-[15' 5 26 " % ' ' RQ%

6.*? *2,MCN7 7 ' " (' -1+%+ 'ST ' /6,,>* I ' B ; 05% ' KQX ' 6' 9 20' 1 ' D6-- *-' 1 ' 1=*2C81-9 ' =/6>*0' D* 1-*' 8 2018.' 2' ,) *' 6., ' 8) >) ' D* 25' ; .,6 // ' 1=*2' 2' .; ? ? *-' 0182' ,1' ,) *' /11-' -*_ ; -*' .1?*' .; >) ' 0*^ *2>*% *>' % $!

6.) */ ' 1-? *-/ ' 62' 6->) *= .>1=6/ .*' 2' -*/620% ( ) .' 62> *2,' .** .' 218' 0*=- +*0' 1 ' ,.' ? *,-1=1/ ,62' 0 52 , ' 620') 6.' ; 2 .*0' ,1' ,' ,) *' .**.' 1 ' ?/ ' &76,>C 1-0' 620' .?1-*T ,) *' ; 2 ,*0' 0 1>*.*' >12. ., 25' 1 ' ,) *' >1 ; 2, *.' 1 ' (=7*-6-E 7 & 6,*- 1-0' 620' =6-,' 1 ' ?*-^ >9% ( ) *' 2>; ? D*2,' 2' QSS' 86.' 1D*-,' 6, ' i' >12.*>-6,*0' 2' Q N%

6. =) 6' M : *D%) % " (' =*-) 6=.' -1? ' 1-' " "' ' ,) *' 26?*' D*' 21,' 1 ' - 62' 1- 5 2T *=, ' .1' ,-62./6,*.' % % 1' 6' ' =/6>*J' M /=7 ' % *-*5 12X 1 ' ,) *' *-. 62' *?= -*' 8) *-*' *C' + ,*.') 60' .*,,/*0' 0 ; - 25' ,) *' 6=, + , ' &) *2>*' 001' 8 ,)' 1,) *-.' 1 ',) *? ' 8*-*' .*2,' 1-' D ' [-6' ,1' A1 2') D' =6-, ' -*, ; -2 25' ,1' B*-; .6/*?' M [-6' + ' X% 4*.*C 2 ; .' I-" f' =% NX 1DA*>,.' ,1' ,) *' 0*2, >6, 12' D ' .1?*' 8 ,)' ,) *' % ' 620' 1' 1,) *-.' 8 ,)' ,) *' > , ') ' ,) 6, ',) *.*' 6-*' 21,' 12' ,) *' -1 ; ,*' -1?' 6DC 012' ,1' 6/*., 2*% .' ,) .' =1. , 12' 1 ' ,) *' =/6>*' 2' _ ; *., 12 ') 18*+*-' .' 21,' >/*6-' ,' .' / 9*/ ' ,) 6, ' ',) *' 6.=62' $ ' D*' 21,' 0*. 526,*0' D ' ,) D' 26?*' ,' ?6 ' -* *-' ,1' ,) *' 6.=62J' 2 ' . ,; 6,*0' 2' <*0 6' M ,-6D1' L ' =% KK ' K T / 2 '+ ' X' 8) *-*' B*8 .)' *L /*.' .**?' ,1') 6+*' D**2' /1>6,*0' M(1D ,' ' ST ' X% ( ) .' .' 6,' /*6.,' 6+1-*0' " ',) *' -6DD 2 >6/ ,-60 , 12' 6C * + ' 5 ' M+' SX ' 620' .' 0* *20*0' D ' ; -.,' I1# ' # f' .% +%X ' 8) 1' 600 ; >*.' 6/.1' ,) *' /1>6/ , ,/*' & 1' ' 6.' 6' >1 2> 0*2>*' 8 ,)' ,) *' . /+*- ' .; ? ? ,.' 1'",) *

.218C>6==*0'-625*' 1 ' 6 ;>6. ; .'M>1?= '& %1' %' *%' I 1 8) ,*JX%

6 . /*+' Md61- d HX' 6' 4-.*> [*0' 1-?' M ' <6>>%' ' I' +' K' RT' K' <6>>%' ' R Q' ' L ' X' 1 ',) *' 26?*' 1 ',) *' B*8 .)' ?12,)' */.*8)*-*' M7*) %' ' T' U*>)%+ ' X' 25/ > [*0' ' 'M_%'+%X

6 . / ; // ?' M : *D%') " 1' 1 ' ; 2>*-^ ,6 2 ') ; ,' =-1D%' 1-* 52' *, ?1/15 T' *=,' 2' 4*2%' d6C' * *< O1!' " .' 2')-12 ' O O %' +%' -% d> d8nZ\L' E' 6' =*1=/*' 8)1.*' =-15*2 ,1-' 86. ' 6' .12' 1 ' < [-6 ?' M4*2%' L ' T' ')-12%' ' KX%' ' 2' D1,)' =6..65*.' ,' 81;/0' 6==*6-' 6.' ,)*' ,*L,' 218' .,620. ' ,) 6,' ,) *') / ., 2*.' >6?*' 1-,)' -1?',)*' 6./ ;) ?' 620' 21,' -1?',)*' 6=),1- ?' 6.' .' */.*8)*-*' *L=-*../ ' .,6,*0&)*-*' ,)*-* 1-*' ,)*-*' ?9 ' D*' 6' ,-62.=1. , 12%' **' /' ! ()*' 12/ '>/*8' 8*')6+*' 6.' *,',1',)*' =1. ^ , 12' 1 ',)*' 6./2) ?' .' ,)*' -' =/6>*' 2',)*' / ,' 1',)*' .12.' 1 ' < [-6 ?' D*,8**2',)*' 6,)-; . ?' 620',)*' 6=)^ ,1- ?' 8)*2>*' ,' .' =-1D6D/*' ,)6,',)* ' 8*-*' .*6,*0' 2' $==*-' 5 =,%' **' + ' ! ()*' I *=,%' .**?.' ,1' 0*2, ',)*?' 8 ,)' O 1" " 1' 7 70 : 1 ' .6%' L+ ' N ' M %' %' =- 2>*.JX' 8)>)' .1?*' M< >)6*/ .' L+ ' N ' M %' %' =- 2>*.JX' 8)>)' .1?*' M< >)6*/ .' $ %% ' =%' R NX',)1;5)' 21,',)*' *=,' 2',)6,' =/6>*' ,69*' ,1' D*' 6' =-1=*-' 26?*' 1?=6-*' I 8 ,)',)*' 26, +*'> + / 26?*' 1 ' : *-?1=1/ .' < 6526%' I ( ) .' 81;/0' =/6>*' ,)*' 6./ ;) ?' 2' ,)*' : *=,6212 .%' **' % ' ! 1>)6-,' I "(2 1' + ' N X' . ; 55*..' ,)*' 0*2, , ' 1 ',)*' 6./ ;) ?' 8 ,)',)*' "+ 'M>1?=' < >)6*/ .A $% 2 ! ' K '._%X' 8)1'6-*' .6 0',1')6+*' D**2' 62' 5 =, 62' >1/^ 12 ' M : *-10' ' T' *O%' >%' 'KQI' 12 .%' *- *5% =% SQR%' ? ? 62%' <6->%' LL IKKT' >1?=%' 56,)% ' QXT') ; ',) .' .,1- '620',)*' . ? /6- , '1 '26?*' 01' 21,' .**?' . ; > *2,' ,1' -*20*-' ,)*' . ;==1. , 12' 6' =-1D6D/*' 12*' 6/,)1;5)' 4*.*2 ; .' M.**' : , [5 ' " !' =% QS' ._%X' 5 +*.' ,' .' ;==1-,' >-" !' =% KT' >1?=% ,,*-' N =' " 1' =% N ' ._%T -*) ?*-'6 "!' ' N ' ._%X% 1-^ .,*-' I')%' ' " '=% S' ._%X' >12A*>, ; -*.' ,)*' 6./ ; ^) ?' ,1' D*' ,)*' 2)6D ,62,.' 1 ' 1' ,)*' ,-6>,' 2' 8) >)' .' ,)*' ./ 5),' */*+6, 12' >6//*0' <1;2; 6. ; .' M / 2E ' ' K' 620' T' ,-6D1' L+ ' RT' ,*=)%' [% =%' X%' ;2.*2' 6. . ; ?*.',) .',1' D*' =-1+*0' >; "1' =% KSX%' ()*-*' .')18*+*-' 6' .*- 1 ; .' O >;/, ' 2',)*' 86 ' 1 ',) .' . ;==1. , 12 ' 7,)*' 26,; -*' 1 ',)*' 5-1;20 ' 6' /18' / ,,1-6/ ,-6>,' 1 ' -1>9' >1+*-*0' 8 ,)' .) , 25' 620' *+*2' _ ; >9' .620%' ; ,' ,1/*? ' >? !' + ' S' KT' >1?=% B1.*=)%' 6-' +' X' 5 +*.' ; .' ,)*' 26?*.' 1 ' .*+*-6/ ,18 2.' / 25' 2' ,) .' O .,- >, ' .1' ,)6,' ,' ?; .,')6+*' D**2' >6=6D/*' 1 '. ; ==1-, 25' 6' =1=; /6, 12 ' 620' ?6 ' 2' 62' *6-/ *-' =*- 10')6+*' D**2' _ ; .*' 60*_ ; 6,*' ,1',)*' .; ==1-,' 1 '6',- D*%' ()*' =1. , 12' 1 ',)*' 6.7;) ?' 2',)*' / .,' D*. 0*' ,)*' 6,)-; . ?' 620',)*' 6=),1- ?' -*20*-.' ,' =-1D6D/*' ,)6,',)*' 1- 5 26/ .*6,' 1 ',)*' ,- D*' 86.' .1?*^ 8)*-*' 2' 18*-' 5 =,' 620' 21,' 6-' -1?',)*' + > 2 ,' 1 ',)6,' ' *-D12 62' 15' D*,8 L,' 6 ? 6,6' 620' <1;2; 6. ; .' 1/OJ' M 6-% V1. ' /*' SRKX%' : //*-' I5 !' 2 !' =%' Q ._%X' -* *-.' ,)*' 26?*' ,1',)*' $ '1 ',)*' 4-**9.' M ,-6D1' ' N T' L + ' SS X' 2',)*' 2* 5)D1-)110' 1 ',)*' > 62.' M>1?=%' >);/,)*.. ' !' =%' SS' ._%X%' ()*' .;==1. , 12' 1 ' : ,[5' > " ' =%' R ' ._%X' ,)6',)*' 6.^ 4 /;) ?' 8*-*' 6' -*,62' >1/12 ' 2' D 6' !8)*2>*' 656 2' 6' >1/12 ' 86.' .*2',1') / ., 6 ' .' ?*-*/ ' D6.*0' ;=12' 6' +65;*' 6//;. 12' 2' (6> ,;.' ># ' + ' KX%' **' > ' L #!

6.7 =)12' >O + ' +%' -% d6Z- 8=' 620' d6 78 !' <6>>%' ' NSX' 1-' 6 . =)1,' Md61C 8=' +%' -%' O 1 ' 620' dOM(8N' ' <6>>%+' KSX' 12*' 1 ',)*' 1-, *0' >, *.' 2',)*' /620' 1 ' 46/660 J' %' *' 4 /*60' M ' <6>>%+' KSX' 2' 8)>)',)*' B*8.' ,119' -* ;5*' -1?' ,)*' ? ?12 ,*.' ;20*-' (?1,)*; .' M>1?=%+*-%' SX' 620' 8)>)' 8 ,)',1),*-' >, *.' : +6: ,69*2' D 'B ; 06.' <6>>6D6A; .' M+' NSX%' B1.*^ =) ; .' 2',)*' =6-6//*/ 6>>1;2,' >& !' L ' Q' NX' >6//.' ,' " %" 'MdO>- 6PT 6X%' 4-1, ; .' 620' 6/?*,' M 2' /1>%' >12. 0*-' ,',)*' .6?*' MD ; .' 12' ' ./ 5),' 5-1;20.X 8 ,)' % ' 'M_%' %X%' ,' 86.' . .;6,*0' 2*6-' 1.,-6 ' .)C ,6-1,)C 6?6 ?' 620' 0-* ' 620' 86.' =*-)6=:.' 12*' 1 ,)*' -; 2*0' . ,*.' 2' ,)*' : 6 ; -62' ., //' 1;20' D ' ,-6+*/ I' /*,.%' **' % $!' **,[*2 .' >1? ?*2,6,1-.' M21,*.' 12' =,%' ' < 6->)' Q S' +' RQX' .;55*.,' ,)*' ?10*?' *.C $1 '6.',)*' =1.. D/*' . ,*' 1' 6.=)12 D ; .' 600' ,*')18*+*-' ; 2>*-,6 2%J' **' 6/.1' / !

6.7 = .'M 01((>*IX' 6' .,-D25/ C 1-, *0' > , ' 8)*,)^ *-' *6.,' 1-' 8*.,' 1 B1-062' .' 21,' =/6 2 ')6+ 25' 2*6-' ,' 6' /69*' IO % 8',81' .,60 6' 2' D-*60,)%' ,' 86.' ,69*2' D ' B ; 06.' <65*6D.*;.' 8 ,)' 5-*6,' ./6 ; 5),*-' MK' <6>>%' L ' N' SX%' ()*' =6-6//*/') .,1- ' 1 ',)*' .,' >19' 1 ' <6>>6D**.' ?*2, 12.' 6' > , ' 26?*0' / ' 1-' L / ' 'M_%' %X' 8 ,)' 8)>)' 6.= .' ?6 ' D*' 0*2, >6/ ') ; ,)*' 26--6, +*.' 0 *-' ?6,*- 6// 'M.**' 86/0' !' ? +!' + ' N R' 21,*X%' */620' > !' =% N X' >1?=6-*.' 6' > , " % "' M (7k : X' 12',)*' D1-0*-.' 1 ' 6/*., 2*' MB*?.%' (6/?%' ' W LL ' X%

6..620*-' & ' 12*' 1 ',)*' ?1.,' 6? 6D/*' 620' *2/ 5),*2*0' 0 + 2*.' 1 ',)*' 1?62') ; ->) ' &6.' D1-2' 6D1 ; ,' ' 2',)*' ./620' 1 ' 60.620' 6,' ,)*' ?1 ; ,)' 1 ',)*' >)*/0,%' : *' 86.' 1-'6', ?*' =-1 *..1-' 1 ',)*1/15 ' -.,' 6,' -;5*.' ,)*2' 6,' 4)*2,' 6 ,-*' 8)>)')*' 8*2,' ,1' 1/152*' 8)*-*')*' 0*+1,*0' / ?.>/ ' ,1',)*' .,; 0 ' 1 ',)*' >12,-1+*-.' D*,8**2',)*' 1?62' 6,)1/ >.' 620' * 1-?*-.')1= 25' ,1' 6//6 ' ,)*' 0 ..*2. 12.' 1 ' ,)*' , ?*%' ()*' 0;9*' 1 ' /*+*.' >6//*0') ?' ,1' ; .D:-5' ,1' D- 25' D6>9',)*' 26D6=, .,.' '=1.. D/*' ,1',)*') ; ->)' 620',) .' /*0',1') .' =-*=6- 25') *' D119' 12' 2 62,' D6=^ , .?%' : .' -.,' =; D/ >6, 12' 86.' ' ' '% ' ' " ' ' ' M 6./*' S ' Q+1X' : *' .)6-*0' ,)*' >1?12' 6,*' 1 ',)1.*' 8)1' *20*6+1-' ,1' ;2 ,*' =6-^ ,*.' 86-?/ ' 1==1.*0',1' *6>)' 1,)*-' 620') .' D119' 86.' 0 ./ 9*0' D ' D1,)' -1,*.,62,.' 620' 1?62 ..%' ()*' 12%=*-1-' *-0 2620' 20 ; >*0') ?' ,1' 8-,*') .' =' ' # 'D ' % % ' '% -*-?' M S X' 2' 8)>)') *' *20*6+1-*0',1' -*>12> /*',)*' +6- 1 ; .' 6-, >) .' 1 ',)*' 12 *.. 12' 1 ' ; 5.D/ -5' 8 ,)',)*' 6 ,)' 1 ',)*' 1?62') ; ->)%' : *' 86.' 8' // 25',1' 5-62,' ,)*' >; =',1',)*' /6 , '620' 2' *L,-*?*' >6.*.',)*' ?6-^ - 65*' 1 '=- *.,.%' 6..620*-' 0 *0' *D%' N' SSS%' : .' 891-9.' 8*-*' >1//*>,*0' D' *>1-0.*.' ,% '4 ' % ' % ' ' M 6- . ' S S' 1/%X%' () .' >1//*>, 12' >12,6 2.' 6?125' 1,)*-' ,) 25.' 6' >1? ?*2,6- ' 12',)*' ,81' 26, ; -*.' 1 '-)*.;')- . ,' +6- 1 ; .' ,-*6, .*.' 656 2.' ,)*' 26D6=, .,.' 8 ,)',*., ?12 *.' -1?',)*' 6,)*-.' 620',)*' 01>,- 2*' 1 ',)*' *6-/ ') ; ->)' 12',)*' .A DA*>,' 1 ',)*' D6=, .?' 1 ' 2 62,.' T' D :' *>>/*. 6.,>6/') ?2.' 8 ,)' 21,*.' T' 12*') ; 20-*0' 620' .*+*2' /*,,*-.' *,>% 1?*' 1 ',)*.*' ,-*6, .*.' 8*-*' >120*?2*0' D ' ,)*' 1; 2> / 1' (-*2,%' 62012' 6 !' ' 1' .%+%T' : 1* *-' 7 !' ; !' ? " 1' L' K T' 4 *.*/*-' " "' # 1'+1 ' +' g N ' S T' : 119' 6 !' ; ' %" 1' ' K ._%

6..*/ ' 12 *-*2>*' 1 ' 6' ?**, 25')*/0' 6,' 6.C .*/ 2' SS ' D*,8'**2',)*' * 1-?*0',)*1/15 62.' 1 ' <6-^ D ; -5' 620',)*' ; ,)*-62',)*1/15 62.' 1 ' 2,*/2 ' *,*-' < ; . ; ; .' 620' B1)622' : *22 >)*2 ' D1,)' [*6/1; .' 0 .> =/*.' 1' 6/ L, ; .' M_%' %X' -*=*.*2,*0',)*' ;,)*-62. ' 620' *D6., 62' ; -. .' 620' B1)622*.' : * 2',)*' * 1-?*0% ()*' 1DA*>,' 1 ',)*' 12 *-*2>*' 86.' 6>>1-0 25',1',)*' 1 > 6// C=; D/ .)*0' ; ' ' 4 1' *,*%' ,1' *2^ 0*6+1-' D ' - *20/ ' 0 .>; . 12 ' ,1'-*?1+*',)*'1D.,6>/*.' ,1' ;2 12% ()*' =- 2> =6/' .; D%*>,.' 1 ' 0 .>; 7 12' 8 *-*',)*' ;>)6- .,' -*0*., 26, 12' 6=, .?' 620',)*' =*-.12' 1 ')- .,' 620' D1,)' =6-, *.' 65-**0',)6,' 2',)*.*' ;2^ 06?*2,6/ =1 2,.',)*' -' 01>,- 2*.' 8*-*' *..*2, 6// ' . ?^ /6-%' ()*' /6205-6+*' 86.' =*, , 12*0',)6// 12' ,)*' 2* 5)D1- 25' >) ; ->)*. ' 6, 0',)*' $2 +*-. , *.' 1 ' -62^ 0*2D ; -5' 620' - ; 2.8 >9' ,1' 601=',)*' -*.1/ ; , 12.' 1 ' ,)*' 12 *-*2>*' 620' 6/.1',1' 2+ ,*' 6' 5*2*-6/ >125-*.' 1 ',)*' ,)*1/15 62.' 1 '6// ;1 ; 2,- *.%' / 0*6,)' M 2' SSNX' 0*..-1 *0' 6// ,)*.*' =-1A*>,.' 1 ' ; 2 12% **' 1?2*/' ? "!' ' # ' L' =%' ST' <1.)* ?' " "' # ' ' Q RT' : *-[15' 5 =6 O 2 % ' ' %

6..*// ') ' 6' ? 2 ..*-' 1 ' ,)*' <*,)10 .' = .>1=6/) ; ->)' 86.')1-2' 2' <6-A0620' 2' Q ' *2^ ,*-*0',)*' , 2*-62,' ? 2 .,-A' 2' Q K' 620' 0 *0' 1 ' *//18

fever in September, 1808. He was of German parentage, and his mind remained in "uncultured darkness until his conversion. From that day it was manifest how great a mind had thus been called forth. The improvement he made astonished his friends." His genius, eloquence, and piety soon placed him in the most important positions as a preacher, and his early death was a great loss to the Church.—*Minutes of Conferences*, ii, 168.

Cassia is the rendering in the Auth. Vers. of two Heb. words.

1. KIDDAH', קִדָּה, mentioned in Exod. xxx, 24 (Sept. ἴρις) among the ingredients of the holy oil of anointing, and in Ezek. xxvii, 19 (Sept. σπαρτίον) as one of the articles of merchandise in the markets of Tyre. The Sept. (in one passage) and Josephus (*Ant.* iii, 8, 3) have *iris*, i. e. some species of *flag*, perhaps the *Iris florentina*, which has an aromatic root-stock. Symmachus and the Vulg. (in one place) read *stacte*, "liquid myrrh." The Arabic versions of Saadias and Erpenius conjecture *costus* (see below). The Chaldee and Syriac, with most of the European versions, followed by Gesenius, Simon, Fürst, Lee, and all the lexicographers, understand the Arabian *cassia*, or cassia-bark, a species of aromatic cortical resembling cinnamon, but less fragrant and valuable; so called from its rolls being *split* (from קָדַר, to *cleave*). See Dioscor. i, 12; Theophr. *Hist. Plant.* ix, 5; Celsius, *Hierob.* ii, 186, 350 sq.

2. KETSIAH', קְצִיעָה, named only in the plural in Psa. xlv, 8 (Sept. κασία, Vulg. *casia*), in connection with myrrh and aloes, as being used to scent garments with. The word comes from the root קָצַע, to *abrade*, and appears to refer to the *peeled* bark of some species of cinnamon, perhaps differing in this from the preceding only as designating some *oil* or prepared aromatic, of which that denotes the raw material (see Celsii *Hierob.* ii, 369). See AROMATICS.

Under the name *cassia* (which appears to be identical with this last Heb. term) the ancients designated an aromatic bark derived from the East, and employed as an ingredient in costly unguents (Theophr. *Plant.* ix, 7; Pliny, xii, 43; Dioscor. i, 12; Diod. Sic. iii, 46; Athen. x, 449; Plaut. *Curcul.* i, 2, 7; Virg. *Geo.* ii, 466; Martial, vi, 55, 1; x, 97, 2; Pers. *Sat.* ii, 64; i, 36). It was obtained from a tree or shrub growing in India and Austria (Herod. iii, 110; Diod. Sic. l. c.; Agatharch. in Hudson, i, 61; Arrian, *Alex.* vii, 20; but see Pliny, xii, 41), which Pliny (xiii, 43) more closely, but still not adequately describes, and which Columella (iii, 8) saw in Roman fancy gardens. It is clear that the Latin writers by the term *casia* understood both the Oriental product now under consideration, as well as some low, sweet herbaceous plant, perhaps the *Daphne gnidium*, Linn. (see Fee, *Flore de Virgile*, p. 32, and Du Molin, *Flor. Poet. Ancienne*, p. 277); but the Greek word, which is first used by Herodotus (ii, 86), who says (iii, 110) the Arabians procured it from a shallow lake in their country, is limited to the Eastern product. Dioscorides (l. c.) and Galen enumerate three better sorts of cassia, and there are still in Europe held to be different kinds, but they all are distinguished from the true cinnamon-tree by their darker color, weaker odor, and less lively taste. The tree from which the bark is produced is regarded by naturalists as the *Laurus cassia* (Linn.), that flourishes in the East Indies and Malatia (Ainslie, *Mater. Med.* i, 58 sq.); yet the brothers Nees von Esenbeck (*De cinnamomo disputat.* Bonn, 1823, in the *Botan. Zeitung*, 1831, No. 34) have shown that this plant (the *Laurus cassia*) is not a distinct species, but only a wild or original form of the *cinnamomum Ceylonicum* or *Zeylanicum*. See the *Penny Cyclopædia*, s. v. Cassia; Laurus.

Laurus Kinnamomum.

The name Cassia has been applied by botanists to a genus containing the plants yielding senna, and to others, as the *Cassia fistula*, which have nothing to do with the original cassia. "Cassia-buds," again, though no doubt produced by a plant belonging to the same, or to some genus allied to that producing cinnamon and cassia, were probably not known in commerce at so early a period as the two latter substances. Dr. Royle, in his *Antiquity of Hindoo Medicine*, p. 84, has remarked, "The cassia of the ancients it is not easy to determine; that of commerce, Mr. Marshall says, consists of only the inferior kinds of cinnamon. Some consider cassia to be distinguished from cinnamon by the outer cellular covering of the bark being scraped off the latter, but allowed to remain on the former. This is, however, the characteristic of the (Cochin-Chinese) *Cinnamomum aromaticum*, as we are informed by Mr. Crawford (*Embassy to Siam*, p. 470) that it is not cured, like that of Ceylon, by freeing it from the epidermis." There is no doubt that some cassia is produced on the coast of Malabar. The name also would appear to be of Eastern origin, as *kasse koronde* is one kind of cinnamon, mentioned by Burmann in his *Flora Zeylonica*.

The Heb. word *ketsiah*, however, has a strong resemblance to the *kooth* and *koost* of the Arabs, of which *Kooshta* is said by their authors to be the Syriac name, and from which there is little doubt that the κόστος of the Greeks and *costus* of the Latins are derived. Κόστος is enumerated by Theophrastus (*Hist. Pl.* ix, 7) among the fragrant substances employed in making ointment. Three kinds of it are described by Dioscorides among his *Aromata* (i, 15), of which the Arabian is said to be the best, the Indian to hold the second place, and the *Syrian* the third. An inferior kind is termed by him κιττώ (i, 12), a word which has a strong resemblance to the Heb. *kiddah* above. Pliny mentions only two kinds (xv, 12), the white and the black, brought from India. The Persian writers on Materia Medica in use in India, in giving the above synonymes, evidently refer to two of the three kinds of *Costus* described by Dioscorides, one being called *Koost Hindee*, and the other *Koost Arabee*. Both these kinds are found in the bazaars of India, and the *koot* or *koost* of the natives is often, by European merchants, called Indian orris, i. e. Iris root, the odor of which it somewhat resembles. The same article is known in Calcutta as *Puchuk*, the name under which it is exported to China. The identity of the substance indicated by these various names was long ago ascertained by Garcias. The *koost* obtained in the northwestern provinces of India

is one of the substances brought across the Indus from Lahore (Royle, *Illust. Himal. Bot.* p. 360). Dr. Falconer, on his journey to Cashmere, discovered that it was exported from that valley in large quantities into the Punjab, whence it finds its way to Bombay (as in the time of Pliny to Patala) and Calcutta for export to

Cinnamomum Cassia, with enlarged view of the Bud.

China, where it is highly valued as one of the ingredients in the incense which the Chinese burn in their temples and private houses. He named the species *Aucklandia Costus* (*Linn. Trans.* xix, 23) (see Smith's *Dict. of Class. Ant.* Am. ed., s. v. Cassia; Costum). See CINNAMON.

Cassian, JULIUS (Κασσιανός), a leader of the Docetæ in the second century: Cave gives the date A.D. 174; Tillemont about A.D. 200. He is mentioned by Hippolytus and Irenæus, but what is known of him is chiefly derived from Clemens Alexandrinus, who calls him the founder of the sect of the Docetæ, and refers to one of his works, entitled *Concerning Continence*, from which it appears that he adopted the notions of Tatian respecting the impurity of marriage. He quoted passages from apocryphal Scriptures, and perverted passages from the genuine Scriptures in order to support his opinions. Clement says that "he had recourse to the fiction—that Christ was only a man in appearance—through unwillingness to believe that he had been born of the Virgin, or partaken in any way of generation." Clement accuses him of borrowing from Plato his notions respecting the evil nature of generation, as well as the notion that the soul was originally divine, but, being rendered effeminate by desire, came down from above to this world of generation and destruction. Eusebius (vi, 13) speaks of Cassian as author of "a history of the times in chronological order" (Clement, *Stromat.* iii, 13, § 91).—Lardner, *Works*, viii, 611–614; Neander, *Church Hist.* i, 458; Cave, *Hist. Litt.* Cent. ii; Matter, *Hist. du Gnosticisme*, ch. i, § 3.

Cassiānus, JOHANNES (also called JOANNES MASSILIENSIS, JOANNES EREMITA), according to Gennadius (*De Vir. Illust.* c. 61), a Scythian; but the more likely view makes him a native of Marseilles. He was brought up at the celebrated monastery of Bethlehem (q. v.), under Germanus, with whom, about A.D. 390, he went to visit the hermits of Egypt, among whom he lived several years. In 403 he went to Constantinople, where he listened to Chrysostom, who ordained him deacon. About 415 he founded a monastery at Marseilles for monks and another for nuns; the first is the celebrated abbey of St. Victor. He may thus be considered as the founder of monachism in the West; and his treatise *De Institutis Cœnobiorum*, libri xii, afforded a code by which the monasteries were long after ruled (transl. into French by Saligny, Paris, 1667, 8vo). Cassianus, according to different writers, died (aged 97) in 440, or 448, or 435. The Chronicle of Prosper represents him as alive in 433. Some churches honor him as a saint on the 23d of July, though he was never canonized. He was a strong opponent of Augustine's doctrine of predestination, but at the same time, by recognising the universal corruption of human nature, he opposed Pelagius just as strongly. (See his *Collationes Patrum.*) He admitted the necessity of preventing and assisting grace, but held that, in most men, faith and good will, and the desire of conversion, wrought by natural strength alone, precede such grace, and prepare the mind to receive it; and that such first efforts of the natural man cannot indeed *deserve* the gift of grace, but assist to the obtaining of it. "His attention was turned to experience; he observed religious natures; a system of mere logical speculation had no charms for him. His doctrines, which are scattered through his writings, were designed to represent in its simplicity the faith of the Galilean fishermen, which had been garbled by Ciceronian eloquence. Free will and grace agreed, and hence there was an opposing onesidedness which maintained either grace alone, or free will alone. Augustine and Pelagius were each wrong in their own way. The idea of the divine justice in the determination of man's lot after the first transgression did not preponderate in Cassian's writings as in Augustine's, but the idea of a disciplinary divine love, by the leadings of which men are to be led to repentance. He appeals also to the mysteriousness of God's ways, but not as concerns predestination, but the variety of the leadings by which God leads different individuals to salvation. Nor is one law applicable to all; in some cases grace anticipates (*gratia prævenions*), in others a conflict precedes, and then divine help comes to them as grace. In no instance can divine grace operate independently of the free self-determination of man. As the husbandman must do his part, but all this avails nothing without the divine blessing, so man must do his part, yet this profits nothing without divine grace" (Neander, *Hist. Dogmas*, ii, 377). Among his writings are *Collationes Patrum*, xxiv, in which Cassian introduces Germanus and other monks as interlocutors, with himself, in dialogues on various monastic and moral duties. In the 13th Conference, Cassian, under the person of Chæremon, sets forth what has been called his *semi-Pelagianism*, viz. his views of predestination and grace. The 17th Conference defends occasional *falsehood*, as being not contrary to Scripture: "A *Lie* is to be so esteemed and so used as if it possessed the nature of hellebore, which, if taken in an extreme case of disease, may be healthful, but if taken rashly, is the cause of instant death; people the most holy and most approved of God have used falsehood without blame," etc. The 20th shows several ways of obtaining remission of sins besides through the death and intercession of Christ. He wrote also a treatise, *De Incarnatione Christi*, lib. vii, in confutation of Nestorius, about A.D. 430, at the request of Leo, afterwards bishop of Rome. Cassian maintains the propriety of the term "Mother of God." The *Collationes* were translated into French by Saligny (Paris, 1663, 8vo). His works were published at Basle in 1575; at Antwerp in 1578; at Rome (*cura Petri Giacconii*), 1580 and 1611, 8vo; at Douai (1616, two vols. 8vo), by Alardus Gazæus; reprinted at Leipsic 1722, fol. (the best edition). They are also in the *Biblioth. Patrum*, vol. vii.—Neander, *Church Hist.* ii, 627–630; Hoefer, *Nouv. Biographie Générale*, ix, 35; Dupin, *Eccl. Writers*, 5th century; Meier, *Jean Cassian* (Strasb. 1840); Wiggers, *de Johanne Cassiano*, etc. (Rostock, 1824, 1825); Wiggers, *Augustinismus et Pelagianismus*, ii, 19, 47, etc.

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lain (1666) and Arabic professor at Cambridge, to which were afterwards added a prebend of Canterbury and the livings of Hatfield Peverell and Wodeham Walter. He died in 1685 rector of Higham Gobion, Bedfordshire. His *Lexicon* is one of the greatest monuments of industry known in literature. He was aided in its preparation by Dr. Murray, bishop Beveridge, and Dr. Lightfoot. Besides his vast labors on the *Lexicon*, he was eminently useful to Walton in the preparation of his *Polyglot Bible*. Walton acknowledges his services, but not adequately.—*New General Biograph. Dictionary*, iii, 194; *Bibl. Repository*, x, 11; Todd, *Life of Walton*, vol. i, ch. v; Horne, *Introduction*, v, 252 (9th ed.).

Castellio. See CASTALION.

Castellum (or Castra) Peregrinōrum (*Foreigners' Station*) or PETRA INCĪSA (*Cut Rock*), a fortified seaport of the Crusaders in Palestine, between Mt. Carmel and Cæsarea (Ritter, *Erdk.* xvi, 615; Raumer, *Palästr.* p. 133); now ATHLIT, a most formidable-looking ruin (Van de Velde, *Narrative*, i, 312-314; Wilson, *Lands of Bible*, ii, 248). See AHLAB. Under the form *Castra* (קסטרה) it seems to be mentioned by the Rabbins (Reland, *Palæst.* p. 697; Schwarz, *Palest.* p. 162).

Castle is the rendering in the A. V. of the following words in certain passages: אַרְמוֹן, *armon'*, a *fortress* (Prov. xviii, 19; elsewhere uniformly "palace"); טִירָה, *tirah'*, a *wall* ("row," Ezek. xlvi, 23), hence an *enclosure*, e. g. a *fortress* ("palace," Cant. viii, 9), or a nomade *hamlet* of palisades (Gen. xxv, 16; Num. xxi, 10; 1 Chron. vi, 54; "palace," Ezek. xxv, 4; poetically "habitation," Psa. lxix, 25); בִּירָנִית, *birânith'* [from the synonymous בִּירָה, *birah'*, "palace;" see BARIS], a *citadel* (2 Chron. xvii, 12; xxvii, 4); מִגְדָּל, *migdal'* (1 Chron. xxvii, 25), a *tower* (as elsewhere rendered); מְצָד, *metsad'* (1 Chron. xi, 7), or מְצוּדָה, *metsudah'* (1 Chron. xi, 5), a *fort* or *stronghold* (as elsewhere usually rendered); ἀκρόπολις, *acropolis* (2 Macc. iv, 27; v, 5); πύργος, a *tower* along a wall (2 Macc. x, 18, 20, 22); παρεμβωλή, a military *enclosure* (Acts xxi, 34, 37; xxii, 24; xxiii, 10, 16, 32) or *station* ("camp," Heb. xi, 34; xiii, 11, 13; Rev. xx, 9). See TOWER; PALACE, etc.

Castles among the Hebrews were a kind of military fortress, frequently built on an eminence (1 Chron. xi, 7). The priests' castles, mentioned in 1 Chron. vi, 54, may also have been a kind of tower, for the purpose of making known anything discovered at a distance, and for blowing the trumpets, in like manner as the Mohammedan imams ascend the *minarets* of the mosques at the present day to call the people to prayers. The castles of the sons of Ishmael, mentioned in Gen. xxv, 16, were watch-towers, used by the nomade shepherds for security against marauders. The "castle" in Acts xxi, 34, refers to the quarters of the Roman soldiers at Jerusalem in the fortress Antonia (q. v.), which was adjacent to the Temple and commanded it. See FORTIFICATION.

Cas'tor AND POL'LUX, the *Dioscûri* (Διόσκουροι, Acts xxviii, 11), two heroes of Greek and Roman mythology, the twin-sons of Jupiter and Leda (see Smith's *Dict. of Classical Biog.*, s. v. Dioscuri). They were regarded as the tutelary divinities (Θεοὶ σωτῆρες) of sailors (Xenoph. *Sympos.* viii, 29). They appeared in heaven as the constellation of *Gemini*. On shipboard they were recognised in the phosphoric lights called by modern Italian sailors *the fires of St. Elmo*, which play about the masts and the sails (Seneca, *Nat. Quæst.* i, 1; comp. Pliny, xi, 37). Hence the frequent allusions of Roman poets to these divinities in connection with navigation (see especially Horace, *Carm.* i, 3, 2, and iv, 8, 31). As the ship mentioned by Luke was from Alexandria, it may be worth while to notice that Castor and Pollux were specially honored in the neighboring district of Cyrenaica (*Schol. Pyth.* v, 6). In Catull. iv, 27, we have distinct mention of a boat dedicated to them (see also lxviii, 65). In art, these divinities were sometimes represented simply as stars hovering over a ship, but more frequently as young men on horseback, with conical caps, and stars above them (see the coins of Rhegium, a city

Silver Bruttian Coin, with the Heads of Castor and Pollux; also their Figures mounted.

of the Bruttii, at which Paul touched on the voyage in question, verse 13). Such figures were probably painted or sculptured at the bow of the ship (hence παράσημον; see Smith, *Dict. of Class. Antiq.*, s. v. Insigne). This custom was very frequent in ancient ship-building. See SHIP. Herodotus says (iii, 37) that the Phœnicians used to place the figures of deities at the bow of their vessels. Virgil (*Æneid*, x, 209) and Ovid (*Trist.* i, 10, 2) supply us with illustrations of the practice; and Cyril of Alexandria (Cramer's *Catena*, ad l. c.) says that such was always the Alexandrian method of ornamenting each side of the prow.—Smith, s. v. See DIOSCURI.

Casuistry is that branch of Christian morals which treats of *casus conscientiæ* (cases of conscience); that is to say, of questions of conduct in which apparently conflicting duties seem at first to perplex and disturb the moral faculty, and make it necessary to trace, with a careful exclusion of everything *but* moral considerations, the *consequences* of the rules of morality (Whewell, *History of Moral Philosophy*, xxiv). Kant calls casuistry "the dialectics of conscience." In this sense the word might have a good meaning; but its ordinary use is to designate sophistical perversion or evasion of the moral law. Pope supplies examples of both shades of signification, as, first, in the good sense:

> "Who shall decide when doctors disagree,
> And soundest *casuists* doubt, like you and me?"

Again, in the unfavorable sense:

> "Morality by her false guardians drawn,
> Chicane in furs, and *casuistry* in lawn."

But the theory of "collision of duties," on which this so-called science of casuistry rests, is unsound. Duty is one, though there may be various ways of performing it, and with regard to these, instruction and guidance of course may be needed. What appears to be collision of duties is generally only a collision between duty and inclination. In true Christian ethics, principles of life are set forth, not rules for individual cases. There is nothing like casuistry in the moral teaching of Christ and his apostles. If the "eye be single, the whole body will be full of light;" and if the ultimate aim of man be to do the will of God, this aim, by the aid of the divine Spirit, will clear up all special perplexities as they arise. "When truth must be dealt out in drams or scruples, the health of the soul must be in a very feeble and crazy condition." Bishop Heber tells us that when Owen was dean of Christ Church, a regular office for the satisfaction of doubtful consciences was held in Oxford, to which the students at last gave the name of "Scruple shop" (Heber's *Works of Jeremy Taylor*, i, 270). "The cure for diseased consciences is not to be found in a 'scruple shop,' but in the love and care of the great Physician. The law of love, under the guidance of the Holy Spirit, is a solvent of all subordinate moral questions in the practice of life. For the application of this law our

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' 8*-*' >1?= /*0' 6,' -.,' 1-',) *' ;.*' 1' 1?62' >12 *..1-.% ,'86.'-*_; . ,*' 1-',) *?',1'9218' 1-' 2.,62>*' 2' 8)6,'>6.*.' =*262>*' 1 '6')*6+ *-' 1-'/ 5),*-'9 20' 86.',1' D*' ?=1.*0T 620' 8)6,'1 *2>*.' ?;.,' 1-',) *', ?*' *L>/;0*',) *' 1 *20*-' -1?',) *' >1? ?;2 12% ()*' -.,'. .,*?6, >' 81-9' 12' >6.; .,- ' 86.',)6,'1 '5 ' ' 1' 8)1' =;D^ / .)*0' 6' $ ' ' ' ' 8) >)' >6?*' 2,1' +*- ' 5*2*-6/ ;.*' 2',) *' N,)' >*2,;-AW /6-5*/ ' 1/C* 1 ,*2' ' 6 /' 620' 2',) *' 6,,*?=',1' 5 +*' *L6>,' 1-?;^ /18*0' D ' .;>>**0 25' >6.; .,.% 2',) *' ,)' 620' ,)' >*2,;-*.' ,) *' 2; ?D*-1 ' .;>)' D119.' 2>-*6.*0' +*- ' 5-*6,/ % ' ()*.*' $ ' 8*-*' 2' >1?? 12' .=**>)' 9218 2' D ' >*-,6 2' 6DD-*+ 6,*0' 26?*.' D1--18*0' -1?',) *' 26?*' 1 ',) *' 6;,)1-' 1-' .' D -,)=/6>*% ( ) ; ' .) *-*' f 6',) *' & 1 1' 8)>)' 0*- +*0' ,.' 26?*' -1?' ,' 6 ; C' ,) *' 1-?6/ ,*-?.' 2' 8)>)' ,) *' >12,*?=/6,*0' ,' ?6 ',)1-' .,*.62;.' 6' < 21- ,*' 1 ' .,' 2' *0?12,' M ;C A D*' 6' _;*., 12% ;',) 1;5)' ,) *' 1 '>1--;=, 25' -*?D;-5' QKX' ,) *' & 1' >1?= /*0' D ' 25*/6.' 0* ?1-6/, ' .' 12*' 1 ',) *' ?1.,' ?=-1D6D/*' >)6-5*.' 656 2.; /6+6. 1 ' 6' 4*21*.*' < 21- ,*' M ;-*?D% RKX' ,) *' =' ?*2',) *' * ' ?6 ' ?1-*' *6. / ' 1//18 ' *+*2' 8)*-*' $ '1-' ' 8) >)' 86.' 6/.1',*-?*0' ; " ' 1-' 21,' 2,*20*0% ()*.*' >6.; .,' 81;/0' 21,',-;.,',) *' 2^ ' M 6-% X' ,) *' ' M *2 >*' X' 0 + 0;6/ >12.> *2>*' 620' ,')60' .,' -*+*25*% ()*' ,) *' 5 2',) *' $!^ 2',) *' 8 ?9.',) *' .;D^ 8*-*' 0- +*2' 1286-0.' /' ,) *') 60' 21' >)1 >*' /* ,' D*^ A*>,.' 81-*' ;.;6// '6--625*0' 6/=)6D*, >6// ' 620',) *' 0*^ ,8**2' ,/9 25' 212.*2.*' 1-' 8-)6,' 86.' 81-.% ()*' >. 12.' 8*-*' 5 +*2' 2',) *' 1-?' 1 '-*.=12.*.',1' ;*., 12.' 81;/0' .*,' >12.> *2>*',1' - 5),.' 2' ? 2;,*.,' 0*,6 / ' 620' =-1=1.*0',) *' 1= 2 12.' 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' 620',) *?2' 1->*0' 0182' 5*2*-6/ =- 2> =/*.' 8)>)' ?5),' *26D/*' ,) *' 2^ ,)*?',1' .;--*20*-' ,' 656 2' 2' 0*,6 /% 20',) ;. 16,' _;.-*.' ,1' 0*,*-? 2*' 1-') ?.*/' ,) *' ?6,,*-' D ' 8)>)' /*25,) ' ;20*-' ,) *' ,-*6,?*2,' 1 '>1?= /*-.' 620' 6D- 05C) .' >12.> *2>*' 86.' 0 .,;-D*0% ()*' /6 ' 0 .> =/*' 86. *-.' 620' ;20*-' ,) *' 2 /;*2>*' 1 ',)6,' 0*6' 1 ' 6;,)1- , ' .;==1.*0',1' D*' 2' *2, -*' 0*=*20*2>*' ;=12') .' .= - ,;6/ 8)>)' 0* *--*0',1' % ' 12',) *' .6?*' ,;/*' 6.' ,' 0*^ ,*6>)*-.' 1-',) *' 5; 062>*' 1 ') .' >12.> *2>*' 1-' -6,) *-' *--*0',1' ' *L) D ,*0' 2',) *' >16-.*.,' D-*+ , ' 1-',) *' 0*,*-? 26, 12' 1 ',) *' =*262>*' 620' ?1-, >6, 12' 620' 8 ,)',) *' 6 *>,6, 12' 1 '1;,D 00 25',) *' D1/0*.',=-*>*^ D ' 8) >)') .' . 2.' 8*-*',1' D*' 1D/ ,*-6,*0% <1-*1+*-' 0*2,.. ' 75-*8' ;=',) 6,' 1-?' 1 '>6.; ,- ' 8) >)' .' *L) D^ 6' +*- ' /6-5*' =-1=1-, 12' 1 ',) *' 1 *2>*.' 8) >)' 8*-*' ,*0' 2',) *' .>1D6-.' 620' 6;2 .T 8) >) '=-1 *.. 25',1' =1 2,*0' 1;,' 2' .;>)' 81-9.' CP+*-*,-62.5-*.. 12.' = ',) *' D*',) *' 20 .=*2.6D/*' 6 0',1' >1? ?12' .*2.*' *2+*/1=.' 1D.*-+62>*.'-*_; -*0'D ',) *');->)') 60' 5 +*2') *-' 0*> . 12' 2' 6' +*- ')6- D0 .' 1 '0 .>1-062,' 1= 2 12.T 6? 0' ,' 2' 6' +*-') 6,,*-.' 1 '8) >)' >12.> *2>*' >1;/0' 21,' ,69*' 8)1.*' 5-1,*. ;*' .;==1. , 12.' 620' 8) ?. >6/ 0 .,2>^ >152 [62>*' 8 ,)1;,' 6' +*- ' >12. 0*-6D/*' 6?1;2,' 1 ' 6-^ 8*-*' =;,' ;=12' 62' *_;6/ 11, 25' 8 ,)',) *?' M &) *8*// ' % > X% , > 6/ ,-6 2 25% # ;*., 12.' 1 ' - ,*.' 620' >*-*?12 *.' 1 ' ?1-6/.% ()*');->)') 60' 5 +*2') *-' 0*> . 12' 8*-*' 0- +*2' 1286-0.' /' ,) *') 60' 21' >)1 >*' /* ,' D*^ -*.=*>, 25' D1,) T 620',) *' 2*5/*>,' 1-' + 1/6, 12' 1 ') *-' ,8**2' ,/9 25' 212.*2.*' 1-' 8-)6,' 86.' 81-.% ()*' =-*>*=,.' 620' 1') *' 2,*-=-*,6, 12.' 1 ') *-' 01>,1-.' 81;/0' .*,' >12.> *2>*',1' - 5),.' 2' ? 2;,*.,' 0*,6 / ' 620' >1;/0' 2*+*-' ,' 86.') *?0' D*' 1,) *-',) 62' . 2 ;/% ()*.' D10' 1 '>6.; .,- ' 86.' 2, ?6,*/ '>122*>,*0' 8 ,)' .1' ,) *') 60' 1' 5 +*2') *-' 0*> . 12' 8*-*' 0- +*2' 1286-0.' /' ,) *') 60' 21' >)1 >*' /* ,' D*^ ,) *' 6;,)1- , ' 620' =-6>, >*.' 1 ',) *') ->)' 1 ' 1?*' 26?*.' ? ?1-,6/ [*0' 2' 6.>6/ .' ' ' 620' *// 2,1' 0 .;.*' 6/125' 8 ,)',) *?' M &) *8*// ' % > X% M.*+*' 6/.1' *6>)' 26?*' 2' ,.' =-1=*-' =/6>*' 2',) .' >/1C ,*-',) *' * 1-?6, 12' ,) *' + >*.' 1 ' ,) *' >6.; ., >6/ =.*0 6X% **' 6/.1' < 52*' ' ' ' ' ' 9 . .,*?' 0*+*/1=*0',) *?.*/+*.' 2' ,) *') ;->)' 1 ' 1?*' ' M 6- .' Q ' K' +1/.% ,1X% ()*' D119.' 1 ' .1C ?-1*' ;// ' ,) 62' *+*-' D* 1-*% .1C>6//*0' D ' 12*' 1 ' ,) *' 1?62' 6,)1/ >');->)' 20*-',) *' , /*' ' ' ' ' ' 'MK' +1/.% M 12.' BQSS' K' +1/.% +1X% +1X' 8)>)' 6' 6D/ ' -*+ *8*0' 2',) *' " ' 5 9 N% ' ' ()*' * 1-?6, 12' 1 '>1;-.*

brought the office of such casuistry to an end. "The decision of moral questions was left to each man's own conscience; and his reponsibility as to his own moral and spiritual condition could no longer be transferred to others. For himself he must stand or fall. He might, indeed, aid himself by the best lights which the Church could supply—by the counsel of wiser and holier servants of God; and he was earnestly enjoined to seek counsel of God himself by hearty and humble prayer. But he could no longer lean the whole weight of his doubts and his sins upon his father confessor and his mother Church. He must ascertain for himself what is the true and perfect law of God. He could no longer derive hope or satisfaction from the collections of cases, in which the answer rested on the mere authority of men fallible and sinful like himself. Thus the casuistical works of the Romanists lost all weight, and almost all value, in the eyes of the Reformed churches. Indeed, they were looked upon, and justly, as among the glaring evidences of the perversions and human inventions by which the truth of God had been disfigured. But even after the sophistry and the moral perversion connected with casuistry were exploded, the form of that science was preserved, and many valuable moral principles in conformity to it delivered. The writers of the Reformed churches did not at first attempt to substitute anything in the place of the casuistical works of the Romish Church. Besides an aversion to the subject itself, which, as remarked above, they naturally felt, they were, for a considerable period after the Reformation, fully employed upon more urgent objects. If this had not been so, they could not have failed soon to perceive that, in reality, most persons do require some guidance for their consciences, and that rules and precepts, by which men may strengthen themselves against the temptations which cloud the judgment when it is brought into contact with special cases, are of great value to every body of moral and Christian men. But the circumstances of the times compelled them to give their energies mainly to controversies with the Romish and other adversaries, and to leave to each man's own thoughts the regulation of his conduct and feelings." —Whewell, *History of Moral Philosophy in England* (Lond. 1852, 1 vol. 8vo, p. xxviii sq.).

In the writings of the early reformers (e. g. Melancthon and Calvin) there may be found moral directions approaching to casuistry. But the first regular treatise on casuistry in the Protestant Church was Perkins, *The whole Treatise of Cases of Conscience, distinguished into three Books* (Lond. 1602, 1606; also in his *Works*, vol. ii, Lond. 1617; in Latin, Hanov. 1603; and in *Perkinsii Opera*, Geneva, 1624). See PERKINS. He was followed by Henr. Alstedius (Reformed), *Theologia Casuum*, in 1621 (Hanover, 4to); F. Balduinus, *Tract. de Casibus Conscientiæ* (Vitemb. 1628, 4to; Lips. 1684, 4to); Amesius (Ames, q. v.), *De Conscientia, ejus jure et Casibus* (Amst. 1630); Osiander, *Theologia Casualis* (Tübingen, 1680, 8vo). For other writers on casuistry in the Lutheran and Reformed churches, see Walch, *Bibliotheca Theologica*, vol. ii, cap. vi. In the Church of England we find bishop Hall, *Resolutions and Decisions of divers practical Cases of Conscience* (Lond. 1649, 8vo); bishop Sanderson, *Nine Cases of Conscience* (London, 1678, sm. 8vo); Jeremy Taylor, *Ductor Dubitantium, or Rule of Conscience* (*Works*, Heber's edition, vols. xii–xiv). To casuistry belongs also Baxter's *Christian Directory, a Sum of Practical Theology* (fol. 1673; and in Baxter's *Practical Works*, vols. ii–vi; transl. into German, Frankf. 1693, 4to). Dickson, professor at Edinburgh, had previously published *Therapeutica Sacra* (Latin, 1656; English, 1695), a work which Baxter lauds highly. There is still at the University of Cambridge, England, a professorship of *Moral Theology* or *Casuistical Divinity*, which was held by the late Dr. Whewell. See Whewell, *Lectures on the History of Moral Philosophy in England* (Lond. 1852, 8vo); Winer, *Theolog. Literatur*, vol. i, § xiii, d.; Herzog, *Real-Encyklopädie*, ii, 607, 787; Orme, *Life of Baxter*, vol. ii, ch. v; Hagenbach, *Theolog. Encyklopädie*, § 94; Ständlin, *Geschichte der theol. Wissenschaften*, i, 342 sq.; Schweitzer, in *Studien u. Kritiken*, 1850, p. 554; Gass, in *Illgen's Zeitschrift*, xii, 152; Bickersteth, *Christ. Student*, p. 468.

Casus Reservāti (*cases reserved*), in the Roman Church, are cases of sin such as an ordinary confessor (q. v.) cannot absolve, but only an ecclesiastic of high rank, or one specially authorized by the pope for the purpose. See *Canons of Trent*, sess. xiv, ch. vii.

Cat (*αἴλουρος*, so called, according to Phavorinus, from *moving its tail*), an animal mentioned only in Baruch vi, 22, as among those which defile the gods of the

Nubian Wild Cat (*Felis Maniculata*).

heathen with impunity (see below). They are alluded to, however, in the Targum (at Isa. xiii, 22; Hos. ix, 6) under the name *chathul'*, חְתוּל, Arabic *chaytal*. Martial (xiii, 69) makes the only mention of *catta* in classical writers. Bochart (*Hieroz.* ii, 206 sq.) thinks that by the word צִיִּים, *tsiyim'*, in Isa. xiii, 21; xxxiv, 14; Jer. l, 39, and Psa. lxxiv, 14, some species of cats are meant; but this is very doubtful (Michaelis, *Suppl.* p. 2086). See BEAST. The Greek *αἴλουρος*, as used by Aristotle, has more particular reference to the wild cat (*Felis catus*, etc.). Herodotus (ii, 66) uses *αἴλουρος* to denote the domestic animal; similarly, Cicero (*Tusc.* v, 27, 78) employs *felis*; but both Greek and Latin words are used to denote other animals, apparently some kinds of marten (*Martes*). The context of the passage in Baruch appears to point to the domesticated animal. Perhaps the people of Babylon originally procured the cat from Egypt, where it was a capital offence to kill one (Diod. Sic. i, 83).—Smith, s. v. See ANIMAL WORSHIP. The Egyptians treated it as a divinity, under the denomination of *Pasht*, the Lunar Goddess, or Diana, holding every domesticated individual sacred, embalming it after death, and often sending it for interment to Bubastis (see Jablonski, *Panth. Æg.* ii, 66). Yet we find the cat nowhere mentioned in the canonical books as a domestic animal. In Baruch it is noticed only as a tenant of pagan temples, where, no doubt, the fragments of sacrificed animals and vegetables attracted vermin, and rendered the presence of cats necessary. With regard to the neighboring nations, they all had domestic cats, derived, it is presumed, from a wild species found in Nubia, and first described by Ruppel under the name of *Felis maniculata*. Two specimens are here given from these

Ancient Egyptian domestic Cats.

paintings: one clearly a cat; the other, in the original, figured as catching birds, acting like a retriever for his master, who is fowling in a boat (Wilkinson, *Anc. Eg.* abridgm. i, 236, 237). It is not apparently a cat, but a species of *gennet* or *paradoxurus*, one of the genera before hinted at. Both are nearly allied to the celebrated *ichneumon*, the *herpestes* of authors, the modern *nems*, which is even now occasionally domesticated; it differs in manners, for the *herpestes pharaonis* does not frequent the uplands, but willingly takes the water.—Kitto, s. v. See EGYPT.

Catabaptists (*κατά*, *against*, and *βαπτιστής*), a general name sometimes used to designate all who deny the necessity of Christian baptism.

Catacombs, subterranean places of burial, generally found in regions of soft and easily excavated rock, such as granular tufa. The oldest are in Egypt; others are to be found in Syria, Malta, Persia, Greece, and South America. It is likely that most of them were originally quarries, which afterwards came to be used as places of burial for the dead or as hiding-places for the living. When the word catacombs is used alone, it applies generally to those of Rome, the soil around which city is undermined in various places, and the long labyrinths thus formed are "The Catacombs." There are catacombs at Naples resembling those at Rome; and also at Palermo and Syracuse. This article is devoted entirely to the Catacombs of Rome.

I. *The Word Catacombs.*—The derivation of the word is uncertain. Some find it in *κατά*, *down*, and *τύμβος*, *mound, tomb*; others in *κοιμάω*, *to go to sleep*; or, as Marchi (*Monum.* p. 209), Lat. *cumbo*, part of *decumbo*, I lie down; others in *κατά* and *κύμβη*, a *hollow, canoe*, as from the resemblance of a sarcophagus to a boat (Schneider, *Lex. Grec.*, s. v. *κύμβη*). The name catacombs was first applied to the underground burial-places in the sixth century; before that date they were called *crypts* (*κρύπται*, secret places); *cemeteries* (*κοιμητήρια*, sleeping-places).

II. *Origin of the Catacombs.*—It is likely that some, at least, of the catacombs were originally the sand-pits and quarries from which building materials for use in the city had been taken. As the Romans burned their dead to ashes, they did not bury underground; but it is believed that the bodies of slaves and of executed criminals were sometimes thrown into the old quarries. This view was formerly held by the chief Roman Catholic writers on the Catacombs, e. g. Bosio, Aringhi, and Boldetti; but of late, since the publication of Padre Marchi's great work on the monuments of Rome, the writers of that school object to this origin for *any* of the catacombs, and call it a Protestant calumny (e. g. Bergier, *Dict. de Théologie*, i, 374). But Protestants and Romanists are alike interested in getting at historical truth; nor would either class be likely to stigmatize the early Christians, the common religious ancestry of all believers. The Jews in Rome and elsewhere retained the custom of burying their dead instead of burning them; and they probably began using catacombs in the vicinity of Rome before the time of Christ, or immediately after. In the 16th century Bosio discovered a Jewish catacomb outside of the ancient Porta Portuensis; and in 1862 another was opened on the Via Appia, outside of the Porta Capena. Its form is like that of the Christian catacombs; but, instead of the Christian symbols, the seven-branched candlestick and other Jewish emblems are sculptured on the slabs that close the tombs. The Etruscans, centuries before, had made use of rock-tombs or catacombs, as seen at Civita Castellana, Falieri, and other Etruscan cities. There is nothing more likely or natural than that, in the first persecutions, the Christians should have buried their dead in excavations previously made by Pagans; that they should afterwards have enlarged these excavations; and, finally, that they should have made new ones as their necessities, in the lapse of time, demanded. It is certain that in the catacombs at Naples there are found tiers of tombs, some of which are clearly Pagan, and have Pagan symbols and inscriptions, while others are as clearly Christian. The argument, on the other hand, for the theory that the early Christians themselves excavated *all* the catacombs, is well stated in Martigny, *Dict. des Antiq. Chrétiennes*, p. 118 et seq. It certainly appears settled that many, if not most of the existing catacombs, were excavated by the Christians of the first three centuries. Their dates can be approximately ascertained by several criteria:

1. The style of some of the fresco paintings on the walls belongs to the third century, or even to the latter half of the second, while it is to be presumed that the crypts were excavated many years before the paintings were executed.

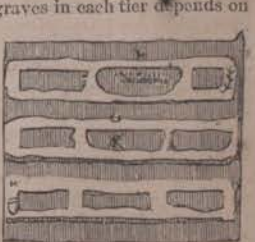
2. Some of the symbols which have been discovered belong to the earliest dates of the Christian history, and some of the coins bear the effigy of Domitian († 96), and even of earlier emperors; other inscriptions and paintings as clearly show later dates.

3. Inscriptions marked with consular dates. Among eleven thousand epitaphs in De Rossi's collection, about three hundred range from A.D. 71 up to the middle of the 4th century. For these and other reasons it is believed that the origin of the oldest Christian catacombs coincides with the dates of the earliest persecutions, e. g. that of Nero. Martigny puts in a much more doubtful argument, drawn from the burial-place of St. Peter, which, as he says, became the veritable nucleus of the Vatican catacombs. It is probable that the catacombs, such as we now know them, were all excavated before the 5th century. In that and the following century no new catacombs were dug, but the old ones were repaired; walls were built to support their roofs, and passages for light and air were opened to the surface of the ground.

III. *Early Uses.*—The Catacombs have served three distinct purposes:

1. *As places of burial.*—These underground receptacles consist of long galleries, with transverse corridors connecting them. These passages are sometimes regular for a considerable distance, but the multiplication of cross alleys and branches at last forms a labyrinth in which it is rash to venture without a guide. These galleries and corridors are of various lengths and heights, generally seven to eight feet high, and three to five wide. The roof is supported by that part of the tufa which is left between the passages, and in these walls the tombs (*loculi*) are excavated. In most cases the tomb is just large enough for a single corpse; in some tombs, however, two or more skeletons have been found. The number of graves in each tier depends on the height of the wall; there are commonly three to five; but even twelve are found in one instance. The tomb is closed up, either with a slab of marble (as in Fig. 3) or with large bricks (as in Fig. 2). Inscriptions and emblems are found sculptured or painted on many of the slabs (see Fig. 3) and in some cases a

Catacombs. Fig. 1.



Catacombs. Fig. 2.

.?6//' +6.*' M 5% KX' .;==1.*0' ,1')6+*')*/0' D/110' .' 1;20' 6,,6>)*0',1',)*' *20'1 ',)*',1?D%

3 6,6>1?D.% 5%N%

. 0.',)*' ' 2',)*' >1-- 01-.'620'=6..65*.',)*-*' 6-*' 6/.1'/6-5*-'.=6>*.'M>6//*0' 2 8')6+ 25'62'6->)' 1+*-',)*',1?D'1-'1+*-' 6'.6->71=)65;.')1//18*0'1;,'1',)*'86//% ()*-*' 6-*' 6/.1'/6-5*-'.*=;/>)-6/'>)6?D*-.'>6//*0' " 1'1'+6-1;.'.)6=*. ' _;6-*',- 625;/6-'.*?>-> ;/6-'*,>% ()*.*' 8*-*'01;D,/*.' 6?/'+6;/,.' ,)*-'86//.'6-*' ;// 1'.*=6-6,*' ! 2',)*' 6->)' 2' -12,'86.'6' 6?/'2.>-=, 12' *%5%12' 12*' 1;20' 2' ,)*' 6,6>1?D.'1' ,% 52*.' .',)*',/*' ' ' :' 8)/*',)*.*=6-6,*' ' 8 ,)2')60',)*-' 20^ + 0;6/'2.>-=, 12.%

\!' & ' ' " % ' - ' ' - " ! ')6?D*-.'6-*' 1;20'606=,*0',1',)._'=;-=1.*' .1?*' >6=6D/*' 1')1/0 25'6'.?6//6..*?D/'1'81-.)=^ =*-.'620'1,)*-.')6+ 25'-11?' 1-'D;,'6' *8')8)1'=-1D^ 6D/'8*2,',)*-*',1' >1?7*?1-6,*',)*' 0*60'D;-*0' 2' ,)*'>-A=,.% 2'.1?*' >6.*.',)*-*' .' 62' 1=*2 25' -1?' ,)*.*'>-=,.',1',)*';==*-'6-'.; >*2',1'/*,' 2'/5),'D;,' >1?7?12/',)*' '8*-*' //;? 26,*0'D'/6?=.'.;.=*20*0' D'D-12[*' >)6 2.' -1?',)*' -11% .,*-2.'620'8*//.' 6-*' .1?*,?*.' 1;20' 2',)*?' 8)>)' .*-+*0' 1-',.*' 2' D6=,.?.% ()*.;=*-.,,1;.'-*+*-*2>*' 8)>)' 2' /6,*-',?*.'86.'=6 0',1',)*'-*/>.'1'?6-,-.'86.'=*-^)6=.'18 25' 2'.1?*?*6.;-*',1',)*'/+25'620',)*' 0*60'D*25'D-1;5),' 2,1'.1'>/1.*'>12,6>,' 2',)*'*6-/'65*.'620',1',)*'2*>*..,'1',)*'.6?*=/6>*'D*25';.*0' 6,'12>*' 1-',)*'1 >*.'1'0*+1, 12'620' 1-'D;-6/J'M ;-^ ,12'6 +!'# 1'=%N X% 2'/6,*-',?*.')>);->)*.' 8*-*'D;/,'1+*-',)*'*2,-62>*.',1',)*')>)*'>6,6>1?D.' *%5% ,% *.*-.'1+*-',)1.*'1',)*' 6,>621' ,% 6;/.' 1+*-',)1.*'1' ,% ;>26?*'620' 2'8)>)'6>>1-0 25' ,1',-60,12'.)*'86.'D;-*0% N% & ' '5 ! ',' .'6?125',)*' 1?62' ,-60,12.',)6,' 1=*' ,*=)*2'/125'08*/,' 2',)*' 6,6^ >1?D.')*/0'.210.',)*-*'620'86.' 26// '9//*0' 2').*= .>1=6/*>)6-% +*2'6,*-',)*'*.,6D/.)?*2,'1',)*');-)';20*-' 12.,62,2*',)*' 6,6>1?D.'.*-+*0' 1-=/6>*.'1'-* ;5*' 1-'+6-1;.'=1=*.' 2',?*.'1',-1;D/*% D*-;,',.'.6 0'/+*0'6' *6-' 2',)*'>*?*,*-'1',% 52*.!' 620' 2',)*'D*5 22 25'1',)*' ,)'>*2,; '0;-^ 25'12*'1',)*?62'0.=;,*.'1-',)*=6=6/*>)6-'12^ 6>*>12>*6/*0') ?.*/'2'12*'1',)*>6,6>1?D.% ()*-*' ./ ,,/*' 01;D,',)6,/6-5*' 2;?D*-.'1')-.,62.',119' -* ;5*' 2',)*' 6,6>1?D.'0;-25',)*'6-/ '=*-.*>;,12.% ' -1,*.,62,'8-,*-'-*?6-9.',)6,' 2',)*'=-*=6-6,12'1' ,)*.*'+6.,'>6+*-2.'81'?6 ',-6>*',)*'=-*. 0 25'>6-*'1' -1+ 0*2>*% .' ?*-> 6' 0 .>1+*-*0' 6' *8' *6-.' D* 1-*',)*' * 1-?6, 12' ;-2 .)*0'6') 0 25C=/6>*'1'-* ^ ;5*',1',)*' -1,*.,62,.'8)1' /*0' -1?'*>>/*. 6.,>6/ 2^ ,1/*-62>* 7.1',)*' >6,6>1?D.'-*1=*2*0'.)1-,/A' D* 1-*' ,)*'D-,)'1'1;-' 1-0'.;==/*0'.)*/,*-',1',)*')-.,626' 2' 1?1'0;-25',)*' -* ;*2,'=-1.>=, 12.'1',)*'.*>^ 120'620',)-0'>*2,;-*.% &)*2',)*' 41.=*/86.'-.,' =-1=656,*0' 2',)*' ?=*-6/>,'.'60)*-*2,.'D*/125*0' >)*/',1',)*'/18*-'>/6..*.'620'1-'-*6.12.'1'8)>)' A'.'218' ?=1..D/*',1'.=*69'8,)'>*-,6 2, ' ,'.**?.' ,1')6+*'D**2'.112'+*-A'5*2*-6//'*?D-6>*0'D',)*' _;6-- ?*2'620'.620C0 55*-.% .'.'=-1D6D/*',)6,'?62' +)/*->' >120*?2*0',1'/6D1-'2',)1.*'?2*.'6.'6'=;2.)^ ?*2,'1-')6+ 25'*?D-6>*0')-.,62,A7M.*>' **.'-" ' 1' ;D/2'=%KQT' <6,/620.' " "' ' " ' 9 1'=%K% -%<6,/620'+.,*0' 1?*' 2' Q 'D;,') .' 2.=*>,12'1',)*' 6=06-62'46//*-' .**?.',1')6+* D**2'-*56-0*0'8,)'*L,-*?*'A*6/1;.'D',)*'62,)1 C' ,*.',)*-*X% ();.' ',86.'8)*2'=*-.*>;,12'-65*0'2',)*' >6=,6/1',)*')-.,62'*/,')?.*/'>1?=6-6,+*/'.6*' 2',)*'>6,6>1?D.% ()*=6-,*.'2'>)6-5*'1',)*?'8*-*').'-*20.1',)*'>1;/0'5+*')?'.*6.126D/*'2,?6,12' 1',)*'6==-16>)'1'0625*-'620'6?125',)*.*'I0*2.'620' >6+*.'1',)*'*-,)'8,)'>1;2,/*.'=/6>*.'1'25-*..'620' *5-*..',)*'1 >*-.'1'51+*-2?*2,'?;.,')6+*'6,,*?=,*0' 2'+6 2',1'1+*-,69*' 6' ;5,+*J'M />2' *& ' " "'=%N X%

% 7 ' '6 ' "' ! ' ()*'6>^ ,;6/2;?D*-'1'>6,6>1?D.')6.'2*+*-'D**2'6>>;-6,*/' 92182% -25)'1//18*0'D'1,D*-'8-,*-.'56+*',)*' 2;?D*-'6.')5)'6.'.L, 'D;,'8,)1;,'=-11% *' 1.^ .'/.,'5+*.' 1-, C,(7 '12/',8*2, C.L'1'8)>/%6-*' *L,*2.+*'8)/*' +*' 06,*' 6,.*-',)*'=*6>*'.*>;-*0' 1-',)*');->)';20*-' 12..62,2*'?1./'8,)2'6'>-/*' 1',)-**' ?/*.' -1?',)*' ?10*?'86//.',)*'?1.,'-*^ ?1,*'D* 25',)6,'1' ,% /*L620*-'6D1;,'.L'?/*.'12' ,)*' 6' 1,2*2,626% ,'86.'1-?*-/')*/0',)6,',)*' >6,6>1?D.'6-1;20' 1?*'8*-*'>122*>,*0',15*.),*-'2'6' +6.,'..,*?'D;,' *' 1.. 'D;.'.)182',)6,',)*-*' .'21' 3.;>)'>122*>, 12% ()*?1.,'-*?6-96D/*'>6,6>1?D.'6-* 0'" ' ' +'1',)*'(D*-'[+%,)*'>6,6>1?D.'1' ,.% B;/;.' 6/*2,2;.' 6. //6'4 6=;,;.' -.> //6' -5 C' 06' 52*.' : ==1/ ,;.' *,*-'620' <6->*// 2;.'*,>% 2',)*' 6' ==6'6-*',)*'*L,*2. +*'>6,6>1?D.'1' -*C' ,*L,6,;.' 6// .,;.'M21,' 6-'-1?',)*'/6,,*-'.'62' 2,*-^ *.,25'B*8 .)'>6,6>1?D'0 .>1+*-*0' 2'NQ RX' ,.% *C' -*;.'620' >) //*;.'620'1,)*-.% 2',)*' "' +' ,)*-*'6-*' *8'>6,6>1?D.'1'2,*-*.,'*L>*=*,',)1.*'1',)*' 6,>62% (-60,12' L*.';=12',).'67.',)*'.=1,8)*-*' ,% *,*-'86.'D;-*0'620'2',)*'D*/*'1',).',-0 C' ,12',)*' >);->)'1' ,% _,>-'86.'D;/,'12',)*'2*5)^ D1-25')//% ()*?10*--'>*?*,*-'1',)*' 6,>62' .' 1+*-',)0'?1-*'62>*2,'12*'>12,-6-A C,1',),'5*2*-6/ -;/*% ()*'2;?D*-'1'D10*.'0*=1.,*0'2',)*'>6,6^ >1?D.'>6221,'1'>1;-.*'D*'6>>;-6,*/'6.>*-,6 2*0% % <6->)'*.,?6,*.' ,'6,'.L'?//12.% <>)*/*'0' 1..'>6/>;/6,*.' -1 2'>6-* ;// C56,)*-*0'06,6',)6,',)*',1,6//*25,)'1'6//,)*'56//*-.*.'92182',1'*L .,'2*6-' 1?*' .'R Q '6-0.'*_;6/,'1'6D1;,'SR'?/*.'D;,' 12/'6'.?6//=6-,'1',).'+6..'-625*')6.'D***2'*L=/1-*0% % % '$!' 1-'6'.=*> >'6>>1;2,' 1',)*' 2.>-=, 12.'620'.?D1/.'1',)*' 6,6>1?D.'.**' ,)*'6-,>/*.'?. / '1 # ! ()*'>1//*>^ ,12.'1',)*' 6,>62'620',)*' 6,*-62'>12,6 2'?;/,^ ;;0*.'1',)*.*'-*?6 2.'8)>)'>62'218'D*' .,;0*0'2' *' 1.. ' % ' " ' 2 '5 'M 7S X' 620'2'1,)*-'81-9.'26?*0'6,',)*' *20'1',). '6-,>/*% 2'?1.,'1',)*' ./6D.'.'1;20',)*' 12.,62,2 62'?121^ 5-6?'1')-.,' 1-'0'7'8% ()*.>;/=,;-*.'620' =6 2,25.'6-*' *,)*-')..1->6/1-'. ?D1/>6/% ?125' ,)*' 1-?*-' -1?',)*' /0' (*.,6?*2,'6-*',)*' 6//1' 06?'620' +*' 16)' 2',)*'6-9',)*'.6>- >*'1' D-6^)6?'<1.*'.,-9 25',)*-1>9',)*-.,1-A'1%B126.' 62*/ 2',)*/12.'0*2',)*',)-**' .-6*/,*.' 2',)*' ;-26>*',)*' 6.>*2,'1' /6.I*,>% -1?',)*' *8' (*.,6?*2,',)*' 6, +, ',)*'601-6,12' 1',)*' <65',)*')625*' 1' 86,*-'2,1'8 2*',)*?;/,=/>6,12'1'/16+*.',)*)*/6/^ 25'1',)*'>-==/*.',)*'-6.25'1'6[6-;.')-.,*2,*-^ 25'B*-;.6/*?'12'62'6..' *,*-'0*2 25')-.,'D*,8**2' ,81'B*8.T',)*'6--*.,'1' *,*-' /6,*'86.)25').'620.T' 2'12*'2.,62>*'M12'6'.6->1=)65;.X',)*'.1/0*-.'>-182^ 25'1;-'1-0'2'?1>9*-'.'6?56-/620'1 'D* 25' ;D.,,;,*0'1-',)*'>-1!82'1',)1-2.% 1' 1>>;-.'6?125',)*'-*?6 2.T 21-'01*.',)*' -5 2'<6-' 1-' ,% *,*-'6==*6-'D* 1-*',)*' 1;-,)'>*2,;-A!%

'(;-2 25',1',)*'=;-*/'. ?D1/>'8*' 20'?1.,'-*^ _;*2,/'2,-10;>*0',)*' 6?D'M/6,*-'6==*6-25'8,)',)*' 2?D;.'-1;20',.')*60X'620',)*'+6-1;.'1,D*-'1-?.'2' 8)>)' 6,)'>12,*?=/6,*0',)*' *0**?*-'26?*/ ',)*' 5110'.)*=)*-07' -=)*;' >)6-? 25'8 /0'62?6/.'8,)') .' ',)*'+2*',)*' 1/+*',)*'-1>9'6'/5),'6'<1/^

. ?D1/.' -* *-- 25',1',)*' .6?*'0 + 2*'=*-.126/ , ' >1?^ =- . 25 ' D*. 0*.' ,)*' 6D1+*' 6' 9 25 ' 6' 5 62, ' 6' 5*?' 6' 56,*' 6' -10 ' 6')620 ' 6')1 ; .*' 6' 2*, ' 6' + 2* 6-0 ; , . ' 6?125' 6// 1,)*-. ',)*' . ?D1/ ?1.,' -*_ ; *2,/ ' .**2' .' ,)*').) **' & *' 20' 6/.1' ,)*' 01+*' 1-' ,)*' : 1/ ' = - , ' 1-' 1-' D*6, *0' .= - ,.' 5*2*-6// ' ,)*' ,65' 1-',)*' 0*. -* 6 ,*-' D6=, . ?' 620')*6+*2/ ' ,-; ,)' >620*/6D-6 ' 1-' //; ? 26, 12',),-1 ; 5)',) *' 41.=*/' 6 .) = ' 1-',)*') ;->) ' .1?*, ?*.' -*=-*.*2,*0' .6 / 25' 2*6-' 6' / 5),C)1 ; .*' ,1' . 52 ' ,)*') ;->)' 5 ; 0*0' D ' ,)*' .1 ;->* 1 ' 6// / 5),' 620' ,-; ,)' 6' , .)' .8 ? ? 25' 8 ,)' 6' D6.9*,' 1 ' D-*60' 12' ,.' D6>9 1-',)*' *;>D6- . ,>' .6>-6?*2,' ,)*')1-.*' 1-' *65*-2*..' 1-' .=**0' 2' *?^ D-6> 25' 0 + 2*' 01>,- 2*' ,)*/ 12 ' 1-' ?6-, -' 1-, ,;0*' 1-' + 5 /62>*' 656 2.',)*' .26-*.' 1 ' . 2' M6.' 8*// 6.' 8 ,)' ,)6,') 5)*-' 6//;. 12' 6D1+*' 21, >*0X' ,)*' =*6>1>9 ' 1-' ? ?1-,6/ ,E' ,)*' =)>*2 L ' 1-' ,)*' -*.;--*>, 12' ,)*')6-*' 1-' =*-.*>;, 12 ' 1-',)*' =*-/.',1' 8) >)',)*' 6 ,)^ ;/ ? ; ,' D*' *L=1.*0' ,)*' >1>9 ' 1-' + 5 /62>*' 7,)* 1L' D* 25',69*2' 2' 6' 2*56, +*' .*2.*' 1-' 86-2 25' 656 2.,' 6.,;,*2*..' 620' =- 0*' 6.',)*' 01+*' MD*. 0*.' ,.' 1,)*-' ?*62 25.X'-*? 20*0' 1 ',)*' . ?=/ > , ' D*>1? 25',1' D*^ / *+*-.% *-,6 2',-**.' 6/.1' 6==*6-' 2',)*' .6?*' ? .,>' 1-0*-d ,)*' > =-*..' 620',)*' = 2*' 1-' 0*6,)' ,)*' =6/?' 1-' + >,1- ' ,)*' 1/+7*' 1-',)*' -; ,' 1 '5110' 81-9. ' ,)*' % ; .,-*' 1 ' + -,; *' ?*-*E ' =; - , ' 1-' =*6>*' ,)*' + 2*' 21,' 12/ ' 1-',)*' *;>)6- .,' 620',)*' =*-.12' 1 ',)*' 1-0 ' D ; ' 6/.1' 1-',)*' ;2 12' 1 ',)*' 6 ,) ;/ 2' 620' 8 ,)') ?J M : *?62. ' 2' %!' -) ' *=,% QSS X% .',1',)*' .= - ,' 1 ',)*' 2.>-=, 12.' 620' . ?D1/.',81' ,) 25.' 6-*',1' D* 21, >*0d % ( )*-' *2, -*' 1==1. , 12',1' ,)*' 6562'.= - .% K% ( )*-' 6/?1.,' *2. -*' -**01?' -1?' ,)*' 76,*-' 1?62 .,' *--1-.% .',1',)*' -.,',)*' 2.>- =^ , 12.' 12' 6562',1?D.' 6-*' -*?6-96D/*' 1-',)*' -' =6 2 ;/ *L) D , 12' *,)*-' 1 '0*.=6 -' 1-' 1 '-*D*// 12' 656 2.',)*' + 2*' 8 //' 1-' 2.,62>*' 12*' ,69*2' -1?' ,)*' $ '($ $ ' 620' 86//' 1 ',)*' 6= 06- 62' 56//*- d ' $ '($ $ ' . $ ' I : 8 ' / ' ' ' " J' L' 9 ' 1' S"(8 " ' ' ' "1' " ' ' . 4 N $ ' ' 1 ' " ' ' Z' # ' " ' ' ' ' ' ' ' ! -" ' ' ' + '" ' '" T +'8 '" ' " ! 2',)*')- ., 62' 2.>-=, 12. ' 12' ,)*' 1,)*-')620 ' 8*' 20' *L=-*.. 12. ' 1 ')1=*' =*6>*' -*. 526, 12' D ; ,' 21,) 25' 1 ' 0*.=6 -')6-0/ ' *+*2' .1-^ -18% ` + .' 2' *1 ?1.,' 62> *2,' 2' .;>)' ;.*' ` +*' 2'/*, > ? 1 ' 6L' .= - .,' ,; 1T' ' 2'=6>*' 1? 2' 01-? . ' -*_;*2,/ ' 2,-10;>*0' D* 1-*',)*' =*- 10' 1' 12.,62, 2*.'>12+*-. 12' D ; ' /6,*-' 6// 25' 2,1'0 . ; ,.*' ' 2'=6>*' >12, 2; 25',1' D*',)*' *.,6D/ .)*0')- . , 62' 1-?;/6',)1;5)' 6/.1' 1;20' 2',)*' *= ,6=).' 1 'B*8 .' 8)/*',)*' L ,' 2'=6>*' '+*- '-6-*' 2' 1?62' 2.>-=^ , 12.' 6==*6-.' >1??12/77 6?125',)1.*' 1 ' ->6' 620' 1 ' .*+*-6/ -*2>)' > , *.' 1,)*-8 .*' ,)6,' 0 ., 2>, +*' =)-6.*' 1 ',)*' 6562'*= ,6=) ' ' L ,' M6.' '*+*2' 2',)*' -*>1-0.' 1 ',)*' 5-6+*',1' =-*.*2,' / *' -6,)*-',)62' 0*6,)' ,1',)*' ?*2,6/* *X' 01>.' 21,'=*-,6 2',1')- . , 62',*-? ^ 21/15 J' M : *?62. ' %>X% .',1',)*' 1,)*-' =1 2,',)*' -**01?' -1?' /6,*-' 1?62' 01>,- 2*.' 620' .;=*-., , 12. ' 8>',69*',)*' 1//18 25' =6.^ .65*' -1?' //*2' M W*' & ' " "' =% Q ' . X d " ' ( )*.*' 8 ,2*..*.' ,1',)*' 6 ,)' 1 ',)*' *6-/ ') ;->)' 1 ' 1?*' 6/,15*,)*-' -*=;0 6,*',)*' 81-.) =' 1 ',)*' -5 2' <6- ' 1-',)*' 2.>-=, 12.' 1 ',)*' 6= 06- 62' 46//*- ' 6// 6--625*0' ;20*-' ,)*' =6=6/' .;=*-+ . 12' >12,6 2' 21' 600-*..*.',1',)*' ?1,)*-' 1 '1;-' 1-0' M < 6 ,/620 ' =% *,+*-' 6;,!^ ( )*' =1 2,' 12/ ',1' B*. ;.' 6.',)*' 5-*6,' <*0 6,1-' *^ 0**?*-' 620' -*20% 6-,)*-' 2.,*60' 1 '.=*69 25' 1' ?6..*.' 1-',)*-*=1.*1 '.1;/.' 1-'-*=-*.*2, 25'0*=6-,*0' D*/ **+*-.' 6.'., //,1'=6..',)-1;5)'=;-56,1- ',)*' 2.>-=^ , 12.' 0*.>-D*',)*' 0*>*6.*0' 6.')6+ 25' *2,*-*0' ? ?*0^ 6,*/ ' 2,1'*,*-26/-*-.% ` /*L620*-' .6 .' 12*' 1 ',)*?' ` .' 21,' 0*60' D ; '/ +*.' D* 120' ,)*' .,6-.' 620') .' D10 ' -*.,.' 2',) .',1?D% ` : *-*+ '.6 .' 621,)*-' ' /*.' 6;/ ^ 26' 2',)*' =/6>7' 1 ',)*' D/*..*0% ` 4*?*//6 '.6 .' 6' ,) -0' ` ./**=.' ,7 =*6>*% ` .*/;. ' .6 .' 6' 1;-,) ` ./**=.' 2')- .,' M < 6 ,/620 ' ==% NN ' N X% 2' 6' ,) -0' =1 2,' + [% >*/ D6> ' 8*' 56,)*-',)*' 1//18 25 ,*., ?12 ' -1?' ,)*' ,1?D.% : ==1/ ,;.' ,*//.' ;.' > " % " ' / D% L X' ,)6,' 0;-25',)*' *= .>1=6,*' 1 'U*=) -2;6' 6// .,;.' 86.' ^.*,' 1+*-',)*' >*?*,*- % ( ) .' 86.' =-1D6D/ '>12. 0*-*0'6') 5)/ ' ?=1-,62,',-;.,' 6.' 2',)1.*' =*- /1;.', ?*. ',)*' .6 *, ' 1',)*')- ., 62.' +*- ' ?;>)' 0*=*20*0' 12',)*' =-;0*2>*' 6>, + , ' 620' >1;-65*' 1',)*' 20 + 0;6/ 8)1')60',)*' >)6-5*' 1',)*-' .;D,*--62*62'-* ;5% ( )*' 2*8';>;-6,1-' .**?.',1')6+*' . 526/ [*0') ?.*/ ' D ',)*' 6D / , ' 8 ,)' 8) >)')*' 0 .^ >)6-5*0' ,)*' 0;, *.' 1 ') .' 6==1 2,?*2,')*' =-1D6D/ ' *?D*// .)*0' 620' *2/6-5*0' .1?*' 1 ',)*.*' 0-*6- '>6+*.' 620')*2>*' 6' =1-, 12' 1 ',)*' 6,6>1?D.' 86.' 0*. 526,*0' ',)*' >*?*,*- ' 1 ' 6// .;.' ,% : ==1/ ,;.' /*0' 6.,-6 ' D ',)*' 6.>*, >' .= - ,' D*5 22 25' .1' .,-125/ ',1' =-*+6 / 2' ,)*' >1?7?*2>*?*2,' 1 ',)*' ,) -0' >*2,;- ' 86.' 1=^ =1.*0',1' 6// .*>120' ?6--65*.' .1',)6,')*' 86.' .60/ ' .>6206/ [*0' D ',)*' *L>**0 25/ ' / D*-6/ + *8.' 1 ') . 1?62' D-1,)*-' 12',)*' .;DA*>,' 1 ' ?6,- ?12 ' 620')*' 86.' .1' //C 2 1-?*0' 6.',_' =-121;2>*',)*?'21+*/% ' 2') .',?*' .6 .')*% 20/5262,/A7 ' `D .)1=. ' =-*.DA ,*-.' 620' 0*6>12. ',)1;5)',)*' ')60' D**2',81' 1-',)-**',?*.' ?6-- *0' D*562',1' D*' -*>152 .*0' 6.' 410 .' ? 2 ..*-.' 620' ' 62 ' 12*' 1 ',)*' >/*-5 ' ?6-- *0' ,' 86.' 0*,*-^ ? 2*0',)6,' .;>)' 6' =*-.12' .)1;/0' -*?6 2' 6?125',)*' >/*-5 ' 6.' 21,')6+ 25' . 22*0' > " % " ' / D% L (*-,;// 62' >1--1D1-6,*.',)*' >)6-5*' 1' : ==1/ ,;.' ' ' ' >6= X & *' >6221,',*/ ')18' ?62 ' 1 ',)*' 62> *2,' D-.)1=.' 1 ',)*' 5-*6,' > ,' 8*-*') ; .D620.% &1' 92187')18*+*-' ,)6,' /125' 6 ,*-' ,) .' =*- 10' ?6-- *0' D .)1=.' 8*-*',1' D*' 1;20' 6/?1.,'*+*- 8)*-*% 2*' 1' ,)*' ?1.,' *? 2*2,' ?6-, -.' 2',)*' 1>/*, 62' =*-.*>;, 12' 86.' 6' D .)1=' 8)1')60' 68' *' 620' >) /0-*2' M ; .*D ;. ' / D C + '>* RX% /*?*2.' 1?62;.' .=*69.' 6.' 6' ?6-- *0' ?62' >6%! ' 1-%g K X% ;',',)*' 2.>-=, 12.' 2',)*' 6,6>1?D.' .)18',)6,',)*'=- ? , +*');->)' 1' 1?*' 0 0' 21,' ?=1.*' >*/ D6> ' 12')*-' ? 2 .,*-.% ' (')*-*' .' 1-' 2.,62>*' 6' ?12; ?*2,' ' (1' 6. /; .',)*'=-*.D ,*-' 620' */ > ,6. ') .' 8 *T' 620' 12' 621,)*-',1?D.,12*' *-*>,*0' 6D1;' % K' 1-' 12/ ' 1;-' *6-.' D* 1-*',)*' 6// 1',)*' &*.,*-2' ?= -*' ,)*-*' ',)*' 1//18 25' .25;/6-'-*>1-0 ' *,->C 2 6'6'0*6>12 .' 8 *',)*', =*'1'?10*., 2',) .'=/6>* ' /6 ' ? ' D12*.' .=6-*' 1;-',*6-.' 0*6-');.D620' 620' 06;5),*-.' 620' D*/ *+*',)6,' ,' .' 1-D 00*2',1' 8**=' 1-' 12*' 8)1' / +*.' 2' 410' M < 6 ,/620 '=% R C RNT ' - 2C' 5) ' ' K RX% ' : *-* ' .6 .' 621,)*-'*=,6=)' ' ; .62^ 26',)*')6== '06;5),*-' 1',)*' /6,*'=-*.D ,*-' 46D 2; .' / *.' 2' =*6>*' 6/125' 8 ,)')*-' 6,)*-' M - 25) ' 'KKQT' 1?*' S X% 2',)*' 6= 06- 62' 46//*- '1',)*' 6, >62' ,)*-*' 6-*' 1,)*-'*= ,6=).',1',)*' .6?*'* *>,%J ( )*' 01>,- 26/ /*..12.',1' D*' 0-682' -1?' ,)*' 6,6^ >1?D.' 6-*' 6/.1' ,-*6,*0' 2' ,81' 6-, >/*.' 2' ,)*' 5 " #+ IE"' <6 ' QS T' B; 2' QS X'D ' 1//*-' 8)1' 6 ,*-' 6' >6-* ;/ .,;0 ' 1 ',)*' >12 1-?6, 12 '*,% 1 ',)*' 6,6>1?D.' 620' 1 ',)*-' ,1?D.' >)6=*/.' *,>% 1 ',)*' 2.>-=, 12.' 1 ',)*=6 2, 25.' 620' 26// ' 1 ',)*' .6-^ >1=)65 ' 8 ,)',)*-' .>;/=,;-*.' 6-- +*.' 6,',)*' 11/18 25' >12>/; . 12.d ( )*' ;.*' 1 ',)*' 6,6>1?D.' 6.' =/6>*.' 1 ' & 1-.) =' 06,*.' -1?' ,)*' NO' >*2,;- T ,)*' .;D.,,;, 12' 1 ',)*' 6/,6-' 1-',)*' >1? ? ;2 12C,6D >' 06,*.' -1?' ,)*' ,)% ( )*' = .>1=6/ " '6==*6-.' 6,'6D1;',)*' D*^ 5 22 25' 1 ',)*' S,/ '>*2,;-A % 1'.=*> >6// ' 1?62.,' 01>,- 2*' 20.' 62 ' .;==1-' 2' 2.>-=, 12.' 06, 25' D* 1-*' ,)*' ,)' >*2,;- % & >' D*5 2',1',-6>*' . 52.' 1 ' .6 2,C 8 1-.) =' 2',)*' ,$' >*2,;-A % ( )*' -.' 0W6 1 ',)*' ,-62.? .. 12' 1 '=18*-' -1?') - .',1' *,*-' 06,*.' -1?' ,)*' /6,,*-' =6-,' 1 ',)*' ,)',1',)*' D*5 22 25' 1 ',)*' S,)' 620' *+*2',)*2' *,*- .' 5;-*' 01*.' 21,' 6==*6-' 6-?*0' 8 ,)' ,)*' 9* . ' 6.' 2',)*' /6,*-' . ?D1/ .?% 26// ' -1,*.,62, .?')6.' *+*- ',) 25',1' 56 2' 620' 21,) 25',1' /1.* I' -1?',)*' ?1.,' ,)1-1;5)' .,;0 ' 1 ',)*' -*?6 2.' 56,)*-*0' 8 ,)' .1' ?;>)' >6-*' -1?',)*' 6,6>1?D.' D 7 ,)*' 6;,)1- , *.' 1 ',)1');->)' 1 ' 1?1% ' '# ' ' ! ' % '& % ' 1 ,*-',)*' S,)' >*2,;- ' 21' 600 , 12.' .**?',1')6+*' D**2' ?60*',1',)*' 6,6>1?D.% ,*-' 6' >1-- 01-' 1-' =6..65*' 86.' //*0' ,' 6==*6-.',1')6+*' D**2' D/1>9*0' ;=' 80,)' .,12*% ()1' --;=, 12' 1 ',)*' D6-D6- 62.' .**?.',1' >1 2C

16,*>) ; ?*2. 'D ; ,' L' ,)-**' *6-.' 6.' ,) *' =*- 10' 1 ' 2^ .,-;>, 12' M+ ' NKX% ** ' '↑ .' : ' 3!' 2' 4-*51- ' 1 ' ..6 .' M ' QR X E[' [' 'M*0% -6D 25*-' < 126>% QQSX'620' 2' - /' 1 'B*-; .6/* ? .' M 'NQSX') * "11 ' M 6,*>)*, C >; /0 .>1; -..*.X' 8*' 20'>6,*>)*, >6/ 2.,-;*, 1 /' 1-'D1,)' =-1.*/ ,*.' 620' 2*8/ CD6=, [*0' =*-.12.% ;5; ., 2*I' 8-1,*' 6', -6>, ' ' ' + /(' 'M1==% !' ; !' , ' + X7' C ,*-',)*') ;->)')60' D*>1?*' *.,6D/ .)*0 ' 620' ,.' 620',)*' 86.' 1D,6 2*0' D ' ,)*' D -,)' 620' D6=, . ?' 1 ' >) /0-*2' -6,)*-' ,) 62' D '>12+*-. 12.' -1?')*6,)*201? ' ,)*' 0*6' 1 '>6,*>)*, >7' 2.,-;>, 12' =6..*0' -1?' D* 25' ,) 6,'1 '6' =-*=6-6, 12' 1-'D6=, . ?',1'D* 25',) 6,'1 '6' >;/^ ,;-*' 1 'D6=, [*0'>) /0-*2%P &) *2' >12 -?6, 12' D*>2*6?*' 5*2*-6/ '>6,*>)*, >6/ 2.,-;>, 12' D*562',1'D*6-',)*' .6?*' -*/6, 12',1',',) 6,' ,')60' 1-?*-/ '012*',1'D6=, . ?% 2' ,)*' ? .. 12.',1')*6,)*2. ' 2',)*' < 00/*' 5*' ,'D*>6?*' ; . ; 6/',1'D6=, [*' >12+*-,.'6,'12>*' 620',)*' 62> *2,'>6,*C >) ; ?*26,*' */// 2,1' 0 .; .*% 1-' 86.' 5-*6,' 6,,*2, 12' 5 +*2',1',)*' >6,*>) [25' 1 ' D6=, [*0' >) /0-*2' 2',)*' : 1?62') ; ->)' ;=',1',)*', ?*' 1 ',)*' * 1-2/6, 12' ,)*' >12 *.. 126/ ,119',)*' =/6>*' 1 ',)*' 6,*>) . ?% ** ' ! ()*' 26?*.' 1 ' -;21 ' D .)1=' 1 ' & ; -[^ D ; -5' M ,)' >*2,; - X' : ; 51' 0*' ,% >,1-*' ,,1' 1 ' 6?D*-5 ' 620' B1) 2' 4*-.12 ' 6-*' ,1' D*' ?*2, 12*0' 6.' 76>, +*' 2' -*.,1- 25'>6,*>)*, >6/ 2.,-;>, 12% ()*' &6/C 0*2.*. ' & >/ ,*. ' 620' 1,)*-' -* 1-? 25' .*>,.' 56+*' 6,^ ,*2, 12',1',)*' .; DA*>,% 2',)*' & 6/0*2. 62' 6,*>) . ?' .**' U*[.>) 8 ,[') + ' ' ' ; " ' ; 'M -/625*2 ' QSNX' D + (1I!" ' "' -" ' L ' K ' NQ % MK%X' $ ' " '5 % ' .',)*' * 1-?6, 12' 86.' 6' -*+ +6/1 '-*/ 5 12' 1-',)*') ; ?62' 2,*//*>,' 6.' 8*// 6.' 1-',)*')*' >6-,' ,'26, ; -6// ' 1//18*0',)6,',)*',-6 2 25'1 ' >) /0-*2' .112' >6?*' ,1' 0*?620' 2*8' ?*,)10. ' 1-' ,)*' -*.,1-6, 12' 1 '1/0' ?*,)10. ' 1 ' 5-1; 20 25',)*?' 2',)*' 6,)% ;,)*-' 86.' ,)*' 6,)*-' 1 ' ?10*-2' >6,*>)*, >. ' D1,)' D ',)*' 6,*>) . ?.' M % +X' 8) >)')*') ?.*/ '=-*^ =6-*0 '620' D ',)*' 8-, 25.' 2' 8) >)')% *L=/6 2*0' 6,*C >D*,/>.' 620' 56+*' 62' ?=;/.*',1',)*-' =;-.;% ()*' =- 2> =6/ =1 2,.' 1 ' ;,)*-.' 6,*>) . ?.' 6-*',)*' *>6^ /15;*',)*' -**0',)*' 1-0 .' -6 *-' 620',)*' =-* 6>*' ,1' 6>-6^ ?*2,.' M KRX% ;,)*-' 8 ,)' ,-;*' 2. 5),')18*+*-' ,6;5),',)6,' >6,*>) [6, 12' .)1;/0' 21,' ?*-*/ ' 2>/;0*' ,)*')*6- 25' 1 ' 6' -*> ,6, 12' -1?',)*' D119 ' D ; ,' 6/.1' 62' *L=/626, 12' 620' 62' 6==/ >6, 12' 1 ' ,',1',)*')*6-,.' 1 ',)*' =;=/.' M.**' =-* 6>*.' ,1') ./6-5*-' 620' .?6//*-' 6,*^ >) .?.' 620' 6/.1' -;.,/* 2' " (' 6 ' ' ' N + " ! ' *,>% ' B*26 ' Q KX% 6/+ 2' 6/.1' =;D^ /.)*0' 6,*>) .?.' M NS' X' 620' 2',)*' =-* 6>*' ,1' ,)*' + ' 6 !' ? ')*' 56+*') .' + *8.' 1 ' ,)*' 26, ;-*' 620' 0*. 52' 1 ' 6,*>) .?.' 620' 1 '>6,*>)*,^ >6/ 2.,-;>, 12' 6,'/*25,)% : *' 0* 2*.' ,)*' 6,*>) .?' ,1' D*' 1-?;/6' *-;0 *20 ' =;*-1.' 2' 01>,- 26')- ., J' M ;5; .,G ' ! !' $ " '=% S C S X% (*' * 1-?*0' >) ; ->)*.' 5*2*-6// ' 1//18*0' d *% 5% ,)*' : * ^ 0*/D*-5' 6,*>) .?' M SNX' 1-',)*' 4*-?62' * 1-?*0 ' ,)*'); ->)' 1 ' 25/620' 6,*>) .?' M N KX' *,>% ()*' : */+*,*' 12 *.. 12' I ' % 8?69*.'>6,*>)[6^ , 12' 6' 0 ; , '1 =1. , +*' 1D/ 56, 12' 2',)*') ; ->)d % % =6.,1-*. ' _ ; ' A ; +*2, ; , *?' ?6, ; -*' *,' 0 / 5*2,*-' >6,*C >) .62, '=- ?6' 0*' ; 206?*2,6' A6> *2,*. ' *L=/ >6201' *>6/15; ?' ?6206,1-; ?' * ' ?D1/; ?' ,*?' =1.,1C /1-; ?' -6, 12*?' ; 1_ ;*' 1? 2>6-6' *,' 6>-6?*2,1C 1' -; ?' -6, 12*?' >; ?' 6/ .' *A; ' 5*2*-.' =- ? .' =- 2> = =' *,' -*/ 5 12 .' 21.,-**'>6= , D ; ' =-6*> =; .J' I % ' LL +X% **' 6/.1' ,)*' =-* 6>*' ,1' ,)*' : * 0*/D*-5' 6,*>) .?' M ;5; .,G ' ! !' $ "!' NK' .%X' 620' ,)*' 6-, >/*' L ' f 2' 4*-?62 '6 ,*-',)*' *-+1-'1 ',)*' * 1-?6^ , 12' =*- 10')60' =6..*0' 620' ,)*' .>)1/6., >' ,)*1/15 62.' -* 52*0',)*' >6,*>)*, >6/ 2.,-;>, 12' 0*5*2*-6,*0' 2,1' 6' ?*-*' 1-?6/-1;, 2*' 1 '=-*=6-6, 12' 1-'>12 -?6, 12' 620',)*' .6?*',) 25')6==*2*0' 2',)*') ; ->)' 1 ' 25^ /620% 20**0',) .' -*. ; /,' 6==*6-.' ,1' D*' 2*+ ,6D/*' 8)*-*' D6=, .2\ 6/ -*5*2*-6, 12' .' D*/ *+*0 ' 620' >12 -^ ?6, 12' .' ?60*',1' 1//18' 6.' 6' ?6,,*-' 1 '>1;-.*% =*C 2*-' 620',)*' *, ..' 56+*' 2*8' / *',1' >6,*>)*, >6/ 2^ G 2',)*' 1-0 .' -6 *-' 620' .)6// 0 / 5*2,/ ')*6-' 2C .,-;>, 12' D '>122*>, 25',' 8 ,)' .= - ,;6/',*6>) 25' 620' / *' M.**' : ;-..' # ' '5 ' =% R ↑' () /1' $% ' ') " ' *-/% Q X% ()*') ;->)' 1 ' 1?*' 86.' >1?=*//*0',1' 1//18',)*' * 1-?*-.' 2' >6,*>)*, >6/ 2.,-;>, 12↑',)*' + ' 5 ' M SSSX' D*>6?*' 620' D6. .' 1 '2 ; ?*-1;,' 620' /*;-A76,,6 2 25',)*' 8 0*.,' > ->;/6, 12% .'62 'D .)1=' >62' 6 ;,)1- [*' 6' 6,*>) . ?' 1-') .' 0 1>*.*',)*' 1?62 .,.')6+*' 218' 6' 5-*6,' +6- *^ , '620',)*' '6-*' ., // 2>-*6. 25' M.**' -" " " ' QSN' =% NX ()*' ,)*1- ' 1 ' >6,*>) [6, 12' 2',)*' -1,*.,62,');->)' 5-*8' ;=' 5-60 ; 6// ' -1?' ,)*' 5*-?.' 2' ;^ ,)*-.' ,*6>) 25',),)-1;5)',)*' =*- 10' 1 '0*>6 '620' 0-' .>)1/6., > .?' 620' 26// ' .)1,' ;=' 2,1' ;// D/11?' 2' *, .?% ,.'=- 2> =/*.' 6-*' % (& ',)*' 6,*>) . ?' 1 ' ,)*');->)' .,6?=*0' 8 ,)' ,.' 6;,)1-', ' .)6// D*' ;.*0' 2' 2.,-;>, 12' K' ()6,',)*' 2.,-;>, 12' .' 21,' 1>-6, >' % *% 01*.' 21,' 6 ?',1' 0768' 1 ; , 8)6,' .' 2',)*' ? 20' 1 ' ,)*' =;=/ ' D ; ,' -6,)*-',1' >12+*' -*+*6/*0',-;$ ',1',)*' ? 20' 2' 6' 86 ' 8)>)' ,' >62' 6==-*> 6,*' 620' ;20*-^ .620' TON% ()6,' 8)/*',)*' =;=/ .',1'/*6-2',)*' 81-0.' 1 ' ,)*' 6,*>) . ?' D ')*6-,',)1',*6>)*-' .',1' *L=/6 2' 620' //;.,-6,*',)*?' -1?',)*' D/*' 620',1'*2 1->*',)*?' 12' ,/*')*6-,' 620' >12.> *2>*' 1 ',)*' >6,*>) ; = *27 ' A% *% >6,*^ >) [6, 12' .' 1',1' D*' 21,' ?*-*/ ' 0 06>, >' D ; ,' =-6>, >6/% D*' 6' >12.,62,' >6,*>) .,' 620' MNX' D ',)*' =6.,1-' 8)1.*' 7>6,*>) [6, 12' .)1;/0' 21,' 12/ ' D*' 6',*.',1',)*' =-1 > *2^ > ' 1 ',)*' >) /0-*2' ;20*-')1?*' 620' ;206 C.>)11/ 2^ .,-;>, 12' D ; ' .)1;/0' 2>/;0*' *L)1-,6, 12' //;.,-6, 12' 3620' 6==/ >6, 12' 6/.1% ,' 86.' 12*' 1 ' =*2*-.' 5/1-*.' ,)6,')*' 2,-10 ; >*0' =;D/ >' >6,*>) [6, 12' 620',)*' =6.^ ,1-' 8)1' 6/.' 6,' L*0',?*.',1' >6,*>) [*',)*' >) /0-*2' 2' =-*.*2>*' 1 ',)*' >125-*56, 12' /1.*' 12*' 1 ',)*' ?1.,' ?=1-,62,' ?*62.' 1 ')- ., 62' >;/,;-*' 8 ,) 2',)*' .=)*-*' 1 '); ->)' / *% -% .)D*/ 4-**2' I ' ' " ' $" ' ' " ' +1/% X' 2') ' ' ' ,)' .' .=*69.' 1 ',)*' 60+62,65*.' 1 '>6,*>) [6, 12á ()*' >6,*>)*, >^ 6/1-' ;*., 126- ' 1-?' 1 '-*/ 5 1;,' .; ? ?6-*.' -*20*-.' ,)*?' ?1.,*6. '620' 2,*-*., 25',1')/0-*2' 620' 1;,) ' 620' 20**0',1')- ., 62.' 1 '6// gl5*.' 620' 0*.>- =, 12.% 1-' ? .*/ ' ')6+*' 20' -*/;>,62>*',1'.,6,*')*-*' =;D/ >/A(8)6,')6+*' -*_;*;,/A7?*2, 12*0' 2' =- +6,*',)6,' 2' ,)*' >1?=1. , 12' 1 '.*-?12.' 12*' 1 ',)*-*60 *.,' 620' D*.,' 6 0.' ')6+*' *+*-' 1;20')6.' D**2' ?' 6,*>) .?' *,' ?*' 600' 6-,)*-' ,)6,' /125' 1D.*-+6, 12')6.' .6, . *0' ?*' ,)6,' 6' =- 2> =6/ -*6.12' 8)' 2.,-;>, 12' 620' *L)1-,6^ , 12' -1?',)*' =;/=,' 6-*' .1' /,,/*' */ >6> 1;.' .',)6,') *' =-*.;==1.*' 6' 0*5-*** 1' 2 1-?6, 12' 1-' 62' 6>^ _;6 2,62>*' 8 ,)',)*',-;,) .' 620' 01>,- 2*.' 1 '0 + 2*' -*+^ */6, 12' 8)>)' DE' 6' 5-*6,' =6-,' 1 ',)*')*6-*-.' .' 21, =1..*.*0' 620' 8)>)' +1;/0' D*.,' 1 '6//)6+*' D**2' .;=^ =/*0' D ' >6,*>)*, >6/ 2.,-;>, 12% ,' .' *L6>,/ ',) .' 9 20' 1 ' 2.,-;>, 12' 8)>)' .' 6,' ,)*' =-*.*2,' ,' ?*' ?1.,' ;-5*2,/ ' 2**0*0' 2' ?62 ' =*-)6=.' 2' ?1.,' 1 ' 1 ; -' >12^ 5-*56, 12.% ,' .' 2**0*0' ,1' ?D ;*' * *>,;6// ' ,)*' ? 20.' 1 ' 1 ; -' =*1=/*' 80,)' ,)*' -.,' =- 2> =/*.' 1 ' ,)*' 1-6>/*.' 1 ' 410 J',1' 201>,- 26,*',)*' .1 ;20/ '620' .C .*-+ >*' 1 ' ,)*' .62>,;6- ' 8 ,)' ;// ;20*-.,620 25' 6?' 8 ,)' ? 20.' 2' 6// -*.=*>,.' =-*=6-*0' 1-' ,)*' - 5)',620' 0**=' ?=-*.. 12' 1 '8)6,',)*')*6-%J ()*0;, ' 1 '>6,*>) [6, 12' .' *2A1 2*0' 2',)*/68.' 1 ' 6/?1.,'6/D-62>)*.' 1 ',)*' 2.,-;>, 12' 0' 2',)*');->)*' 2',)1' 25/620' D ' 6212' R' ' +*-' =6-.12' + >6-' 1-';-;6,*' ;=12' *+*-' ;206 '620')1/ 06 'B * 1-*' *+*2 25'=-6,^ *-' .)6// 1-')6/ '62')1;-' 1-' ?1-*' *L6? 2*' 620' 2^ .,-;>,',)*' 1;,)' 620' 521-62,' =*-.12.' 1 ') .' =6-.)' 2' ,)*' (*2' 1? ?620?*2,. ',)1' 6-,>/*.' 1 ',)1' D*/ * ' 620' 2*-' 620',)*' *, ..' 56+*' 2*8' / *',1' >6,*>)*, >6/ 2^ G 2',)*' 1-0 .' -6 *-' 620' .)6// 0 / 5*2,/ ')*6-' 2C

)- ., 62' 2.,-;>, 12 ' = ;,' 1-,)' ;20*-' ,)*' 6; ,)1- , ' /620 ' >1,/620 ' : ;256- ' 620' ,)*' *,)*-/620.% .' 1 ',)*') ;->) % 1-' ,)*' 1-6/' 2.,-;>, 12' 1 '>) /0-*2' 620' /6,*' 6.' Q ,' 86.' 1-0*-*0',1' D*' ; .*0' 2',)*' $2 +*-. , ' =-1.*/ ,*.% 4*2*-6// ' 6,',)*' =-*.*2,' 06AI7',)*' 6,*C Za) 0?' .' 2',)*' 1-?' 1 '_;*., 12'620'62.8*-% 1 ' 6?D- 05*' 25/620% **' 1>)*-' + " !' ? "!' % -" ' ' " ! ' ()*' 26?*' .' 0*- +*0' -1?' ' ' ' ') "' $ ' '" '$ 5 "' *20% QSS%) * ' M.**' ' W3!' 2' ,.' *L ., 25'..*2.*' MK%' # 28 ' ()*' ?!.', ?=1-,62,'1 ',)*' * 1-?^ ,'=-1D6D/ '1- 5 26,*0'8 ,)' ;,)*-% 2',)*' *6-/ '65*.' *0' 6,*>) .?.' .',)6,'1 ' : * 0*/D*-5 '>1?= /*0' D !' 6.^ ,)*' >6,*>) ; ?*2.' M_% +%' 8*-*' ,6 ; 5),',)*' -**0',)*' =-6-' /*+ 62 ; .' 620' U6>)6- 6.' $-. 2 ; .' 6,',)*' -*_ ; *.,' 1-0 .' -6 *- '620'>*-,6 2'- ; 0 ?*2,.'1 '01>,- 2*' M 25^ = ',)*' /*>,1-'1 ',)*' 6/6, 26,*' -*0*- >9' '620'=; D^)6?G'MR-7% 6 ! D9' L ' >)% ' g' k% - / M ' NQSX' / .)*0' 6,' : * 0*/D*-5' 2' SK% ,*-' ,' 6==-1+6/' D ' 620' 4-*51- ' 1 ' ..6' M ' NR X' 8-1,*' 8)6,' 81 ; /0' 218' ,)*' 210' 1 ' 1-,'M_%+%X' ,'D*>6?*' 12*' 1 ',)*' . ?D1/^ 2' .; D..,62>*' D*' >6//*0' 6,*>) .?.' 6.' 0 0' ; 5 ; ., 2*' >6/' D119.' 1 ',)*' * 1-?*0') ;->)' 1 ' : 1//620' 6.' 8*// M,' N X' 2') .' L=1. , 12'1 ',)*' -**0% ** ' 4' 6.' 1 ',)*' 4*-?62' * 1-?*0') ;->)% ,' ?6 'D*' 1 ; 20' >.% ; ,' 2' ; 5 ; ., 2* .' ; .*' ,)*' 81-0' 6,*>) .?' 2' 6, 2' 2' ; 5 ; ., ' !'$ " ! QK' _ % ' 2' 25^ ?*62.',)*'6>,'1 '=-*=6-6,1- 7 2.,-;>, 12',)-1 ; 5)'8) >)' / .)' 2' ?62 '.*=6-6,*' *0 , 12.% ()*'D*.' 25/ .)'+*-^ ,)*'>6,*>) ; ?*2.' 8*2,'D* 1-*' D6=, . ?% 2',)*' < 00/*' . 12' .',)*' - 'M % ' ,1 ' QSNXT',)*'D*.',4*-^ 5*. ' *-1' 1 ' ,% 46// MQ,)' >*2,;- X' = ; D/ .)*0' ,)*' ?62'*0% .',)6,'1 ' >)6 'M) /6% QSS Q?1X% 2' + *8' -**0' 620' 1-0 .' -6 *-' 2' 47?62 ' 1-' ,)*' 2.,-;>' 1 ',D1'.=*> 6/ ?=1-,62>*' ' D .' 6,*>) .?' ,' .',-* /,*0' , 12' 1 ' >) /0-*2' 620' 521-62,' =*1=/*% & >/ D' 6/.1' 2'6'.*=6-6,*' 6-, >/*% **' % ' ! 0 0',)*' .6?*' 2' 25/ .)' 600 25',)*' *>6/15 ; *% ; ' N% " "' '6 1 = ' <7* 5 +*',)*' 1//18 25' 6>^ ;,)*-' -.,' 56+*',)*' 26?*' 6,*>) .?' 7 K X',1',)*' >1 ; 2,' -1?' -1>,*-' , ' >)6=' + T .; ?' 1 ')- ., 62'9218/*05*' ?60*' ;=' -* /*?*2,6-' -**+ 1 ; ./ ',1' SS ',)*' 6,*>) .?' 86.' 2.*-,*0' 2' 2.,-;>, 12' 2,1' 6'D119% ,' .' =1.. D/*')18*+*-',)6,' -0*-' 1 ' 12 -?6, 12% ()*' ,/*' 2',)*' -6 *-' ,)*-' ;*.' 6' D- * ' .9*,>)' 1 ',)*' -') .,1- ' .5 +*_' 6/.1' 2' D119.' 1 ' 0 8 6-0' ' 620' / [6D*,)' 86. ' ' 0*2.*.' D* 1-*' ;.,)*-.', ?*' 2' ,)*' .6?*' .*2.*% ** :" ' ' " ' ' ' J' 620' 2' -6 *-C' ' ' ' '

8) >)' 8 *-*' 601=,*0') ' ? 62 ', *6>) *-. ' 620' 1>>6. 12*0' ? ; >) ' >1 ? =/6 2, ' 6. ', 1',) *' 8 62, ' 1 ' 6' ; 2 1-?' . .,* ?' S ' -*/ 5 1 ; .' 2. ,-; >, 12' M. *' : 6-08 >9 .' # ' 'I" ' & =' ' =% Q' . %X% ' 1-* 52' 6,*>) . ? .' ,) *-*' 8 *-*' ,) *' 6 *>) . ?' 1 ' -6. ? ; I/B/ X' 1-0 *-*0', 1' D*' ; .*0' 2' & 2>) *. ,*-' 1//*5*' 620' */. * 8) *-*' ,) *' ? 6//*-' 620' 6-5 *-' 6,*>) . ? .' 1 ' 6/+ 2' M NQ' 620' S X' ,) 6, ' 1 ' M >1/6 ? =60 ; .' M X' *1' B ; 06. ' M NX' 620' ? 1-*' *.^ =*> 6// ' ; // 25*-' M RX% +*2' 2' Q' 8) *2' ,) *' *L>/ ; . +*' ; .*' 1 ' 18*// .' 6,*>) . ? .') 60' D**2' *2 1 2^ *0' 2' ,) *' >6212. ' 1 ' ',) 1. *' 1 ' 6/+ 2 ' ; // 25*-' 620' 1,) *-. ' 8 *-*' . , // 1-0 *-*0' D ' . ,6, ; . *', 1' D*' ; . *0' 2' ,) *' $ 2 + *-. , ' 1 ' L 1-0' M. **' 6-08 *//' ' !' & ! ' ' N ' 8! : *2>*' , ' 86. ' 65-**0' D ' ,) * D .) 1 =.' 2' S ',) 6, ' D*. 0*. ' ,) *' 6,*>) . ?' 1-' >) /0-*2' 8) 1' 8 *-*' ,1' D*' >12 -? *0' 621,) *-' .1 ? *8) 6, ' /125*-' .) 1 ; /0' D*' 0*+ . *0' 1-' >1 ? ? ; 2 >62, . ' 6/20' 6' ,) -0 ' 2' 6, 2 ' 1-' .>) 11/. % ' .' =-1D6D/*' ,) 6, ' 6, ' ,) . ', ? *' *62' 18*// ' 86. ' * ? =/1 *0' ; =12' . ; >) ' 6' 6,*>) . ? ' ,69 25' 1 2*. , ' 6. ') . ' 5-1 ; 208 1-9' .1' ,) 6, ' , ' 386. ' >1 ? =/*, *0' D* 1-*' ,) *' ? **, 25' 1 ' 12+1>6, 12' M 1+% ' SKX' D ' 8) >) ' , ' 86. ' 6==-1+*0' 620' 6 ? *20*0' D ; , ' 21, ' 1-? 6// ' .62>^ , 12*0' 6==6-*2, / 'D*>6 ; . *' , ' 86. ' , -*6, *0' 6. ' =6-, ' 1 ' 6' /6-5*-' 0*. 52 ' 8) >) ' 86. ' 21, ' -*6/ [*0' + [%, 1' = ; D/ .) ' 18*// .' 6,*>) . ? ',) *' -, >/*. ' 620' B* 8 *// .' =1/15EI7 2' 12*' D119' D ' >1 ? ? 12' >12. *2, ' , 1' D*' 6 ; ,) 1- [*0' 6. ' >12,6 2 25', -; *' 01>,- 2*' 620' *2A1 2*0', 1' D*' , 6 ; 5) , ' , 1' ,) *' 1 ; ,)' 2' ,) *' ; 2 +*-. , *. ' 620' 5-6 ? ? 6-C. >) 11/. ' ,) -1 ; 5) 1 ; ',) *' -*6/ ? \' ( ) *' 6,*>) . ? ',) *-* 1-*' -^ ^ ? 6 2*0' ; 2 = ; D/ .) *0' ; =, /' '8) *2' , ' 86. ' =- 2, *0' 6,) *' /*_ ; *. , ' 1 ',) *' 6->) D .) 1 =. ' 620' 6==*6-*0' 2' . *+*-6/ 1-? . ' 2' 6, 2' 620' 2A 25/ .) % ' ( ) *' ' " ' 2' 6, 2 ' 2, *20*0', 1' D*' ; . *0' 2' =/6>*. ' 1 ' / D*-6/ *0 ; ^ >6, 12' . ' -*= - 2, *0' 2' =% 6201/=) . ' 6 " ! ' -+ , ^ ' +1/% ' f ', . ', /*' . ' 8) *2' , ' 86. ' =- 2, *0' 6,) *' /*_ ; *. , ' 1 ',) *' 6->) D .) 1 =. ' 620' 6==*6-*0' 2' . *+*-6/ 2. , , ; , 1 ' 0 . > =/ 26_ ; *' = *, 6, . ') - . , 626X' /6, 2*' *LC' =/ >6, 6% ' 2',) *' . 6 ? *' *6-' , ' 86. ' , -62. /6, *0' 2, 1' 25^ / .) ' D ' 1-, 12% /. 1' 62' 6D- 05 ? *2, ' 1 ' , ' >6//*0',) *') 1-, *-' 1-' ,) *' < 00/*' 6,*>) . ? ' 86. ' =-*=6-*0' D ' 18*// 1-' ,) *' ; . *' 1 ' . >) 11/. % : *' 6/. 1' = ; D/ .) *0' 6' ,) -0 ' >6//*0' ,) *' ? 6//*-' 6,*>) . ? ' 0 *- 25' D ; , ' ./ 5) , / ' -1 ? ',) 6, ' 2',) *' 119' 1 ' 1 ? 12' -6 *-% ' , ' : =-1D6D/*' ,) 6, ' +*-6// 6D- 05*0',) *' _ ; *. , 12. ' 620' 62. 8 *-. ' 12' ,) *' 6>-6 ? *2, . ' -1 ? ',) . ' 6,*>) . ? ' M. *') ; -, 12 . ' ' 7 ' =' QN' . _ %T 6,) D ; - ' # ' ' f =% S ' . _ %X% J' -62 ? *-. ' 6,*>) . ? ' 86. ' -*^ =- 2, *0 ' 12012 ' QKR Q+1% ? 125',) *' 2 ; ? *-1 ; . ' >1 ? ? *2, 6-*. ' 12' ,) 1' 6, *C >/=. ? ' 6-*' >) 1/. 12' M =%X ' & ' 6 % ' ' " ' =' " ' ' " ' " "' ' 6 ' MKO' *0% L % Q Q+1XT K ' . ',) *' .? *' =-11 . ' 1 ' 1% K 2, 1' . 1 ? *,) 25' / 9*' 6' . ..*? ' 1 ') - . , 62' 01>, - 2*' 2' 6' >120*2. *0' 1-? % ( ) *' 6,*>) . ? ' =-1=*-' . ', 69*2' ; =' . *>, 12' D ' .*>, 12 ' 620' 6' ' .' 5 +*2 ' 2' >1 ? =-*) *2. +*' /62^ 9 5 ; 65*' 1 ') *' . ; DA*>, C ? 6, , *-' 1 ' *6>) ' .*>, 12% ( ) *2' 1 / / 18' 62' 626/ . ' 1 ' ,) 1' . *>, 12 ' 6' 2 ; ? D *-' 1 ' *L=/62C' 6, 1- ' 620' =-6>, >6/ _ ; *. , 12. ' 620' 6' . *, ' 1 ' 0* 2 , 12. % ( ) *' 1 ; , / 2*' 1 ' , 1= >. ' .' 6. ' 1 / / 18. d % & 'd g % : . ' 6, ; -*' 620' , , - D ; , *. T g K% ( ) *' *-. 12. ' 1 ' 410 ' % 9 N g ' ( ) *' & 1-/0T g K ' < 62% % H ' ' ' $ ' 'd g % 2T g K ' 4 ; /, ' -*+^ 6/*2>*' 620' 12. *_ ; *2>*. ' 1 ' 2% % 'a g % ( ) *' 1 ; -> *' 620' 4-1 ; 2Z *' 1 ' 6/+6, 12 ' + [%d ( ) 1' 1-*' 1 ' 410' 2') - . , ' 620' *0*?=, 12',) -1 ; 5) ') - . , T g K ' 120 , 12. ' 1 ' 6/+6, 12T g Q ' ( ) *' -; , . ' O 2 O' L, *2, ' 1 ' 6/+6, 12% % o ' ' ' & 'a g % ( ) *') ; ->) ' 620' < 2 . , - T g K% ( ) *' 6>-6 ? *2, . d M %X ; % :' MK%X ' -" ' $ %%Y :' g N% ( ) *' & 1-0' 1 ' 410' 620' -6 *-% % & ') 'd ; , *. ', 1' 410' 620' < 62% % < ' ' ' ($ ' 620' > L # ! / / . 'd ( ) *' *6, , ; 0*. T ( ) *' 1-0 . ' -6 ^ *-' T ( ) *' (*2' 1? ? 620 ? *2, . ' T ( ) *' =1. , /*. ' -*^ 0T 6=, . ? 6/ 1+*262, T L6 ? =/*. ' 1 ' 6 *-6' 1-' ,) 1' 1 ; 25%

-6D/' *L, *2, ' 6 ? 125' 20*=*20*2, . ' 620' 125-*56, 12C 6/ , . ' D1,) ' 2' - , 6 2' 620' ? *- >6% 2' : 1//620 ' 6/. 1 ' 6', -62. /6, 12' 1 ' , ') 6. ' D**0' ? ; >) ' ; . *0% , ' . ' +* ' 5*2*-6// ' -*56-0*07' D ' ,) 1. *' 8) 1. *' 01>,- 26/ + *8. ' 6-*' 2' 6>>1-062>*' 8 ,) ' , ' 1. 62' 60 ? -6D/*' >1 ? =*20' 1 ') - ., 62' 01>, - 2*' 620' 0 ; , ( ) *' 6 ; ,) 1-.) = ' 1 ',) *' & *. , ? 2. , *-' ..*? D/ . ' 70*>) . ? . ') 6. ' D**2',) *' . ; D^ A*>, ' 1 ' ? ; >) ' 0*D6, *' 1-' 6, ' *6. ,) *' 6 ; ,) 1-.) = ' 1 ',) 1' -. , ' 0-6 , . ' 1 ',) *? ' , ' D* 25' 60 ? ,, *0',) 6, ' ,) * ' 8 *-*' =-*=6-*0' 8 ,) ' 5-*6, ' >6-*' D ' >1 ? ? ,, **. ' 1 ',) *' ..*? ^ D/ % ; ',) *' =-1D6D / , ' 6==*6-. ', 1' D*',) 6, ',) * -' 6 ; ^ ,) 1-.) = ' .', 1' D*' 6. >- D*0' *2, -*/ ', 1',) *. *' >1 ? ? ,, **. ' 620%,) 6, ' / 9*' ,) 1' & *. , ? 2. , *-' 12 *.. 12' 1 ' 6 ,) ') * ' 6-*' ,) ; . ' ,) *' -*. ; /, ' 1 ',) *' A1 2, ' /6D1-. ' 1 ' ? 62 % -1 ? ' 0 . >1+*-. *. ' -*>*2, / ' A260*' D ' -% < ` - *' ' . ** ? . ' =-1D6D/*' ,) 6, ' 6, ' /*6. . ',) *' =/62' 1-' . >) *? *' 1 ',) *') 1-, *-' 6, *>) . ?' .' , 1' D*' 6. >- D*0' , 1' <-% 6/ ? *-J' M) 6 ? D*-. ' . % +%X% 3 ( ) *-*' 6-*' 2 ; ? *-1 ; . ' *0 , 12. ' 1 ',) *' 6, *>) . ? . ' ,) *' /6, *. , ' 6-*' ,) 1. *' 1 ',) *' ' ; ' ' 9 ' M) /60*/=) 6X% ( ) * ' , *6>) ',) *' 6/+ 2 . , >',) *^ 1/15 %) 125',) *' ? 62 ' >1 ? ? *2, 6-*. ' 12' ,) *' 6, ^ *>) . ? . ' 8*' 26 ? *' 4-**2' M .) D*/X ' ' ' " ' $" ' " ' M) /6% Q K' +1/. % Q+1XT */=65* ' 6 % ' ' " ' & (' " ' M 120% K' +>/. % ' K ? 1XT .) *-' 6 % ' " ' & (' " M 120% Q R' K ? 1XT 6, *-. 12 ' -+ ' $" ' ' " ' M 120%% Q K K ? 1XT 2>*2, ' -+ ' " ' 6 % ' M 120% Q Q' Q ? 1XT 1 0' -" ' ' $" ' " ' M % ' % Q R Q ? 1X% % -+ ' & " ' " "! ' 2',) *' & *. /*A 62' < *,) ^ 10 . ') ; ->) ' 2' 25/620 ' ,) *' 6, *>) . ? . ' 2' ; . *' 6-*' ,) -** ' 6--625*0' 2' 5-606, 12 ' 1-' = ; = /. ' 1 ' 0 *-*2, ' 65*. ' D ' ,) *' *+% >) 6-0' & 6, . 12% ( ) *' 6-*' =- 2, *0' 6. ' -" (' " ' " ! 1-' ? 62 ' *6-. ' ,) *. *' 6, *>) . ? . ' 8*-*' ; . *0' 6/. 1' 2',) *' < *,) 10 . ' , = . ^ >1=6/) A ->) ' 2',) *' $ 2 , *0' , 6, *. ' , 15*,) *-' A8 ,) ' &' $" ' $ % ' 1' =-*=6-*0' D ' ,) *' *+% B ' 0 ? 120. 12' MHX% 2' Q Q' ,) *' 4*2*-6/ 12 *-*2=*' 1-^ 0*-*0',) *' =-*=6-6, 12' 1 ' 6') ; ->) ' 6, *>) . ? ' 8) >) ' 86. ' A620*-, 69%>2' D ' ,) *' *+% -% 00*-' M,) *2' ; 2C' 06 C7) 11/ 0 , 1-X' 8) 1' 8 ,) ',) *%6 0' 1 ' 1,) *-' 0 + 2*. ' =-*=6-*0' 6' . *- *. ' 1 ' 6, *>) . ? . ' 8) >) ' 8*-*' 6==-1+*0' 620' 601=, *0' D ' ,) *' 4*2*-6/ 12 *-*2>*' 1 ' Q K% ( ) *' 6-*' =; D/ .) *0' 6. ' " ' ' " ' " 6% % ' " "' 1% ' K' N M *8' 1-9 ' <*,) 10 . ' 119' M%1? X% ( ) *' . *- *. ' 01*. ' 21, ' >12. . ', 1 ',) -*** . *=6-6, *^ >) . ? . ' D ; , ' 1 ' ' 2',) -**' . ,65*. ' 1 ' 0*+*/1=? *2, ' ,) *' /625 ; 65*' 1 ',) *' D6. . ' D* 25' ; 2>) 625*0' 2',) *' 0 (*-*2, 2 ; ? D*-. ' 1 ',) *' .>- *. % 1% ' . ',) *' 6, *>) . ? T 1% K . ',) *' .6 ? *' 8 ,) ',) *' 600 , 12' 1 ' 2 ; ? *-1 ; . ' >- =, ; -*' =-11 . ' 620' // ; . , -6, 12. ' =- 2, *0' . 0*' D ' . 0*' 8 ,) ',) *' . *+*-6/ _ ; *. , 12. ' 620' 62. 8 *-. T 1% N *L=620. ',) *' 62^ . 8 *-. ' 1 ' 1% ' 620' ,) *' =-11 . ' 1 ' 1% K 2, 1' . 1 ? *,) 25' / 9*' 6' . ..*? ' 1 ') - . , 62' 01>, - 2*' 2' 6' >120*2. *0' 1-? % ( ) *' 6,*>) . ? ' =-1=*-' . ', 69*2' ; =' . *>, 12' D ' .*>, 12 ' 620' 6' ' .' 5 +*2 ' 2' >1 ? =-*) *2. +*' /62^ 9 5 ; 65*' 1 ') *' . ; DA*>, C ? 6, , *-' 1 ' *6>) ' .*>, 12% ( ) *2' 1 / / 18' 62' 626/ . ' 1 ' ,) 1' . *>, 12 ' 6' 2 ; ? D *-' 1 ' *L=/62C' 6, 1- ' 620' =-6>, >6/ _ ; *. , 12. ' 620' 6' . *, ' 1 ' 0* 2 , 12. % ( ) *' 1 ; , / 2*' 1 ' , 1= >. ' .' 6. ' 1 / / 18. d % & 'd g % : . ' 6, ; -*' 620' , , - D ; , *. T g K% ( ) *' *-. 12. ' 1 ' 410 ' % 9 N g ' ( ) *' & 1-/0T g K ' < 62% % H ' ' ' $ ' 'd g % 2T g K ' 4 ; /, ' -*+^ 6/*2>*' 620' 12. *_ ; *2>*. ' 1 ' 2% % 'a g % ( ) *' 1 ; -> *' 620' 4-1 ; 2Z *' 1 ' 6/+6, 12 ' + [%d ( ) 1' 1-*' 1 ' 410' 2') - . , ' 620' *0*?=, 12',) -1 ; 5) ') - . , T g K ' 120 , 12. ' 1 ' 6/+6, 12T g Q ' ( ) *' -; , . ' O 2 O' L, *2, ' 1 ' 6/+6, 12% % o ' ' ' & 'a g % ( ) *') ; ->) ' 620' < 2 . , - T g K% ( ) *' 6>-6 ? *2, . d M %X ; % :' MK%X ' -" ' $ %%Y :' g N% ( ) *' & 1-0' 1 ' 410' 620' -6 *-% % & ') 'd ; , *. ', 1' 410' 620' < 62% % < ' ' ' ($ ' 620' > L # ! / / . 'd ( ) *' *6, , ; 0*. T ( ) *' 1-0 . ' -6 ^ *-' T ( ) *' (*2' 1? ? 620 ? *2, . ' T ( ) *' =1. , /*. ' -*^ 0T 6=, . ? 6/ 1+*262, T L6 ? =/*. ' 1 ' 6 *-6' 1-' ,) 1' 1 ; 25%

S -" ' " "' '5 ' 2',)*');-> ' 1 ' 1?*' ,)*' (- 0*2, 2*'C 6,*>) . ?' I + '5 8 6' D119 1 ' . ?D1/ >6/ 6;,)1- , ,' I86.' =-*=6-*0' 2' 1D*0 *2>*',1' 6' 0*>-*'* 1 ',)*' 1;2> / 1 ' (-*2,' M *..K ' 0*' *' >' X' D ' 6->)D .)1=' C*126-01' <6- 21 ' D .)1=' 77 0 ; .' 1.>6--6- ' 620' ,)*' 1-,;5;*.*' 1^ ? 2 >62' -62> .>1' ;-* -1 ' 8 ,)',)*' 6 0 ' 6./6,*-' 8- ,^ *-.' M*' 5' (-6D1.>) X' >12>/;0*' 1 ' /;[1' 6/ 2 ' 6->)^ D .)1=' 1 ' U6-6' -*+ .*0' D '>6-0 26/.' 1--1?*1 ' -/*,' 620' 2,12 62' 620' .62>, 12*0' D ' 1=*' ;.' ' ,' 86.' =;D/ .)*0' 6,' 1?*' 2' SS',)*' 6, 2' +*-. 12' D*^ 25' * ,)*-' D ' 6;/;.' < 62;, ;.' 1-' 155 62;.' ()*' 1;2> / 1 ' (-*2,')60' 1-0*-*0' M >XX,),6,',)*' 6,*^ >) .?' 8)*2' =-*=6-*0' .)1;/0' 'D*' 6 ,) ;// ',-62.^ /6,*0' 2,1' ,)*' +*?60 /6-' /625;65*.' 620' *L=1;20*0' ,1',)*' =*1=/*' D ' 6// =6.,1-.' I ,' 86.' .;D.*.;*2,/ '6==-1+*0' D ' .=*> 6/ D;//.' 620' 601=,*0' D ' +1,*.' 1 ' =-1+ 2> 6/. 210.' 2',)*'+6- 1;.' 1?62' 6,)1/ >' >1;2C ,- *.' ,'>12. .,.' 1 ' 1;-' =6-,.,)*' =1.,/*.' -**0' ,)*' 6>-6?*2,.',)*' *>6/15;*' 620',)*' 1-0 .' -6 *-% ' ,' .'12*' 1 ',)*' .,6206-0.' 1 '01>,- 2*' 2',)*');->)' 1 ' 1?*',)1;5)',)*' B*.;,.' 0*2 ',.' A7?D1/ >6/ 6;,)1-C I , ' <1)/*-' -* ;.*.',1' ,',)*' >)6-6>,*-' 1 '6' =;D/ >' >12 *.. 12 J' D;,' 60? ,.' ,)*' 5-*6,' 6;,D1- , I 8) >)' ;201;D,*0/ ' D*/125.',1' ,J' I1$ ' 2,-10;>, 12' =' 1' D9' ' >)' T' -6?=' - = +' ' % ' >)' LL X' ()*' 6,*>) .?' .' 21,' ,,*0' 1-',)*' 2.,-;>, 12' 1 ' >) /0-*2 ' D ;,' .' 6' ?62;6/ 1-' ,)*' ;.*' 1 ' =6.,1-.' ,' 86.' 21,' 1- 5 26// ' 2',)*' 1-?' 1 ' _;*., 12' 620' 62.8*-' D ;.' .1?*' 1 ',)*' /6,*-' *0 , 12.',119',)6,' .)6=*' ()*-*' .' 62' 25/ .)' ,-62./6, 12' D ' -' 121+62 ' 1 ' <0A?11,/ ' 1//*5*' M ;D/ 2 ' QK T' 6/, ?1-*' 2' O Q+1X' -6?=' -*?6-9.' 1 ',) .',-62./6, 12',)6,' ,' .;==-*..*.' 1-' 6/^ ,*-.' .;>)' =6..65*.' 6.' *L=-*.',)*' =*>;/ 6-',*2*,.' 1 ' =1=*-f' ;' ,11' 1=*2' 620' ;20 .5;.*0' 6' ?622*- J' 620' ;-2 .)*.' =-11 .' 1 ',)*' >)6-5*' >- = +' ' % 1' =' N X' *. 0*.',)*' " '5 $ ';?*-1;.' 1,)*-' 6,*>) .?.')6+*' 6==*6-*0' 8 ,) 2',/ *');->)' 1 ' 1?*' -1?',?*',1',?*' ()*' ?1.,' ?=1-,62,'6-*',)1.*' 1 ' 62 .;.' M_' +X',)*' B*.;' M ' 620' SSX' 8) >)')6+*' D' *2' /6-5*/ ' ;.*0' -1?',)6,',?*',1',) .' *.=1C' > 6//E7 2' 4*-?62 T' 620',)6,' 1 ' *//6-? 21' M S NX' 620' 1 ' 1..;*,' M SQ X' 2' -*>*2,' 1?*?' 6,)1/ >' 6,*^ >) .?.' 6.' >1?=6-*0' 8 ,)' 62 .;.' .**' -" + ' - * " ' QSN' ' =' N%

' -" ' ? +' " "!' ' 6/?*-' M 2' :*-[15' 5 = 6 D %' 6' +' 6,**D .?;.X' -*?6-9.',)6,',)*' 12/ ');->)' 8 ,)1;,'62' 6;,)1-[*0' 6,*>) .?' .',)*' 4-**9');->)' ;' 6' 6,*>) .?' =-*=6-*0' DA' <15 /6.' ?*^ ,-1=1/ ,62' 1 ' *8' M S KX' 86.' -*>152 .*0' 6' .210' 1 'B*-;.6/*?' M S KX' 6.' 6' .,6206-0 Q' $! ' ' ()*' ' 6,*>) .?' 86.' 0-68 2' ;=' D ' >D1 2622' ' 1-',)*' 1/ .)');->)*.T' ,' ' ?60*' ;=' >) * / ' 1 ' +*-.*.' 1 ' >-=,;-*' K' ()*' 6,*^ >) .?' 1 ' @ ' $ ' 86.' =;D/ .)*0' 6,' 6>1+ 6 ' S Q' 2' 62' ;2 2 .)*0' 1-?T' 18 25',1',)*' 0*6,)' 1 ' 1^ > 2;.' ;20*-',)*', ,/*' " !=5 !' ' " 7*,>' N f) *' 5- ' " $' /6-5*-' 620' .?6//*-' >1?=1.*0' D ' <1.>1-1+ ;.' 6' 1/ .)' 21D/*?62 C 620' >)?6/[' 6' 1> 2 62' ? 2 .,*-' M 6, 2' 6>1+ 6 ' S R' K?1T 2*8' *0' D ' -*/$;.' SN ' ,1T 620' 621,)*-' 8 ,)' -* ;,6, 12' D ' M 0*-' -629 1-,' 620' * =.' N ' Q+1' T 25/ .)',-62./6, 12' DAJ **.' *20' Q Q' 8 ,)' =-* 6>*',-*6, 25' 1 ',)*' / ,*-6- ') .,1- ' 1 ',)*' 6,*^ >) .?X' ()*-*' /76+*' D**2' ?62 ' 6,*>) .?.' =-*=6-*0' D ' 2^ 0 + 0;6/.' 620' ;.*0' 2' +6- 1;.' >1;2,- *.' 620' >);->).*.' D;,' 6.' 212*' 1 ',)*?')6+*' D**2' >/1,)*0' 8 ,)' .7? D1$C >6/ 6;,)1- , ' 8*' 01' 21,' 6,,*?=',1' 5 +*' 6'/ .,' 1 ',)*?' ' ? ,) .' : 65*2D6>)' # ' '' 'g KKST' ?,)' *00' # ' ' ' ' C RQT' ? ,) .' 4 *.*/*-.' "' # ' +1/' +' g N T' ;5;.,' % ' !' $! 5 !' M $D*- ' QK ' Q+1X' T & 2*-' -" !' ' g 3 LL+ T' & 6/>)' ; " $' +' -" ' +1/' >)' +T' : *-[15' 5 26 + % $' + ' ._' T . + ' '" 1 ' -" ' QS ' =' N

6,*>) .,' ' *' " ' 2',)*' *>>/*. 6.,>6/ .*2.*' 12*' 8)1',*6>)*.' -*/ 5 12',1' >) /0-*2' 1-' 2*1^ =) ,*.' >6,*>)*,>6// ' 1-',)*' 0*- +6, 12' .**' 4' : (>.' ' M AX' ,I' -.',' 86.,)*' 1 >*' 1',)*' D .)1=',1' =-*=6-*',)*'>6,*>);?*2.C 1-'D6=,.?'6.'8*// 6.',1'60?,',)*?' 2,1',)*' =);->)' D ',)6,'.6>-6?*2,' ;,' 2' >1;-.*' 1',?*' ,' D**6?*' ?=1.. D/*' 1-',)*' D .)1=.',1'0*+1,*',)*'-*_;.,*'6,,*2, 12',1',) .'=6-,'1' ,)*' -' 81-9' 620' >12.*_;*2,/ ',)*' ',-62. *--*0' ,',1' .)*// =-*.D ,*-.' 620' 0*6>12.' 6.',)*' 0**?*0' >1?=*^ ,*2,',1',)*' ;20*-,69 25' ()*' 8*-*'>6//*0' +2 ' 620',)*' -' *?=/1 ?*2,' 86.' >12. 0*-*0' =*>;/6-/ ')12^ 1-6D/*' 6.'-*_;-25',)*'=1..*.. 12' 620' ;.*' 1 '*? 2*2,' ,6/*2,.' 620' _;6/ >6, 12.' ,)*-*' 2*+*-' 86.' 6' .*=6-6,*' 1 >*' 1-' 1-0*-' 1 ' >6,*>) .,.' 2',)*') ;->)' ,)*' 81-9' 86.' 12/ ' 6' ;2>, 12' 6.. 52*0E' 6.' 2**0' 6-1.*' ,1'=*-.12.' >6=6D/*' 1 ' - /1 'B*-;.6/*?' 620')- ^ .1.,1>?' >#' K ' 60' =1=;/' 2, 1>)X' 8*-*' 1-5 26// ' >6,*>) .,.' ()*' 8*-*' 7?*, ?*.' >6//*0' D ' 6' 5;-6^ ,+*' 26?*' O ',)6,' .' .)1.*' 8)1.*' 1 >*' ' 86.',1'60?,'=6..*25*-.',1',)*' .) ='620' >12,-6>,' 8 ,)' ,)*?' 1-',)*' 6-*' ()*');->)' D ' 6' 8*//C9218' 5^ ;-*' 86.' >1?=6-*0',1' 6' .) =T',)*' D .)1=' 86.' 1' (-=8C =;5' " '% :',)*' 0*6>12.' ' % 1'" " ' (:',)*' >6,*C >D .,.' ' - O ',86.'=-1=*-/ ',)*' >6,*>) .,.7 0;,',1' .)18',)*' >6,*>);?*2.',)*' >12,-6>',)* ' 8*-*' ,1' ?69*' 620',)*' >120 , 12.',)*' 8*-*',1'=*- 1-?' 2 1-0*-' ,1',)*' -' 60? ,,62>*' 2,1',)*')- ., 62' .) =*( )*' 0*6>12*..*.' 8*-*' 6/.1' >6,*>) .,.' ,1',)*' ?1-*' 5^ 21-62,' 620' -;., >' 81?*2C>6,*>);?*2.' 8) >)' =-1+*.' ,)6,' >6,*>) .,.' 8*-*' 21,' 2*>*..6-/ ' 1 ',)*' >/*- >6/ 1-^ 0*-' - 5*2' 8)*2' 12/ ' *5),**2' *6-.' 1 ' 65*' 620' >12.*_;*2,/ ' 8)*2' 2>6=6D/*' 1 ' D* 25' 1-0 k 2*0' 6' 0*6H >12' 86.' 6==1 2,*0' 6' >6,*>) .,' M ;.*D ;.' # !' 6 " !' + ' NX' MK X' 2',)*' ?10*-,' >);->)*.' ? 2 .,*-.' 6-*' 5*2*-6// ' -*_;-*0' " ');->)' /68',1' D*' >6,*>) .,.' M *' 1-',)*' 2.,-;>, 12' 1 ' >) /0-*2X' T 620' .2>*',)*' 5-18,)' 1 ',)*' ;206 C.>)11/ M_' +X',)*' ;206 7C.>)11/ ,*6>)*.-' 6-*' 1-' 1;5),',1' D*' 6// >6,*>) .,.' 6--6-' 6 !' ! ' T 25)6?',' 6 !' D9' ' >)' LT' 1/*?62' " '& 4!' >)' +' g QT' -6;.*' ' UD " '% ' ' M =.' XT' *5*/' & " ' =' N % 6,*>);?*;.' 2',)*' 62> *2,');->)' >620 06,*.' 1-' D6=,.?' 8)1' 8*-*' =/6>*0' ;20*-' 6' >1;-.*' 1 ' -*^ / 5 1;.' 2.,-;>, 12' 2' 1-0*-',1',)*' -' 60? .. 12' 2,1',)*');->)' 1-' ,)*' 0*- +6, 12' .**' 6 ' ' ()*' 6-*' >/6..*0' D C62> *2,' 8-,.*-.' 6.' ?*?D*-.' 1 ',)*');->)' D ;',)*' /18*.,' 1-0*-' 1 ' ?*?D*-.' M *5' - 5*2' ;.*D ;.' B*-1?*T > ,*0' D ' 25)6?' D9' ' >)' X' 7 ' ' *.0*.' ,)*' 26?*' >6,*>);?*2.',)*' 8*-*' >6//*0' >620 06,*.' > (8' D*>6;.*',)*' 8*-*' 6>^ >;.,1?*0',1' 6==*6-' 0-*..*0' 2' " '12',)*' -' 60? .. 12' 1 ',1',)*');->)' ( )*' 8*-*' 6/.1' >6//*0' ' 8*-*' 01*.' 21,' 6==*6-',1')6+*' D**2' 62' .=*> >' 65*' L*0' 6,' 8) >)' B*8 .)' 620')*6,)*2' >12+*-,.' 8*-*' >12. 0*-*0' 6.' >6,*C 0 >);?*2.' ()*' 5-*6,*-' =6-,' 8*-*' 1' 60;/,' 65*T' *+*2' 12..62, 2*',' 4-*6*,' 86.' 2',)' >/6..' ;',' ,' 86.' *..*2, 6/,)6,',)*EC' .)1;/0' 21,')6+*' D**2' D6=, [*0' N' ' ' " ' " % ' ()*',?*' .:=*2,' 2' =-*=6-6, 12' +6- *0' 6>>1-0 25',1',)*' ;.65*.' 1 '+6- 1;.' >);->)*.' 620' =-6 *-' 8 ,)',)*' .52' 1',)*' >-1..' ()1' >) /0-*2' 1 ' D*/ *+*-.' 8*-*' 60? ,,*0' 6.' .112' 6.',)>' 8*-*' 1 '65*',1' -*>* +*' 2.,-;>, 12' D;,',)

-*2>)' D .)1=' 8)1' >12+*-,*0' ,)*?' ,119' 12/ ' .*+*'2' 06 .',1' >6,*>) .*',)*?' 620',)*2' D6=, [*0',)*?% ;,' 2'>6.*' 1 '. >92*..' 1-' ? ? 2*2,'0*6,)',)*' >6,*>); ?*2.' 8*-*' ? ?*0 6,*/ 'D6=, [*0' 8 ,)' 8)6,' 86.'>6//*0' >/ 2^ >' D6=, . ?% - / 1 'B*-; .6/*?' 620'B*-1?*' 0 -*>,',)*' >6,*>); ?*2.',1' 1D.*-+*' 6' .*6.12' 1 ' 6., 25' 620' =-6 *-' 1-,' M/6 .%

% ' ' - % ' ()* ' 8*-*' *6-/ ' 0 + 0*0' 2,1' .*=6-6,*' >/6..*.' ,)*' 2 ; ?D*-' 620' 26?*.' 1 ' 8) >)' &*-*' .1?*8)6,' 0 *-*2,% ()*' 4-**9' >6212 .,. ' 1/^ /18*0' D ' *+*- 05*' 6+*' 620'1,)*-. I6?125',)*' ?10^ *-2.' .=*69' 1 ',)*' O % ' " ' 1' 620',)*' (cfnM -c=1M' " ' ' ! ; 06.' 0 .,25; .)*.' ,)*?' 6.')1 * ' .;>)' 6.' 8*-*' 1>>;= *0' 2' /*6-2^ 25 '620' 1' .;>)' 6.' 6-*' *2565*0' 2' 0*+1, 126/ =;-.; ,.% 25)6?' .=*> *.' 1;-' >/6..*.'å -.,',)*' 1I g ' 1-',)1.*' 8)M' 8*-*' 2.,-;>,*0' =- +6,*/ ' ' 8 ,)1;',)*');->)' 620' 9*=,' 6,' 6' 0 .,62>*' -1?',)*' =- + /*5*' 1 '*2,*- 25' 2,1',)*');->)' 1-' .1?*' , ?*' ,1' ' ?69*' ,)*?',)*' ?1-*' *65*-' 620' 0*. -1; ' 1 ' ,% ()*' 2*L,'0*5-*'*' 6D1+*',)*.*' 8*-*',)*')% * ' ' >-' D*6-*-.% ()* ' C8*-*' .1' >6//*0' -1?' D* 25'60? ,,*M ' ,1')*6-' .*-?12.' 620',)*' >- =;,;-*.' -*60' 2',)*');->)' D ;,' 8*-*' 21,' 6//18*0',1' =6-,69*' 1 ',)*' =-6 *-.% ()*' ,) -0' .1-,' 1 ' >6,*>); ?*2.' 8*-*' ,)*')O - 1 " ! 1-' 92**/*-.' .1' >6//*0' D*>6;.*' ,)* ' -'>C' M% >' ?=1. , 12' 1 ')620.' 92**/ 25' ;=12',)* -' 92**.% ()*' 1;-,)' 1-0*-' 86.' ,)*' V 6(-- 71VL BV1, ' 1I*D- ' ,)*' % ' 620' h1' 8)>)' 0*21,*',)*' ?*?*0 6,*' >620 06,*.' 1 'D6=, . ?' 1-' .;>)' 6.' 8*-*' 6==1 2,*0',1' D* D6=, [*0',)*' 2*L,' 6==-16>) 25' *., +6/' D> 1-M' 8)>)' D,- >>' *L6? 26, 12' 86.' ?60*' 2,1',)*' -' =-1 > *2> ' ;2^ 0*-',)*' .*+*-6/ .,65*.' 1 '>6,*>)*, >6/ *L*-> .*.% ()*' 65*' .*L '620' > ->; ? .,62>*.' 1 ',)*' >6,*>); ?*2.' 8*-*' 0;/ 'D.*-+*0' ?*2' 1 '651' 620' -629' 21,'D*' 25'>/6..*0' +V ,)' >) /0-*2' I1& 4 $' D9% L ' >B% ' g KX% % ' ' &' ' " ' " "% ' ()*' *L^ *-> .*.' 1 ',)*' =6-, *.', //',)*' -';2 12' 8 ,)' ',)*' D*/ *+^ *-.J' 8*-*' 5*2*-6// ' 0 -*>,*0' 8 ,)' -* *-*2>*' ,1' ,)*' -' =-*=6-6, 12' 1-' D6=, . ?% ()*' C8*-*' -*_; -*0' ,1' 6,^ ,*20',1' +6- 1;.' 01>,- 26/ 620' >6,*>)*, >6/ 2.,-;>, 12-' ,1' -*60 25',)*' >- =,;-*.' *,>% 2*' 1 ')- .1.,; ? .')1? / *.' M60' K' 1-% KX' .' 62' *L=1. , 12' 1',)*' =-6 ^ *-' 1 ',)*');->)' 1-',)*' >6,*>); ?*2.' M.*>' >620>-' ' ' " ',-% D ' ,6=/*,12' ==*20 L' ,1' +1/% X% ()6,' =6-,' 1 ' 0 + 2*' .*-+ >*' 8)>)' =-*>*0*0' ,)*' >1? ?12' =-677*-' 1 ',)*' >1? ?;2 >62,.' 6,',)*' 6/,6-',)6,' .',)*' =.6/?10 ',)*' -*60 25' 1 ',)*' >- =,;-*. ',)*' .*-^ ?12' *,>% 86.' >6//*0' ' " 1' D*>6;.*' ,)*' >6,*>); ?*2.')60',)*' / D*-, ' 1 'D* 25' =-*.*2,' 12/ ' 6,' ,) .' =6-,' 1 ',)*' .*-+ >*% ()*' 60+62>*0' >/6..*.' D*^ 1-*' D6=, . ?' 8*-*' .;DA*>,*0',1' -*=*6,*0' *L6? 26, 12. ' 620' 2' /6,*-', ?*., ' 1' 6' 9 20' 1 '*L1-> . ?' 6>>1?=62 *0' D ',)*' ?=1. , 12' 1 'D620.' ,)*' -*>* +*0',)*' . 52' 1 ' ,)*' >-.' 620' 2.; /6, 12' 1-' ,)*' D-*6,) 25' 1 ',)*' =- *.;' ;=12',)*?% ()*EI7 6/.1' =6..*0' ?62 ' 06 .' 2' 6., 25' 620' =-6 *-' 620' 2' /*6-2 25',)*' =1./*.' -**0' 670',/ *' 1-0 .' -6 *-% 1?*' 06 .' D* 1-*' D6=, . ?' ,)*' 8*-*' -*_; -*0',1' 8*6-' 6' +* /% ()*-' ?10*' 1 '60^ ? .. 12' 86.' . ?=/*% ()*' D .)1=' *L6? 2*0',)*' >620 ^ 06,*' 620' ')*' 86.' 1;20' 81-,) ' *2-1//*0' .' 26?*' 2' ,)*' -*>1-0.' 1 ',)*');->)% ()*' .1/*?2, ' +V6.' >12^ >/;0*0' D ' =-6 *-' D ',)*' ?=1. , 12' 1 ')620.' 620' D ' ,)*' . 52 25' 1 ',)*' >-1..% 1' .;>)' 6--625*?*2,' 6.' ,)*' >6,*>); ?*26,1' .' 2^ 0 >6,*0' 2' ,)*' *8' (*.,6?*2,å 8)*2' 62' 20 + 0;6/ =-1 *..*0' 6 ,)' 2' ,)*' 1-0' B*.;.')-.,')*' 86.' ?? *^ 0 6,*/ '60? ,,*0',1' ,)*' 2 , 6,1- '-,*' 1 ')- ., 62 , % //*>12+*-,.',)*2')18*+*-',)*' ?5),'0 *-' 2',)*-' 9218/*05*' 1-'6,,6 2?*2,.' 8*-*' *_;6// '*2, ,/*0',1',)*' 1;,86-0'. 52'6.',)*A' 8*-*',1',)*' 286-0'620' .= -.,;6/ 5-6>*% ;' 8)*2',)*');->)*' 86.' 6)-?*2,*0' D ',)*' 6>>*.. 12',1')*-' =6/=' 1 '/6-5*' 2;?D*-.' -1?')*6,)*2^ .?' 6201 8)*2')*-' =;-,E' 86.' 21' /125*-' 5;6-0*0' D ',)*' =-*. 0 25' >6-*' 1 ',)1.*' 6=1.,/*.' 620' 1,)*-.' 8)1' =1..*.*0')*' =18*-' 1 '0 .>-?2 251' .= - ,.' ',)*' >;.,1?' 1 '0* *-- 25',)*' 60? .. 12' 1 '?*?D*-.' 86.' 601=,*07' 2 1-0*-',1' 1D,6 2' .6, . 6>,1-A7*+ 0*2>*' 1 ',)*-' ,2*..',1' D1' *2-1//*0' 2',)*' -629' 1 ',)*' 0 .> =/*.% ()*' *L=*-.^ *2>*' 1 ',)*' =- ? , +*')- ., 62.')60',6;5),',)*?',)6,' ,)*' 5-1..')6D .' 1 ' 01/6,*-.' 8*-*' 21,' 6,' 12>*' -*/ 2C' _; .)*0C 1-',)*' =;-*' 620' .= - ,;6/ =- 2> =/*.' 1 ',)*' 41.^ =*/'620',)6,'?;/, ;0*.'1 '=-1 *..*0'D*/ **+-.')*/0',)*-' 6 ,)' D ' .1'./*20*-'6', *',)6,',)*' ./ 5),*.',*?=,6, 12' =/;25*0',)*?'656 2' 2,1',)*' -' 1-?*-'.*2.;6/ , % ()*' =-1,-6>,*0' 2_; - ' 2,1',)*' >)6-6>,*-'620'+ *8.' 1 '>62^ 0 06,*.' 1-' 60? .. 12' 2,1' ,)*');->)' 86.',)*-* 1-*' 0*. 52*0' '=1.. D/*',1'=-*+*2,',)*' 1>>;--*2>*' 1 '*=*.C' ,6 .*.' 8)>)')60'0 .,;-D*0',)*' =*6>*' 620'=-1.=*-. ,' 1 ' ,)*');->)' 620' ?6 'D*'-6>*0',1' 6' /6;06D/*' 0*. -*' 1 ' 2.,-;>, 25' 1;25'620',2 2 , 6,*0'>12+*-,.' 2',)*' =- 2^ > =/*.' 1 ',)*')- ., 62' 6 ,)% I 2' ?10*?')- ., 62' ;.65*',)*' 81-0.' " ' O " ' 6-*' 21,' 1 ?0' 2',)*' D119.' 1 ');->)' /68 ' *L>*=,' 8 ,)'),.,1- >6/' -* *-*2>*' ,1',)*' 62> *2,');->)' ;,',)*' ,*-?.')6+*' 6/86 .' *L .,*0' 620',)*',*-?.',)*?.*/+*.'6==*6-' / 9*/ 'M620'+*- '=-1=*-/ X',1' >1?*' 2,1' ;.*' 656 2',1' 0*. 526,*',)*' >) /0-*2' 1',)*');->)' 620',)* -' =*- 10' 1' 2.,-;>, 12' =-*=6-6,1- ',1' >12 -?6, 12' 2',)*' >);->)*.' 8)>)' ;.*',)6,'-,*' 620'=-*=6-6,1- ',1' >1?^ ? ;2 12' 2' ;//*?*D*-.) =' 2',)1.*' >);->)*.' 8)>)' 01' 21,% 2',)*' <*,)10 .,');->)' 2' 25/620',)*' ,*-?') 6.'D**2' -*+ +*0' *.=*> 6// ' 2',)*' * 1-,' 1 ',)*' *+% B6>9.12',1' *.,6D/ .)'6' L*0' ?*,)10' 620'>1;-.*' 1' 2.,-;>, 12' 1-' 1;25' =*-.12.' D*,8**2' >) /0)110' 620' =;D*-, 'M.*>',)*' +1/;?*.' 1 ',)*' " ('5 =' % ' 12012X% ()*' 8)1/*' ;D% *>,' .' 6/.1'>6-* ;// ' 0 .>;..*0' D 'U*[.>)8 ,[' $ ' !' " 2!= "!') =' " D'M * =.% Q K' ' R' ._%X% **',)*' >1= 1;.',-*6,?*2,'1',)*' 62> *2,'>6,>>)-2/*C' 26,*' D ' 25)6?', ' '6 ' >)' L ?620' 1/*^ ?62'& ' " '/%7 .*>%+' g % *>' 6/.1' 1 1 1&2 " ' 'NS ' ._%? 622*-' 8 ' " =' !'& 4 '6 'M -629 ;-,' >,' 41,)6' SQQ' ,1XT' 6--6-'6 + !' ' .%+%? :>9*-" ' 1' 9 .%-%? >620*-' " "'# ' 'N ? 620',)*' 6-, >/*' . ' / . ! 6,*26' I " 8' 2' D/ >6/ >-, > .?' .' 62' *L^ =1. , 12' 1 '6' =1-, 12' 1',)*' >- =,;-*.' 1-?*0' 1 '>1/^ /*>, 12.' -1?' +6- 1;.' 6;,)1-.% (),:.' 81')6+*' S 1',)*' 4-**9' 6,)*-.' / ' -1>1= ;.'D ' / ?=101?.' 620' D ' >*=)1-;.' 12' .*+*-6/ D119.' 1',)*' /0' (*.,6^ ?*2,% 11/*.' $ % ' ?6 'D1'-*56-0*0' 6.' 6' 1 '?10*-2' 2,*-=-*,6, 12.' 1',)*' D/*% ()*' 62> *2,' *6,*2e' .**?',1')6+*' 1- 5 26,*0' 2',)*' .)1-,'.>)1/ 6' >-'5/1..*.' 8)>)' ,' 86.' >;.,1?6- ' 2' ?62;.>- =,.' 1' ,)*' >-=,;-*.',1' 2,-10;>*' 2',)*' ?6-5 2% ()*.*' D' 0*5-**.' 8*-*' *L=620*0' 620' =6..65*.' -1?',)*')1? ^ / *.' 1-' .*-?12.' 1',)1' 6,)*-.' 8*-*' 600*0% ()*' ?1.,' >*/*D-6,*0' >6,*26' .',)*' '1' ()1?6.' _; ^ 26.' 8)>)' 86.',-62./6,*0' 6,' L 1-0' ;20*-',)*-.;=*-^ 2,*20*2>*' 1' <-% B% *8?62% ()*' .;D.*_;*2,' >120;>,'1' <-% *8?62')6.'/*0',)1.*' 8)1' 8*-*' 8 //^ 25',1' 6,,6>)' .1?*' 6;.)1-.',1',)6,' 81-9',1' 7 L6? 2>' ,'>6-* ;// ' 620',)*-*.:/,')6.'D**2',)*0*,*>,12',)6, ()1?6._; 26.')6.' .1?*, ?*.' ?10 *0',)*' _;1,6^ .12.')1')6.' ?60*' -1?',)*' 6,)*-.' 7 620',)1' 8)1/*' 6.' 6'>1?*2,6-A7.' 2 *- 1-',1',)*' >1? ?*2,6- *.' 1 ' ?10^ *-2',)*1/15 62.' M 6--6-' 6 !' ' !' .% + %' : 119' "!' ' .% + %X% ()*' 6==/ >6, 12' 1 ',)' .' 26?*',1' 8 1-9.' 1 ',) .' .1-.')6.'D**2'6,,- D;.*0',1' ()1?6.' _; 26.' 2' >12.*_;*2>*' 1 ',)*' 6D1+*' >1//*>, 12' 12',)*' 1;-' 41.=*/.'1 D;.',)6,' ,' 1 '/6,*-' 2+*2, 12' 1=*' $-D62' '>6//.') ?.*/' 2').' 0*0 ^ >6, 12',1' 1=*' $-D62' '>6//.') 81-9' ' % =' ! ()*' *6-/ '26?*.' 1-',)*.*' 6?125',)*' 4-**9.' &*-*' % ' %*8N#$8 ' ' 14 * ' 1 =' E ' %+% ' %% * ' *,>%' 8)>)' 6-*' ?1-*' I A;.,/ ' 0*.>-=,+*' 1',)*' -' >12,*2,.')62',)*' /6,*-2 26?*.' % ')F *8 E ' 620' A*,=6 ' ()*.*' >672 e' 6-*

1 '0 *-*2,' 9 20. ' 1?*, ?*.' ,)*' 81-0.' 1 ',)*' 6^ ,)*-.' -1?' 8)1?',)* ' 8*-*' >1?= /*0' 6->'=-*.*2,*0' 2' 6'? ; , /6,*0'..6,* ' 620' 21,'6.' ,)* ' 8*-*' 1- 5 26// ' 8- ,^ ,*2% 1?*, ?*.' ,)*' D6-*' *L=1. , 12' .'5 +*2 ' 8 ,)1 ; ,' ,)*' -*6.12.' D ' 8) >)' ,' .' . ;==1-,*0% 1?*, ?*.' 8*' 020',)6,',)*1= 2 12.' 1 '0 *-*2,' 8- ,*-.' 6->'>12 1;20^ *0 ,)6,' D* 25' 6.. 52*0',1' 12*' 8) >)'=-1=*-/ ' D*/125.' ,1'621,)*-% ' 6-',)*' 5-*6,*-' 2 ; ? D*-' 6==*6-',1')6+*' D**2')6. , / ' 620' 2*5/ 5*2,/ ' ?60*' 8 ,)' .1' ?62 ' 1? .7V12.' >1--;=, 12. ' 620' *--1-.' ,)6,',)* ' >6221,' D*' -*/ *0' 12J' M 6+ 0.12 ' # f =% SX% // 6->' 21,' 6/ 9*' 2',)*' ?*,)10' 1 ',)* -' 6--625* ? *2, ' 21-' 6-*' 6// *_;6// ' .9 / ;// '1-' 2*6,/ '6--625*O% ()* '+6- '6/.1 ' 6>>1-0 25' 6.',)*' 8- ,*-.' -1?' 8)1?',)* ' 6->' 0-682' 8*-*' 6,.6>)*0',1',)*' 5-6? ?6, >6/ ',)*' 6//*51- >6/ ' 1-' ,)*' 015?6, >' =- 2> =/*' 1 ' 2,*-=-*,6, 12T 620' .1?*^ , ?*.' ,)*' >1?= /*- .' 182' 2>/ 26, 12' 2',) .' -*.=*>,' 5 +*.' 6' >)6-6>,*-',1') .' 81-9% ()*' ;.*' 1 ',)*.*' >6,*^ 26* .' 2*+*-,)*/*.. ' >12. 0*-6D/*' 6.' ,)* ' =-*.*-+*' ,1' ;.' ?62 ' -65?*2,.' 1 ' _; /6' 620',)*' 1,)*-' +*-. 12.' 1 ',)*' :*L6=/6T 6.' ,)* T >12,6 2' *L,-6>,.' -1?',)*' 81-9.' 1 ' 2,*-=-*,*-.' 1,)*-8 .*' ;2921820',1' ; .' 620' 6.' ,)*AJ1>>6. 126// ' .;==/ ' +6- 1 ; ' -*60 25.% ()*' 2;?D*-' 1 ',)*.*' >6,*26.' .' >12. 0*-6D/*T ?62 ' *,' -*?6 2' 2' < % ',)1.*',)6,')6+*' D**2' =- 2,*0' ?6 'D1' ?*2, 12*0d , ' ? ' ' '" 'BDS' 2 '7 1' *0% 6,% B ; 2 ; .' M 12012' SN ' 1/%XT $ " + I ' % ' + ' ? ' ' ' *0 ,% % 1.. 2 ; .' M(1/1.% S S' 1/%XT 6* ' ' ' 4 ' ' ' !' ? !' ' 2,*-=-*,% 6/,D' 1-0*- ; .' M(1/1.% S ' 1/%XT ' ? !' ' ' 6 !' !' ' >1//*>, ' 6,_; >' 2,*-=% % 1.. 2 ; .' *,>% M 1? ' S N' 1/%XT ' ' ? !' !' ' 1' 4 ' ' 6 !' ' % = -; ' ' ' # ' *,>% 6' % 1-0*- 1' 2,8% 4KQ' 1/%X/ ' !' EG !' ' D8' ' ' '(4 !' ? !' ' ' ' >O% 6' % 1-0*- 1'M 2,8% SN ' 1/%XT H ? !' !' ' 7 E' - !' >O% B ' % -6?*-' M L12% Q 'Q' +1/.% Q+1X% (1',) .' >/6..' D*/125' 6./.1',)1' >1?^ ?*2,6- *.' 1 '()*1=) /6>,' ;,) ? ; .' U 56D*2; .' # >;C ?12 ; .' 20-*6.' -*,)6.' *0*' _; 26.' *,>% ()*' 2,-10;>, 12' 1 ',) .' >/6..' 1 ' >1? ?*2,6- *.')6.' D**2' 6.. 52*0',1' / ?= 101-;.' D ' & 1/ ' 620' 1,)*+C' D ; ,' ,) .' >6221,' D*' .; D.,62, 6,*0T ., // /*..' >62' ,)*' 1= 2 12' 1 ',)1.*' 8)1' 81;/0' 6.>- D*' ,' ,1' -1>1= ; .' 46[6% ,' .' =-1D6D/*' ,)6,',)1' =-6>, >*' 1 ' >1?= / 25' -1?',)*' 5-*6,',*6>)*-.' 1 ',)*') ;->)'5-*8' ;=' 5-60 ;^ 6// ' 2',)1'/6,*-'620'/*..' *2/ 5),*2*0' 65*. '=6-,/ ' -1?' 6' **/ 25' 1 '+*2*-6, 12' 1-',)*.*' *6-/ *-' 620' D- 5),*-' /; ? 26- *. ' =6-,/ ' -1?' 26D / , ' ,1' ;-2 .)' 62 ,) 25' 1- 5 26/ 12',)*)119.' 1 ' >- =,;-*% ,' 86.' 6' .*6.12' 1 ' 2 5),' 8)*2',)1.*' 8)1' .1;5),'6 ,*-',-;,)' */',,)6,'*+*2' -* /*>,*0' / 5),.' 8*-*' 6' 5-*6,' D/*.. 25' M.**' ?12 ' $! ! ' % ' ' 7 !' -!' >% Q ' ,, 5 ; .' ' " " ' ' % '\ =.% Qh T 6D- > ; .' ; !' ? ! + ' =% KQT B% %& 1/, ; .' 6 ' ' !' ' ? !' -*=- 2,*0' 2' -6?*-.' ' ' 7 !' - ' T 1*..*/, ' ' ' ! !' ? !' '7 !' -!' E, % ! 'NIK' ._%h T -6?*-.' ',1') .' *0 , 12' 1 ',)*' 6,*2>*X% ' ,C ,1' % 1' .% +% ** # ! 6 ,*-= //6- .' ,)1' -*20*- 25' 2' ,)1' ;,)% >-.% 1 ',81' : *D ' 81-0.& % 2+6- 6D/ ' 1 ' " (I% A >;-.' ' 25.' + ' N T K')-12% + ' KQT .6% LL+- ' NT .6% LLL ' T B1*/ ' T ' K XT K% >>6. 126// ' M .6% >+ ' N T B*-' / ' ' K X 1 ' (2"1' */.*8)*-*' '>629*-C81-?J' M_% +%X%)*' 25/ .)' 81-0' % 'D*/125.' .,- >,/ ' ,1',)*' I '1 ',)*5*2;.' *= 01=,*-6' 620' ?1-*' *.=*> 6// ' ,1',)*' /6-+e' 1 '6' .*>, 12' 1 ' , ',)1' % ! ' .')18*+*-' 6-' -1?' =-1+*0',)6,',)1' " ' .' 62 ' .=*> *.' 1 ' >6,*-= //6-% ()1' -11,' " W . 52 *.' %,1 >12. ; ? *J' 1-' 0*+1 ; - J' 620' ,' .' *.=*> 6// ' ; .*0',1' 0*21,*',)1' -6+65*.' 1 ',)*' 'M *;,% LL+ ' NQX% ()*' 81-0'*$% 'D ' 8) >)' ,' .' -*_; *2,/ '-*20*-*0' 2',)1' *=,%' -1?' %) ' ' ' >6, ' = J' >12+* .' 6/.1' ,)1' /W6' 1 ' -6+*21; .2*..% ()*' -6D >' 620' - 6> ,*-? .' 6/.1' 20 >6,*' 6' >-*6, ; -*' 8)1.*' >) * ' >)6-6>,*- .^ , >' .' +1-6> , ' 620',) .' 6,,6>)*.' ,1' 6//' ,)*' .=*> *.' 1 ' f ()*' 62> *2,.' 20**0' >12> ; -' 2' -* *-- 25',)1' 81-0',1',)*' S> ; .',- D*' 1 ' 2.*>,.' D ; ,' 6-*' 21,' 65-**0' 8)*,)*-' ,' . 52 *.' 62 ' =6-, > ; /6-' % ' 1 '/1>; ., ' 1-' .',)*' 26? *' 1-' 62 ' 1 ',)1.*' ' ,)-1 ; 5)' 8) >)' ,)*' /1>; .,' =6..*.' -1?' ,)1' *55',1',)*' =*- *>,' 2.*>,% ()*' 6, 2' 6,)*-.',69*' ,',1' ? *62',)1' ' 1 ',)*' /1>; ., '620',)*' 4-**9' ; 20*-.,620' ,' 6.',)1' 26? *' 1 '62' /1>; .,% ()1' 6, 2.' 5 +*',)1' 26? *' " " ' 1',)*' 1; 25' /1>; .,' D* 1-*' ' >6.' 8 25.' >6//' , " ' 8)*2' ,' D*5 2.' ,1' / '620' ' 8)*2' ,' .' ; // ' 6D/*' ,1' / ' ()1' .; =*- 1-' 62, _; , ')18*+*-' 1 ',)*' *=,' *2, ,/*.' ,.' 1= 2 12' ,1' =-* *-*2>*' 620' 2' .1?*' =6..65*.' ,' 6.>- D*.' D D ' ,1' ,)1' N=1 FL1>' 620' .=*69.' 1 ' ,' 6.' 6' 0 ., 2>,' .=*> *.T 620' 2' ,)1' 1-?*-' =6-, > ; /6-' *.=*> 6// ' ,' .' 0 >; /',1' .; .=*>,' ,' 1 '62' *5-*5 1 ; .' *--1-% ()*' .,6,*?*2,' 1 ' - .,1,/*' .' 6/.1' 81-,)' 1 '21, >*' 8)1' .=*69.' 1 ',)*' " '6.' 6' 26C 3, ; -1' 2.*>,' 1-')1' -* *-.' ,1' ,.' =6-, ; - , 12' 620' *55.' I# !' & !' ' KRX% (/1' 6-5; ? *2,.' 620' .=*>; /6, 12.' 1 ',)1' ?1.,' *? 2*2,' ?10*-2' 8- ,*-.' ?6 ' D*' .**2' 2' 1>)6-,' # /!' *0' 1.*2?; //>-' ' K S' ._# M =.% RNCSX% ' ,,1' .% +%)6. /% ** =*; .L% 6,) 6 - ' M -6 C6=1V' % (8 1-' ' M % O% - 76 .X' 6' 26? *' 6==/ *0' 6, 0 *-*2,' , 2*.' 2') ; ->)' .) ,.1- ' ,1' 0 *-*2,' .*>,.' T 6// ')18*+*-' >)6-6>,*-TH 37 D '6 ? 25' 6, ' 1-' 6, '/*6..' =-*,*20 25',1 ' =*>; / 6-' =; - , ' 1 '/ *' 620' ?622*-.' % ,' 86.' 6..; ?*0' D ',)*' 1+6C ' , 62.' 2',)*',) -0' >*2, ; -A '8)1' *L>/; 0*0' -1?',)*') ; ->)' 6// 8)1' *// 2,1' . 2' 6 ,*-' D6=, . ?% ** ! K% ()1' 26? *' 1 ' 6,)6-' 86.' 6/.1' 5 +*2' 2',)*',8*/ ,)' >*2, ; - ',1',)*' .*>,.' 1 ',)*' /D 5*2.*.' 6; 01 .' 6C ,6-2' 620' 1,)*-% ()1' 1?62' 6,)1/ >') .,1- 62.' 6D1 ; 20' 2' - 5), ; /' 6>>1 ; 2,.' 1 ',)*')*-*. *.' 620' ?^ ?1-6/ , *.' 1 '6// ',)*.*' .*>,.' ,1' 8)1?',)*' 6,,- D ; ,*0' 6// ',)*' D60' ?*2' 620' D60' 0**0.' 1 ',)* -',?*.% 1?*' ?10*-2' -1,*.,62,' 8- ,*-.' */0 25',11' -*60E'>-*0*2>*' ,1',)*' 1?62') .,1- 62.' ,-*6,' 1 ',)*' 6,)6-'6.' ',)*' 8*-*' 6//0 ; 6/ .,.' '21,' < 62 >),*62.% ()*' ,-; ,)' .**?.' ,1' D*' ,)6,',)*' 1- 5 2' 1 ' ?1.,' '21,' 6// ' 1 ',)*' .*>,.' 6D1+*' 26?*0' .',1' D*' .1;5/ ,' 2' > ->; ?.,62>*.' 1 '5*2^ *-6/ 1=*-6, 12 '620' =- 2> =6// ' 2' 6' =-*+6 / 25' .*2.*' 1 ',)*' >1--;=, 12.' 1 ',)*' 01? 262,') ; ->)' 620' 1 ')*-' =*-+*-. 12.' 1 ' 41.=*/ ,-; ,)% ()6,' .1?*' 1 ',)*' .*>,.' ,) ; .' 1- 5 26,*0' =-1 *..*0' 0; 6/ ., >' 01>,- 2*.' .' 21,',1' D*' 01; D,*0T ,)6,' '8*-*' >1--; =,' 2701>,- 2>' 620' / *' .' =-1D6D/A I' 62' 2+*2, 12' 1 ',)*' -' =*-.*>; ,1-.% ** ! % % ' ()1' 1- 5 2' 1 ',)1' 6,)6-' .' ; 2921820T ,)*' 26?*' ,.*/ ')18*+*-' .' 4-**9' 620' 20 >6,*.' 6; - *2,6/ 1- 5 2% ()6,' 62' *6-2*.,' .= - , ' 1 ' =-1,*.' 656 2.',)*' >1--;=, 12.' 1 ' 1?*' 6-1.*' 2' *.,*-/ ;^ -1=*' 0; - 25',)1' < 00/*' 5*.' 620' ?62 *.,*0' ,.*/ '*.^ =*> 6// ' 6D1; ',)1',) -.**2,)' >*2, ; <A 7 .' >*-.,6 2T D ; ,)*' 01>,- 2*.' 620' .1?*' 1 ',)*-' ,.*.' 1 ',)*' -*6// '0; 6/I I' ., >' 6,)6-' 8*-*' 01; D,/*..' 0*- +*0' -1?',)*' 6.,% ,' 86.' 1-?*-/ ',)1; 5),',)6,',)*' 6,)7 -' 8*-*' / 2*6/ 0*.>*2062,.' 1 ',)*' <62 >)**.' 1 ',)*',) -0' 620' 1; -,)' >*2, ; - *.T D ; ',) .' + *8' .' 218' 6D6 2012*0% ()*-*' .' 21' .; D,/*' -*/ 5 1 ; .' =) /1.1=) ' / 9*',)6,' 1 ',)*' <62 C >) *62.' 1 ; 20' 6? 125',)*' 6,)6- T ,)* -' 8)1/*' . .,*?' 86.' =1=; /6-' -6,)*-',)62' ? .,*- 1 ; .T >>1-0 25',1' ,)*' <62 >)**.' ',)*' >-*6, 12' .' ,)*' -*. ; /.' 1 ',)*' ; 2 12' 1 ',)*' .1; / 1 ',)*' 81-/0' 8 ,)' ? 6,.*-' 8)/*,)*' 6,)6-' T ,6 ; 5),',)6',)*' 8)1/*' ? 6,*- 6/ >-*6, 12' 86.' *L>/; . +*^ / ',)*' 81-9' 1 ',)1' *+ /' =- 2> =/*% D1+*' 6// ',)*-*' 6? 125',)*?' 21',-6>*' 1 ',)*' =-1 1; 20' =*-.126/' -*+*-^ *2>*' 1-' <62*.' 620' 81-.) =' 1 ') .' ? *? 1-6 ' 8) >)' 86.' 12*' *..*2, 6/ >)6-6>,*- .,>' 1 ',)*' 5*2; 2*' <62 >)**.' 8)1' /119*0' ;=12',)* -' 1; 20*.' 6.',)*' 6-6>/*,*' =-1?^ .*0' D 'B*. ; .',1') .' 0 .> =/*. ' ()*' -A > // 62 .,*' .;>^ >**0*0',)*' <62 >)**.' 2',)1' & *.,' 620',)*' 6; > 62.' 2',)*' 6.,T *,',)*-*' =-1=*-/ ' - 62' 421.^ ,>.' *L*>-6,*0' <62*.% ()*' 6; / > 62.' 8*-*',)1; 5),' D <1.)* ? ' 4 DD12' 620' <6 ,/620',1')627> D*2*' ,)1' ? ? *0 6,1' -*/ 5 1 ; .' 62>*.,1-.' 1 ',)1' 6,)6- % ,' 6

NE

6>,' 1 ' >12.1/6, 12' 2' >6.*' 1 ' . >92*..% ( )*' 1-? ; /6' 1-' 7 *' 6>,' 1 '>12 *.. 12',*-? 26,*.' 8 ,)',)*' 1//18 25' /767-a

',)1;')1/ '620'5110' 1-0'6//',/ *.*' ,) 25.' 8) >)')6==*2' ,1';67' 2'1;-' .*2.*.' 620' 2'1;-',)1;5),.,'1',)**' 8*01'?22 Z /*.',)*?7')1/ ' 1-0T 620' 2/',)*' ?';/,.;0*' 1 '. 2.' 8*/6' ;=12',)*' ?*-> '1 '410'620';=12',)1/ '=-6 *-'620';=12',)*')1/ '41.=*/T 1-' ?62 '6-*'1;-'. 2.% ' 1-0'A;05*'620'>12^ 0*?2',)*'+>*.' 1',)*' /*.)T)6+*' 21'?7-> '12',)*' /*.)'D1-2' 1 '>1-?=,12'D;',)6+*' ?*-> '12',)*'.=-',=/6>*0' 2'=-.12' 2,0'662 2 6,*-','1';.'06 .'620')1;-.'620'5*2; /*L 12.'620' 6.,.'0$0'1-.12.'620'=-*6>) 25.'6.' .',)1'>;.,1?'1'5110' 4) .,62.',)6,'8*' ?6 '21,'D*A;05*0'21-'>120*?2*0' 2',)*' 06 '1'A;05?*2,'8 ,)' */12.%

()*' -.,'0*5-**' 1' 2 , 6, 12' 1-' ,)*' 6>,' 1 '-*>*=, 12' 2,1',)*' 2;?D*-' 1 'D*/ *+*-.' .' >6//*0' ,)*' 0*/ +*-A7 1 ',)*' 1-.12 J' D*>6;.*' 6' >1= ' 1 ',)*' 1-0 .' -6 *-' 86.'5 +*2',1',)*'2*1=) ,*% ,'D*5 2.',);.T

'6'D*/ *+*-' .' 2'6D.,2*2>*'620',)*')-.,62.'6-*'65-**0' ,1'0*/ +*-') ?',)*'1- .12'/*',)*?'86.)',)*-')620,'620',)*' D*/ *+*-.'=-*.*2',/9*8 .*% 20',)*2'12*'1',)*' 1' ,)*'12*',)6,'>1?*'6 .*-',)*'*/0*-' ' ,1' ?69*',)-**'D18.',1' ,)*'*/0*-'620',)*2',1'=-*=6-*'6'0*.9'M0*.*Y',)*2',)-**'?1-*' D18.'620',)*2',)*' .',1'=;,'6'26=9 2'I 8;=12',)*'0*.9' 6D0',)*2',)-**'?1-*'D18.'620',)*2',)*' .',1'=;,)*'D119',=12' ,)*'26=9 2'620',)*2'/*',) ?',6',),)*' 1% f 20',)*2'/*',)*'D*/ *+*-' ?69*')'.6/;.*'620',69*',)*'D119' -1?',)*')620'1',)*'*/0*-% 20',)*'*/0*-'?;.;60?12.)' ?'620'=-*6>)'71?' ',25',*.;?12*.'M,)6,'.',*L,.X% 20' ,)*'D*/ *+*-.'26?*' .*,*-')*' .',1'.6 ' -' *.*-' 1;' ?;.;'20*-.620',)6,'8)*2' 1;'6-*'D*1-*',)*');->)'1'410' 1;'6-*'D* 1-*',)*' 6,)*-'620',)*' 12'620',)*' :1/'4)1.% 1-',)*');->)'.'>6//*0'6..*?D/ 620'8)*-*'6-*',)*'.-'-*)-.,62.',)*-*' .',)*' 6,)*-',)*' 12'620',)*':1/'4)1.,J'

()*' 26/ 2, 6, 12'1-' - .' >6//*0'7:)*' D6=,.?'1',)*' =-,%J' :*-*' .'62' *L,-6>,' 7?',)*' 1-?;/6'1',.'>*/*D-6, 12a

B*,:.')-.;.6.'2',)*' >,.'1',)*' =1.,/*.',)6,' B1)2',.;-*/ 'D6=,[*0'8,)' 86,*-T D;,' *'./,// D*' D6=,[*0'8,)' ,)*':1/'4)1.,J' () .')1/ 'D6=,.?'1' ?=1.,12'1')620.' 8-1;5),'B*.;.')-.,'6>>1-0 25'6.' ,'B%;9*-*=1-.,T 620')' 6.0',)6,' //.1 -*20,'.)1;/0'81-9' ,'6,'-*=1.,'.,T <6-9a ()*' .)6// /6 ')620.'12',)*' .>9'620',)*' .)6//-*>* +* 5110%J' 20' 262 6.'8-1;5/',),.'D6=,.?'12' ,% 6;/8)*2')*'86.'>12+*-.*0% 20'6,*86-0.' 6;/620' 6-26D6.'8-1;5),' ,2'?62 =/6>*.% 20' ,% *,*-'620',%B1)2'8-1;5),' ,'12' ,J*' 6?6-,62.'%%% () .')1/ 1'D6=,.?'D'8)>)',)*' .'1/ =-.,'5+*2',)*');>)'1'410'6)60',' -1?',)*'6=1../*.' ;2,/2181'620',')6.'>1?*0182' -1?'D12.'D ',1' "??> '620'8//01'.1',1',)1*20'1',)*'81-/0%

P-" '% '8*-*'D1;20',1'.=*>6/ 6.,25'620'6D.,^ 2*2>*' -1?'=-1=*-, '620' -1?'?6-- 65*% ()*')60' .52.'D '8)>)',)*-'=*-.12.'620'*+*2',)*-')1;.*.' >1;/0'D*'-*>152 .*0'D',)*' 2,6,*0% 6 2*-;.'M8)1' 6=1.,6,.*0'-1?' 6,)6-.?',1',)*');>)'1'1?*X' *.,?6,*0',)*'2;?D*-'1' ,)*'=*-*>,J'6,'6D1;,' ' 2'6/' ;-1=*% ()*'>-*0*2*.'1-'.?=/*'D*/ *+*-.'8*-*' 21,' .;DA*>,',1',)*'.=*>6/ -*.,-> ,12.'26?*0'6D1+*' D;,'8*-*'D1;20',1'>12 *.. 12',1',)*'-'?2 .,*-.'620',1' .*=)' ..1?622',)29.',)6,',.' ',)*'12/ '6>>1;2,' 1'$!' " ',)6,'>62'D*'0*=*20*0'12% : *-'-*?6 2.' 6-*'.6 0',1'D*'.,// 9*=,' 2'6'?6-D/*')*.,' 2',)*'?12^ 6.,*-'1'<1;2,' 26'2' -6D 6'M 1>1>9.'- ' 1/%%)*'.'>1?2*?1-6,*0'12' 1+%K %' ;,C'1 /*,' '$ $'1+%K T 62012'6 !' ' '.%+% K%' 8*0*2'6'=-2>*..'D1-2'6D1;,' NN '8)1'D*^ 25'>12,-6>,*0'2'?6-- 65*',1'6' 1;25'21D/*?62' 26?*0'56-0'=*-..;60*0')?',1'A1 2')*-'2'?69 25'6' +18'1'=*-=*,;6/*)6.,,G)*'0 *0'6DD*..'1',)*' ?126.,*-'1'6,[*2' 6->)'K NQ %' ;,/*-' '$ $'1+'KKT 62012'6 !' ' '.%+% N%' *226'86.'D1-2'6,' *226'2'N '620'*6-/ '0*+1,*0')*-.*/',1'62'6;.,-*-*'/ *% 2' NS'.)*'-*^ >*+*0',)*')6D,'1',D*',)-0'1-0*-'1' ,% 1?2>'620' .112'D*>6?*'>*/*D-6,*0' 1-')*-'-*>/;.*'/ *'-*+*/6^ ,12.'620'?->;/1;.'=18*-.'1'>12+*-.12©)*' 2^ 0;>*0'1=*'4-*51-'d ',1'-*.,1-*',)*'=12, >6/',)-12*' ,1' 1?*' -1?' + 5212%)*';.*0'6//)*-'* 1-,' ,1' >6;.*'$-D62' ',1'D*'-*>152 .*0'6.',)1'/68 ;/.;>^ >*..1-'1'4-*51-'%)*0*0' =-/ KR NQ %' ;.' =;D/.)*0',)*'D;// 1-')*-'>6212 [6, 12'B;2*'KR S' 620')*-'*.,+6/ .'1D.*-+*0'12' =-/ N %' % ;,/*-' '$ $'=-/ N T)6+2'N ' '$!' " ' M Q SXT 62012'6 !' ' '.%+% 1/1526'D1?'1'2>D/*=6-*2,.' *=,'Q N%

2' K ' .)*' *2,*-*0' 6?125',)*' 2 ; 2 .' 1 ' ,' -62> .' 6,' *--6-6 ' 8)1' .112' 6 ,*-' 601=,*0',)*' .*+*-*' - ; /*' 1 ' ,'# /6-*T ,*-86-0.' .)*' D*>6?*' 6DD*. .' 1 '6' 2*8' >12^ +*2,' 1 ',)*' 1-0*-' 2' 1/1526'#)*' .' .6 0' D ' 1?62' 8 - ,*-.' ,1')6+*')60',)*' 5 ,.' 1 '=-1=)*> '620' ? -6>/*.G')*' 0 *0' < 6->)'R SN ' 12' 8) >)' 06 ' .)*' .' >1?'?*?^ 1-6,*0'# ' .=; - 1 ; .' D119' 1 ')*-' *+*/6, 12.' 86.' =; D^ / .)*0' 6,' 1/1526' 2' % ' ;./*-' ' '$ 1' < 6->)'R

' ' 4*216' 06 ; 5), *-' 1 'B6?*.' *.>) '+ >*-1 ' 1 ' 6=/*. ' 86.' D1-2' 6,' 4*216' 2' Q' 620' 6,' 6D1 ; ,' . L^ ,**2' 86.' ?6-- *0' 656 2.,')*-' 8 //' ,1' 6' 56 ' 1 ; 25' =-1 / 56,*' 26?*0' B ; / ; .' 01-26' 8)1' 1-' ?62 ' *6-.' >6 ; .*0')*-',)*' 5-*6,*..' 6 / >, 12'# * 25'/* .' 6' 8 018' .)*' 0*+1,*0')*-.*/' ,1' ,)*' >6-*' 1 ',)*' . >9' 620' =11-'#)*' 0 *0' *=,'# '/*6+ 25' 6' *8' 81-9.' 1 '0*+1^ , 12'# ' ;./*-' ' '$ 1' *=,'# 1' $=)6?' ' ' "!'& ' '# Q S K?1'#

' ' >> ' 86.' D1-2' 6,' /1-*2>*' 2' KK'# 2' NS' .)*' ,119',)*' +* / 6?125',)*' 1? 2 >62' 2 ; 2.' 6,' -6,1' 2' (; .>62 '#)*' 86.' ?60*' =*-=*, ; 6/' =- 1-*..' 6,'# ,8*2, (+*' 12' 6>>1 ; 2,' 1 ') *-' .62>, , ' 620' 6.>*, >' / *'# ()*' 1//620 .,.' .6 ',)6,') / =' 1 ' *-' 86.' 6/^ /18*0', 1' >12+*-,' 8 ,)')*-' 2' 6' + . 12' .)*' D* 25' 6,')*-' >12+*2,' 620' / *' 6,' 1?*'#)*' 0 *0' *D'# K QR' 620' 86.' >6212 [*0' 2' S'# ; ,/*-' ' '$ 1' *D'# '#

6,)6- 2 ; . ' $ ' 1-' ?1-*' =-1=*-)I ' ' ' 86.' D1-2' 6,' *226' 2' Q'# : *' .,; 0 *0' /68' 620' 6 ,*-86-0.',6 ; 5),',) 6,' .> *2>*' 2' .*+*-6/' ,6/^ 62' ; 2 +*-. , *.' D ; ,' 2' K ')*' *2,*-*0',)*' 1? 2 ^ >62' 1-0*-' 6,' /1-*2>*' 620' 2' ' 6>>1?=62 *0',)*' >6-0 26/ 0*/' <12,*' ,1',)*' 1 ; 2> / 1 ' (-*2,'# : *' D*^ >6?*' 6 ,*-86-0.' D .)1=' 1 ' < 21-' 2' S' 620' 6->)^ D .)1=' 1 ' 12[6' 2' '# : *' 0 *0' 6,' 1?*' 2' N'# .' 6',)*1/15 62')*' .,110') 5)' 1-' /*6-2 25 ' D ; ,' 86.' ? ;>)' 5 +*2',1' >12,-1+*-. ' 620' 0 0' 21,' .=6a7*' *.)*-',)*' 6,)*-.' 1-',)*' 015?6.' 1 ') .') ;->)' 2') .' 6,,6>9.'# : .' =- 2> =6/' 81-9.' 6-*' a ' ' % ' #' M *2>*' ' 1/%Xa ' '6 ' ' ? ' M 1?D' K' 1 X'# 1?*' 1 ') .' 8-, 25.' 8*-*' =; D^ / .)*0' ; 20*-',)*', ,/*' , % ' M KX%' *-*-' 2 g =' + ' .'# +%T ; = 2' 6 !' 1' S,)' >*2, T >*-12' $',# LLL +%

6,)>6-, ' % %' 6' -*.D ,*- 62' ? 2 .^ ,*-' 86.' D1-2' 1+'# R '2*6-' 1/*-6 2*' -*/620' 8)*-*')*' 86.' >/6.. >6// ' *0 ; >6,*0'# : *' 6 ,*-86-0.' *2,*-*0' ,)*' $2 +*-. , ' 1 ' 4/6.518' 86.' / >*2.*0' D ' ,)*' -*.^ D ,*- ' 1 ' 1 ; ,*' 620' /6D1-*0' 8 ,) 2' ,.' D1 ; 20.' 1-' .*+*-6/' *6-.'# 2' >1? 25',1' ?*- >6' 2' R ')*' D*^ >6?*' 6' ?*?D*-' 1 ',)*' -*.D ,*- '1 ') /60*/=) 6' 620' 2' RN' D*>6?*' =6.,1-' 1 ' ,)*' >) ; ->)*.' 1 ' 1-9' 620' : 1=*8*//' 6%' 8)*- ')*' .=*2,' 2*6-/ ' , ' *6-.' 1 ' *? 2*2,' ; .* ; /2*..'# : *' 86.' 6' ?*?D*-' 1 ',)*' 4*2*-^ 6/' ..*?D/ ' 1-' 2*6-/ ' ,) -, ' *6-.' 2' .; >>*.. 12'# : *' =; -. ; *0') ./6D1-.' 8 ,)' ; 28*6- *0' 0 / 5*2>*' 620' 0 70' >,'# R Q R'# : *' =; D/ .)*0' &' $ ' " ' ' '"' '5 !' ' !' ' 1' Q K% ' =-65 ; *' & ' ' RT' "!' !' 5 !' >,'# QS '6-,'# + %

6,)*0-6' M 6, 2' " :' 4-'#) g+ I ' ' ' -1?') '0182' 620' =6'6'.>6,X'# 2'>/6.. >6/' 6->)6*1/15 ' " ' ?*62.' 6'>)6 -' 8 ,)' 6' D6>9 'D ; ,' 8 ,)1 ; ,' 6-?. ' 620' ; . ; 6// ' ; .*0' D ' 81?*2'# 6,)*0-6*' 8*-*' 6/.1' ; .*0' D ' ,*6>)*-.' 1' 5 ?26., >.' 8)/*' 5 + 25' 2.,-; >, 12' 620 /6,*-' D '6//*=; D/ >',*6>)*-.'# 1//18 25',) .' ; .65*' 1 ',)*' 81-0' ,)*' ,*-?')6.' D***2' 6==/ *0',1' ,)*' >)6 -' 1-' M12*' 1' 621,)*- ' 620' 8)1' >1?=1.*' ,)*' D10 ' 1' ; ,' 62.' 1' D ;)>)*1 >*' 1 '=-1 *..1-.' 2' ; 2 +*-. , *.' 1-' 1,)*-') 5)' .>)11/.' 1 '/*6-2 25'# ()*' 25/ .)' 81-0' " ' .' ; .*0' 2',)*' .6?*' 86 %

2',)*' *6-/ ')- ., 62') ;->)',)*' ,*-?' >6,)*0-6' 86.' 6==/ *0',1',)*' .*6,.' D .)1=.' 620' =-*.D ,*-.' 1>>;^ = *0' 0 ; - 25' 0 + 2*' .*-+ >*' 2' .; >)'-11?.' 6.')- ., 62.' 8*-*' =*-? ,,*0',1' 6..*?D/*' 2' D* 1-*',)*' 8*-*' 6//18^ *0',1' D ; /0' >) ;->)*.'# 2' ?62 ' 1 ',)*' >- =,.' 2',)*' 6,6>1?D ' 6,' 1?*' 620' */.*8)*-*' 6-*' .*6,.' >; ' 2',)*' -1>9. ' .; ==1.*0',1')6+*' D** ',) ; .' ; .*0'# 6,*-' 8)*2 >) ; ->)' *0 >*.' 8*-*' *-*>,*0 ',)*' >6,)*0-.*' 8*-*' =/6>*0' 2',)*' ?00/*' 1',)*' .*? > ->; /6-' 6=. .' 6,',)*' *6..*-2' 1-' -*6-' *20' 1 ',)*' >) ; ->) ' 620' 1>>; = *0' D ',)*' >/ -' 2' 1?*' ?62 ' 1',)*' >6,)*0-6*' 8*-*' ,69*2' -1?',)*' =; D/ >' D6,) . ' 620' 8*-*' ,) ; .' 1 ' ?6-D/*' 620' 0*>1-6,*0' 8 ,)' 0*. 52.' -1?' >/6.. >6/' ? -,)5 7' 6,*-' ,)*' 8*-*' 0*>1-6,*0' 8 ,)' . ?D1/ >' 0*. 52.' 1 ',)*')- ., 62' 6 ,) ' 6.' ,)*')*60' 1 '6' / 12' -*=-*. *2, 25',)*' 1->*' 620' + 5 /62>*' 1 ' 6' 5110' D .)1=' ,)*')*60' 1 ' 6' 015' 2*=-*' .*2, 25') .' + 5 /62>*' 620' 0*/ , ' 1-' 6' 01+*' >2-18 2*0' 8 ,)' 6' 2 ?D ; .' 1+*-',)*' D6>9' 1 ',)*' >)6 - '-*=-*. *2, 25' ,)*' : 1/ ' = - ,' 8) >)' 86.',1' .)*0' / 5),' 2,1') .')*6-,'# ()*' >6,D*0-6.' 1 ',)*' ,)' 620' S,)' >*2, ; - *.' 8*-*' 1 ,*2' 2/6 0' 8 ,)' +1- ' 620' =-*> 1 ; .' .,12*.' 6 ,*-',)*' ., /*' 1 ',)*' /*L620- 62' ?1.6 >.'# 6,*-',)*' 8*-*' - >)/ ' 0*>1-6,*0' 620')*6+ / ' 5 /,'# *- '*6-/ ' 2',)*') .,1 J 1 ',)*') ;->)',)*' 8*-*')*/0' 6.' =-*> 1 ; .' ?*?*2,1*.' 1 ' 6+1- ,*' D .)1=.'# (-60 , 12.' ; 2 81-,) ' 1 ' >-*0 , ' 6-*' 6,,6>)*0',1',)*' -*=; ,*0' >)6 -.' 1 ' ,7*,*-' 2',)*' 6, >62' M 1?*X ' 1 ' ,'# < 6-9' 2' *2 >*' 620' 1 ' ,'# 6 ; /' 2' 6/12 >6'# 2',)*' 46 ; / >') ;->) ' 1-' 6' , ?*' ,)7' D .)1=.' 8*-*' D ; - *0' .*6,*0' 2',)*' -' >)6 -.' 8)*-*' 6 ,*-86-0.',69*2' ;=' 620' =-*.*-+*0' 8 ,)' 5-*6',-*.=*>,% 2',)*' =6 2, 25.' 1 ',)*' 6,6>1?D. ' 2' *6-/ ' ?1.6 >.' 620' ? 2 6, ; -*. ' >6,)*0-6H' 6-*' 1 ,*2' -*=-*.*2,*0' 8 ,)' * ,)*' 6' / ,*-6/' 1-' 5 ; -6, +*' ?*62 25'# ( ) ; . ' 2',)*' 6,6>1?D. ' 6' D .)1=' .' -*=-*.*2,*0' .,-*,>) 25' 1 ; ,') .')620',1' 6' 81?62' 620',1' 6' .)**=' ,) ; .' -*=-*.*2, 25',)*' 6 ; 0 *2>*' 620',)*' /1>9T 2' 621,)*-' ,)*' D .)1=' .')1/0^ 25' ; =7,)*' & 1-0T 410',)*' 6,)*-' .' -*=-*.*2,*0' 12' 6' >6,)*0-6' -*>* + 25',)*' 5 ,.' 1' 6 2' 620' D*/T ,)*' *^ 0**?*-' .' ,) ; .' .*6,*0' -*>* + 25',)*' >-182.' 1 ' 51/0' -1?',)*' .*+*2' */0*-.' \.**' / #/ ; ;')- .,' .' .*6,*0' 12' 6' >6,)*0-6' .; --1 ; 20*0' D ' * 5),' ?6-, -.'# (81' >)6 -.' 2',81' 2 >)*. ' 8 ,)' 6',6D/*' D*,8**2C',)*?' D*6- 25',)*' 1=*2' D/*' -*=-*.*2,'6' >1 ; 2> / M 2',)*' 6=^ , .,*- '=' 6+*226X'# 2',)*'>) ; ->)' 1 ' 62,6' < 6- 6'0*/^ /6' < *2,1-*//6' M 2' 6, ; ?'X' .' 6' 81-9' 2' 5 /0*0' D-12[*' -*=-*.*2, 25',)*' ,8*/+*' 6=1../*.' 12' .*6,.T D*,8**2' ,)*?' .' 6' >6,)*0 6' .; ==1-, 25',)*' 1=*2' D/*' 6.',)*' .1 ; ->*' 1 ' 6//' 6 ; ,)1- , T 6D1+*' .' 6' /6?D ' D*6- 25' 6' >-1.' 8 ,)' 6' D622*-' / 6+ 25',)*' 2.>- =, 12' M6 ' ' ' ' 'V6 8 ' " ' ' ' + ' ' ' D ' " %' ' 6' >)6/>*012 ' 2' 1-,*26')6.' 6' >6,)*0-6' 8 ,)' M g '>; ,'12',%C ' 25)6?', !'6 + 'D9'# + '>)'# + ' g %

6,)*0-6/' \.**' ; !' M %X' ()*' >) ; ->)' *0 >*' >12,6 2 25',)*' >6,)*0-6' 1-' D .)1=.' >)6 -' 'T*'# ,)*' D .)1=.' >) ; ->) ' 2' 6' 0 1>*.*' ; .; 6// ' ,)*' /6-5*.' 620' ?1.' ?652 >*2,'>) ; ->)' 2' 6' 0 1>*.*'# ()*' ?10^ *-2' ; .*' 1 ' ,)*' ,*-?' >6,)*0-6/' 6.' 0*. 526, 25',)*' >) ; ->) ' 2' 8) >)' ,)*' D .)1=')6.') .',)-12*' .' >12 2*0' ,12*' 1 ',)*' & *..*-2') ; ->) ' 620' .' =1..*- 1-' ,1' ,)*' ,*2,)' >*2,; - '# 2',)*' 6..' .; >)' >) ; ->)*.' 6-*' >6//*0' ,)*' 5-*6,' >) ; ->) ' ',)*' *= .>1=6/' >) ; ->) ' 1-' . ?=/ ' ,)*' >) ; ->)%

MK%X' (: 'M6OA*>, +*X ' M6X' =*-,6 2 25',1' 6' >6^ ,)*0-6/' 6.' '>6,)*0-6/' .*-+ >*TJ' MSX' 1 >6/' 1-' 6 ; ,)1- ^ ,6, +*' 6.',)*' >6,)*0-6/' 0*,*-? 26, 12' 1 '62' 6-, >/* J

6,)1/ >' &%7O O+)%7O,' 2 ' 620' 1d1>h' ' 8' 6' , ,/*' 5 +*2',1',)*')- ., 62') ; ->)' 12' 6>>1 ; 2,' 1 ' ,.' D* 25' 21,' >12 2*0' M/ 9*',)*' B*8 .)X',1' 12*' =*1=/*' D ; ,' *?D-6> 25' ?*?D*-.' 1 ; ,' 1 '*+*-' 26^ , 12'# ' .' ' " ') ; ->)' .' M 2' 12*' 1 ' ,.' .*2.*.X'*?^ =/1 *0',1' . 52 ' 6/')- ., 62.' 8)1' 6-*' `?*?D*-.' M12*' 1 ' 621,)*- ' 620' 8)1' >1?=1.*',)*' D10 ' 1 ' ,' 62.' 1' D ;)>)*1 >*' 1 '=-1 *..1-.' 2' ; 2 +*-. , *.' 1-' 1,)*-') 5)' .>)11/.' 1 '/*6-2 25'# ()*' 25/ .)' 81-0' " ' .' ; .*0' 2',)*' .6?*' 86 %

2',)*' *6-/ ')- ., 62') ;->)',)*' ,*-?' >6,)*0-6' 86.' 6==/ *0',1',)*' .*6,.' D .)1=.' 620' =-*.D ,*-.' 1>>;^ = *0' 0 ; - 25' 0 + 2*' .*-+ >*' 2' .; >)'-11?.' 6.')- ., 62.' 8*-*' =*-? ,,*0',1' 6..*?D/*' 2' D* 1-*',)*' 8*-*' 6//18^ *0',1' D ; /0' >) ;->)*.'# 2' ?62 ' 1 ',)*' >- =,.' 2',)*' 6,6>1?D ' 6,' 1?*' 620' */.*8)*-*' 6-*' .*6,.' >; ' 2',)*' -1>9. ' .; ==1.*0',1')6+*' D** ',) ; .' ; .*0'# 6,*-' 8)*2 >) ; ->)' *0 >*.' 8*-*' *-*>,*0 ',)*' >6,)*0-.*' 8*-*' =/6>*0' 2',)*' ?00/*' 1',)*' .*? > ->; /6-' 6=. .' 6,',)*' *6..*-2' 1-' -*6-' *20' 1 ',)*' >) ; ->) ' 620' 1>>; = *0' D ',)*' >/ -' 2' 1?*' ?62 ' 1',)*' >6,)*0-6*' 8*-*' ,69*2' -1?',)*' =; D/ >' D6,) . ' 620' 8*-*' ,) ; .' 1 ' ?6-D/*' 620' 0*>1-6,*0' 8 ,)' 0*. 52.' -1?' >/6.. >6/' ? -,)5 7' 6,*-' ,)*' 8*-*' 0*>1-6,*0' 8 ,)' . ?D1/ >' 0*. 52.' 1 ',)*')- ., 62' 6 ,) ' 6.' ,)*')*60' 1 '6' / 12' -*=-*. *2, 25',)*' 1->*' 620' + 5 /62>*' 1 ' 6' 5110' D .)1=' ,)*')*60' 1 ' 6' 015' 2*=-*' .*2, 25') .' + 5 /62>*' 620' 0*/ , ' 1-' 6' 01+*' >2-18 2*0' 8 ,)' 6' 2 ?D ; .' 1+*-',)*' D6>9' 1 ',)*' >)6 - '-*=-*. *2, 25' ,)*' : 1/ ' = - ,' 8) >)' 86.',1' .)*0' / 5),' 2,1') .')*6-,'# ()*' >6,D*0-6.' 1 ',)*' ,)' 620' S,)' >*2, ; - *.' 8*-*' 1 ,*2' 2/6 0' 8 ,)' +1- ' 620' =-*> 1 ; .' .,12*.' 6 ,*-',)*' ., /*' 1 ',)*' /*L620- 62' ?1.6 >.'# 6,*-',)*' 8*-*' - >)/ ' 0*>1-6,*0' 620')*6+ / ' 5 /,'# *- '*6-/ ' 2',)*') .,1 J 1 ',)*') ;->)',)*' 8*-*')*/0' 6.' =-*> 1 ; .' ?*?*2,1*.' 1 ' 6+1- ,*' D .)1=.'# (-60 , 12.' ; 2 81-,) ' 1 ' >-*0 , ' 6-*' 6,,6>)*0',1',)*' -*=; ,*0' >)6 -.' 1 ' ,7*,*-' 2',)*' 6, >62' M 1?*X ' 1 ' ,'# < 6-9' 2' *2 >*' 620' 1 ' ,'# 6 ; /' 2' 6/12 >6'# 2',)*' 46 ; / >') ;->) ' 1-' 6' , ?*' ,)7' D .)1=.' 8*-*' D ; - *0' .*6,*0' 2',)*' -' >)6 -.' 8)*-*' 6 ,*-86-0.',69*2' ;=' 620' =-*.*-+*0' 8 ,)' 5-*6',-*.=*>,% 2',)*' =6 2, 25.' 1 ',)*' 6,6>1?D. ' 2' *6-/ ' ?1.6 >.' 620' ? 2 6, ; -*. ' >6,)*0-6H' 6-*' 1 ,*2' -*=-*.*2,*0' 8 ,)' * ,)*' 6' / ,*-6/' 1-' 5 ; -6, +*' ?*62 25'# ( ) ; . ' 2',)*' 6,6>1?D. ' 6' D .)1=' .' -*=-*.*2,*0' .,-*,>) 25' 1 ; ,') .')620',1' 6' 81?62' 620',1' 6' .)**=' ,) ; .' -*=-*.*2, 25',)*' 6 ; 0 *2>*' 620',)*' /1>9T 2' 621,)*-' ,)*' D .)1=' .')1/0^ 25' ; =7,)*' & 1-0T 410',)*' 6,)*-' .' -*=-*.*2,*0' 12' 6' >6,)*0-6' -*>* + 25',)*' 5 ,.' 1' 6 2' 620' D*/T ,)*' *^ 0**?*-' .' ,) ; .' .*6,*0' -*>* + 25',)*' >-182.' 1 ' 51/0' -1?',)*' .*+*2' */0*-.' \.**' / #/ ; ;')- ., .' .*6,*0' 12' 6' >6,)*0-6' .; --1 ; 20*0' D ' * 5),' ?6-, -.'# (81' >)6 -.' 2',81' 2 >)*. ' 8 ,)' 6',6D/*' D*,8**2C',)*?' D*6- 25',)*' 1=*2' D/*' -*=-*.*2,'6' >1 ; 2> / M 2',)*' 6=^ , .,*- '=' 6+*226X'# 2',)*'>) ; ->)' 1 ' 62,6' < 6- 6'0*/^ /6' < *2,1-*//6' M 2' 6, ; ?'X' .' 6' 81-9' 2' 5 /0*0' D-12[*' -*=-*.*2, 25',)*' ,8*/+*' 6=1../*.' 12' .*6,.T D*,8**2' ,)*?' .' 6' >6,)*0 6' .; ==1-, 25',)*' 1=*2' D/*' 6.',)*' .1 ; ->*' 1 ' 6//' 6 ; ,)1- , T 6D1+*' .' 6' /6?D ' D*6- 25' 6' >-1.' 8 ,)' 6' D622*-' / 6+ 25',)*' 2.>- =, 12' M6 ' ' ' ' 'V6 8 ' " ' ' ' + ' ' ' D ' " %' ' 6' >)6/>*012 ' 2' 1-,*26')6.' 6' >6,)*0-6' 8 ,)' M g '>; ,'12',%C ' 25)6?', !'6 + 'D9'# + '>)'# + ' g %

6,)*0-6/' \.**' ; !' M %X' ()*' >) ; ->)' *0 >*' >12,6 2 25',)*' >6,)*0-6' 1-' D .)1=.' >)6 -' 'T*'# ,)*' D .)1=.' >) ; ->) ' 2' 6' 0 1>*.*' ; .; 6// ' ,)*' /6-5*.' 620' ?1.' ?652 >*2,'>) ; ->)' 2' 6' 0 1>*.*'# ()*' ?10^ *-2' ; .*' 1 ' ,)*' ,*-?' >6,)*0-6/' 6.' 0*. 526, 25',)*' >) ; ->) ' 2' 8) >)' ,)*' D .)1=')6.') .',)-12*' .' >12 2*0' ,12*' 1 ',)*' & *..*-2') ; ->) ' 620' .' =1..*- 1-' ,1' ,)*' ,*2,)' >*2,; - '# 2',)*' 6..' .; >)' >) ; ->)*.' 6-*' >6//*0' ,)*' 5-*6,' >) ; ->) ' ',)*' *= .>1=6/' >) ; ->) ' 1-' . ?=/ ' ,)*' >) ; ->)%

MK%X' (: 'M6OA*>, +*X ' M6X' =*-,6 2 25',1' 6' >6^ ,)*0-6/' 6.' '>6,)*0-6/' .*-+ >*TJ' MSX' 1 >6/' 1-' 6 ; ,)1- ^ ,6, +*' 6.',)*' >6,)*0-6/' 0*,*-? 26, 12' 1 '62' 6-, >/* J

6,)1/ >' &%7O O+)%7O,' 2 ' 620' 1d1>h' ' 8' 6' , ,/*' 5 +*2',1',)*')- ., 62') ; ->)' 12' 6>>1 ; 2,' 1 ' ,.' D* 25' 21,' >12 2*0' M/ 9*',)*' B*8 .)X',1' 12*' =*1=/*' D ; ,' *?D-6> 25' ?*?D*-.' 1 ; ,' 1 '*+*-' 26^ , 12'# ' .' ' " ') ; ->)' .' M 2' 12*' 1 ' ,.' .*2.*.X'*?^ =/1 *0',1' . 52 ' 6/')- ., 62.' 8)1' 6-*' `?*?D*-.' M12*' 1 ' 621,)*- ' 620' 8)1' >1?=1.*',)*' D10 ' 1 ' ,' 62.' 1' D ;)>)*1 >*' 1 '=-1 *..1-.' 2' ; 2 +*-. , *.' 1-' 1,)*-') 5)' .>)11/.' 1 '/*6-2 25'# ()*' 25/ .)' 81-0' " ' .' ; .*0' 2',)*' .6?*' 86 %

2',)*' *6-/ ')- ., 62') ;->)',)*' ,*-?' >6,)*0-6' 86.' 6==/ *0',1',)*' .*6,.' D .)1=.' 620' =-*.D ,*-.' 1>>;^ = *0' 0 ; - 25' 0 + 2*' .*-+ >*' 2' .; >)'-11?.' 6.')- ., 62.' 8*-*' =*-? ,,*0',1' 6..*?D/*' 2' D* 1-*',)*' 8*-*' 6//18^ *0',1' D ; /0' >) ;->)*.'# 2' ?62 ' 1 ',)*' >- =,.' 2',)*' 6,6>1?D ' 6,' 1?*' 620' */.*8)*-*' 6-*' .*6,.' >; ' 2',)*' -1>9. ' .; ==1.*0',1')6+*' D** ',) ; .' ; .*0'# 6,*-' 8)*2 >) ; ->)' *0 >*.' 8*-*' *-*>,*0 ',)*' >6,)*0-.*' 8*-*' =/6>*0' 2',)*' ?00/*' 1',)*' .*? > ->; /6-' 6=. .' 6,',)*' *6..*-2' 1-' -*6-' *20' 1 ',)*' >) ; ->) ' 620' 1>>; = *0' D ',)*' >/ -' 2' 1?*' ?62 ' 1',)*' >6,)*0-6*' 8*-*' ,69*2' -1?',)*' =; D/ >' D6,) . ' 620' 8*-*' ,) ; .' 1 ' ?6-D/*' 620' 0*>1-6,*0' 8 ,)' 0*. 52.' -1?' >/6.. >6/' ? -,)5 7' 6,*-' ,)*' 8*-*' 0*>1-6,*0' 8 ,)' . ?D1/ >' 0*. 52.' 1 ',)*')- ., 62' 6 ,) ' 6.' ,)*')*60' 1 '6' / 12' -*=-*. *2, 25',)*' 1->*' 620' + 5 /62>*' 1 ' 6' 5110' D .)1=' ,)*')*60' 1 ' 6' 015' 2*=-*' .*2, 25') .' + 5 /62>*' 620' 0*/ , ' 1-' 6' 01+*' >2-18 2*0' 8 ,)' 6' 2 ?D ; .' 1+*-',)*' D6>9' 1 ',)*' >)6 - '-*=-*. *2, 25' ,)*' : 1/ ' = - ,' 8) >)' 86.',1' .)*0' / 5),' 2,1') .')*6-,'# ()*' >6,D*0-6.' 1 ',)*' ,)' 620' S,)' >*2, ; - *.' 8*-*' 1 ,*2' 2/6 0' 8 ,)' +1- ' 620' =-*> 1 ; .' .,12*.' 6 ,*-',)*' ., /*' 1 ',)*' /*L620- 62' ?1.6 >.'# 6,*-',)*' 8*-*' - >)/ ' 0*>1-6,*0' 620')*6+ / ' 5 /,'# *- '*6-/ ' 2',)*') .,1 J 1 ',)*') ;->)',)*' 8*-*')*/0' 6.' =-*> 1 ; .' ?*?*2,1*.' 1 ' 6+1- ,*' D .)1=.'# (-60 , 12.' ; 2 81-,) ' 1 ' >-*0 , ' 6-*' 6,,6>)*0',1',)*' -*=; ,*0' >)6 -.' 1 ' ,7*,*-' 2',)*' 6, >62' M 1?*X ' 1 ' ,'# < 6-9' 2' *2 >*' 620' 1 ' ,'# 6 ; /' 2' 6/12 >6'# 2',)*' 46 ; / >') ;->) ' 1-' 6' , ?*' ,)7' D .)1=.' 8*-*' D ; - *0' .*6,*0' 2',)*' -' >)6 -.' 8)*-*' 6 ,*-86-0.',69*2' ;=' 620' =-*.*-+*0' 8 ,)' 5-*6',-*.=*>,% 2',)*' =6 2, 25.' 1 ',)*' 6,6>1?D. ' 2' *6-/ ' ?1.6 >.' 620' ? 2 6, ; -*. ' >6,)*0-6H' 6-*' 1 ,*2' -*=-*.*2,*0' 8 ,)' * ,)*' 6' / ,*-6/' 1-' 5 ; -6, +*' ?*62 25'# ( ) ; . ' 2',)*' 6,6>1?D. ' 6' D .)1=' .' -*=-*.*2,*0' .,-*,>) 25' 1 ; ,') .')620',1' 6' 81?62' 620',1' 6' .)**=' ,) ; .' -*=-*.*2, 25',)*' 6 ; 0 *2>*' 620',)*' /1>9T 2' 621,)*-' ,)*' D .)1=' .')1/0^ 25' ; =7,)*' & 1-0T 410',)*' 6,)*-' .' -*=-*.*2,*0' 12' 6' >6,)*0-6' -*>* + 25',)*' 5 ,.' 1' 6 2' 620' D*/T ,)*' *^ 0**?*-' .' ,) ; .' .*6,*0' -*>* + 25',)*' >-182.' 1 ' 51/0' -1?',)*' .*+*2' */0*-.' \.**' / #/ ; ;')- ., .' .*6,*0' 12' 6' >6,)*0-6' .; --1 ; 20*0' D ' * 5),' ?6-, -.'# (81' >)6 -.' 2',81' 2 >)*. ' 8 ,)' 6',6D/*' D*,8**2C',)*?' D*6- 25',)*' 1=*2' D/*' -*=-*.*2,'6' >1 ; 2> / M 2',)*' 6=^ , .,*- '=' 6+*226X'# 2',)*'>) ; ->)' 1 ' 62,6' < 6- 6'0*/^ /6' < *2,1-*//6' M 2' 6, ; ?'X' .' 6' 81-9' 2' 5 /0*0' D-12[*' -*=-*.*2, 25',)*' ,8*/+*' 6=1../*.' 12' .*6,.T D*,8**2' ,)*?' .' 6' >6,)*0 6' .; ==1-, 25',)*' 1=*2' D/*' 6.',)*' .1 ; ->*' 1 ' 6//' 6 ; ,)1- , T 6D1+*' .' 6' /6?D ' D*6- 25' 6' >-1.' 8 ,)' 6' D622*-' / 6+ 25',)*' 2.>- =, 12' M6 ' ' ' ' 'V6 8 ' " ' ' ' + ' ' ' D ' " %' ' 6' >)6/>*012 ' 2' 1-,*26')6.' 6' >6,)*0-6' 8 ,)' M g '>; ,'12',%C ' 25)6?', !'6 + 'D9'# + '>)'# + ' g %

)- ., 62') ; ->)' -1?' ,) *' B*8 .) ' 8) >)' 86.' 26, 12^ 6/' 8) /*' ,) *')- ., 62' D10 ' 86.' ,1' 2>/ ; 0*' 6// ? 62^ 9 20% I ,' 6' /6,*-' =*- 10' ,' 86.' ; .*0' ,1' 0 ., 25 ; .)' ,A 1.*' 8) 1' 601=,*0' ,) *' .1C>6//*0') *-*. *.V' 8 ,) 2' ,) *')- ., 62') ; ->) ' -1?' ,) *' D10 '1 'D*/ *+*-.' 8) 1') */0' ,) *' ,-; *' 6 ,) ' 620' ,1' 8) 1 ?' 6/12*' 620' ,1' 8) 1.*' D*C / * A' ,) *' ,*-?' >6,) 1/ >J' 86.' 6==/ *0% ( ) *' *6-/ *.,' ; .*.' 1 ',) *' 81-0' M*% 5% 1/ >6-=' \m SSh' 2' 62' *= ../*' =-*.> +*0' 2' ; .*D ; .' # ' 6!' + ' T' /*?*2.' /*L ' \,' KK=B' $ 1' + X' 6-*' 2' ,) *' .*2.*' 1 ',) *' 5*2*-6/ 0 ; . 12' 1 ',) *') ; ->) % ,' .' ; .*0' 2' ,) *' =1. ,/*.' -**0' M.,) -0' >*2, ; - X' 620' 6 ,*-',) *' 601=, 12' 1 ',) *' C >*2*' -**0' ,' D*>6?*' 6' >1? ?12' , ,/*' 1 ',) *') ; ->) M.**' *6-.12 ' , ' + ' ? ' 6-,% L ' 21,*' >X%) // 25C 81-,) ' 2,*-=-*,.' ,) *' : 1/ ' 6,) 1/ >') ; ->) J' 2' ,) *' -**0' ,1' ?*62' ',) *' - 5),',) 6,',) *') ; ->) ' 1 ') - .,' C >*2*' -**0' ,1' ?*62' ',) *' - 5),',) 6,',) *') ; ->) ' 1 ') - .,' 1-' -6,) *-' ,1' .=*69' =-1=*-/ ',) *' 41.=*/ 1 ') - .,') 6,) ,1' D*' ; 2 +*-.6// 'D*/ *+*0% 20',) *-* 1-*' ,) *' 6-, >/*' ?6 'D*' ,-; *7,) 1 ; 5)' ,) *-*' 8*-*' 21') - ., 62') ; ->) ' 2',) *' 81-/01' M) // 2581-,) ' + ' 1/% =% RSX% 6C > 62; .' M % % N KX' 2' 62. 8*-',1' *?=-12 62',) *' 1+6C ,/62 ' 8) 1' 0*?620*0' 1 ') ?' 8) ') - ., 62.' >6//*0' ,) *? .*/*+*.' 6,) 1/ >.' -*=/ *0') - ., 62' .' ? '26?*' 620' 6,) 1/ >' ? ' .; -26?*T' ,) *' 12*' .' ? ', ,/*' ,) *' 1,) *-' ? ' >)6-6A>,*-' 1-' ?6-9' 1 '0 . , 2>, 12J' M>' ,*0' DA' 25) 6?X% /6-9*' M0*?12.' \+1/% +' *0% N H' ' " ' " ' ")8' 5 +*.' ,) *' 1//18 25' ?*62 25.' 1 ',) *' 81-0a' ( ) *7-.,' 620' /6-5*.,' .*2.*' 1 ',) *' ,*-?' 6,) 1^ / >') ; ->) ' .' ,) 6,' 8) >)' 6==*6?' ,1' D*' ,) *' ?1.,' 1D+ ^ 1 ; .' 620' / ,*-6/' ?*62 25' 1 ',) *' 81-0.' 2' ,) *' ,*L,' M : *D% L ' KNX' ' ( ) *' 5*2*-6/ 6..*?D/ '620' >) ; ->) ' 1 ', *' -.,^ D1-2' 8) >)' 6-*' 8 - .,*2 2') *6+*2T' ,) 6,' . ' .) *' 8) 1/*' 2 ; ?D*-' 1 ',) 1.*' 8) 1' .) 6// 26// ' 6,,6 2' ; 2,1' .6/+6^ ,12% $ ' ( ) *' 6,) 1/ >' 1-' $2 +*-.6/) ; ->) ' . 5^ 2 *. ' A2' ,) *' 2*L,' =/6>*' 620' 20**0' ?1-*' -*_ ; *2,/ ' ,) *') - ., 62') ; ->) ' 12/ ' ,) *')- ., 62') ; ->) ' 6.' 0 ., 25 ; .) *0' -1?' ,) 6,' 1 ',) *' B*8 .' 620' =6,- 6->) .' 1 ' 1/0T ,) *') ; ->) ' 1 ') - .,' .=-*60' ; 2 +*-.6// ' -1?' 1 ; -' 6+ 1 ; - .' 06 .' 1+*-' 6// ,) *' P+1-/0' 2' >12,-60 ., 2>, 12' ,1' ,) *' B*8 .) ') ; ->) ' 8) >)' 86.' =6-, > ; /6-/ ' >12 2*0' ,1' 12** 26, 12' 1-' =*1=/% -" ( ) *' 6,) 1/ >') ; ->) ' . 52 *.' +*- ' -*_ ; *2,/ ' 2' 6' ., // ?1-*' =6-, > ; /6-' 620' -*.,-6 2*0' .*2.*' ,) 6,' =6-,' 1 ',) *' $2 +*-.6/) ; ->) ' 1 ')- .,' 8) >)' 2' ,) *' =-*.*2,' 65*' .' 218' / + 25' ; =12' *6-,) ' 6.' 0 ., 25 ; .) *0' -1?' ,) 1.*' 8) >)') 6+*' D**2' D* 1-*' 620' .) 6// >1?*' 6 ,*-% @ " ' ' ( ) *' ,*-?' 6,) 1/ >') ; ->) ' . 52 *.' 2' ,) *' /6.,' =/6>*' 620' ?1.,' -*_ ; *2,/ ' 1 ' 6// ' ,) 6,' =6-,' 1 ',) *' $2 +*-.6/) ; ->) ' 1') - .,' 8) >)' 2' ,) *' =-*.*2,' 5*2*-6, 12' .' + . D/*' ; =12' *6-,) ' 2' 62' 1 ; ,86-0' =-1 *.. 12' 1 ',) *' D*^ / * '1 ',) *' 51.=*/.' 620' 2' 6' + . D/*' *L,*-26/ >1? ? ; ^ 2 12' 1 ',) *' & 1-0' 620' .6>-6? *2,.%J' *6-.12' I6! % A' I 2 ' '" ' &% (6-,% LX' *L=/6 2.',) *' >6,) ^ 1/ > , '1 ',) *') ; ->) '6.'>12. ., 25' 5*2*-6// ' 2' ' ; 2 C +*-.6/ ,EW ;' *? D-6> 25' 6// .1-,.' 1 '=*-.12. ' 6.' ,1' D* 0 ..*? 26,*0',) -1 ; 5)' 6//' 26, 12. ' 6.' >1? =-*) *20 25' 6// 65*. '6.' >12,6 2 25' 6// 2*>*..6- '620' .6+ 25',-; ,) . ' 6.' 1D/ 5 25' 6// ?*2' ,1' 6// 9 20%.' 1 'D*0 *2>*7 2.' > ; - 25' 6// 0 .*6.*.' 620' =/62, 25' 6// 5-6>*.' 2' ,) *' .1; /.' 1 ' ?*2%J K' ( ) *' 1?62') ; ->) ' 6--1562,/E I' >/6 ?.' ,) *' 26?*' 6,) 1/ >' 6.' *L>/ ; . +*/ ') *-' 182' 620' 0*. 526,*.' 6// 8) 1' 01' 21,' D*/125' ,1') *-' >1? ? ; 2 12' 6.') *-*, >.' 620' .>) . ?6, >.% ' .' D60' *21 ; 5)' 2' ,) *') ; ->) ' 1 ' 1?*' ,1' ?69*' ,) . ' >/6 ?' 1 ',) *' , /*' 6,) 1/ >TJ' , ' .' ., // 81-.*' 1-' -1,*.,62,.',1' >12>*0*' ,% ( ) *' -*. ; /,' 1 ',) . ' >12>*.. 12' 2' ?1.,' -1,*.,62,' >1 ; 2,- *.' .' ,) 6,' >1?^ ?12' =*1=/*') 6+*' -*6// '21' >12>*=, 12' 1 ',) *' ,-; *' ;.*' 1 ',) *' 81-0' 6,) 1/ >% ( ) *' 81-0.' 6= ., J' 6=6/ J' ' 1?62 ., J' 1-*C6//=-1=*-/ '6==/ >6D/*' ,1' ,) *') ; ->) ' 1 ' 1?*' 620' ?=/ '21' 1 *2. +*' ?*62 25' 6.' ,) *' '6-*' 6// /*5 , ?6,*/ ' 0*- +*0% ,' 6// *+*2,. ' ,) *' 81-0' 1?62J' .) 1 ; /0' 6/86 .' D*' =-* L*0' ,1' 6,) 1/ >' J' ',) *' /6,,*-' ,*-?' D*' ; .*0' 6.' =6-,' 1 ',) *' , /*' 1 ',) *') ; ->) ' 1 ' 1?*% ( ) *-*' .' 6' .,-625*' *2>) 62, ?*2,' 2' 81-0.' 8) >) 'D*25' M6/,) 1 ; 5)' 8 ,) ' 21' 5-*6,' >1/1-' 1 '-*6.12X' 6.. ; ?*0' 01' 81-9' 12' ,) *' 62> *.' 1 ' ?*2 ' *.^ =*> 6// ' 1 ',) *' 8*69*-' .1-,% ',) *.*' =18*-' 01,) ' *+*-' 6--156,*' ,1' ,.*/ ' . ; >)' 6.' 6-*' ?1.,' 1=*-6, +*' D ' ,) *' -' 1->*' . ; .,6 2 25' 620' *L,*20 25' ,.*/ % 1'0 +*-.' =-*+^ 6/*2,' 6>, 12.' 0 0' 6. . ; ?*' ,1' ,) *-?.*/+*.' ,) *' 26?*' 1 ' 6,) 1/ >' 620' ,) *' 1?62') ; ->) ' =6-, >; /6-/ ') 6,) ' 6==-1=- 6,*0' ,) 6,' 81-0' ,1' ,.*/ ' *+*2' .1' 6.' ,1' >1?? ,' 6' D ; // ' ?=/ 25' 1?*' 620' ,) *' ; 2 +*-.*' ,1' D*' ,) *' .6?*' =/6>*' T 620' ,) *' =*-=*, ; 6/ >62, 25' 1 ' ,) .' ,*-?') 6,) ' D**2' 12*' 1 ',) *' ?1.,' * *>, ; 6/ >) 6-?.' ,1' 8 *69' =*1=/* ' 6?' 6' 6,) 1/ >' ,) 6,' . ' 6' ; 2 +*-.6/T ,) *-* 1-*' 6// ') 1/0' .' , - ; *T ' ,) .' .' ,) * -' 5-*6, 6-5 ; ?*2, J' M 6--18 ' , ' " ' % (' $ % :' + ' ' % *O% ' K X% ( ) *') ; ->) ' 1 ' 8) >)' 1?*' 86.' .1' /125' ,) *' >*2, -*' .' 21,' 6,) 1/ >' D ; ,' 6, 2T A ; . ,%6.' ,) *') ; ->) ' 1 ' 8) >)' 12., 62, 21=/*' 86.' ,) *' >*2, -*' .' 21,' 6,) 1/ >' D ; ,' 4-**9% ( ) *-*' .' 20**0' 6' 6,) 1/ >' 1-' $2 +*-.6/) ; ->) ' 620' ,) *-* 1-*' 6' ; 2 +*-.6/) - ., 62 , % ; ,' ,1' 6. . *-,' ,) 6,' ,) *' ; 2 , ' ?=/ *0' 2' ,/ *' >12A ; 2>, 12' 1 ' ,) *. *' ,*-?.' . ' 620' ?=. ,' D*' 6' ' ; 2 , ' . ' 2' 6' 81-0' ,1' 5 +*' ,) *' / *' ,1' 6//) ; ->) ') . ,1-E 7 D1,) ' 4-**9' 620' 6, 2' -1?' 6' 06, 6' 6/ ?1.,' ?*?*0 6,*/ ' .*, ; *2,' 12' ,) *' 6=1. ,1/ >' 65*% 20' 2*,) *-' 4-**9' 21-' 6, 2' 21-' (*; ,12 >') - ., 62 , ' 21-' 6// ' 1 ',) *?' ,15*,) *-' >62' D*' + ') - ., 62 , ' 62 ' ?1-*',) 72' 6' =6-,' 1 '62 ^ ,) 25' >62' D*' *_ ; 6/ ,1',) *' 8) 1/*J' > ! '5 9 ' =- / ' Q _ ' =% X% .) 1=' /.12' 2') .' - ' ' * ' ' " = '$ * ' '2 " '5 'M Q X' . ; ?.' ; =' ,) *' -*6.12.' 1-' 0*2 25' >6,) 1/ > ,A76.' 6' 21,*' 1 ',) *' 1^ ?62') ; ->) '6.' 1//18.' M 2' 0 6/15 ; *' 1-?Xa ' " ' M 1?62 .,Xa &) 6,'12*' =1 2,'1 '1 ; -'-*/ 5 12' .' 21,' >6,) ^ 1/ >'H -" %" ' M 25/ >62Xa 1' 12*' =1 2,' 1 ',) 6, ' 8) >)' ,) .' -*6/?') 6,) ' -* ; .*0' .' ,-; / ' >6,) 1/ >% 1 ; -') 6+ 25' 620' 601- 25' 1 ' ?65*.' 2' ,) *' >) ; ->) ' T 71; -' = ; D/ >' .*-+ >*' 2' 6' ,125 ; *' 21,' ; 20*-.,110' 1 ',) *' =*1^ =/*' T 71; -' 56 [25' 12' ,) *' =- *.,' 8) /*') *' 6/12*' *6,*,) ' 620' 0- 29*,) ' 6,' ,) *' 1-0 .' ,6D/*' T A71; -' 6D-- 25' ,) *' =*1=/*' -1?' ,) *' 1-0 .' > ; =T' A71; -' .6>- > 25' ,) *' 12' 1 ' 410' ,1') .' 6,) *-' 1-' ,) *' . 2.' 1 ' ,) *' 81-/0T 1 ; -' 601- 25' ,) *' */*?*2,.' 1 ' D-*60' 620' 8 2*' 8 ,) ' X + 2*') 121-' 2.,*60' 1 ') - .' T 1 ; -' .*+*2' .6>-6?*2,.' 1 ; -' .) - .T 1 ; -' -*/*6. 25' .1 ; /.' 1 ; ,' 1 '=; -56,1 7'7D '=-6A7C *-.' 620' =6-012.T A71; -' >1?=*// 25' =- *.,' ,1' / +*' . 2^ 5/*' T 1 ; -' ?*- ,1- 1 ; .' +18 25' 620' =*- 1-? 25' = /5- ?C 65*.T 1 ; -' 2+1>6, 12' 1 ' .6 2,.' 0*=6-,*0T A 1 ; -' -; /*.' 1 '=*- *>, 12' 1-' ?129.' 620' - 6-.T 1 ; -' -*/A025' 12' ,) *' 1=*' 6.'D*60' 1 ',) *') ; ->) ' 620' + >6-C5*2*-6/ ; 2,1')- .,',) *.*' 8 ,) ' 2 2 ,*' 1,) *-' .; =*-.,, 12.' 2' 6>^ ,12' 620' *--1-.' 2' 01>,- 2*' 8*' 0*2 ' ,1') 6+*' 62 ' 1 ; 206, 12' 2' ,) *' >-=, ; -*. ' 1-' >12 -?6, 12' 2' ,) *' 5*2*-6/ >12.*2,' 1-' ; .*' 1 ',) *' 6,) 1/ >') ; ->) %J 2' 6>, ' 1-' -1,*.,62,.',1' >12>*0*' ,1' 1?62 .,H' ,) *' ,/*' 6,) 1/ >.J' .' *_ ; +6/*2,',1' 6>9218/*05 25',) *?^ .*/+*.') *-*, >.% ( ) .' >12>*.. 12' ?6 'D*') 6-?/*.' 620' 221>*2,' *21 ; 5)' 6.' 6-' 6.' -1,*.,62,.' 6-*' >12>*-2^ *0 'D ; ,' .' ?1.,' =*-2 > 1 ; .',1',) 1.*',1' 8) 1?*') *', ,/*' .%>12>*0*0% < *2' 6,' 6// , ?*.') 6+*' 62' 2>/ 26, 12',1' ,-; .,' 2' 26?*.' 620' =- + /*5*. ' 620' 21,) 25') 6.' =-1+*07' 1-' 8 // =-D+*' 6' 5-*6,*-' 1D..6>/*',1' =-15-*..' 2') - .^ , 62',-; ,) ',) 62',) .' **/ 25' 1 'D* 25' =1..*..*0' 1 ' *L^ >/ ; . +*' =- + /*5*. ' 1 'D* 25' *L>/ ; . +*/ ') 6,) 1/ >. ' %'% ?*?D*-.' 1 ',) *' 6,) 1/ >') ; ->) ' 1 ',) 6,') 1/ '>1?? ; ^ 2 , ',) 6,' ? ; .,' .*>; -*' 6' .=*> 6/ .) 6-*' 1 '0 + 2*' 6+1-' ,1' *+*-E' ?*?D*-' 1 ',%J ' 25) 6?', !'6 (! 9% ' N X' ,,12' -" ' " ' D9% ' =,% ' >)% L ' g N% %c*6' (: ', ,/*' 1 '6' =-*/6,*% ** ' ! 6,) 1/ >' =1. ,1/ >') ; ->) ' ,) *' 26?*' 1 ' 6' D10E' 1 ')- ., 62.' 8) >)%) 6.') 60' 6' .*=6-6,*' 1-562 [6^ , 12' 1-' 1?*8) 6,' ?1-*' ,) 62' ,) -, ' *6-.% ( ) *' 1/^ /18 25' 6-, >/*' .' -1?' 6' ?*?D*-' 1 ',) *' D10 %

=-6 ' ?6 ')6+*' / D*-, ' ,1' *L=-*..' ,) * -' 0*. -*.' :2,1' 410' 620' 1-' ,)*' *L*-> .*' 1 ' .= - ,;6/' 5 ,. ' 2' 8) >)' *+*- ' 12*' ' '*+*2' 81?*2' 620' >) /0-*2 ' ?6 ' */0' ,)*?.*/+*.',1' .=*69' 2' ,)*' =18*-' 1 ',)*' : 1/ ' 4)1.,% *-?12.' 6->' =-*6>)*0' 12' ;206 .' 620' 6,' 6==1 2,*0' , ?*.'0 ;- 25',)*' 8**9 ' '- .,;6/' .' ;.*0'>12..-:>,*0' 12',)*' =- 2> =/*' 1 '56,)*- 25' 2'712*' 6// ,)6,' .' ?1.,' +6/;6D/*' 2' 7*' 81-.) =' 1 ',)*' 8)1,*');->)% ()*' ? 2 .,*-.' 8*6-' +*.,?*2,.' 2',)*' =;D/ >' .*-+ >*.' 620' / 5),.' 620' 2>*2.*' 6-*' ;.*0' 1-',)*-'. ?D1/>6/')6-^ 6>,*-% ()*' 62> *2,' 1-0 262>*' 1-' 6211 2, 25',)*' .>9' 8 ,)' 1 /' .'-*.,1-*0',1' ,.'- 5),';.*' 620' 1-',)*'-*/*' 1 '=*2 ,*2,.',)*-*' .',)*' -,*' 1 '=- +6,*' >12 *.. 12' 620' 6D.1/;, 12 'D;,' 8) >)' .' 21,' >1?=;/.1-A7' 21-' 1-' ,)*' *L,1-, 12' 1 '.*>-*,.% ()*' 'D*/ '+*' ,)6,',)*' *20' 1',)*' 0 .=*2.6, 12' .' -6= 0/ '6==-16>) 25' 620',)6,',)*' 1D0' A*"7' 620' 6 ?' 1 '6//' ,)*.*' ? 2 .,- *.' 620' .= - ,;6/' 5 ,.' 620' *>>/*. 6., >6/' .*-+ >*.' .',1' ?69*' -*60 ' 6' =*1=/*' 1-' ,)*' 1-0% ()*-*' 6-*' 21' =;D/ .)*0' .,6, ., >.' 1 ',) .' D10 ' D;,' ,)*-*' 6-*' >);->)*.' 2' ?62 ' 1 ',)*' =- 2> =6/' > , .*.' 1 ' 25/620' M.*+*2' 2' 12012X' 620' >1,/620' 2' ;D/ 2' 620' *' 6.,' 2' 6- .'620'6' *8' 1,)*-' =/6>*.' 2' -62>*' 2' 6./*' 620' *-2*' 620' 1,)*-' ,182.' 2' 8 ,[*-/620' 2' *-/ 2' 620' ?62 ' 1,)*-' =/6>*.' 2' 1-,)' 4*-?62 ' 620' 6' 2;?D*-' 1 ' .?6//*-' >125-*56, 12.' 2' : 1//620' 620' */5 ;?' 620' 1-,)' ?*- >6% ' & % & % %

(1',)*' 6D1+*' 6>>1;2,' ,' .' =-1=*-' ,1' 600',)6, ' 2',)*' A;05?*2,' 1 ',)*')- ., 62');->)' 5*2*-6// ',)*' 0 .^ , 2>, +*' 01>,- 2*.' 1 ',)*' 6,)1/ >' =1.,1/ >');->)' 6-*' -*56-0*0' 6.' *--12*1;.' 620' ,.' =1/ , '620';.65*.' 6.'-*C 6>, 126-E ' 620' 1==1.*0',1',)*',-;*' 0*+*/1=?*2,' 1 ',)*');->)% % & ' ' 1 ' ()*' % %);->)' .' *.=*> 6// ' 0 ., 25; .)*0' D ' ,.' 01>,- 2*I' 6.' ,1' .= - ,;6/' 5 ,.% 9*',)*' <12,62 .,.' 1 ',)*' .*>120' >*2,;- ',)*A'7119' ;=12',)*.*' 6=1.,1/ >' 5 ,.' 620' 1 >*.' 6.0,)*' 2*>*..6- ' >120, 12.' 1 ' 6')*6/,) ' .,6,*' 1 ',)*');->)' 6,' 62 ' , ?*' ?69*',)* -' 0 .6==*6-62>*',)*' 6;/,' 1 ')- ., 62^ , ' 620')1/0' ,' ?=1.. D/*' ,1' -*?*0 ',)*' 0* *>,.' 1 ' ,)*');->)' 8 ,)1;,' 6' -*+ +6/' 1 ',)*' >)6- .?.' 620',)*' 6=1.,1/6,*% ()* ' 6==*6/' ,1' .;>)' =6..65*.' 6.' ' 1-% L ' K CN T' =)% +' C N' 8)*-*' ;20;*' *?=)6. .' .' /6 0' 12' ', //6 2 0',1' ()*..% ' R' K T' ' 1-' L ' N T' L +' ' 8)*-*',)*' 6=1.,/*' 21,' 12/' 86-2.')- ., 62.' 656 2.,'_;*2>) 25',)*')1/ ' -*' 1 ',)*' = - ,'D;,' 6/.1' =1. , +*/ ' -*_; -*.' ,)*?',1' .,- +*' *6-2*.,/ ' 6 ,*-' : .' ? -6>;/1;.' 5' .,% ()*-*' .**?.',1';.',1'D*')*-*' 6' ? L^ ,;-*' 1 ',-;,)'620'*--1-'12'D1,)'.0*.% 2',)*.*'>)6-.?.' 8*' ?;.,'0 .,25; .)'D*,8**2',)*'*..*2>*' 620',)*',*?^ =1-6-' 1-?% ()*' -.,' .'=*-?62*2,T ,)6'.*>120')6.' 0 .6==*6-*0' *,' D-*69.' 1=,' 6,' ,?*.' .=1-60 >6// ',)1;5)' 21,' 8 ,)' ,)*' .6?*' .,-*25,)' 620'=;- ,' 6.' 2' ,)*' 6=1.,1/ >' =*- 10% 2',)*' 26,;-*' 1 ',)*' >6.*',)*' : 1/ ' 4)1.,' 8)*2' -.,' *2,*- 25' 2,1');?62 , ' >6?*' 8 ,)' =*>;/ 6-' >-*6, +*' =18*-' >1= 1;.2*..' 620' -*.)^ 2*..'T =-*.*2,*0' 6' .,- 9 25' >12,-6.',1',)*' ?6..' 1 ',)*' ;2>)- ., 62' 81-/0T 620'D ',) .'+*-A'*L) D ,12' 1 '8)6, 86.' *L,-61-0 26- '620' ? -6>;/1;.' *L*-,*0' 6' ? 5),' 6,-6>, 12' ;=12',)*' 81-/0' 8 ,)1;,' 8) >)' ,' 2*+*-' *1;/0')6+*' D**2' >12_;*-*0%)- ., 62 , ')18*+*-' 6 ?.',1' 2>1-=1-6,*')*-.*/' 2',)*'/ *' 1 ');?62 , '*2^ ,*-' 2,1'6//' ,.'>120 , 12.'620'.=)*-*.' 1 '6>, + , '6.',)*' ;-;/25'=- 2> =/*'620',) ;.',1'D*>1?*',)*' .*>120') 5)*-' 26,;-*% .' ,'-6 .*.',)*' 26,;-6/' ?1-*' 620' ?1-*' 2,1' ,)*'.=)*-*'1',)*' = - ,' .1' 2',) .'+*- '=-1>*..' ,'?69*.' ,)*' .;=*-26,;-6/' ?1-*' 620' ?1-*' 26,;-6/% ()*.*' 6-*' D;,'81' 6.=*>,.' 1 '12*' 620',)*'*6?*' 1=*-6, 12% >^ >1-0 25/ ' 8*' 20',)6,'6.' 6.,'6.',)*' -* 52 25' =18*-' 1 ')*6,)*2 .?' .'D-19*2',)1.*')6-.?.'8)>)'*L) D ,^ *0' ?1..'1',)*' ? -6>;/1;.' D*>1?*'/*..' -*_;*2,' 620' 6 ,*-',)*' 1;-,)' >*2,;-' 6/?1.,' *2, -*/ ' 0 .6==*6-% ()*.' .' 21,'1W+25,1'6' 6;/,'1 ')- ., 62 , ' 1-'6,',)6, ', ?*',)*')>)-6.;-)' =-10;>*0' .1?*' 1 ')*-' 5-*6,*.', ,*6>)*-.'),*-' ,)626. ;.' 620')*-' ?D-1.*')*-')- ^ .1.,1?'620')*-' ;5;.,2*% ,' .'-6,)*-'6'-*.;/,'1 ' ,.

+ >,1- '1+*-',)*' 81-/0% = - ,;6/' 5 ,.')18*+*-'0 0' 21,',)*2' ;// '620' 1-*+*-' 0 .6==*6-' 1-' 2',?*.' 1 ' 5-*6,' 6869*2 25' 620' 1',)*' =18*-;/ 0*.>*2,' 1',)*' = - ,' 2',)*' >-*6, +*' *=1>).' 1 ',)*');->)' 8*' 218' 620',)*2' 1D.*-+*' =),21?*26'_;,*' . ? /6-',1',)1.*' 1 ',)*' -.,'>*2,;-A7' 6/125' 8 ,)',)*' >1--*.=120 25' 0625*-.' 620' 6D;.*.' 620'*+*2',6,62 >' ?,6, 12.'620'>6- >6,;-*.% ()*.*' ?62 *.,6, 12.',)*2' 5-60;6// ' >*6.*' 656 2'6>^ >1-0 25',1',)*' /68' 1 ',)*' 0*+*/1=?*2,' 1 '6' 2*8' =- 2> ^ =/*' 6.'A;.,'.,6,*0% ;>)' 6>,.' 1 '*L=*- *2>*' 2 6 ' .*-+*' ,1' >12 -?' 620' //;.,-6,*',)*' =)*21?*26' 1',)*' 6=1.^ ,1/ >' 65*% 2'A;05 25' 1 ',)*?' ?1-*1+*-'=6-, >;/6-/' 1 ',)*' ?6..'1'/*5*20.'1 ',)*' 1?62');->)' 8) >)'.,//6A.' >/6 ?',1',)*' =*-=*,;6/' =1..*.. 12' 1',),' 5 ,' 1' ? -6>/*.' 8*' ?;.,' =-1>**0' 8 ,)',)*' 5-*6,*.,' >6;, 12' 620' >-, >6/' 0 .>- ? 26, 12% 2'+*8' 1 ',)*' 1+*-+6/;^ 6, 12' 1 '>)6-.?.'D ',)*' <12,62 .,.' 620' -+ 25 ,*.' 81' ?;.,' 2*+*-' 1-5*,',)6,' 6;/' =;,.',)1.*' 8)>)' ?1.,' .);2' -**' 2.=*>, 12' 620' ?1.,'-6-*/ ' 6==*6-' 6.',)*' 5 ,' 1',125;*.' 6-' D*2*6,)',)*' 1,)*-.' 8)>)' =*-,6 2' ,1',)*'-*5;/6-'+ ,6/' 6>, 12' 1',)*');->)' 620' 6-*' 6,' 6//' ?*6.;-*' 6.',)*' 5 ,.' 1 '8 .01?' 1 '9218/*05*' 1 ',*6>) 25' 1 ',-A 25'.=-,.' 1 '51+*-2?*2,' 620' 6D1+*' 6//' 1 '/1+*',)6,' 5-*6,*.,' ?1..'+6/;6D/*' ?1.,' ;.* ;/' 620' ?1.,' *20;-25' 1 '6//' ,)*' -; ,.' I1',)*' = - ,J' M >)6 ' &* ' " " R' E' K% ()*-' 81-.) =' .' 6/?1.,' 8)1// '1 ;,' 1 ',)*/ 2*' 1 ' -1,*.,62,' 0*+*/1=?*2,' 620' **/ 25% ()*-';.*' 1 ' 2^ >*2.*' 620' 1 '/ 5),.' 12',)*' 6/,6-T%,)*-' =-*.,/ '+*.,^ ?*2,.' 6/D' 5 -0/*' .,1/*' >)6.;D/*' -1>)*,' *.>% ' 8 ,)',)*'=1?=' 1 ',)*-' 81-.) =' D*/125' 2*,)*-',1',)*' =- ?^ ,+*' 65*' 12',)*' 12*')620' 21-',1',)*' * 1-?*0');->)' 12',)*' 1,)*-% 3 1-' 6' ;//*-' 6>>1;2,'D ',)*' 6;,)1-' 1 ',)*' 6-, >/*.' 5 +*2' 6D1+*' M,)*' +%& &% 20-*8.X'.**' ; " ' C 6>-6'B62;6 ' Q4S'=% Q._% **6/.1' >)6 ' 2',)*' ' " ') " +1/% T 6 "' ; "!' L ' K KT' ()*-.>)' M:%&%'B%X'< ' " ') " ' " ' M -/625%' NQ Q M K'+1/.%XT' ()*-.>)' ' ') + ' &% !' . ' M Q K' Q+1X' ' 5 ' 1% '6-,% T ' ' ' ' ' ' &!' " "' M % ' Q M XT' f % &% 20-*8.' - ' ' ' "' M % % Q XT' B6>1D ' " ' ' Q NT' ? ,) .' :65*2D6>)' 2 ' ' ' ' ' ' T 6L,*-' D ' '5 ' ' ' 'h$ ' M 120% QNSX' 1.,/ 2' 2' :*-[15.'5 6 + % ' M ?% *0% ' QXT' 'D ((' %" 'B;/ ' QSS' 6-,% T' <62-A' 2' 5 ' ' ' ' *=,% Q NT' 620',)*' 6-, >/*.' & 'T'? ! 6,)1/ >' = .,/*.% ()*' >6212 >6/ *= .,/*.' 1 ' B6?*.' *,*-' 620' B;0*' 620',)*' -.' 1 'B1)2' 6-*' .1' >6//*0' D*>6;.*',/ *A' 6-*' 21,' 600-*..*0',1' 62 ' =6-, >;^ /6-% 20 + 0;6/' 1-' >);->)' D;,' ,1')- ., 62.' 2' 5*2*-6/' M ;>*-' -" !' 6 ! ' X% :;5'5 +*.',)*' 1//18 25'+*8d 7)>2',)*' 41.=*/.' 620' >,.' 1 ',)*' =1.,/*.' >12.,;,*0' 12*' =*>;/ 6-'0 + .^ 12',)*' 81-9.' 1 ' 6;/ 6/.1' 621,)*-',)*-*' .,// -*?6 2^ *0' 8-, 25.' 1 '0 *-*2,' 6;,)1-.' 8)>)' ?5),' /9*8 .*' 1-?' 6' >1//*>, 12' 1 ',)*?.*/+*W',1' 8)>)' 6' 26?*' ?;.,' D*' 5 +*2% ,' ?5),' ?1.,' 6=,/ ')*' >6//*0' " ' ') E) ' % '1',)*' 6=1.,/*.' 620',)*' ,-*6, .*.' >12,6 2*0' 2' ,') ' 620' 8)>) 6-*' >1?? 12/ ';.*0' D ',)*' 4-*9.' 6.' . 212 ?.% 1-',) .' 8*' 20' 6'=-11 '*+*2' 2',)*' ?1.,' 62> *2,'*>>/*. 6.^ ,>6/'625;65*% /*?*2.' /*L620-2;.'>6//.',)*' *= .^ ,/*' 8)>)' 86.' 0 .=6,>)*0' D ',)*' 6..*?D/ '1',)*' 6=1.^ ,/*.' M >,.' d ' KNX',)*' >6,)1/ >' *= .,/*' I' 6.' ,)6,' 2' 8)>)' ',)*' 6=1.,/*.')6 0' 6' ..)6-*' " U-: O8'),O)*' - ' (&H J E ' - N! :*2>*' 1;-' .*+*2' *= .,/*.' 6-*' >6,)1/ >' 1-' *= .,/*.' 1 ' ',)*' 6=1.^ ,/*.' 8)1' 6-*' 6;,)1-.J' I1 ! ' % -!' g' S X' 3' 1' 6/.1' >))1-2' **' :1?*' ' =,% >)% - g' % *>' >/ ' /

6,)1/ >' *65;*% **') $!

2 . 1' ! " #$' G '' 2+' * +'/ ;+ '* -+,

Constantine, to his procurator, or vicar-general (after the organization of dioceses under imperial law), whose duty it was to see that all imperial rescripts were duly carried out. So in a letter from Constantine to Eusebius (preserved in Socrates, *Hist. Eccles.* i, 9), the emperor says: "Letters have been sent to the διοικήσεως καθόλικόν, that he may provide all things necessary," etc. See Suicer, *Thes. Eccles.* s. v.

(2.) The official title of certain of the Oriental prelates, especially of the patriarchs of the Armenian Church. He is appointed head of that part of the church over which his jurisdiction extends; he only can ordain bishops and consecrate the sacred oil. The dignity of Catholicos is inferior to that of patriarch, but superior to that of metropolitan. There are three dignitaries bearing the title in the Armenian Church at present—the Catholicos of Etchmiadzin, the Catholicos of Aghtamar, the Catholicos of Sis.—Coleman, *Ancient Christianity*, ch. xxvii, § 2. See Armenian Church.

Cathu'ä (Καθουά), one of the family heads of the "servants of the Temple" (Nethinim) that returned from Babylon (1 Esdr. v, 30); apparently the Giddel (q. v.) of the Heb. texts (Ezra ii, 47; Neh. vii, 49).

Catlin, Jacob, D. D., a Congregational minister, was born at Hauvinton, Conn., March, 1758, and graduated at Yale, 1784. He became pastor in New Marlborough, Mass., July 4, 1787, was made D.D. by Yale in 1822, and died April 12, 1826. He published a work on theology, *What is Truth?* (1818); a volume, *Sermons collected* (1797); and a *Discourse before a Free-mason's Lodge* (1796).—Sprague, *Annals*, ii, 260.

Cattenburgh, Adrien Van, an Arminian or Remonstrant theologian, born at Rotterdam Nov. 2, 1664, and filled the professorship of theology at Amsterdam for twenty-five years. He was intimately connected with Philip Limborch. He died in 1736, leaving (1.) *Spicilegium Theologiæ Christianæ Philippi a Limborch* (Amst. 1726, 2 vols. fol.):—(2.) *Bibliotheca Scriptorum Remonstrantium* (Amst. 1727, 8vo):—(3.) *Syntagma Sapientiæ Mosaicæ* (ibid. 1737, 4to), against Atheists and Deists. He also wrote a life of Grotius in Dutch.—Hoefer, *Nour. Biog. Générale*, ix, 226.

Cattle (the representative in various passages in the A. V. of the Heb. words בְּהֵמָה, *behemah'*, a large *quadruped* in general, usually "beast" [see Behemoth]; in Num. xx, 4, and Psa. lxxviii, 48, בְּעִיר, *beir'*, grazing *animals*, elsewhere "beast;" so the Gr. βοσκήματα, as being *fed*, 2 Macc. xii, 11, or θρέμματα, from being *reared*, John iv, 12; most frequently and characteristically מִקְנָה, *mikneh'*, a *possession*, as sometimes rendered—from the fact that Oriental wealth ["substance," Job i, 3, 10] largely consisted in this kind of property; like the Gr. κτήνη, as being *possessed*, 1 Macc. xii, 23; also idiomatically, שֶׂה, *seh*, Gen. xxx, 32; Isa. vii, 25; xliii, 23; Ezek. xxxiv, 17, 20, 22, an individual *sheep* or *lamb*, as elsewhere rendered; or צֹאן, *tson*, Gen. xxx, 39, 40, 41, 42, 43; xxxi, 8, 10, 12, 41, 43; Eccles. ii, 7, *sheep* collectively or a *flock*, as rendered elsewhere), in scriptural usage, embraces the tame quadrupeds employed by mankind for domestic purposes, as oxen, buffaloes, horses, sheep, goats, camels, and asses (Gen. i, 25; xiii, 2; xxxii, 13-17; Ezek. xii, 29; xxxiv, 19; Num. xx, 19; xxxii, 16; Psa. l, 10). See each of these in their alphabetical place.

The Holy Land was eminently distinguished for its abundance of cattle, to the management and rearing of which the inhabitants, from the earliest times, chiefly applied themselves, as indeed they have always constituted the principal and almost only possession of a nomade race. In this case, wealthy people were exposed to all the vicissitudes of the seasons (Gen. xxxi, 40). Moses was a shepherd during his exile, Shamgar was taken from the herd to be a judge in Israel, and Gideon from his threshing-floor (Judg. vi, 11), as were Jair and Jephthah from the keeping of sheep; Saul and David might also be mentioned. Some of the prophets were called from that employment to the prophetic dignity, as Elisha was from the plough (1 Kings xix, 19), and Amos from being a herdsman. But the tending of flocks was not confined to the men. Rachel, the daughter of Laban, kept her father's sheep (Gen. xxix, 9), and Zipporah and her six sisters had the care of their father Jethro's flocks, who was a prince or priest of Midian (Exod. ii, 16). The following account is translated from Winer, *Realw.* ii, 331, 394, 732. See Herd; Flock.

Bull of Palestine.

I. *Neat Cattle.*—These are designated collectively by the Heb. term בָּקָר, *bakar'*; single animals of this kind are called אֶלֶף, *alluph'*, an "ox," or שׁוֹר, *shor* (Chald. תּוֹר, *tor*), a "bullock;" the calves are styled עֵגֶל, *e'gel*, often a *yearling*—fem. עֶגְלָה, *eglah'*, a "heifer" (also a young cow, even when broken to the yoke, Judg. xiv, 18; Hos. x, 11); when grown, but still in full youthful vigor, פָּר, *par*, a *steer*—fem. פָּרָה, *parah'*, a *heifer* (*juvencus, juvenca;* comp. Varro, *Res Rust.* ii, 5, 8). The nomadic Abrahamidæ (like the Homeric chiefs, see Feith, *Antiq. Hom.* p. 405) already practiced the raising of cattle (Gen. xii, 16; xviii, 7; xxiv, 35; xxxii, 5; xxxiv, 28; comp. xiii 5), and when they emigrated into Egypt still carried it on (Exod. x, 9, 24; xii, 32 sq.). In later times, also, this was a principal pursuit of the Israelites, especially in several districts of Palestine (Deut. viii, 13; xii, 21; 1 Sam. xi, 5; xii, 3; 2 Sam. xii, 2; Psa. cxliv, 14; Jer. iii, 24; v, 11; Judith viii, 6, etc.). The oxen are there somewhat small, with short horns, and a bunch of fat on the shoulders (Hasselquist, *Travels*, p. 180; comp. Shaw, *Travels*, p. 150). The finest herds and strongest bullocks were found in Bashan, beyond Jordan (Num. xxxii, 4); hence the Bashanite steers are often put metaphorically for formidable enemies (Psa. xxii, 13), while Bashanite cows are a symbol of stately women (Amos i, 4). In the district west of the Jordan, the plain of Sharon, extending to the Mediterranean Sea, afforded the finest pastures (Isa. lxv, 10; see Jerome in loc.). Even the kings had their herdsmen (1 Chron. xxviii, 29). There was great demand for neat cattle; many hundreds were yearly slaughtered in sacrifice (and these were animals of the finest quality, as among other nations, see Herod. ii, 41; Xenoph. *Cyrop.* viii, 31; Varro, *Res Rust.* ii, 5, 11; Pliny, viii, 10, etc.), others were employed for food or festive occasions (Deut. xii, 21; 2 Sam. xii, 4; Tobit viii, 21; Matt. xxiii, 4), as then generally beef (1 Sam. xiv, 32; 1 Kings xix, 21; comp. iv, 23; Neh. v, 18), and still oftener veal was a feast to the Israelites (Gen. xviii, 7; 1 Sam. xxviii, 24; Amos vi, 4; Luke xv, 23, 27, 30), it being anciently regarded as an act of wanton prodigality to slay useful agricultural beasts (compare Apollon. Rhod. ii, 655 sq.) in order to enjoy their flesh (Ælian, *Var. Hist.* v, 14; *Anim.* xii, 34; Varro, *R. R.* ii, 5, 6; Pliny, *Hist. Nat.* viii, 70; Valer. Max. viii, 1; Cic. *Nat. Deor.* ii, 65). See Food. The milk was used either sweet or curdled, and was made also into cheese. See Milk; Cheese; Butter. Cattle

were yoked to the plough (Deut. xxii, 10; 1 Kings xix, 19 sq.; Isa. xxx, 24; Amos vi, 12; Job i, 14; comp. Judg. xiv, 18; Josephus, *Ant.* xii, 4, 6), likewise for draught (Num. vii, 3, 7; 1 Sam. vi, 7; 2 Sam. vi, 3, 6), and were sometimes employed for burdens (1 Chron. xii, 40; comp. Ælian, *Anim.* vii, 4), but especially for threshing (comp. *Baba Mezia*, vi, 4; *Chelim*, xvi, 7). See AGRICULTURE. They were driven (Judg. iii, 31; 1 Sam. xiii, 21; compare Sirach xxxviii, 25; Acts ix, 5) with a pointed stick (מַלְמָד, *malmad'*, or דָּרְבָּן, *dorban'*; κέντρον or βούκεντρον, also βουπλήξ in *Iliad*, vi, 135, Lat. *stimulus* [comp. *Schol.* ad Pindar, *Pyth.* ii, 173]), an instrument employed also for horses (Ovid, *Metam.* ii, 127; see Schöttgen, *De stimulo boum*, Frcf. a V. 1717). See GOAD. During summer cattle ranged under the open sky. In the stalls (2 Chron. xxxii, 28) their fodder (Prov. xiv, 4; Luke xiii, 15) was placed in a crib (אֵבוּס, *ebus'*; φάτνη). Besides fresh grass and meadow-plants (Dan. iv, 29; Num. xxii, 4), meslin (בָּלִיל, *belil'*, Job vi, 5; Isa. xxx, 24; תֶּבֶן, *te'ben*, Isa. xi, 7) is mentioned as provender of cattle, a mixed food, like the Roman *farrago* (Gesenius, *Thesaur.* p. 212). That salt (to gratify the appetite) was added may be inferred from Isa. xxx, 24 (see Gesenius in loc.). See SALT. Cattle were greatly annoyed by insects, and perhaps the קֶרֶץ, *ke'rets* (A. V. "destruction"), of Jer. xlvi, 20, indicates some sort of such noxious creature, namely, the gadfly or *œstrus* (see Hitzig in loc.; otherwise Gesenius in loc.). See BEEVE.

In the Mosaic law the following enactments relate especially to oxen: 1. The mouth of the threshing-cattle was not to be bound so as to prevent their eating the provender spread under them (compare Burckhardt, *Proverbs*, p. 67). See MUZZLE. Hence the term "threshing oxen" sometimes stands for *fat* or well-conditioned animals (Jer. l, 11; see Rosenmüller in loc.). 2. Whoever stole and then sold or slaughtered an ox must give five oxen in satisfaction (Exod. xxii, 1); but if the animal was found alive in the possession of the thief, he was merely required to make double restitution (Exod. xxii, 4). See THEFT. 3. Whoever met an ox that had fallen or strayed was under obligation immediately to help it up and bring it back to the owner (Exod. xxiii, 4; Deut. xxii, 1, 4), an injunction the more needful in a country not only thinly inhabited, but intersected by many desert tracts. See PALESTINE. 4. An ox and an ass must not be yoked together to the plough (Deut. xxii, 10). This prohibition is evidently akin to those relating to heterogeneous combinations, although Michaelis (*Mos. Recht*, iii, 149) gives it another interpretation. See DIVERSE. Respecting unruly cattle (Exod. xxi, 28 sq.), see DAMAGES. It was considered unmerciful to take the only beast of a widow in pawn (Job xxiv, 3). See DEBT. On the subject generally, see Bochart, *Hieroz.* i, 268 sq.; Ugolino, *De Re Rust. Hebr.* (in his *Thesaur.* xix), ii, 9 sq. For the symbolical worship of the young bull, see CALF, GOLDEN. Compare BEAST.

II. *Small Cattle*: 1. *Sheep.*—These are designated collectively by צֹאן, *tson* (a general term, like μῆλον and *pecus*, including also goats), singly by שֶׂה, *seh*; while רָחֵל, *rachel'*, means *ewe*; אַיִל, *a'yil*, *wether* (Chald. דְּכַר, *dekar'*); כַּר, *kar*, a fat pasture *lamb*; כֶּבֶשׂ, *ke'bes*, a lamb of one to three years (comp. Gesen. *Thes.* p. 659); טָלֶה, *taleh'* (or טָלֵא, *teli'*), a suckling or *milk-lamb*; מִשְׁנִים, *mishnim'* ("fatlings," 1 Sam. xv, 9), is an obscure term, possibly signifying *two-year-old* lambs (*oves secundarias*, Columella, *Res Rust.* vii, 3; comp. Bochart, *Hieroz.* i, 469). Next to neat herds, sheep formed the most important staple of Oriental nomadic pursuits in Aramæa (Gen. xxix, xxx) and Palestine (Gen. xii, 16; xiii, 5; xx, 14; xxi, 27; xxiv, 35; xxxii, 5; xxxiv, 28), as in Egypt (Gen. xlvii, 17; Exod. ix, 3), Arabia Petræa and Deserta (Exod. ii, 16, 19; iii, 1; Num. xxxi, 32; Isa. xxxiv, 6; lx, 7), and Moabitis (2 Kings, iii, 4; Isa. xvi, 1). In military feuds between such tribes, we always find sheep mentioned among the booty of the victors (Num. xxxi, 32; Jos. vi, 21; 1 Sam. xiv, 32; xv, 3 sq.; xxvii, 9; 1 Chron. v, 21, etc.). The same is still universally true of modern Bedouin Arabs, whose traffic in sheep (comp. Ezek. xxvi, 21) is their leading

Syrian Sheep (*Ovis Laticaudata*).

mark of prosperity and even opulence (comp. Arvieux, iii, 132). The patriarchs had large flocks of sheep in Palestine, as later in Egypt or Goshen (Exod. x, 9, 24; compare Hengstenberg, *Pent.* p. 5 sq.); also upon the occupation of Canaan by the Israelites, sheep-breeding continued to be the chief employment of a large part of the population down to the latest period, being carried on amid the numerous open tracts and hills of the country (Isa. vii, 25), many of which were productive of saline plants (comp. Deut. vii, 13; viii, 13; xxviii, 4; Judg. vi, 4; 1 Sam. xxii, 19; 2 Sam. xii, 2; Prov. xxvii, 23; Eccl. ii, 7; Jer. iii, 24; v, 17; Hos. v, 6; Joel i, 18; Judith viii, 6, etc.). There were rich owners of flocks (1 Sam. xxv, 2; 2 Sam. xii, 2; comp. Job i, 3; xlii, 12), and even kings had their shepherds (1 Chron. xxvii, 31; Amos vii, 1; compare 2 Chron. xxxii, 28), from whom they derived a revenue of sheep and wool as presents (2 Sam. xvii, 29; 1 Chron. xii, 40) or tribute (2 Kings iii, 4; Isa. xvi, 1). Among the regions most favorable for sheep-rearing are mentioned the plain of Sharon (Isa. lxv, 10), Mt. Carmel (Mic. vii, 14), Bashan (Ezek. xxxix), and Gilead (Mic. l. c.). The sheep in the patriarchal age were tended oftentimes by the daughters of the owners (Gen. xxix, 9; compare Exod. ii, 16); later by overseers or hired men (John x, 12); sometimes by the sons of the family (1 Sam. xvi, 11; xvii, 15). See SHEPHERD. The keepers gave their sheep, especially the bell-wethers, regular names (John x, 3; compare Theocr. v, 102 sq.; Aristot. *Anim.* vi, 16; Longin. *Pastor.* v, 17 and 19), and familiarized these animals with their voice so as to follow them (comp. 2 Sam. xii, 2). The sheep roamed all summer in the open air, being folded only at night (Num. xxxii, 16; 2 Chron. xxxii, 28) in a pen (גְּדֵרָה, *gederah'*; Talmud, דּוֹר), where, in exposed positions, they were guarded by sentries (Luke ii, 8). In the daytime they appear to have been sometimes sheltered from the heat of the sun in caverns (חֳרָמִים, Zeph. ii, 6; which, however, according to others, signifies only *pits*, i. e. cisterns for watering the sheep). Shepherds' dogs were indispensable (Job xxx, 1). Of the young, which sheep bear twice a year, the autumn lambs were considered the more vigorous (Varro, *Res Rust.* ii, 2, 18; Colum. *R. R.* vii, 3; Pliny, viii, 72; comp. Hamaker, *Miscell. Phœnic.* p. 117 sq.). The flesh of the sheep, especially that of wethers and lambs,

was, as with modern Arabs (Wellsted, *Trav.* p. 121), a highly esteemed food (1 Sam. xxv, 18; Isa. xxii, 13; Amos vi, 4; Tobit vii, 9; viii, 21), and was essential to a well-spread board (1 Kings iv, 23; Neh. v, 18). The milk of sheep was also an article of culinary use (Deut. xxxii, 14; comp. Diod. Sic. i, 18; Pliny xxviii, 33; Strabo, xvii, 825; Colum. *R. R.* vii, 2; Dioscor. ii, 75). Sheep, especially lambs and rams (q. v.), were a prominent animal in sacrifices (q. v.), and a stock of them was often sacrilegiously offered for sale in the Jewish temple (John ii, 14). The wool (צֶמֶר, *tse'mer*, or גֵּז, *gez*), which, on account of the pasturing of the flock under the open sky, attained a high degree of fineness (as in Spain), was wrought into garments (Lev. xiii, 47; Deut. xxii, 11; Ezek. xxxiv, 3; Job xxxi, 20; Prov. xxvii, 26; xxxi, 13), and the Israelites were obliged to pay tithes of this product (Deut. xviii, 4). Sheep-shearing (Gen. xxxviii, 12) was a rural festive occasion (1 Sam. xxv, 4; 2 Sam. xiii, 23). As enemies of the shepherd are named the lion (Mic. v, 7), the bear (1 Sam. xvii, 34), and the wolf (Sirach xiii, 21; Matt. x, 16; John x, 12; comp. Isa. xi, 6; lxv, 25), which might easily carry off a single animal in the extensive and solitary pastures, although even this was often rescued by the sheep-tender (1 Sam. xvii, 34 sq.). See LION. The sheep were very liable also to stray in the wide pasturages (Psa. cix, 176; Isa. liii, 6; Hos. iv, 16; Matt. xviii, 12). On the "rot," or disease peculiar to flocks, see Bochart, i, 596; Aristot. *Anim.* ix, 3. The color of sheep is in the East generally white (Psa. cxlvii, 16; Isa. i, 18; Dan. vii, 9; Cant. vi, 5; Rev. i, 14; comp. Ezek. xxvii, 18); although black (חוּם, *dusky*, Gen. xxx, 32) ones are also found (Colum. *R. R.* vii, 2; Pliny, viii, 73; comp. Wellsted, i, 213; Ruppell, *Abyssin.* ii, 21), as well as spotted and grizzled (Gen. xxx, 32), peculiarities which shepherds knew how to produce artificially (Gen. xxx, 37 sq.; Strabo, x, 449; Pliny, xxxi, 9; comp. Rosselini, *Monum. Civil.* i, 246). See JACOB. A peculiar species of sheep (*Ovis laticaudata*, Linn.) is found in the East, with a long fat tail (אַלְיָה, *al'yah'*, Arab. *alyat*, A. V. "rump;" Lev. iii, 9; vii, 3; viii, 25; ix, 19) of 10 to 15, and sometimes 40 to 50 pounds' weight, turned up at the end, and often drawn by the animal upon a board or small two-wheeled cart (Herod. iii, 113; Aristot. *Anim.* viii, 28; Pliny, viii, 75; Diod. Sic. ii, 54; Ælian, *Anim.* iii, 3; x, 4; Olear. *Persian.* v, 8; Kämpfer, *Amoen.* p. 506 sq.; Lucas, *Reise nach d. Levante*, p. 183; Russel, *Aleppo*, ii, 8; *Descript. de l'Egypte*, xxiii, 197 sq.; Oedman, *Samml.* iv, 75 sq.; comp. Korte, *Reise*, p. 429; Robinson, *Res.* ii, 169, 180; Schubert, iii, 118). That the same contrivance was customary with the Jews may be seen from the Mishna (*Shabb.* v, 4). This kind of sheep is farther distinguished from the common species of the Bedouins by its turned-up nose, and long, pendent ears. On the Mosaic enactments respecting the rights of property in sheep (Exod. xxii; Deut. xxii), see above. Compare generally Bochart, *Hieroz.* i, 451 sq.; Michaelis, *Verm. Schrift.* i, 118 sq. In Dan. viii the Persian empire (king) is personified by a ram. See PERSIA. On this figure (which represents the subjects as a flock), see Lengerke, *Daniel*, p. 365 sq. Compare SHEEP.

2. *Goats.*—This kind of stock is usually classed with sheep under the word צֹאן, *tson*, or (when a single head is intended) שֶׂה, *seh*, and thus associated with neat cattle, בָּקָר, *bakar'* (as in Hom. *μῆλα*, then *βόες*). The terms for goats individually are: יָעֵל, *ez*, a *he-goat*; שְׂעִירַת עִזִּים, *seirath' izzim'* (shaggy female of the goats), a *she-goat*; for the buck, more distinctively, there are several terms: תַּיִשׁ, *ta'yish*; עַתּוּד, *attud'*; שָׂעִיר, *saïr'* (more fully שָׂעִיר עִזִּים, *seïr' izzim'*, i. e. shaggy male of the goats); צְפִיר, *tseph'ir'*; גְּדִי, *gedi'*, is a collective term. Goats were reared by the early patriarchs (Gen. xv, 9; xxxii, 14; xxxvii, 31), as by the modern Bedouins; and in later times they also formed an important element (in all the hilly regions of Palestine) of agricultural wealth

Goat of Palestine (*Capra Mambrica*).

(comp. 1 Sam. xxv, 2; Cant. vi, 5; Prov. xxvii, 26; see Ezek. xxvii, 21). They were used not only for sacrifice, but also for food (Deut. xiv, 4; comp. Buckingham, ii, 67; Robinson, i, 342; Wellsted, p. 406), especially the young males (Gen. xxvii, 9, 14, 17; Judg. vi, 19; xiii, 15; 1 Sam. xvi, 20), as still in the East (Russel, *Aleppo*, ii, 23). The milk of goats was also an article of food (Prov. xxvii, 27), being more wholesome than that of sheep (Pliny, xxviii, 33; comp. Bochart, *Hieroz.* i, 717; Prosp. Alpin. *Res Ægypt.* p. 229). Goat-skins were only employed as clothing by poor persons, or such as chose to wear mean apparel (Heb. xi, 37). They were generally made into water or wine casks. See BOTTLE. Goat's hair was often the material of tent-cloth (Exod. xxvi, 7; xxxvi, 14; comp. Della Valle, *Trav.* i, 206; Arvieux, iii, 226; Volney, i, 303; Thevenot, iii, 196), as well as of matresses and bedding (1 Sam. xix, 13, 16; but see on this passage Kolkar, *Quæst. Bibl. spec.* ii, 56 sq.), and frequently of cloaks (Robinson, i, 279). See TENT; BOLSTER; CLOTHING. The goats of the nomadic Arabs are generally black; but in Syria (Russel, ut sup.; Thevenot, ii, 196; Russegger, i, 712) and Lower Egypt (Sonini, i, 329) there are found goats of a large size, like the European, with hanging ears (often a foot or more in length), and of a bright red color: this species is called *Capra Mambrica*. Whether the Angora goat (*Capra Angorensis* of Linn.) (see Hasselquist, p. 285; Tournefort, iii, 488; Schubert, i, 379), whose long, soft, silky hair is made into the well-known "camlet" stuff, was also indigenous to Palestine (Schulz, *Leit.* v, 28, will have it found on Lebanon), is undetermined; it is possibly that referred to in Cant. vi, 5. On the Mosaic enactment respecting the cooking of a kid in its mother's milk (Exod. xxiii, 19; xxxiv, 26; Deut. xiv, 21), see KID. The symbol of the Macedonian (Alexander's) empire by a he-goat (צְפִיר הָעִזִּים) in Dan. viii, 5 sq., may be illustrated by the epithet Ægean (Αἰγαῖος, q. d. goat-men), applied to the Greek colonies on that part of the Mediterranean Sea (comp. Justin. vii, 1, 7). See MACEDONIA. See generally Bochart, *Hieroz.* i, 703. On the Syrian wild goats, see IBEX. Comp. GOAT.

Caul (יוֹתֶרֶת, *yothe'reth*, properly a *redundant* part, i. e. *flap*, Exod. xxix, 13, 22; Levit. iii, 4, 10, 15; iv, 9; vii, 4; viii, 16, 25; ix, 10, 19) is, according to the Septuagint and Vulgate, the *great lobe of the liver*; the margin of our version says, "It seemeth by anatomy and the Hebrew doctors to be the *midriff*." The word might be rendered the lobe over the liver, although it makes a part of the liver itself, and this appears to be more applicable than the net over the liver, termed the lesser *omentum*. See LIVER. In Hos. xiii, 8, the Heb. word rendered "caul" of the heart is סְגוֹר (*segor'*, literally *enclosed*), and means the *pericardium*, or parte about the heart.

The term translated "cauls" in Isa. iii,18 (שְׁבִיסִים, *shebisim'*, literally *netings*, Sept. ἐμπλόκια) was perhaps a cap of network worn by females. The caps of network in the accompanying wood-cut are from a

Ancient Assyrian Hair-nets.

relief in the British Museum, representing singers and harpists welcoming Sennacherib on his return from conquest. Fig. 1 has the hair curiously arranged, but perhaps not in a caul. There is also in the British Museum a real cap of network for the hair, from Thebes, the meshes of which are very fine. See HEADDRESS. As to the true meaning in this passage, the versions give but little assistance. The Sept. renders ἐμπλόκια "plaited work," to which κοσύμβους, "fringes," appears to have been added originally as a gloss, and afterwards to have crept into the text. Aquila has τελαμῶνας, "belts." The Targum merely adopts the Hebrew word without translating it, and the Syriac and Arabic vaguely render it "their ornaments." It occurs but once, and its root is not elsewhere found in Hebrew. The Rabbinical commentators connect it with שֶׁבֶץ, *shibbets'*, rendered "embroider" in Exod. xxviii, 39, but properly "to work in squares, make checker-work." So Kimchi (*Lex.* s. v.) explains *shebisim* as "the name of garments wrought in checker-work." Rashi says they are "a kind of network to adorn the head." Abarbanel is more full; he describes them as "head-dresses made of silk or gold thread, with which the women bound their heads about, and they were of checker-work." The word occurs again in the Mishna (*Kelim*, xxviii, 10), but nothing can possibly be inferred from the passage itself, and the explanations of the commentators do not throw much light upon it. It there appears to be used as part of a network worn as a head-dress by women. Bartenora says it was "a figure which they made upon the network for ornament, standing in front of it, and going round from one ear to the other." Schroeder (*De Vest. Mul.* cap. ii) conjectured that they were medallions worn on the necklace, and identified them with the Arab *shomaiseh*, the diminutive of *shams*, the sun, which is applied to denote the sun-shaped orna-

Modern Egyptian Lady with the *Safa* and Turban.

ments worn by Arab women about their necks. But to this Gesenius very properly objects (*Jesa.* i, 209), as well as to the explanation of Jahn (*Archäol.* I, ii, 2, 139), who renders the word "gauze veils" (Smith, s. v.). Others understand golden ornaments appended to braids of the hair behind (see Kitto's *Daily Illustration* in loc.). The hair of Oriental women is usually divided into a number of braids or tresses, which fall down upon the back, and to each of which is added three silken threads, each charged with small ornaments in gold, and terminating in small coins of the same metal (see Kitto, *Pict. Bible* in loc.; Lane, *Mod. Eg.* i, 59, 60; ii, 409, 410). See ORNAMENT.

Causeway (מְסִלָּה, *mesillah'*), a raised way (1 Chron. xxvi, 16, 18), or stairs of wood ("terrace," 2 Chron. ix, 11). In these passages it apparently refers to an ascent by steps, or a raised slope between Zion and the Temple, which in subsequent times was replaced by the bridge. In 2 Chron. ix, 4, it is called עֲלִיָּה (*aliyah'*), an "ascent." In most of the passages where it occurs, the former word signifies any public road, and is translated "highway."

Caussin, NICHOLAS, a French Roman Catholic divine, was born at Troyes, in Champagne, in 1583, and was received in the order of the Jesuits in 1607. He taught rhetoric for a time in different colleges, and Richelieu made him confessor to Louis XIII. He died July 2, 1651. His principal work is *Cour Sainte* (5 vols. 12mo, *The Holy Court*, transl. by Sir Thomas Hawkins, Lond. 1663, fol.). It had great success from the style of its biographies and its fervid devotion. Fuller has adopted much of its style in his *Holy and Profane State*. Part of it was translated into Latin, under the title *Aula Impia Herodis* (Col. 1644, 8vo). He published also *De eloquentia sacra et humana*, libri xvi (7th edit. Lugd. 1651, 4to); *Symbolica Ægyptiorum sapientia, nunc post varias editiones denuo edita* (Par. 1647, 4to).—Hoefer, *Nouv. Biog. Générale*, ix, 262.

Cavalier or **Cavallier,** JEAN, one of the chief leaders of the Camisards (q. v.), was born in 1679, at Ribaute, near Alaix, in Languedoc. He was a Protestant, and in the persecution of 1701 he fled to Geneva. When the insurrection in the Cévennes broke out in 1702 he joined the insurgents, and soon rose to command. With incredible skill and success he kept up the warfare until 1704, when he made a treaty with Marshal Villars. He then became a colonel in the king's service, and was even introduced at Versailles. Afterwards feeling himself to be an object of suspicion, he escaped, and subsequently went to Great Britain. Here he published his *Mémoires*, which were translated into English (Dublin, 1726, 8vo). After having commanded a regiment of Huguenot refugees at the battle of Almanza, he died, governor of Jersey, in 1740.—Smedley, *Hist. of the Reform. Rel. in France*, vol. iii, chap. xxv; Hoefer, *Nouv. Biog. Générale*, ix, 279. See CAMISARDS.

Cavallieri, GIOVANNI MICHELE, an Augustine monk of Lombardy, born at Bergamo about the end of the 17th century. He died in 1757, leaving behind him as a monument of learning and industry a work entitled *Opera omnia liturgica* (Aug. Vind. 1764, 5 vols. folio), containing a vast mass of information in the shape of commentaries on the decrees of the "Sacred Congregation of Rites" at Rome.—Hoefer, *Nouv. Biog. Générale*, ix, 284; *Biog. Univ.* tom. iii, p. 443.

Cavalry. See HORSE; CHARIOT.

Cavasilas. See CABASILAS.

Cave, properly מְעָרָה, *meärah'* (everywhere so rendered, except "den" in Isa. xxxii, 14; Jer. vii, 11; "Mearah" [q. v.], in Josh. xiii, 4); σπήλαιον ("den," except in John xi, 38); occasionally חֹר, *chor* (literally a "hole," as generally rendered; hence a *cavern*, Job xxx, 6, etc.; whence the name HORITE, i.e. *troglodyte;*

also HAINAN, i. e. *cavernous;* HORONAIM, i. e. *twin caves;* BETH-HORON, i. e. *place in the hollow*), or חֹר, *chur* (also rendered "hole"); once מְחִלָּה, *mechillah'*, Isa. ii, 19. Grottoes seem also to be indirectly denoted by the terms חַגְוֵי, *chagwim'* (*refuges* in the rocks, "clefts," Cant. ii, 14; Jer. xlix, 16; Obad. 3), and מְנָהֲרָה, *minharah'* (a *fissure* through which a stream flows, "den," Judg. vi, 2); both of which are combined in the Greek term ὀπή ("cave," Heb. xi, 38; "place" of water, James iii, 11). See DEN.

1. *As natural Features.*—The geological formation of Syria is highly favorable to the production of caves. It consists chiefly of limestone, in different degrees of density, and abounds with subterranean rivulets. The springs issuing from limestone generally contain carbonate of lime, and most of them yield a large quantity of free carbonic acid upon exposure to the air. To the erosive effect upon limestone rocks of water charged with this acid the formation of caves is chiefly to be ascribed (*Enc. Metropol.* art. Geology, p. 692, 693). Many of these have also been artificially enlarged and adapted to various purposes both of shelter and defence (Page, *Text-Book of Geology*, p. 141; Kitto, *Phys. Geogr. of Pal.* p. 72). This circumstance has also given occasion to the use of so large a number of words as are employed in the Scriptures to denote caves, holes, and fissures, some of them giving names to the towns and places and their neighborhood (Gen. xiv, 6; xxxvi, 21; Deut. ii, 12; Job xxx, 6; comp. Strabo, i, 42; xvi, 775, 776; see Burckhardt, *Syria*, 410; Robinson, ii, 424; Stanley, *Sinai and Palest.* Append. § 68–71). The *subordinate* strata of Syria, sandstone, chalk, basalt, natron, etc. favor the formation of caves; consequently the whole region abounds with subterranean hollows of different dimensions. Some of them are of immense extent; these are noticed by Strabo, who speaks of a cavern near Damascus capable of holding 4000 men (xvi, p. 1096, edit. 1707). This cavern is shown to the present day. Modern travels abound with descriptions of the caves of Syria. The Crusade writers record the local traditions respecting them current in their times (William of Tyre; Quaresmius, *Elucid. Ter. Sanc.*). Tavernier (*Voyage de Perse*, part ii, chap. iv) speaks of a grotto between Aleppo and Bir which would hold near 3000 horse. Maundrell has described a large cavern under a high rocky mountain, in the vicinity of Sidon, containing 200 smaller caverns (*Travels*, p. 158, 159). Shaw mentions the numerous dens, holes, and caves in the mountains on the sea-coast, extending through a long range on each side of Joppa. An innumerable multitude of excavations are found in the rocks and valleys round Wady Musa, which were probably formed at first as sepulchres, but afterwards inhabited, like the tombs of Thebes (Robinson's *Researches*, ii, 529). Other excavations occur at Deir Dubbân (ii, 353); others in the Wady leading to Santa Hanneh (ii, 395). "In the mountains of Kûl'at Ibn Ma'an, the natural caverns have been *united* by passages cut in the rocks, in order to render them more commodious habitations. In the midst of these caverns several cisterns have been built; the whole would afford refuge for 600 men" (Burckhardt's *Travels*, p. 331). Almost all the habitations at Om-keis (Gadara) are caves (Burckhardt, p. 273). An extensive system of caves exists between Bethlehem and Hebron (Irby and Mangles, p. 103).

2. *Scriptural Notices.*—(1.) The first mention of a cave in Scripture relates to that into which Lot and his two daughters retired from Zoar, after the destruction of Sodom and Gomorrah (Gen. xix, 30). It was some cavern in the mountains of Moab, but tradition has not fixed upon any of the numerous hollows in that region. See ZOAR.

(2.) The next is the cave of Machpelah, in the field of Ephron, which Abraham purchased of the sons of Heth (Gen. xxv, 9, 10). There Abraham buried Sarah, and was himself afterwards buried; there also Isaac, Rebekah, Leah, and Jacob were buried (Gen. xlix, 31; l, 13). The cave of Machpelah is said to be under the Mohammedan mosque at Hebron, surrounded by a high wall called the Haram; but even the Moslems are not allowed to descend into the cavern (Benj. of Tudela, *Early Trav.* p. 86; Stanley, p. 149). The tradition that this is the burial-place of the patriarchs is supported by an immense array of evidence (Robinson, *Researches*, ii, 433–440). See MACHPELAH.

(3.) The situation of the cave at Makkedah, into which the five kings of the Amorites retired upon their defeat by Joshua, and into which their carcasses were ultimately cast, is not known (Josh. x, 16, 27). It is thought by many that the cave of Makkedah can hardly be the one to which tradition has assigned the name (Irby and Mangles, p. 93); for, though it is not necessary to suppose that the cave was close to the town of Makkedah, yet the situation of the great caverns both at Beit Jibrîn and at Deir Dubbân in neither case agrees with that of Makkedah as given by Eusebius, eight miles from Eleutheropolis (Reland, p. 885; Robinson, ii, 352, 397; Stanley, p. 211). See MAKKEDAH.

(4.) The cave of Adullam, to which David retired to avoid the persecutions of Saul (1 Sam. xxii, 1, 2), and in which he cut off the skirt of Saul's robe (1 Sam. xxiv, 4). This, according to tradition, is an immense natural cavern at the Wady Khureitun, which passes below the Frank mountain. The site assigned by Eusebius to Adullam, 10 m. E. of Eleutheropolis, agrees little with that of this cave, which in some respects agrees with the Scripture narrative better than the neighborhood of Deir Dubbân, assigned to it by Mr. Stanley (see 1 Sam. xx, 6, and particularly xxii, 3, 4; Josephus, *Ant.* vi, 12, 3; Reland, p. 549; Irby and Mangles, p. 103; Robinson, ii, 175; Stanley, p. 259). See ADULLAM.

Caves along the Upper Jordan.

(5.) The cave at Engedi, which afforded a retreat to David and his followers (1 Sam. xxiii, 29; xxiv, 1), can be clearly identified. The place is now called 'Ain-Tidy by the Arabs, which means the same as the Hebrew, namely, "The Fountain of the Kid." "On all sides the country is full of caverns, which might serve as lurking-places for David and his men, as they do for outlaws at the present day. The whole scene is drawn to the life" (Robinson,

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N% 2 ' ' ! ' M %X' 6 *.7*-*';.*0'6.' J' % 'D ',)*'*6-/ ' 2)6D ,62,.' 1 ' - 6% ( )*' : 1-,*.' ,)*' 62> *2,' 2)6D ,62,.' 1 ' 0;2 .>6' -1=*-' 8*-*',-15^ /10 ,*.' 1-' 08*//*-.' 2' >6+*.' 6.' ,)* -' 26?*' ?=1-,.% B*-1?*'-*>1-0.',)6,' 2') .', ?*' 0;?-16'1-',)*' 8)1/* .1;,)*-2'-*5 12' -1?' /*;,)*-1=1/ .',1' *,-6'620' /6) ' 86.' ;// 1 ')6D ,6, 12.' 2' >6+*.',)*' 2)6D ,62,.' : . 25' .;D,*--62*62' 08*// 25.' 12' 6>>1;2,' 1 ',)*' 5-*6,')*6, > ' ' ," 3 + ' 4X% ( )*' *L>6+6, 12.' 6,' * -' ;DD62' 620' 12',)*' .1;,)' . 0*' 1 ',)*' 860 '/*60 25',1' 62,6' : 622*) '6-*' =-1D6D/ ' ,/ *' 08*// 25.' 1 ',)*' 62^ > *2,' : 1- ,*.J' M 1D 2.12 ' 'N NX' 620',)*' '6-*' =*>;/^ 6-/ ' 2;?*-1;.' 6-1;20' * ,' B D- 2' M /*;,)*-1=1/ .X' M$' K X% ( )*' >- =,;-*.' 6D1;20' 8 ,)' -* *-*2>*.' ,1')6D ,6, 12.' 2'-1>9.T 6?125'1,)*-.' .**' ;?% LL + 'K T 62,% 7/ T B*-% L$L ' ST' D60% N% +*2'6',)*'=-*.I' 12,', ?*' ?62 '=*-.12./ +*' 2'>6+*.% ( )*' 2)6D ,62,.' 1 ' 26D ' 6',182' 12',)*' *6.,' 1 ',)*' B1-062 '6// / +*' 2' 5-1,1*.' 1-' >6+*.')1//18 *0' 1 ;,' 1 ',)*' -1>9' M ;>9 25^)6?.' - ' ' " '& ' - 1' =% 4/X% 2',)*' 2* 5)D1-)110' 1 ' : *D-12' =*6.62,.' ., // / +*' 2' >6+*.' 620' *.=*> 6// ' 0;- 25' .;?? *-',1' D*' 2*6-',)*' -' /1>9.' M & /9 2.12 .' - 1' ' N NX% 11-' 6? / *.' / +*' 2' >6+*-2.' 2',)*' -1>9.' 8) >)' .**?' 1-?*-/ ',1')6+*' D**2' 2)6D ,*0' 6.' 6' .1-,'1 '+ //65*' 2*6-',)*'-; 2.' 1 ' /' : -A' .1' 6/.1' 6,' /16?' 620' 2',)*' 2* 5)D1-)110' 1 ' 6[6-*,)% 1-' ,)*' -1>9%0 8*// 25.' 620',*?=/*.' 1 ' 0;?6*6 ' .**

MK%X' 6+*.' 6 1-0*0' *L>*/,*2,' ' ' " ' ' ' (!' ( );.',)*' .-6*/ ,*.' M ' 6?% L 'SX' 6-*' .6 0',1')6+*') 0',)*?.*)7*.' 2' >6+*.' 620' 2',) >9*,.' 620' 2' -1>9. '620' 2') 5)'=/6>*.' 620' 2' = ,'M.**' 6/.1'B*-% L/ ' RT' B1.*=);.'& 2!' L ' X% 7*2>>',)*2',1' *2,*-' 2,1',)*'-1>9',1'51' 2,1',)*')1/*.' 1 ',)*'-1>9.' 620' 2,1' ,)*' >6+*.' 1 ',)*' *6-,)J' M .6% ' RX' 81;/0',1',)*' .^ -6*/ ,*.' D*' 6'+*-E'=-1=*-' 620' 6? / 6-' 86 ',1' *L=-*.' ,*--1-'620'>12..,*-26, 12% ;>)' 8*-*' ?1.,'1',)*'>6+*.' 21, >*0' 6D1+*' *.=*> 6// ',)*' .,-125)1/0.' 1 ' 0;//6?' 620' 25*0 %

MS%X' 6, ;-6/' >6+ , *.' 2',)*' -1>9' 8*-*' 620' 6-*' -*^ _;*2,/ ' ;.*0' 1-' 1,)*-'=;-=1.*.' ?1-*' 1-'/*..' 69 2' 8 ,)' ,)*' 6D1+*' .;>)' 6.' .,6//.' 1-')1-.*.' 620' 1-' 5-626- *.' M -DAA 7620' < 625/*.' =% SX% 56 2',)*' = ,.' .=1^ 9*2' 1 ' 2' .1?*' 1 ',)*' 1-*51 25' >- =,;-*' -* *-*2>*.' .**?',1')6+*' >12. .,*0' 1 '/6-5*' ' 2' ',)*' . 0*.' J' 1 ' 8)>)' *L>6+6, 12.' 8*-*' ?60*' /*60 25' 2,1' +6- 1;.' >)6?D*-.% **' ;>)'= ,.' 8*-*' .1?*, ?*.' ;.*0' 5.'% ' M .6% LL + ' KKT' / ' T U**)% L' X% **' ()1.*'8 ,)' " ' 2',)*' . 0*.' 8*-*' *+*-,' 1>>;=*0' 1-' =% ' M [*9% LLL ' KNX% < 62 ' 1 ',)*-*' +6;/,*0' = ,.' -*?6 2',1',) ()*' >6+*' 2' 8) >)' 6[6-;.' 86.' D;- *0' 86.' =1.. D/ ' .1?*,) 25' 1 ',) .' 9 20% 1' ;.*' 20**0' 1 ' -1>9' >6+*-2.' ?1-*

" ' 8 6.' 1-06 2*0' =- *.,' 620' .*,,/*0' 6,' *8*.'! D ;,') .')*6/,)' 6 /*0',)*-* ' 620' 2' Q ')*' D*>6 ? *' ? 2 .,*-' 1 ' ,'' B1)2 . ' *0 1-0' 18 ' 12012' 2' Q ')*' 1D,6 2^ *0',)*' / + 25.' 1 ')1D)6 ?' 620' ./ 6 ? ' ;--* ' 2' Q Q')*' 86.' 6,,6>9*0' D ' 6' =6-6/ , >' ,* [;-*' 620' 86.' >1 ?=*//*0',1' + . ;' / ,12' ()*' A1 ; ? *A' 0 0' 21,' ? ;>) ')18*+*-' ?=-1+*') .')*6/,) ' 620')*' -*, -*0' 2' <6A!' Q R',1' (;2D- 05*' f *//.' : *' 0 *0' ;5 ;.',' Q ' ()*' *L*-, 12.' 1 ' <-' *> / 6.' 6' =-*6>)*-' 8*-*' ?^ ?*2.*' : .',6/*2,.' 8*-*' * ? 2*2,!) .' */1_ ;*2>*' 86.' ?=6.. 12*0' *,' .1/*?2' 620' .1?*, ?*,' 6-5 ; ?*2,6^ , +*' .' 6')- ., 62 ')*' 86.')6D ,;6// ' .= - .,;6// ' ? 20*0!' ?10*.,' 620' ;26. . ; ? 25')*' 2*+*-' 2,-;0*0') .' >6=6> , *.' 12',)*' 6,,*2, 12' 1 ' ?629 20' : *' 86.' >12,*2,*0' 8 ,)' 01 25' 5110' 620' 5*,, 25' 5110!' 620') .' 81-9. ',)1;5)' *8 '6-*' +6/;6D/*' 1-',)*-' .',*-/ 25' .*2.*' 620' 5*2; 2*' = *, J' MB12*.X')*' '6-*' >1//*>,*0' 2') .' + 1' *0 ,*0' D ' -6,,' M 12012' Q ' +1/.' Q+1X' 1 ' 8) >)' +1/' '>12,6 2.' 6' *' 1 ' *> / ' D ' -6,,' 8 ,)' *> 7 .' ' ;' ' 7 ' +1/' ' >12,6 2.' .*-?12.' 620' ? .>*//62*1;.',-6>,.'! +1/' ,') -, C,)-*'*' .*-?12.'! +1/' +' *> / .' D ' 8) >)' 6-*' 6?125' ,)*' ?1.',+6/;6D/*' 8 - , 25.' 12' =6.,1-6/ / *' 620' 81-9 ' 6.' 8*// 6.' 12' +6- 1 ;.' =1 2,.' 1 ' =-6>, >6/ -*/ 5 12 ' 2' ?10*-2', ?*.' ()*-*' .' 6/.1' 62' ?*- >62' *0 , 12' M ' Q ' 1' +1/.' Q+1X' -6,,' ' .' B12*. ' ' ;' %"*1' .' +

> / 6 ' 12' 1 ',)*' .1C>6//*0' .6 2,.' 1 ',)*' 4-**9' 620' 1?62' 6/*206-' .' .6 0',1')6+*' .; *-*0' ?6-, -^ 01?' 2*6-/A76,',)*' .6?*' , ?*' 8 ,)' 6/*- 62') *-') ; .^ D620' (D ;-, ; . ') .' D-1,)*-' 620' <6L ? ; .' 62' 1 >*-' 6D1 ; ,' % ' KN ' ;20*-' /*L620*-' * *-;.' =-1D6D/A' 2' .1?*=1=;/6-' >1? ?1, 12' 620'=*-.*>;, 12' . 2>*' ,)6,' *?=*-1-' 86.' 6+1-6D/ ' 2>/ 2*0',186-0',)*')- ., 62.' ()*' /*5*206- ' 6>>1;2,.' 1 ')*-' 6-*' 21,' 81-,) ' 1 '>-*0^ ,' .)*' .' .6 0',1')6+*' .;25' =-6 .*.' 8 ,)' 2.-,-;^ ?*2,6/ 6>>1?=62 ?*2,' A;.,' D* 1-*')*-' *L*>;, 12' .)*' .' -*56-0*0' 6.' ,)*' .=*> 6/ =6,-12*..' 1 ' >) ;-)' ? ; .>' ,' *7 / 6.' 6 J' .' ., //622;6// '>*/*D-6,*0' 2' 25^ /620' D '6' ?;. >6/' *., +6/' : 620*/ .' <*.. 6) J' 86.' >1?=1.*0' 1-' ,' 1,)' 4 -*7.' 620' 6, 2.' >*/*D-6,*')*-' *., +6/ 12',)*' KK0' 1 ' 1+*?D*-' ' ! .' +

'$ $' 1+' KKT' 62012' 6 !' ' !.' +

71 / 7 ; . ' D .)1=' 1 ' 6-,)65*' M ' N X' *' & '(

06-' M(/7 ' (/' -1?' ,.' %-11,' 1-' % ' 1-?! 4-') 8' 1>>;-.' 2' 2; ?-1; .' =/6>*.' 1 ' >- =^ ,;-*' D ;,' 6 ;,)1-.' 6-*' 21,' 65-**0' 12',)*' *L6>,' ?*62 25' 1 ',)*',*-?' */. ; .' I# " & ' S' .' X' 1-' 2.,62>*' >12>* +*.',)6,' ,' .' 6' 5*2*-6/ 26?*' 1-',)*' =2*,-D*' ,1',)*' *L>/;. 12' 1 ',)*' >*06-' 1 ' *D6212' 8) >)')*' >12. 0* .',1' D*' 20 >6,*0' DA',)*' 81-0' " "' 1-' ' ()*' ?6A1-, '1 '6;,)1-.')18*+*-' 6-*' 1 ' 1= 2 12',)6, 3,)*' >*06-' 1 ' *D6212' I ' 1-' ' 1' D1,62 .,.X .' 6/12*' 2,*20*0' () .' 1= 2 12' .'>12 -?^ *0' D ' ,)*' *=,;65 2,' 620' ;/56,*' 8) >)' ;2 1-?/ ' M6.' 2',)*' 25/ .)'+*-. 12X'-*20*-',)*' 81-0' D ' >> =1 ' 620' 6/.1' D ',)*' 6>,',)6,',)*' -6D >' 26?*' 1-' ,)*' >*06-' 1 ' *D6212' .' 6-[' I*+ 0>2,/ ' >1526,*' 8 ,)' /! ()*' 1//18 25' .,6,*?*2,.' 6-*' >) * /A7>1?=/*0' -1?' ,,1' 620' ? ,) ' +' *' +

' ()*' *6-/ *.,' 21,>*' 1 ',)*' >*06-' .' 2' *+' L +' ' S' 8)*-*' 8*' 6-*',1/0',)6,' <1.*.' >1?2620*0',)*' /*=*-' ,)6,' 86.',1' D*' >/*62.*0',1' ?69*' 62' 1 *- 25' 1 ',81' .=6--18.' >*06-C8110' 811/ 0 *0' 2' .>6-/*,' 620')A .C .1=!' 620' 2'+*-' R ' K',)*')1;.*.' 2' 8) >)',)*'/*=^ *-.' 08*// 6-*0 -*>,*0',1' D*' =;- *0 8 ,)',)*' .6?*' 26^ ,*- 6/.' 56 2' 2' ;?' L H' S' <1.*.' 620' 6-12' 6-*' >1?620*0',1' .6>- >*' 6' -*0')* *-a' 20',)*' =- *.,' %.)6// ,69*' >*06-C8 110' 620')A ..1=' 620' .>6-/*,%J' : *-*' ,)*' =-1=*-' >*06-' >62')6-0/ D*' ?*62,' 6.' ,' 01*.' 21,' 5-18' 2' 5 =,' 620' ,.' 8110' .' .>6->*/ ' 6-1?6, >' ()*' +6- *, ' >6//*0'* % ' .' *+ 0*2,/A7 2,*20*0',)*' &110' 620' D*-- *.' 1 ' 8) >)' 8*-*' 62> *2,/ ' 6==/ *0' ,1' .;>)' =;-=1.*.' ()*' ,*-?' >*06-' .' 6==/ *0' D ' / 2 ' ,1',)*' /*..*-' >*06-' 1' 6')1*2 > 62' A;2 =*- 8) >)' .' ., //' >1?? 12' 12',)*' *D6212' 620' 8)1.*' 8110' .' 6,1?6, >' ()*' 8110' 1-' -;,' 1 ',) .',-**' &6.' 62> *2,/ ' D;-2,' D ' 86A' 1 ' =*- ;?*' *.=*> 6// ' 6,' ;%,' 2*-6/.' M / ? 7VV%' 7!' L ' ' T' + 0 ' @ ' ' Q' T' : 1^ ?*-' , ! S X' ()*',-**' .' >1??12' 2' 5 =,' 620' ;D 6' 620' 6/.1' 2' -6D 6' 2',)*' & ;0A!' <1;.6' 8)*-*' ,)*' 5-*6,*-' >*06-' .' 21,' 1;20' ' .' 1D+ 1;./ ' / 9*/ ' ,)6,',)*' ;.*' 1 ',)*' ?1-*' >1?? 12',-**' .)1;/0')*' *2^ A1 2*0' 8) /*',)*' =*1=/*' 8*-*' ., // 2',)*' 8 /0*-2*.. ' -6,)*-',)62' 1 ',)*' ;2>1??12' M)68 ' - ' =' S' T' ;->9)6-0, ' $ ' =' N T' ;..*// ' 7 ' =' K X' **.

,' 6' /6,*-' =*- 10' 8>')6+*' 21, >*.' 1 ',)*' +6- 1;.' ;.*.' ,1' 8) >)' ,)*' 8110' 1 ',)*' ' 86.' 6=hX/ 10' 6.' K' 6?' T' + ' KC T' ' 25.' + ' ' Q' T' + ' R I ' S' Q K T' + ' K' N KT' L' T' L' K T') -12' L + ' ST' K')-12' ' QT' L' K T' LL + ' Q' 2',)*.* =6..65*.' 8*' 6-*' 2 1-?*0' 1 ',)*' 2*51, 6, 12.' 8 ,)' : -6?' 9 25' 1 ' (A -*' 1-',)*' .;==/A7 1 '>*06-C,-**.' 1 ;',1 ' *D6212' 620' 1 ',)*' ;.*.',1' 8) >)',)*' ,?D*-' 86.' 6==/ *0' 2',)*' >12.,-;>, 12' 1 ',)*' (*?=/*' 620' 1 ',)*' 9 25 .' =6/6>*a')*' '>1+*-*0',)*')1;.*' 8 ,)' D*6?.' 620' D16-0.' 1 ' >>C :' ,)*' 86//.' 1 ',)*')1;.*' 8 ,) 2' 8*-*' >1+*-*0' 8 ,)' D16-0.' 1 ' S((,) 7*' 8*-*' ' = //6-. J' 620 D*6?.' 1 ' P' 620',)*' 6/,6-' 86.' 1 '>*06-' ;' 2' ,)*.*' =6..65*.' 1 ' >- =,;-*' / 9*8 .*' ,)*' >1??12' >*^ 06-' >6221,' 8*//)*' . 52 *0' 6.' ,)*' 8110' .' 2* ,)*-')6-0' 21-' .,-125' *21;5)' 1-' D; /0 25' =;-=1.*.' ,)*-' 9 20-*0' +6- *, *.' 1 ',-**.')18*+*-' 01;D,/*..' *L77,*0' 2',)*' .6?*' /1>6/ ,A' 8 ,)',)*' >*06-' 1 ' *D6212' 8) >)' 8*-*' .;,6D/*' 2',)*.*' -*.=*>,.' 6.' 8*// 6.' 12' 6>>1;2,' 1 ' D*6;, ' 620' 0;-6D / ,E.C' 1-' 6-*) .*>,;-*' *-)6=.' 21,) 25' ?1-*' .' ?*62,' ,)62',)*' % = ' 8) >)' .' 92182',1' A-18' 12' <,' *D6212' 3() .' 1= 2 12' .**?.' ,1' D*' >12 -?*0' D ' [*9' LL + ' a' ()*')6+*' ?60*' 6/' ,' .)=C '16-0.' 1 ' -C,-**.' 1 ' *2 -TI,)*')6+*' ,69*2' ' -1?' *D6212',1' ?69*' ?6.,.' 1-',)*' TJ' 1-' ,' .' 21,'=-1D6D/*',)6,'62E'1,)*-',-**',)62',)*' >1?^ ?12' = 2*' 81;/0' CD*',69*2' 1-' ?6.,.' 8)*2',) .' 86.' =-1>;-6D/*' /.1' 2',)*' -*>120' (*?=/*'.' 6),' ;20*-' U*-2DB76D*/',)*' ,?D*-' *?=/1 *0' 86.' >*06-' -1?' *D^ 6212' M [-6' ' T' ' .0-*' +' QT' + ' X' *06-' .' 6/.1' .6 0' D 'B1.>=);b ' ,1')6+*' D**2' ;.*0' D ' : *-10' 2',)*' -11 '1 ') .',*?AA/*' M(6-'+' KX' ()*' -11 '1 ',)*' -1^ ,;206' 1 ',)*' >) ;->)' 1 ',)*' : 1/ ' *=;/>)-*' 6,' B*-;.6^ /*?' .' 76 0',1')6+*' D**2' 1 ' >*06-' 620',)6,' 1 ',)*' >) ;->)' 1 ',)*' -5 2' 6,' *,)/*)*?',1')6+*' D72' 1 '>*^ 06-' 1-'> =-*..' M& // 6?.' # ' ' K KT' # ;6-*.? C ;.' ;' !' - !' $!' + ' KT' (1D/>-' ; "+" ' =' KX' **' + !

,' ?6 ')*-*' 6/.1' D*' -*?6-9*0',)6,' /> - 6>' 620' :*D' 2,*-=-*7-.' 5*2*-6// '6,' .6' L/ ' RT' /L ' N' -*2^ 0*-' ,)*' 81-0' " " (/ ,*-6// ' >-** 2*..X ,-62./6,*0' 2' 1;-'+*-. 12' M6 ,*-',)*' ;/5' 620')6/0**X' D1LC,-** J' D ' O *-kH C>*06-' 6' .=*>*.' 1 ' >*06-' 0 .^ , 25; .)*0' D ',)*' .?6//2*..' 1 ' ,.' >12*.' 620',)*' ;=^ 86-0' 0 -*>, 12' 1 ' ,.' D-62>)*.' M.**' 1.*2? ;//*-' &' " +' ' KRKX' 21,)*-' 1-?' 1 ',) .' 81-0' + (' 1>>;-- 25' 2' [*9' LL + ' S') 6.' ,)*-*' D**2' ? .,-62./6,*0' 2' 1;-' +*-. 12' D ' .);-,*. J' 8)*-*' ,)*' >/6;.*' ,)*' >1?=62 ' 1 ',)*' & " ')6+*' ?60*' ,) ' D*2>)*.' 1 ' +1-E J' .' / ,*-6// ' ,) ' D*2>)"7',)* ' ?69*' 1 ' +1-E ',)*' 06;5),*-' 1 ',)*' 1. ;-C8110 J' 2/6 0' 1-' D1-0*-*0' 8 ,)' ,' 1-' 6' ;// 6>>1;2,' 1 ',)*' +6- 1;.' -*60 25.' 1 ',)6,' =6..65*' .**' 1.*2? ;//*- 6' $ 1 ! 2' [*9' LL + ' S' ()*' ?1.,' 6, . 6>,1- ',-62.^ /6, 12' 6==*6-.',1' D*',)6,' 1 ' 1>)6-,' > !' $!' ' >' Q X' 620' 1.*2? ;//*-a' ()' D*2>)*.')6+*',)* ' ?60*' 1 ' +1- ' 2/6 0' 8 ,)' D1LC8110' -1?',)*' ./*.' 1 ') ,, ?%J' 18' ,' .' =-1D6D/*',)6,',)*' ./*.' 1 ') ,C ,?' ?6 '-* *-',1' 62 ' 1 ',)*' ./620.' 1-' ?6-, ?/0*0 .^ ,- >,.' 1 ',)*' < *0 ,*--62*62' 1>)6-,' D*/ *+*.' 1-. >6' .' 2,*20*0' 2',) .' =6..65*' T' ,)*' ;/5')6.' 0>' 2.;/ .' ,6/ 6*%J' 1-. >6' 86.' >*/*D-6,*0' 1-',.' D1LC,-**.' M / 2' L+ ' ST' ()*1=)-*' !' !' ' g' X' 620' ,' .' 8*// 92182',)6,',)*' 62> *2,.' ;20*-.,110',)*' 6-,' 1 ' +*2**-C

ing wood, especially box-wood, with ivory, tortoise-shell, etc. (Virg. *Aen.* x, 137). However, Celsius (*Hierob.* i, 80) and Sprengel (*Hist. Rei Herb.* i, 267) identify the *sherbin* with the *Pinus cedrus* (Linn.), the cedar of Lebanon. See BOX-TREE.

If, on the other hand, we consider some of the remaining passages of Scripture, we cannot fail to perceive that they forcibly apply to the cedar of Lebanon, and to the cedar of Lebanon only. Thus, in Psa. xcii, 12, it is said, "The righteous shall flourish like a palm-tree, and spread abroad like a *cedar* of Lebanon." But Ezekiel (chap. xxxi) is justly adduced as giving the most magnificent, and, at the same time, the most graphic description of this celebrated tree (comp. Homer, *Il.* xiii, 389; Virgil, *Æn.* ii, 626; v, 447; Horace, *Od.* iv, 6). The other principal passages in which the cedar is mentioned are 1 Kings iv, 33; 2 Kings xix, 23; Job xl, 17; Psalms xxix, 5; lxxx, 10; civ, 16; cxlviii, 9; Cant. i, 17; v, 15; viii, 9; Isa. ii, 13; ix, 10; xiv, 8; xxxvii, 24; xli, 19; xliv, 14; Jer. xxii, 7, 14, 23; Ezek. xvii, 3, 22, 23; Amos ii, 9; Zeph. ii, 14; Zech. xi, 1, 2; and in the Apocrypha, Ecclus. xxiv, 13; l, 12. See TREE.

The conditions to be fulfilled in order to answer all the descriptions in the Bible of a cedar-tree are that it should be tall (Isa. ii, 13), spreading (Ezek. xxxi, 3), abundant (1 Kings v, 6, 10), fit for beams, pillars, and boards (1 Kings vi, 10, 15; vii, 2), masts of ships (Ezek. xxvii, 5), and for carved work, as images (Isa. xliv, 14). To these may be added qualities ascribed to cedar-wood by profane writers. Pliny speaks of the cedar of Crete, Africa, and Syria as being most esteemed and imperishable. In Egypt and Syria ships were built of cedar, and in Cyprus a tree was cut down 120 feet long and proportionately thick. The durability of cedar was proved, he says, by the duration of the cedar roof of the Temple of Diana at Ephesus, which had lasted 400 years. At Utica the beams, made of Numidian cedar, of a temple of Apollo had lasted 1178 years! (Pliny, *Hist. Nat.* xiii, 5; xvi, 40). Vitruvius (ii, 9) speaks of the antiseptic properties of the oil of cedar (comp. Josephus, *Ant.* viii, 5, 2; Sandys, *Travels*, p. 163, 167). The corresponding Arabic word, *arz*, is used to express not only the cedar of Lebanon, but also at Aleppo the *Pinus sylvestris*, which is abundant both near that city and on Lebanon. A similar statement will apply also to the *Thuja articulata* of Mount Atlas, which is called by the Arabs *el-arz*, a name that led to the mistake as to the material of the Cordova roof from its similarity to the Spanish *alerce* (Niebuhr, *Descr. de l'Arabie*, p. 131, etc., and *Questions*, xc, 169, etc.; Pliny, *H. N.*, xiii, 11, 15; Hay, *West Barb.* c. iv, 49; Gesenius, *Thes.* p. 148). Besides the trees which belong to the one grove, known by the name of "the Cedars," groves and green woods of cedar are found in other parts of the range (Buckingham, *Travels among the Arabs*, p. 468; *Eng. Cyclopædia*, s. v. Syria; Robinson, new ed. of *Res.* iii, 593; Burckhardt, *Syria*, p. 19; Loudon, *Arboretum*, iv, 2406, 2407; Celsius, *Hierobotan.* i, 89; Belon, *Obs. de arboribus coniferis*, ii, 162, 165, 166). The remains of wood used in the Nineveh palaces were supposed by Layard to be cedar, a supposition confirmed by the inscriptions, which show that the Assyrian kings imported cedar from Lebanon. This wood is now proved by microscopic examination to be yew (Layard, *Nin. and Bab.* p. 356, 357; Loudon, *ut sup.* p. 2431). See FIR.

2. The modern CEDAR OF LEBANON is well known to be a widely-spreading tree, generally from 50 to 80 feet high, and, when standing singly, often covering a space with its branches the diameter of which is much greater than its height. The

Cedar of Lebanon (*Cedrus Libani*).

horizontal branches, when the tree is exposed on all sides, are very large in proportion to the trunk, being disposed in distinct layers or stages, and the distance to which they extend diminishes as they approach the top, where they form a pyramidal head, broad in proportion to its height. The branchlets are disposed in a flat, fan-like manner on the branches (see Shelby, *Forest Trees*, p. 522). The leaves, produced in tufts, are straight, about one inch long, slender, nearly cylindrical, tapering to a point, and are on short footstalks. The male catkins are single, solitary, of a reddish hue, about two inches long, terminal, and turning upwards. The female catkins are short, erect, roundish, and rather oval; they change after fecundation into oval oblong cones, which, when they approach maturity, become from 2½ inches to 5 inches long. Every part of the cone abounds with resin, which sometimes exudes from between the scales. As its leaves remain two years on the branches, and as every spring contributes a fresh supply, the tree is an evergreen, in this resembling other members of the fir family, which, the larches excepted, retain the same suit for a year or upwards, and drop the old foliage so gradually as to render the "fall of the leaf" in their case imperceptible. As far as is at present known, the cedar of Lebanon is confined in Syria to one valley of the Lebanon range, viz. that of the Kedisha River, which flows from near the highest point of the range westward to the Mediterranean, and enters the sea at the port of Tripoli. The

General view of the Cedars.

grove is at the very upper part of the valley, about 15 miles from the sea, 6000 feet above that level, and their position is moreover above that of all other arboreous vegetation. Belon, who traveled in Syria about 1550, found the cedars about 28 in number, in a valley on the sides of the mountains. Rauwolf, who visited the cedars in 1574, "could tell no more but 24, that stood round about in a circle; and two others, the branches whereof are quite decayed from age." De la Roque, in 1688, found but 20. Maundrell, in 1696, found them reduced to 16; and Dr. Pococke, who visited Syria in 1744 and 1745, discovered only 15. "The wood," he says, "does not differ from white deal in appearance, nor does it seem to be harder. It has a fine smell, but is not so fragrant as the juniper of America, which is commonly called cedar, and it also falls short of it in beauty." M. Lamartine, in 1832, says, "These trees diminish in every succeeding age. There are now but 7. These, however, from their size and general appearance, may fairly be presumed to have existed in biblical times. Around these ancient witnesses of ages long since past there still remains a little grove of yellow cedars, appearing to me to form a group of from 400 to 500 trees or shrubs. Every year, in the month of June, the inhabitants of Beshierai, of Eden, of Kandbin, and the other neighboring valleys and villages, climb up to these cedars and celebrate mass at their feet." Dr. Graham gives the following measurements of the twelve largest cedars: the circumferences of the trunk at the base respectively 40 feet, 38, 47, 18½, 30, 22½, 28, 25½, 33½, 29½, 22, 29¾; the largest having thus a diameter of nearly 16 feet (*Jordan and the Rhine*, p. 26). Within a few years past a chapel has been erected there (Robinson, *Later Res.* p. 590, 591; Stanley, *Sinai and Pal.* p. 140). See Trew's treatises, *Cedror. Libani Hist.* and *Apologia de cedro Lib.* (Norimb. 1757 and 1767); *Penny Cyclop.* s. v. Abies; Thomson, *Land and Book*, i, 232 sq.; especially Dr. Hooker, in the *Nat. History Review*, Jan. 1862, p. 11–18; and Mr. Jessup, in the *Hours at Home*, March and April, 1867.

Ce'dron, the name of a place and of a rivulet.

1. (ἡ Κεδρών v. r. Κεδρώ.) A place fortified by Cendebæus, under the orders of king Antiochus (Sidetes), as a station from which to command the roads of Judæa (1 Macc. xv, 39, 41; xvi, 9). It was not far from Jamnia (Jabneh), or from Azotus (Ashdod), and had a winter-torrent or wady (χειμάρρους) on the eastward of it, which the army of the Maccabees had to cross before Cendebæus could be attacked (xvi, 5). These conditions are well fulfilled in the modern place *Katra* or *Kûtrah*, which lies on the maritime plain below the river Rubin, and three miles south-west of Akir (Ekron). Schwarz (*Palest.* p. 119) gives the modern name as *Kadrûn*, but this wants confirmation. Ewald (*Isr. Gesch.* iv, 390, note) suggests *Tell-Turmus*, five or six miles farther south. The Syriac has *Hebron*, and the Vulg. *Gedor*, which some compare with the village *Gedrus* (Κέδρος), mentioned by Eusebius and Jerome (*Onomast.* s. v. Γεδούρ, Gædur) as lying ten miles from Diopolis, toward Eleutheropolis.

2. In this form is given in the N. T. the name of the brook Kidron (נַחַל קִדְרוֹן = "the black torrent") in the ravine below the eastern wall of Jerusalem (John xviii, 1). Lachman, with codices A and D, has χειμάρρους τοῦ Κεδρών; but the Rec. Text with B has τῶν Κέδρων, i. e. "the brook of the cedars" (so, too, the Sept. in 2 Sam. xv, 23). Other MSS. have the name even so far corrupted as τοῦ κέδρου (so ℵ), *cedri*, and τῶν ξύλων. The word, however, has no connection with "cedar." In English, the name in this form is often erroneously pronounced (as if written *Kedron*) with a hard C.—Smith, s. v. See KIDRON.

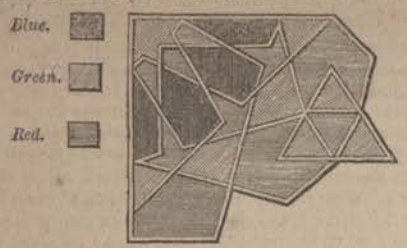
Cei'lan (Κιλάν, Vulg. *Ciaso*), a person named (1 Esdr. v, 15) as the family head (in connection with Azetas) of seventy-seven Israelites who returned from Babylon; but the Heb. texts (Ezra ii, 16; Neh. vii, 21) do not contain either name.

Ceiling. There are three Heb. words employed in the Old Test. which our translators have rendered "ceiled" or "ceiling." 1. חָפָה (*chaphah'*, to cover or *overlay*, as it is elsewhere rendered) occurs 2 Chron. iii, 5, where it is said, "He ceiled the greater house with fir-tree." 2. סָפַן (*saphan'*, to *wainscot* or plank; elsewhere rendered "cover," once "seat," Deut. xxxiii, 21) occurs Jer. xxii, 14: "It is ceiled with cedar, and painted with vermilion." Houses finished in this manner were called "ceiled houses" (Hag. i, 4). The "ceiling" of the walls itself is likewise spoken of (סִפּוּן, *sippun'*, 1 Kings vi, 15). In Ezek. xli, 16, the word rendered "ceiled" is שָׁחַף (*shachîph'*, from being *hewed thin*), a *board* simply, used for that purpose. These ceilings were adorned with ornaments in stucco, with gold, silver, gems, and ivory. Oriental houses appear to have been the reverse of such as we inhabit, the ceiling being of wood richly ornamented and painted, and the floor plaster or stucco, the walls being generally wainscoted. The Egyptian monuments still exhibit elegant specimens of painted ceilings, no doubt

Patterns of ancient Egyptian Ceilings.

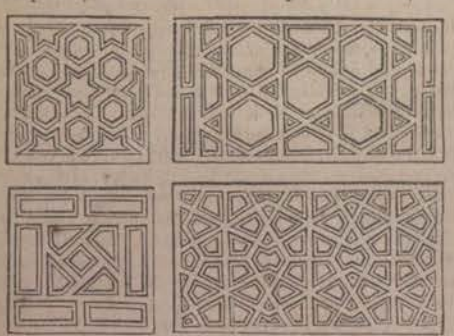
greatly resembling those mentioned in the above texts (Wilkinson's *Anc. Egypt.* ii, 125). According to Mr. Layard, in the ancient Assyrian houses also "the ceilings overhead were divided into square compartments, painted with flowers or with the figures of animals. Some were inlaid with ivory, each compartment being surrounded by elegant borders and mouldings" (*Nineveh*, ii, 208). The following remarks are from Smith's *Dict.* s. v.: The descriptions of Scripture (1 Kings vi, 9, 15; vii, 3; 2 Chron. iii, 5, 9; Jer. xxii, 14; Hag. i, 4) and of Josephus (*Ant.* viii, 3, 2–9; xv, 11, 5) show that the ceilings of the Temple and the palaces of the Jewish kings were formed of clear planks applied to the beams or joints crossing from wall to wall, probably with sunk panels (φαρνώματα), edged and ornamented with gold, and carved with incised or other patterns (βαθυξύλοις γλυφαῖς), sometimes painted (Jer. xxii, 14). It is probable that both Egyptian and Assyrian models were in this, as in other branches of architectural construction, followed before the Roman period. See ARCHITECTURE. The construction and designs of Assyrian ceilings in the more important buildings can only be conjectured (Layard, *Nineveh*, ii, 265, 289), but the proportions in the walls themselves answer in a great degree to those mentioned in Scripture (*Nin. and Bab.* p. 642; Fergusson, *Hand-book of Architecture*, i, 201). Examples, however, are extant of Egyptian ceilings in stucco painted with devices of a date much earlier than that of Solomon's Temple. Of these devices, the principal are the guilloche, the chevron, and the scroll. Some are painted in blue, with stars, and others bear representations of birds and other emblems (Wilkinson, *Anc. Egypt.* ii, 290). The excessive use of vermilion and other glaring colors in Roman house-painting, of which Vitruvius at a later date complains (vii, 5), may have been introduced from Egypt, whence also came, in all probability, the taste for vermilion painting shown in Jehoiakim's palace (Jer. xxii, 14; Amos iii, 15; Wilkinson, i, 19). See also the descriptions given by Athenæus (v, 196) of the tent of Ptolemy Philadelphus and the ship of Philopator (ib. 206), and of the so-called sepulchres of the kings of Syria, near Tyre, by Hasselquist (p. 165). The

panel-work in ceilings which has been described is found in Oriental and North African dwellings of late and modern time. Shaw describes the ceilings of Moorish houses in Barbary as of wainscot, either "very artfully painted, or else thrown into a variety of panels, with gilded mouldings and scrolls of the Ko-



Modern Egyptian Ceiling with different Colors.

ran intermixed" (*Trav.* p. 208). Mr. Porter describes the ceilings of houses at Damascus as delicately painted, and in the more ancient houses with "arabesques", encompassing panels of blue, on which are inscribed verses and chapters of the Koran in Arabic; also a tomb at Palmyra, with a stone ceiling beautifully panelled and painted (*Damascus*, i, 34, 37, 57, 60, 232; comp. Deut. vi, 9; see also Lane's *Mod. Egypt.* i, 37, 38; Thomson, *Land and Book*, ii, 571). Many of the rooms in the Palace of the Moors at the Alhambra were ceiled and ornamented with the richest geometrical patterns. The ancient Egyptians used colored tiles in their buildings (Athen. v, 206; Wilkinson, ii, 287). The like taste is observed by Chardin to have prevailed in Persia, and he mentions beautiful specimens of mosaic, arabesque, and inlaid wood-work in ceilings at Ispahan, at Koom in the mosque of Fatima, and



Panel-work in modern Egyptian Ceilings.

at Ardevil. These ceilings were constructed on the ground, and hoisted to their position by machinery (Chardin, *Voyage*, ii, 434; iv, 126; vii, 387; viii, 40, plate 39; Olearius, p. 241). See HOUSE.

Ceillier, DOM RÉMY, an eminent French theologian, was born at Bar-le-Duc in 1688. He entered the order of St. Benedict in 1705, and became titular prior of Flavigny. In 1718 he published, *Apologie de la morale des Pères de l'Église, contre Jean Barbeyrac;* but the work of his life was his *Histoire Générale des Auteurs Sacrés et Ecclésiastiques* (1729–1763, 23 vols. 4to)—a work more complete, and perhaps more accurate than that of Dupin, although inferior to him in the analysis of books. A new edition has appeared (Paris, 1860-65, 15 vols. 8vo), with additions, but unfortunately thus far without general indexes. The chief superiority of Ceillier over Dupin lies in his treatment of the writers of the first six centuries, in which he had the use of Tillemont, and also of the Benedictine editions of the fathers. In the Middle Ages, and especially in the scholastic theology, for which he had no taste, he does not equal Dupin. Ceillier died Nov. 17, 1761.—*Biog. Universelle*, s. v.

Ceimeliarchæ (*κειμηλιάρχαι, keepers of the sacred vessels*), a class of inferior officers in the ancient church. They had charge of all utensils and precious things laid up in the sacred repository of the church. The name *sceuophylax* is used in the same signification; also *chartophylax*, or *custos archivorum*, custodian of the rolls or archives (Suicer, *Thesaurus*, ii, 971). This officer was commonly a presbyter; Macedonius was both presbyter and sceuophylax of the church of Constantinople; and Sozomen styles Theodore, presbyter of Antioch, who suffered martyrdom in the days of Julian, *φύλακα τῶν κειμηλίων*, "keeper of the sacred utensils." He was put to death because he would not deliver up what he had in his custody. In the Greek Church the chartophylax acts as the patriarch's substitute, excommunicating and licensing presbyters and deacons, and sitting as supreme ecclesiastical judge in many cases.—Bingham, *Orig. Eccl.* bk. iii, ch. xiii, § 3; Sozomen, *Hist. Eccl.* v, 8.

Celestine (or CŒLESTIN) **I,** Pope, a Roman by birth, was elected Pope in 422, on the death of Boniface I. During his pontificate the Council of Ephesus, against Nestorius, was held, upon which occasion he wrote several letters to the Eastern churches. He claimed authority and primacy in the Roman See, and sought to exercise it over the African Church in vain. In the Nestorian dispute above mentioned he was more successful, as Cyril, in order to put down Nestorius, accepted the authority of Celestine against him. He left thirteen letters; among them is a complaint as to the dress of bishops; but it is doubtful whether it means that the clergy should dress like the laity, or should abstain from some special garment which some had adopted. He died March 25 (or July 26), 432. Celestine is said to have sent Palladius and St. Patrick as missionaries to Ireland, but the story is very doubtful. It is not clear that either of them ever had any connection with Rome. His letters are preserved in the Collection of Councils. He is counted among the saints of the Church of Rome.—*Biog. Univ.* vii, 497; Cormenin, *Lives of the Popes*, i, 79.

II. Pope, originally Guido, of Città di Castello, in Tuscany, studied under Abelard, and succeeded Innocent II September 25th, 1143. He died in March, 1144.

III. Pope, a Roman named Iacinto Orsini, cardinal of Santa Maria, was elected Pope March 30, 1191, at eighty-five. He crowned Henry V and his wife Constance, and made a great display of arrogance in doing it; entered warmly into the scheme for delivering the Holy Land, on which account he espoused the cause of Richard I of England, and fulminated censures against Leopold of Austria and the emperor, who detained Richard prisoner. He died January 8, 1198. During his last illness he proposed to transfer his papal authority to cardinal Colonna, to which, of course, the cardinals objected.

IV. Pope, originally called Goffredo, of the family of Castiglione, of Milan. He was elected Pope September 20, 1241, and died on the 8th of October following.

V. Pope, originally Pietro de Murrone, was born 1215 at Isernia. With a few companions he withdrew to a cave on Monte Majella, where he lived a life of extreme austerity. After a time his disciples multiplied so greatly that he was induced to form them into a new order (called first the congregation of *St. Damian*, but subsequently the order of *Celestines*), under the rule of St. Benedict. This order was confirmed by Gregory X in the Synod of Lyons, 1274. On the 15th of July, 1294, he was elected pope, and took the name of Celestine V. He proved to be too ignorant of the world and its ways, as well as of literature, for the office which he was so suddenly called upon to undertake. Feeling his unfitness, and finding that many abuses were committed in his name, he resigned Dec. 13, 1294, and retired to his solitude. He was cruelly imprisoned by

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' 1',)*' /6,,*-', ?*.% % ' "' 6 ' " "!(' ,'62' *6-/ '=*- 10' + -5 2^ , '>6?*' ,1' D*')*/0' 2')121-' 2',)*');->)% *+*-6/ =6..65*.' 1',)*' % (' M*% 5% <6-.*' 1-*1+*-' 2',/*' 1/0' 6562',?*.'>*/ D6> ')60'D**2')*/0' 2')121-' M*% 5% ,)* *.,6/ -5 2.X% &)*-*+*-' 0;6/ .,>' 0*6.' 1 '6' 5110' 620' *77/ =- 2> =/*' 620' 1' ?6,,*-' 6.',)*' .*6,' 1 '*+ /' =-*+6 /*0',)*-.*' .>6=*0' -1?' *L,-6+6562,'20, *2.' 620' 1= 2 12.' 12',) .' . ; DA*>,T' 2' 6>,',)* -'*--1-.')*-*')6+*' 012*' ?1-*' =*-)6=. ' ,)62' 62 ' 1,)*-' >6;.*' ,1' 8*69*2',)* -' 6;,)1- , ' 6.' 5; 0*.' 1-',)*');->)' M.**' (6 /1-' &' ' " 1'=6.. ?X% ;,' 21' *2 1->*0' >*/ D6> ' 1',)*' >/*-5 ' 86.' 92182' 2',)*');->)' ?^ ?*0 6,*/ ' 1//18 25',)*' 6=1..,1/>' 65*% 25) 6?' >1/^ /*>,.',)*' 6>,.' >6-* ;// '>, l' 6 l' D9% + ' >)% + X',1' ,)*' 1//18 25'* *>,% 2',)*' 65*' ? ?*0 6,*/ '.;>>**0^ 25',)6,'1',)*' 6=1.,/*.' 8*' -*60' 1',)*' 8 +*.' 1 ' 6/*2. ' =-*.D ,*-' 1 ') / == ' M 1/ >6-=' 6%!' ' " % ' X' 1 ')1*,*?12' D .)1=' 1 ' /;.' M ;.*D% + ' >% KX' 1 ' 1C +6,;.' '=-*.D ,*-'1' 6-,)65*' M =- 62' 6%!' RX' 1 ' =^ - 62') ?.*/ ' 1 ' .*>/;.' 8)1' >12+*-,*0') ?' M 12, ' N !' % 81' 620' 1 '.*+*-6/1,)*-' D .)1=.' 620' =-*.D ,*-.% ;,' ,')6.' D**2' .6 0' D ',)*' 60+1>6,*.' 1 '>*/ D6> ',)6,' ?6-- *0' =*-.12.' =-1? .*0',1' .*=6-6,*',)*?.*/+*.' -1?' ,)*-' 8 +*.' 6.' .112' 6.',)* ' .)1;/0' -*>* +*' *-0 26, ;2% ()*') .,1- '1' 1+6,;.' 0 .,2>,/ '=-1+*.',)*' >12,-6-A% : *' 86.' 6>>;.*0'/125' 6 ,*-',)*' 86.' 6'=-*.D ,*-' 1 ')6+^ 25'>6;.*0',)*' ? .>6-- 65*' 1 ') .' 8 *' D ' 6' =6.. 126,*' D/18% 2' 6>,' ,/ -1;AA)1;',)*' -.,',)-**' >*2,;-*.' 81' -*60' 1 '21' *2 1->*0' >*/ D6> %)-A'.1.,1?%*L=-*../ ' >1?D6,.',)*' 21, 12',)6,',)*' >/*-5E' =*>;/6-/ ' 8*-*' -*_; -*0',1'/ +*' ;2?6-- *0' I6%!' ' !S # O O' 60' ' 1-% + ' X% ;,' ,)*' -.,'..*=',186-0.' >/*- >6/*>*/ D6> ' 86.',69*2' 2',)*' 0 .6==-1+6/ 1' ' ?6-^ - 65*.% *,' .1' /6,*' 6.',)*' >/*-5E' =*>;/6-/ ' 8*-*' -*_; -0' 2*' 25' 1',)*' -0' 6,)1/>') ;->)' 8X 1' 8*-*' ?6-- *0' 6' .*>120',?*% ()*' =*6-.' -1?',)*' 6>>;.6, 12' 1' (*-,;// 62' 8)1' 6.9.',)*' 6,)1/>.' 8 ,)' <12,62 .,>' 20 526, 12d ' ' ' F' '% ' % ' I ' 4 ' % A' 'C' % ' ' ' ' Z(*>120' ?6-- 5*',);.' .**?.',1') ?',1' 0 ._;6/ ' 1-',)*' 60^ ? 2 .,-6, 12' 1',)*' .6>-6?*2,.' 1' D6=,D?' 620',)*' 1-0 .' ;==*-' : ==1/ ,;.' 2',)*' + %" ' -*=-16>)*.',)*' 1?62' D .)1=' 6// .,;.' 8 ,)' 60? ,^ , 25',1' .6>*-01,6/' 620' *= .>1=6/ > >*',)1.*' 8)1' 8*-*' ?6-- *0',)*' .*>120' 620' *+*2',)*',) -0', ?6-- 620' 6//18^ 25',)*' >/*-5 ',1' ?6--A7 6 ,*-')6+ 25' D**2' 1-06 2*0% ()*' 2*L,' .,*=' 86.',)*' 0' 6% =-1+6/' 1 '*+*2' >21' ?6-^ - 65*' 1-',)*' >/*-5 (P;,' 21,' *,',)*' =-1) D , 12' 1',% ()*' =- *.,)110' 620' ?6-- 65*' D*>6?*' ?1-*' 620' -)*-1' 2>>?=6, / /*' 2',)*' =-*+6 / 25'+ *8% ()*' B/12,62 .,' .)6-*0' 2',) .'A **/ 25' 6?125',)*' 1-6>/*.' 1',)*' =-1=)^ *,*..' - .>6' .' 12*',1',)*' *,*>,` 2/ '6')1/ 'M,)6,' .' 62' ;2?6-- *0% ? 2 .,*-'>62' 60? 2 .,*-' 2')1/ ',) 25.%' +*2',)1.*' 6,)*-.' 8)1' 8*-*' ?6-- *0' / 9*',)*' =-*.D ^ ,*-' (>-,;// 62' 620',)*' D .)1=' 4-*51- ' 1' ..6' 56+*' 0*> 0*0' =-*7-*2>*',1'+ -5 2, % ()*' 6=1.,1/ >6/ >12^ .,,;., 12.' 620' .1?*' =-1+ 2> 6/ >1;2> /.' 6>>1-0 25/ ' >12.' D;,' 12/ ' 8)*2',)* ' *L=-*../ ',, =;/6,*0' 1-' ,' D* 1-*',69 25' 1-0*-.% ()*' - 51- .,>' =62 .)' 1;2> /' 1' /+ -6'M // D*- .X'A2' Q ' 8*2,' 6-,)*.,% ,'6==*6-.' *+*2',1')6+*' 1-D 00*2',)*' >12, 2;62>*' 1 '2;=, 6/ 2^ ,*->1;-.*' 6 ,*-' >12.*>-6, 12' ;=12' =6 2' 1 '0*=1. , 12J' M >)6 ' " '' # ' ' g RSX%) /*6.' D .)1=' 1 '( ) ;? .' 620') /1-1?;.')60' D1,)' 8 *' 620' >) /0-*2' 620' 8*-*' ' " ' ;-5*0' D ' ,)*')*6,)*2' ?65 .,-6,*',1' 0*2 ',)*' 6 ,)' 620' .6+*',)*?^ .*/+*.' M ;.*D% / D% + ' >6=% KT / D% + ' >6=% RX% ;.*^ D ;.' M + ' KNX',*//.' ;.')18' 2 ,;.' D .)1=' 1' 421..;.' 2' -*,*' D* 25' 0*. -1;.',S' *2 1->*' >*/ /6>E' 86.' -*^ D;9*0' D ' 12 .;.' D .)1=' 1' 1- 2,)% 2',)*' 5-*6,'

,)6,' * *>,'D ;,' 6=)2 ;, ; . ' 62' 5 =, 62'D .)1=') ?^ .*/ ' ;2?6-- *0 '-*.1/ ;,*/ ' 8 ,).,110' ,' 6.' 62' 221+6^ , 12 '0*>/6-*0',)6,'?6-- 65*' .')121-6D/*' ' 2'6// ?*2 J' 620'0*. -*0',)6,' ,)*' 62> *2,',-60 , 12' 1 ' ,)*') ;->)' .)1;/0'>12, 2;*',1'D*'1D.*-+*0 '+ [F',)6,',)1.*'8)1'D*^ 1-*' 1-0 26, 12' 8*-*' ;2?6-- *0' .)1;/0' >12, 2;*',1'D*' .1'M 1>-6,*.'#!'6!' ' T 1[1?*2'VV% 6!' 'KNX% ()*' 12/ ''-*=/ '8) >)' *//$-? 2*'620' 6/*. ; .'5 +*',1',) .' .,6,*?*2,' .',1'. ; .=*>',,)*'+*-6> , '1 ',)*') .,1- 62.'2' 8) >)',)* '6-*' 1//18*0'DE' (0)1?6.. 2' 8)1'>6 ;, 1 ; .' 620'A;0 0 D ; .'6.')*' .' .>-;=/*.'21,',1'.6 ',)6,' 1>-6,*.' 620' 1[1?*2'6-*' 21,' .;>)' --*=-16>)6D/*'8-,*-. '21-' 1 ' .;>)' 8* 5), ',)6,' 8*' 2**0'D*/ *+*' ,)* .-' 81-0' 2' 6' ?6,,*-' 1 ' .;>)' ?=1-,62>*% 2' 1==1. , 12',1'6// ,) .' 1-662'8-,*-.'6//*5*',)*',*., ?12 '1 ' =)62 ; .'620' B*-1?*'620',)*',*2,)'>6212'1 ' 2> -6'8)>)' 1-D 0.' 0*6>12.' 8)1'0 0'21, '6,'1-0 26, 12 '0*>/6-*',)* -' 2,*2^ , 12',1'?6-- ',1'01'.1'6 ,*-86-0.% ;,'6// ,)*.*',*.^ , ?12 *.'6-*' .;D.*_;*2,',1',)*',) -0' >*2,;- 1' 620',)*' 1;2> /1'4625-6')*/0'=-1D6D/ '6D1;,'N R'/125'6 ,*-' ,)6,'1' 2> -6'626,)*?6, [*.',)1.*'8)1'.*=6-6,*' -1?' ,)*'>1??;2 12'1'6'?6-- *0'=- *.',M ' % 1 ' * 1' 4 ' % ' 4 ' 1 (' ' ' '" * ' ' ' ' =' 1' " ' P'M 6212'+X% **' & /.12' -" ' ']' ' " '&% '@ " 'M +*-=11/' Q X'=% Q' ._%1'620',)*'6-, >/*'> $ ' $! % ' + ' " "' '5 ! ' - > ; .'D .)1='1' 1?8*),)*-',)*'/68'1',)*'>*/ D6> '1'>/*-9.'D*'1'0 + 2*- 5),' %*8)*,)*-'?6-- 65*' .' " ')0/ ' >- =,;-*' 1-^ D 00*2',1',)*'>/*-5 '1-' 8)*,)*-' ,' .' 12/ '1''*>>/*. ^ 6.,>6/ 6;,)1- , '620'D 20 25' 12' *6>)' >/*-5E1?62' 2' >12.*_;*2>*'1',)*'+18',1',)6,'* *>,' 72,6- / '?60*' 6,')1-0 26, 12% ()*-'D*.,'620'?17') 10*-6,*'8-,^ *-.'?6 2,6 2',)*'.*>120'+*8% % ' " ' ? + " "%' ()*'4-**9');->)'D66' 2*+*-'601=,*0',)*%/68'1'>*/ D6> '6D.1/;,*/ ' 1-'6//' ,.' >/*-5 'D;,'60)*-*.' 2' .;D..62>*',1',)!'62> *2,'>6212' /68% ()*' 1;2>/ 2' (-;$1'M % 'SRK% *26>,*0',)6,' ,)1;5)'D .)1=.' ?6 '1D.*-+*' >*/ /%6 I' +*,'=-*.DA',*-.' 620'0*6>12.' ? 5),'/ +*' 8 ,)',)*-' ++ +*%C M>% T 12*%)6/> % % ' >% N IS' K' N' QI' 12*% (-;//62' % % RK'>62' NX% 2',)*' ;.. 62');->)' 6'=6-^ .)' =-*.,' D*' ?6-- *0'D* 1-*' 170 26, 12T ')*' /1.*.') .' 8 *')*' 5*2*-6// ''*2,*-.' 6'?126..,*- T 1-' ')*' ?6-- *.' 65'/ 2')*' /67 .' 6. 0*') .'=- *.,/ ' ;2>, 12.' M *6/*' N ' " ' 6 ' =% QX% */ D6>' .',1',) .'06 '*2A1 2*0' ;=12',)*'D .)1=.' 8)1'6-*',)*-* 1-* 5*2*-6// ' >)1.*2' -1?',)*' ?129.' 1-' -1?' 8 018*0' =-*.D ,*-.T D;,'6.',1',/8H/18*-'>/*-5 '8) /*',)*' >62^ 12.' 1-D 0',)*' ?6-- 65*'C1'=-*.,.'0*6>12.'620' .;D^ 0*6>12.' ',)* '01'21,' 1-D 0',)*' 1-0 26^ , 12'1'?6-- *0'?*2' 21-'-*_;-*',)*?',1'6D.,6 2' -1?' ,)*' >12+*-.6, 12' p',)*-' 8 +*.% 2',)*' -?*2 62');->)' ?6-- 65*'".' ?=*-6, +*T 62' ;2?6-- *0' ?62' >6221,' D*' 1-06 ?+/T D;,')*'>6221,'?6-- *0' ()*' N 8 'M-*5;/6-.X'12',)*' 1,)*-')620',69*',)*' +18' 1'>*/ D6> '/ +*' 2' >12+*2,.'620' -1?',)*-'-629.',)*' D .)1=.' 6-*' >)1.*2' M 8 5),' 2' 1/*?62.' & " ')% LL+ 'g KX1' 620',)*' 1? .)');->)' 6//18*0',) .' 2',)*' >6.*' 1',)*' 4-**9.' <6-12 ,*.' *,>% 8)1' ;2 ,*0' 8 ,)')*-' M *2*0>,' d ' 2',)*' >12.., % 6 ' <6 'KS K'Ec; ! !' =' "! ,'L+ ' 1/% '620') .' 6 '4 ' % ' <6 ' ' ',' L+ ' S' KRShX% ()*'=-*.,.' 1',)*' ;2 ,*0' 4-**9');->)')6+*'-*>* +*0'=*-? .. 12' -1?',)*'=1=*.' ,1' >12, 2;*' 2' ?6-- 65*' '*2,*-*0' 2,1' D* 1-*' >12.*^ >-6, 12' D ;,' 12' >120 , 12' 1'6/86 .' / + 25'6=6-,' -1?' ,)*-' 8 +*.' ,)-**' 06 .' D* 1-*',)*' >*/*D-6,*' ?6..% ()*-*'>6+*'D**2'0 .>;.. 12.' 2',)*' 1?62');->)''+*2' 2'-*56-0',1',)*'+6/ 0 , '1-'2;// , '1'?6-- 65*.'6?125' ,)*' 1=,.'620'4-**9.'*2,*-*0' 2,1'6 ,*-' 1-0 26, 12'M.*' ; ! ' ! ,% L+ ' =% S X% ()*' 4-**9');->)' 0 *-.' -1?',)*' 6, 2' 21,'D '62A') 5)*-'.,6206-0' 1' ?6-- 65*' D ;,' 12/ ' D ' 6' >/1.*-' 60)*-*2>*',1' *6-/ *-' ;.65*' 620'D '/*..'>12. .,*2,'6==/ >6, 12'1',)*'6.>*,>' =- 2> =/*% ,' .' 2',)*1-' 6.' -*?1,*' -1?',)*');->)' 6.' ,)*' 6, 2' .' 620' 6=C

=(16>)>.' ,'12/ ' 2'=-6>, >*% ,'.*,..'+ -5 2 , ' 6-'6D1+*' ?6-- 65* ' 620' -*56-0.' ?6-- 65*' 12/ ' 2' ,.' 6.=*>,' 1 ' 2*56, +*' ; / , % 2',)*' . 25/*' ?6-- 65*' 1 '6'=- *.,' ,' .**.' 2'6' ?*6.;-*' 6'2*>*..6- '*+ / ' 6,'D*.,'12/ '6'>12^ 0 , 126/ 5110' 6' 8)1/*.1?*' >12>*.. 12',1',)*' /*.,)' 1-' ,)*'=-*+*2, 12'1 ' ? ?1-6/ , ' 620'-*_;-*.' 1 ',.') 5)^ *.,' 1 >*CD*6-*-.',1,6/ 6D.. 2*2>*' -1?'6// ?6,- ?12 6/ 2,*->1;-.*% ,' 86+*-. ',)*-* 1-*7 D*,8**2' 6' = 7 6 /' =*-? .. 12'620' 6'=6-, 6/>120*?26, 12'1 '=- *.,/ ' ?6-^ - 65*J M >)6 ' "!' # 1' '7'S X% % $ ' + '5 ! ' ( )*' *+ /.'D-1;5),' ;=12 ' ' 'MD% ' >% + ' -;/*' K X' 8)*-*' M2' ,)*');-)' D ',)*' >*/ D6> ' 1 ',)*' >/*-5 ' 1?*0' 12*' >6;.*' 1 ',)*' ?1+*?*2,',186-0.' -* 1-?' 8) >)' >;/? ^ 26,*0' 2',)*' S,)' >*2,;- % ()*' /*60 25' * 1-?*-.' 0*>/6-*0' 656 2.,',)*' >*/ D6> '1 ',)*' >/*-5 '6.';2 1;20^ *0' 2' >- =,;-*' 620' >12,-6- ',1',)*' 26,;-6/ 1-0 262>*' 1 ' 410' 620',)*' .=*// 86.' 26// 'D-19*2' D ',)*' ?6-^ - 65*' 1 ' ;,)*-' 8 ,)' 6,)6- 2*' 1-6% : .' *L6?=/*' 86.' .112' 8 0*/ ' 1//18*0' 620') .' 8-, 25.' 620',)1.*' 1 ') .' >160A;,1-.' .112' =;,' 62' *20',1' >*/ D6> ' 6?125' 6//',)*' -* 1-? 25' >/*-5A' M>1?=% ;%,)*-' 6 " ' ' " ' *!' SK ' *,>%' ' ' N ' 8! 6/+ 2' .=*69.' 6.' 1//18.' 1 ',)*' *+ / '>/*- >6/ >*/ D6> '6.' 0*^ +*/1=*0' 6?125',)*' 1?62 ..,d ' & ,)' 8)6,' ?=;2 , ' 1-2 >6, 12'-65*.' 6?125',)*?' ,' .' ;22*>*..6- ' ,1' -*^ ?6-9' *?D1/0*2*0' D ' ,)* -' =1//;,*0' >*/ D6> ' ,)* ')6+*' D*>1?*')6-0*2*0',1' *+*- '>- ?*% *,' ,) .' =-1^) D , 12' >/*6-/ ' .)18.')18'=*., /*2,'6-*' 6//',)* -' ,-6^ 0 , 12.' . 2>* ,W6.' 21,' 12/ ' 0*=- +*0',)*');->)' 1 ' ;=- 5),' 620' 6D/*' =6.,1-. %D;,')6.' 1-?*0' 6')1-- D/*' 5;/ ' 1 ' *21-? , *.' 620' =-*> = ,6,*0' ?62 ' .1;/.' 2,1' ,)*' 6D ..' 1 '0*.=6 -% ()*' 2,*-0 >, 12'1 ' ?6-- 05*',1' =- *.,.' 86.' >*-,6 2/ ' 62' 6>,' 1 ' ?=1;.' , -622 ' 21,' 12/ '>12,-6- ',1',)*' & 1-0' 1 ' 410' D;,'6,'+6- 62>*' 8 ,)' *+*- '=- 2> =/*' 1 'A;.,>*% 2',)*' -.,'=/6>*' ,' 86.' 12' 21' 6>>1;2,' /68 ;/ 1-' ?*2',1'=-1) D ',)6,' 8) >)' ,)*' 1-0')60'/* ,' -**% *>120/ ',)6,' 410')60' *L=-*..'/A' =-1+ 0*0' 2') .' & 1-0',)6,',) .' / D*-, ' .)1;/0' 21,' D*' 2 - 25*0' .' ,11' >/*6-',1' -*_;-*' ?;>)' =-11 ' WV2C' 1' +' K' NX' ()*' -1,*.,62,' 12 *.. 12.' 1 ' 6 ,)' 5*2*-6// ' ,1;>)' 12',)*' ;DA*>,' ?1-*' 1-' /*..' 0 ^ -*>,/ 'd *%5%,)*' ;5.D;-5' 12 *.. 12')6.' 6'/125'6-, ^ >/*' MLL X' 12',)*' .;DA*>,' -1?'38) >)' 8*' *L,-6>,' 6' =6..65*d <6,- ?12 ' .' ?1-*1+*-' 0*>/6-*0' 6' /68 ;/ 620')121-6D/*' *.,6,*' D ',)*' /68.' 1 ' 1 ;-' ?=*- 6/ ?6A^ *., '620' D ',)*' >10*' 1 '*+*- ' *?= -*' 2' 8) >)'A;.,>*' 620' /68' =-*+6 /*0% '/6,*')18*+*-' 221>*2,' .;D^ A*>,.' 620' *.=*> 6// ' ? 2 .,*-.' 6-*' >-;*// ' ,1-?*2,*0' 12' 6>>1;2,' 1 ',)* -' ?6-- 65=% 1-' .' .;>)' >120;>,' 6' + 1/6, 12' 1 ',)*' 0 + 2*' /6& -6/12*' ,' .' *_;6// ' 1=^ =1.*0',1',)*' >6212.' 1 ',)*');->)% ()*' 6=1../*' 6;/ 0*21? 26,*.' ,)6,' 6' 01>,- 2*' 1 ' 0*+ /.' 8) >)' 1-D 0.' ?6-- 65*'M ' (?% + ' NXT' 620')- ..' .6 .'MB1)2' + ' X' `()*' 0*+ / .' 6' ? ;-0*-*-' -1?',)*' D*5 22 25%' 1-',)6,' ?6 ' 8*//' D*' -*56-0*0' 6.' 6' 01*., 2*' 1 '0*+ /.' 8) >)' 1-D 0.' ?6-- 65*' 620' *2 1->*.' ,)*' =-1) D , 12' D ',)*' .)*00 25' 1 '/D110%J' ()*');->)' 1 ' 25/620' -,%' LLL % , ' " ' ' , ' ! ' ' .)1=.' =- *,.' 620' 0*6>12.' 6-*' 21,'>1? ?620*0' D ' 410 .'/68' * ,)*-' ,1' +18',)*' *.,6,*' 1 ' . 25/*' / *' 1-',1' 6D..,6 2' -1?' ?6-- 65*' ,)*-* 1-*' ,' .' /68 ;/ 1-',)*?' 6.' 1-' 6//1,)*-')- ., 62' ?*2',1' ?6-- '6,',)* -' 18?'0 .>-*^ , 12' Q ',)* '.)6//A;05*',)*' .6?*',1'.*-+*'D*,,*-',1'510^ / 2*..%J' **' 6/.1',)*' : */+*, >' 12 % '>)% LLL+ T' ' >)% LL L% // ,)*' ?10*-2' *+625*/ >6/ 0*21? 26, 12.' 6-*'65-**0' 2'-*A*>, 25'*2 1->*0'>*/ D6> '6.';2.>- =,;-6/ 620' ? ?1-6/% &)*2' 62' 2., ,;, 12')6.' D**2' ,- *0' 0;- 25'6'01[*2'>*2,;- *.' 2' 6// =6-,.' 1 ',)*' 81-/0' 620')6.' ;2 1-?/ ' D**2' 1;20'=-10;>, +*' 1 ',)7.6 *' *+ /* *>,..' ,)*-*' >6221,' 8*// D*' 6' 01;D,' 8)6,' .*2,*2>*' 1;5),',1'D*' =-121;2>*0' 12' ,d ' ' f ' ()6,',)*' =6=6> ' .)1;/0')6+*' -* -6 2*0' -1?' =-121;2> 25',) .' .*2,*2>*' ',)6, '12',)*' >12,-6-A ' ,' .)1;/0')6+*' -*,6 2^ *0' 620' ;=)*/0',)6,' 2.,,;, 12' 8 ,)' 0155*0'=*-, 26>% , I' 21,8 ,).,620 25',)*')1--1-.' 8) >)' .,-*6?*0' 2' 8)*/? 25',1--*2,.' -1?' , ' .' =*-)6=.',)*' ?1.,'06?2^ 25' =-11 ')18',)*' =6=6> ' -*>9/*../ ' .6>- >*0' *+*- ?1-6/ >12. 0*-6, 12' -*>9/*../ ' .6>- >*0',)*' .1;/.' 1 ' ,.' ? 2 .,*-.' 1-',)*' .69*' 1 ' ?6 2,6 2 25' ,.' 182' =18^ *-' D ' .;--1;20 25' ,.*/ ' 8 ,)' 62' 22;?*-6D/*')1..' 1 ' .= - .,;6/ <6?*/;9*.' D1;20',1' ,' D ',)6,' 8) >)' .*+*-^ *0',)*?' 1?' 6// .1> 6/ ,>.% 20',) .' .',)*);->)' 1-' 8) >)' 1;-' ?10*-2' 0-*6?*-.' >/6 ?' ,)*' *L>/;. +*' , ,/*' 1 ')1/ ' 6');->)')*60*0' D ') .')1) 2*..' 1=*' /*L620*-',)*' L,)' ' () .' 8)1/*' _;*., 12' 1 ',)*' >*/ D6> ' 1 ',)*' >/*-5 ')6.' D**2',-*6,*0' 2' 6' ?6.,*-/ ' ?622*-' D 'B*-*? '(6 /1-' 2',)6,' &120*- ;/ 119') .' ;12 ' ' 'MD% ' >% + ' -;/*' K X' 8)*-*' M2' g KQX',)*' 5 +*.',)*' 1//18 25' .;?? 6- ' 1 ') .' 1DA*>^ , 12.'d ' ()*' /68' 1 ',)*');->)' 86.' 62' *+ / /68' ?60*' D ' 62' 6;,)1- , ' + 1/*2,' 620' ;.;-=,' 2..;7> *2,' 6.',1' ,)6,' >)6-5*% ,' 86.' 21,' 6'/68' 1 ' 4 10' ,' 86.' 656 2.,' ,)*' - 5),.' 620' 656 2.,' ,)*' 2*>*.. , *.' 1 ' 6,;-*' ,' 86.' ;226,;-6/ 620';2-*6.126D/*' ,' 86.' 21,' 1-' *0 ^ >6, 12' 1 ',)*');->)' ,' 86.' 21' 60+62,65*',1' .= - ,^ ;6/ / *' ,' .' 6' /68' ,)6,' .',)*-* 1-*' 656 2.,' =;D/ >')12*., ' D*>6;.*' ,' 0 0' 1=*2/ ' 620' .*>-*,/ ' 2,-10;>*' 0 .)12*., ' ,')60' 21,) 25'1 ',)*' -*_;.,*.' 1 '6' 5110' /68 ' 721 >12. 0*-6, 12' 1 ') ;?62' -6 7, ' 21-' 1 ') ;?62' >1? 1-,.' ,' 86.' 2* ,)*-' 2*>*..6- '21-'= 1 ,6D/*' 21-' 221>*2, ' 2* ,)*-' ,,*0',1', ?*' 21-'=/6>*' 21-'=*-.12' ,' 86.' 21,' 6>>*=,*0' D ',)*?' ,)6,' >1;/0' 21,' D*6-' ,' 86.' >1?=/6 2*0' 1 'DA',)*?' ,)6,' >1;/0' ,' 86.' 2*+*-' 60?,,*0' 2',)*' 6.. ,' 86.' 1;5),' 656 2.,' 620' 0*^ >/6 ?*0' 620' -6 /*0' 6,' 2',)*' & *..' 620' 6,' /6.',' ,' ./6 0' 6. 0*' 2',)*' >);->)*.' *.=*> 6// '1',)*' 1-,)' 6.' ,)*' ?1.,' 2,1/*-6D/*' 620' ?1.,' ;2-*6.126D/*' ,A7622 ' 2',)*' 81-/0' 1-' ,' 86.' 21,' 1' D*' *20;-*0' ,)6, ;=12' ,)*' =-*,*2>*' 1 ' 62' ;2-*6.126D/*' =*- *>, 12' .1' ?;>)' ?=;- , ' .)1;/0' D*' D-1;5),' 2,1',)*');->)' 620' .1' 5 '=%K4N% F ,' 0 /*-*2,'=*- 10.' . 2>*',)*' 1;2>/' 1 ' (-*2,',)*' >*/ D6> ' 1 ',)*' >/*-5 ' 7 . D * * 2' 6,1= >' 1 ' 0 .=;,*' 8 ,)^ 2',)*');(>)' 1 ' 1?*' 620' ?62 ' 1 ',)*' >/,-5A')6+*' ;1.5),',1' -**',)*' -' D10 ' -1?',/ .' 19*' 1 'D12065%' 2' ;.,- 6 ' B1.*=)' >12 -?*0' ,' D ' 62' 1-0 262>*' ;20*-' 06,*' 1 'B;2*' Q ' 8) >)' 81;/0' .** ?',1' 20 ^ >6,*7 ,)6,' 1?*')*=*.' 1 ' ,.' 2;// >6, 12' 8*-*' *2,*-^ ,6 2*0' D ',)*' ;.,- 62' >/*-5A' 6,),' ?*% &)*2' 2' >12.*_;*2>*' 1 ',)*' 12>1-06,' 1 ' Q ' *>>/*. 6.,>6/ >1? ?;2 ,*.' 8*-*' -*C>.,6D/ 0 *0' 2' -62>*' ,)*' -;/*' 1 ' >*/ D6> ' 86.' ?6 2,6 2*0 ' 620' 86.' .9 / ;/, ' 0* *20*0' D ' 1-,6/ .' 2',)*' .*.. 12' 1 ',)*' % ' '1 ' <6->)' K Q K% 2' Q ',)*' _;*., 12' 86.' 656 2' ?11,C >)' D ',)*' ,)*1/15 >6/ 6>;/, ' 1 ' 620.);,' 8)1' >1?^ =/6 2 25' 1 ',)*' .>6->, ' 1 '>620 06,*.' 1-')1/ ' 1-0*-.' =1 2,*0',1' >*/ D6> ' 6.' 12*' 1 ',.' >6;.*.% 2' QKQ' >*-^ ,6 2' 1?62' =- *.,.' 1 ' 60*2' 620' /*. 6' ?60*' 621,)*-' 6,,*?=,'D;',8 ,)1;,' .;>>*.,% ? /6-' 6,,*?=,.' !8*-*' 6/.1' ?60*' M6 ,*-' QN ' 2',)*' 5-620C0;>) ' 1 ' :*. *' &,;-,*?D*-5 ' 620' 6L12 '620' =*, , 12.' 6.9 25' 1-',)*' 6D1/ , 12' 1 '>*/ D6> '=-*.*2,*0' 6,',)*' 0 *,.% ()*' >+ / 6;,)1-,*.' */',)*' /*..' 2>/ 2*0',1' .;>)' 6' .,1=' 6.',)1' ;206?*2,6/ _;*., 12' 6.',1' 8),)*-' >*/ D6> ' .' 62' *>C >/*. 6.,> /' /68 ' 1-' 8)*,)*-' ,' >1;/0' D*' 6D-156,*0' D ' ,)*' > + / 6;,)1-,*.' .' 21,' E*,' 0*> 0*0% 2' -62>*' 656 2',)*' _;*., 12' 86.' *65*-/ '0 .>;..*0' -1?' QKQ',1' QNK% 2' =6 2',)*' >60*? ' ' >>/*. 6.,>6/ > *2>*' ,119',)*' .;DA*>,' 2,1' >12. 0*-6, 12' 2' 6' ?**, 25')*/0' 2' Q KT' 8)/*',)*' 1-,;5;*.*')6?D*-.')60' =-*+ 1;.C ' 2' 7S '0 .>;..*0' ,' ,)1;5)78 ,)1;,' -*.;/,% ()*' .6?*' ,119' =/6>*' 2' -6[/ 6D1;,' QK % ;- 25',)*' >1? ?1, 12.' 1 ' Q Q',)*' .;DA*>,' 86.' 656 2' D-1;5),' V ,1' =-1? 2*2>*' 2' 4*-?62' 6,)1/ >.J' M_% %X')60' 6/-*60 ' 6D1/ .)*0' >*/ D6> T 620' 6' 5*2*-6/ ?*6.;-*' 86.' >6//*0' 1-' 2',)*' -629 1-,' 6-^ / 6?*2,' 2',)*' -;.. 62' %..*?D/ ' 620' 2',)*' =-*..%' 2' ;.,- 6 ' 6/.1' +1 >*.' 8*-*' -6 .*0' 656 2.,' ,T' D;,%')*-*',)*' .,6,*' ,119',)*' . 0*' 1 ',)*' =1=*' 8)1' 2' 6' D;//' 1 ' Q ')60' 600*0' -*.)' .,- 25*2> ',1',)*' -;/*' 1 '>*/ ^ D6> % 620' >120*?2*0',.' 2 - 25*?2*2,% 2>*',)*' ,6/ 62' D*-6, 12' & 6-' 1 ' QSS') ;20-*0.' 1 ',)*' ,6/ 62' >/*-5 ')6+*' ;2 ,*0',1' -* 1-?',)*');->)' 620' 12*' 1

,)1' .=*> 6/ =1 2,.' 0*?620*0' .' ,)*' 6D1/ , 12' 1 '>*/ ^ D6> %
2' ,)*' 1,)*-')620 ',)1' 1?62 [25' =6-, ' 2' ,)*') ; ->)' 1 ' 25/620' .**?' 2>/ 2*0',1' -*+ +*' >*/ D6> ' 620',)*' 62> *2,'60? -6, 12' 1 '+ -5 2 ,E%' **') =/*A7 -" ' " "' ' " ' ' M 6;L .' ..6 X' 12012' QSS'Q+1%
! ' 1-',)*' 1/0*-' 8-,*-.' 12' D1,)' . 0*. ' . **' f 6/>)' ; " " ' -" 1' 'K KT' 'K % ./6,*-' 6;,)1-, *. 'D*. 0*.',)1.*'> ,*0' 2',) .'6-, >/*' . **' 4 *.>C /*-.' " ' 1' 'g R K T' 'g N 'S T' >)6 '&% = ! " " ' g KT' >)6 ' "!'# =1' '>%T -182*' , ' -"/ b = '& 1'6-,%'LLL T' <6>9 2,1.)' 6 " ' " %" 1' g NT' (6 /1-' & ' " 1' ' RN' NQN M % 1-9' *O%I' *620*-' 1' *,>%' ' K S ._%T' *620*-' +!' =' % ' ' T' + ' R ' M (1--* .XT' ,,*-D;- '$!' 9 ' " ' $ ' ' " ' ' M *>%' 4' RXT' () *-.>)' N !' # !') " ' ' $ ' !' NNT' <6-2* 2*9*' - !'$ 'g R' 620'-* *-*2>*.',)*-*T' : *-[15' 5 =6 ""% ' ' T' & *,[*-' ;%'!&*/,*') + = +4 ' %S S M 1-' 1?62 .,'+ *8 XT' 6/?*-' , ' " ' " " '=,%'+ ' >)%' LT' -6?=' - +' ' =' % %'>)%' d 'g KT' // 1,,' ' '5 'D9' +'M6'+*-E7 ;// ,-*6,?*2,'1',)*' .;DA*>,XT' ;-2*,' # 9 ' '5 ' K'._%'1 <6>6;/6 ' # ' ' 6 ('+1/% >)%' T' N ' $ ' !' =' / ' M -62>%' QKNXT' () * 2*-' ' ' 6 " ' !' % " '6" " + ' !' " '@ 'M /,*2D% QKQXT' / 7.>)*' ? +' !' , 'M ;5.% QN XT' ;/[*-' ' ' + + '? ' !' ' !' / 'M 12.,% QK XT' *6' $!' 'M) /6% QS Q+1X'T' ,62^ /* '6 !' " " '='K T' < /?62' !' " # ' ' Q ._% **' 'T' . ' '5 #! */' M 6,% 2I 8' 3 % 2' >/6.. >6/6->)6*1/15 ' ' .' 6==/ *0',1'6' >6+*' 1-' >*//6-',1' =-*.*-+*' 8 2*' 1<' 1-' 1,)*-' =-1+ . 12% ,' 6/.1' 86.' 6==/ *0',1',)*' *2>/1.*0' .=6>*' 1 '6',-*?=/*',1' D6,)C-11?. ',1',)*' ./**= 25%6=6-,?*2,.' 1 './6+*.% K% -1?',) .' /6.,' ;.*' 1 ',)*' 81-0' .' 86.',-62. *--*0' 2',)*' 1;-,)' >*2,;- ' ,1',)*' ./**= 25' 6=6-,?*2,.' 1 ' ?129.' 620' 2;2.' 2' >/1 ..*-.' M ' +%X% ()*.*' 6,' -.,')*/0',)-**' 1-' 1;-'1>>;=62,. 'D;' /6,*-',)* ';.;6// '-*\ >* +*0' D;' 12*' =*-.12% ()*.*' >*//.' 6-*' .?6// ')6+*' 12*' 011-' 620' 8 2018 '620' 6-*' 5*2*-6// ' =/6 2/ ' ;-^ 2 .)*0% N% ()*' 81-0' 86.'6/.1'6==/ *0',1'6' ?126., >'08*// 25' * ,)*-' 1-' 6' . 25/*' ?129' 1-' 1-' 6' >1? ?;2 , ' .;D1-^ 0 26,*',1' .1?*' 5-*6,'6DD* % ()*' 1-?*-' 86.' ?1./ ,)*' 6D10*' 1 ')*-? ,.' 620' *-*>,*0' 2' .1/ ,6- '=/6>*.% ** % ! 2',)*' # ; - 26/ 6/6>*'6,' 1?*' 6->' ,)*' >*//.' 1 ',)*' >12>/6+*' M % +%X% */6-' W .1?*,) 25' ' %' 2' .,1-*X% ()' .' 81-0' .' 2' ')-12% LL+ 'KQ'-*20*-*0' '>*//6- J' D;,' 2'621,)*-' +*-.*' 1 ',)*' .6?*')6=,*-' ' ,-*6.;-*J' .,1-*C)1;.* J' -1?' 8) >)' 8*' ?6 '>12>/;0*',)6,' .;D,*--62*62' +6;/,.' 6-*' .=19*2' 1 ' 2' *6>)' >6.*% ()1' .6?*' 81-0' .' .1?*, ?*.' 6==/ *0',1',)*',-*6.;- ' 1 ',)*' (*?=/*' M ' 25.' + ' X'620' 1 ',)*' 9 25' ML + 'KSX% */6-' ;.' 1-' */6-*-' 62' 1 >*-' 2' ?126.,*- *.' ,1' 8)1?' D*/125*0',)*' >6-*' 1 '=-1>;-25'=-1+ . 12.' 1-' ,)*' *.,6D/ .)?*2,% ** # !' :*' 86.' 12*' 1 ',)*' 1;-' '1-' 5-*6,'1 >*-.T' ;20*-') .' 1-0*- 25' 86.',)*' % '1-' D69*C)1;.*' 620',)*' 1 '1-' D-*8C)1;.*% 2',)*' - >)*-')1;.*',)*-*' 8*-*' /627.' .*,' 6=6 ,' 1-',)*' ?6 2,*262>*' 1 ',)*' 1 >*' >6//*0' 2' 62> *2,' &(,256' ' ' " !' : .' 8)1/*' 1 >*' D70' -*.=*>,' ,1',)6,' 1- 5 2% :*' 865',1' .**',)*' >1?' 51,' 2'620' /6 0' ;=' 2',)*' 5-626- *.T) .' 865*.' >12. .,*0' 1 '6'=1-, 12' 1 ',)*' =-1=*-, ';.;6// ' L*0'6,' 6',) -,**2,)' =6-,' 1 ',)*' 8)1/*' 620' 6' ;--*0' 5182% ()*' 1 >*' 86.'*_; +6/*2,',1',)6,'1 'D;.-6-% 1.D-119*' & 4 ' ' T' 6--6-'6 ' ' '.% +% */6-;.' <6-, 2;.I' M.;-26?*0' 1)7;.X' 86.' D1?'6,' ,;,,56-0,' 2' RR' .,;0 *0'6,'(;D 25*2' 20' 6,*-86-0.' 6,' & ,,*2D*-5' M;20*-' <*/62>,)12X % , C : 8)*-*')*'0*+1,*0') ?.*/',1' - *2,6//625;65*.% &)*2' ,)*' 26D6=, .,.' 6-1.*')*' 8-1,*' 620' .=19*' 656 2.,' ,)*?'*.=*> 6// '656 2.,' ,1>9T' D;,' 26// ')*' A1 2*0' ,)*?')?./% D1;,' N')*' 56+*';=',) .'*2,);.6.?' 620' 8*2,',1' 6./*' 6..;?25',)*' 26?*' 1 ' 1--).*;.% B*' D*>6?*'=-1 *..1-' 1 '-)*,1-'>',)*-*' 2' NST' 1 ',)*^ 1/15 ' T' 620'0 *0' >,% S % ' 7<*/>) 1-7 06?' N !' 6 :' : *-[15' 5 26 + '.%+% *//6- ; . 'B6>1D ; .% *>' 1 ! *// ,*.' I1@ ' U/8 '6'.1> *, '8) >)' 6-1.*' 6,' 2,8*-=' 6D1;,' N '620' .1' >6//*0' -1?' O ,'D*>6;.*' ,)* '=-1+ 0*0' 5-6+*.' 1-',)*' 0*60% ()*' 8*-*' 6/.1' >6//*0',)*% /*L 62' -*,)-*2'620' .,*-.'D*>6;.*' /*L^ ;.' 86.',)*-'=6,-12% .',)*'>/*-5 '1',)6,'=*- 10',119' / ,,/*'>6-*' 1 ',)*' .>9' 620' 0 25'620' 0*.*-,*0' .;>)'6.' 8*-*' 2 *>,*0' 8 ,)'=*., /*2, 6/ 0 .1-0*-.' .1?*>1?=6.^ . 126,*' =*-.12.' 2' 2,8*-=' 1-?*0',)*?./*/+*.' 2,1' 6' .1> *,' 1-',)*' =*- 1-?62>*' 1 ',)*.*' -*/ 5 1;.' 0;,*.% ()*' + . ,*0',)*' .>9' 6.. .,*0',)*' 0 25' 620' D;- *0' ,)*' 0*60' 8 ,)'6'.1/*?2'72*-6/' 0 -5*' 620' 8*-*' 12',)6,' 6>>1;2,'>6//*0' 1//6-0.' M -1?' '1-' ',1' .25X% *>') ! 1>*,*.'1 ' 1//6-0.' 8*-*' 1-?*0' 2' ?1.',=6-,.' 1 '4*-?62 '620' 8*-*' .;==1-,*0'=6-,/ ' D ' ?62;6/ /6D1-' 620' =6-,/ ' D ' >)6- ,6D/*' 1026,12% 2' K')6-/*.' 0;9*' 1 ' :-5;20 ' 1D,6 2*0' 6' D;// -1?' 1=*' L,;.' ' 1-0*- 25',)6,',)*' */ ,*.' 1-' 1/* /6-0.' .)1;/0'D*' -629*0'6?125',)*' -*/ 5 1;.' 1-0*-.' 620' 0*/ +*-*0' - ?',)*'A;- .0 >, 12' 1 ',)*' D .)1=.% ',)*' /*L 62'D-*,)-*2'6' *8')1;.*.' 6-*' /* ,' 2',)*' 6->)0 ^ 1>*.*' 1 ' 1/152*' M 1/152*' LC/6C)6=*//*' ;-*2X' 620' 1 ',)*' . .,*-.' .1?*')1;.*.' 2' 4*-?62 'M 1/152*' ;..*/01- X' */5 ;?'620' -62>*% ' &*,[*-';%&*/,1') " = ' ' S T' 6--6-'6 ' ' ' .%+% T) L ! = */1. - 6% *>' 4 # */. ; . ' < '62' *L*5*, >6/ 8- ,fT-' 1 ' 8*0*2' 86.' D1-2' 2' S % : *' 86.' 6' ? 2 . ,*-' 1 ',)*' ;,)*-62') ;->)' 620' =-1 *..16' 1 ',)*1/15A7' 620' 1 ',)*' - *2,6/ /625;65*.' 6,',)*' $2 +*-. ' 1 ' $=.6/% : *' 86.',8 >*' 1 *-*0',)*' 0 52 , '1 '6->)D .)1='1 '$=.6/' D ;,'0*>/ 2*0% : *' =;D/ .)*0' ?62 '0 ..*-.,6, 12.'12' =1 2,.' 1 ',)*1/15 ') .,1-E '620' 62, _ ; , *.% : .' ?1.,' 0 .,25; .)*0' /6^ D1-.' 8*-*' 12',)1' 26,;-6/') .,1- '1 ',)*' D/*% '0 ^ -*>, 12' 1 ')6-/*.' d ')*',-6+*//*0' 1+*-',)*' =- 2> =6/' .,6,*.' 1 ' ;-1=*',1' 0*,*-? 2*',)*' 0 *-*2,'=/62,.' ?*2^ , 12*0' 2',)*' D/*' 62Z ,)*-*.;/,' 1 'D .'/6D1-.' .*+*2^ ,**2' 0 ..*-,6, 12. '=;D/ .)*0' 6,' 2,*-+6/.' -1?' K',1' '620' 6 ,*-86-0.' >1//*>,*0' 2,1' 12*' 81-9' >6//*0' # " ' ' % 2' $ ' $ % ' ' M $=.6/' '620' X' .' ., // 2' -*^ =;,*' 6.' 12*' 1 ',)*' ?1.,' ?=1-,62,' D119. M%2',)*' .;D^ A*>,% : *' FO *0' 2' S% **' ' '" '$ ' '$ ' '2% '+1/% T ; ' D ' .%+ */. ; . ' 6' =) /1.1=)*-' 1 ',)*' .*>120' >*2,;- '.;=^ =1.*0',1')6+*' D**2' 1 ',)*' = >;-*62' .*>,'D;,' 2>/ 2*0',186-0.' /6,12 .?% : *' / +*0',186-0.',)*' >/1.*' 1 ',)*' -* 52'1 ' 0- 62'620'0 ;- 25'=6-,'1 ',)6,'1 '<% ;-% 2,1^ 2 2;.' T 620'M ' - 5*2' D*'>1--*>,X' 8-1,*' 62' 6,,6>9' ;=12' ,)*' 6 ,)' 620' ?1-6/.' 0 ')- .,62.' *>,'D;,' 2>/ 2*0' 1 1' E E f ,O ' (-;*' .>1;-.* J' ,)*' 06,*' 1' 8)>)' 6-02*-' .;==1.*.',1')6+*' D**2' 6D1;,' % % S 3 ;-'12/ '9218/*05*' 1 ',' .' 0*- +*0' -1?' - 5*2 .'-*^ =/ ',1' ,' > ' / D % + X' 8)>)')18*+*-' 5 +*.' *L,-6>,.' .;> *2,/ '>1= 1;.',1' 6//18' 6' =-*,, ' .;-*' A;05?*2,'1 ' ,.'>12,*2,.' 620' =;-=1.*% ',)*' / *' 1 ' */.;./ ,,/*' 1-'21,) 25'A.'921& 2% ;^ > 62' 0*0 >6,*0') f / *' 1 ',)*' ?65 > 62' /*L620*-' ,'1' */.;.',)*' = >;-*62' 620' - 5*2' 0*2, *.',) .'=*-.12' 8 ,)',)*' 6;,)1-' 1 ',)*' D119' 656 2.,' 8) >)') *' 8 (1,%' ()*' .= - ,'1 ',)*' D119' .' 6-' ?1-*' /6,12 >',)62' = >;^ -*62' ()*' 6-5;?*2,.' 1-' 620' 656 2.,' ,)*' 0*2, , '1 ',)*',81' =*-.12.' ,);.' 26?*0' 6-*' .,6,*0' 2' *620*-' " "' # *' M B 1--* .' ,-62./% ' 4$._%X' 620' 2' 6; ' ? 2 "2' ' ' ' D " " ' =% N %

' 1,)' >12>/;0*',)6,',)*' =*-.12.' 8*-*0 *-*2,¾ ()*' *+ 0*2>*' 1',)* -'12*2*..' .'>) * /' - 5*2 .'>12A*>,;-*' ,)6,',)* ' 8*-*',)*' .6?*' =*-.12' I ! ' +' NSX¾ ()*' *+ 0*2>*' 656 2..',' .å M ¾X' ()6,' ;> 62 .' - *20' 6,,6>9*0' ?65 >6/ - ,*.'† ,)*' >/.;.' 1 ' - 5*2' .**?.',1')6+*' D*/ *+*0' ,)*?¾ MK¾X' ()6,' ;> 62 .' - *20' 86.' =-1D6D/ '62' = >;-*62† ,)*' 1,)*-' */.;.' 6' /6,12 .,' 1-' >/*>,>¾ MN¾X' ()6,',)*' 1-?*-' .' =-6 .*0' 1-') .' ? /02*..† ,)*' /6,,*-'.)18.' 862,'1 '?10*-6, 12¾ -*.C' .*2.*' I- ' !' $ 1' +1/¾ Å X'-*56-0.',)*?' 6.',)*' .6?*' =*-.12J' M 6--6-'@ ' -" "1'=¾ X¾ ' .' _;,*' 2' :6-?12 '8,)',)*' 8)1/*'.= -,'1',)*' D119' 6.' 8*// 6.'1',)*' 6562' =) /1.1=) '1',)*', ?*',1' .;=^ =1.*',)6,' */.;.' .'6.' -5*2' .;==1.*0',)*' =>;-*62' - *20' 1 ' ;> 62† 620',)6,' 2',) .',-*6, .*')*-5;*.' 12' 62 '=- 2> =/*.',)6,' ?6 ' .*-+*') .' =;-=1.*¾ ;,' 8)1*+*-' */.;.' ?6 ')6+*' D**2¾) .' 8-, 25.' 6-*' +*-.' ?=1-,62,',1')-., 62' 6=1/15*, >.¾ ()*' 6-*' +6/^ ;6D/*' 12' 6>>1;2,'1',)*-'60? .. 12.'1',)*' 5-620' 6>,.' 620' 01>,-2*.' 1',)*' 41.=*/6.'=-*6>)*0' D',)*' 6=1.^ ,/*.' 620' >12,6 2*0' 2',)*-' 8-, 25.' D' 62' *2*? ' 8)1' / +*0' /,,/*' ?1-*',)62' 1 A*');20-*0' 620',)-, ' *6-.' 6 .*-',)*' 6.>*2. 12' 1'1;-' 1-0¾ :*')6.' 2*6-/ ' * 5), '_;1,6, 12.' -1?',)*' D119.' 1',)*' *8' (*.,6^ ?*2,'8)>)')*' 21,'12/ '6==*6/.',1'6.'*L .,25'D;,'6.' ;2 +*-.6// '-*>* +*0' D',)*')-., 62.' 1',)6,'65*' 6.' >-*0 D'*' 620' 0 + 2*¾ :*' .'?1.,'?2;,n7 2').'-* *-^ *2>*.',1',)*' > ->;?.,62>*.'1',)*' / *'1')-.,'620') .' 6=1./*.'8)>)'.)18.',)6,')*' 86.'8*// 6>_;6 2,*0' 8,)' ',)*?' 620',)6,'21' 12*' 0*2 *0',)*?¾ :*' *+*- 8)*-*' -0>;/*.',)*' 0*6' 1';-' 1-0.' 0 + 2 , '>12,-6., 25' M+' †' + ' R'*,>¾ 620',)*-* -*+*6/.',)*' -*6/ 5;20' 8,)',',)6,'1')' .' =1+*-, '.; *- 25.' 620' 0*6,)7' 8)>)'=-1+*.'21,'12/ ',)6,',)*')-., 62.' 1',)6,'*6-/ ' 65*' 6+18*0',)*' -'D*/*' 2',)*' 01>,-2*'D;',)6,' */.;.') ?.*/ ',)1;5)' 62' ;2D*/*+*-' 1;20' ,' 2',)*' 01>;^ ?*2,.',1'8)>)')*'-*' *-.' ,)*' .1;->*' 1') .'6>_;6 2,^ 62>*' 8,)',)*')-., 62'. .,*?J'M ;>9' .¾+¾X¾ <1-*^ 1+*-')*' .',)*'`1-5 26/-*=-*.*2,6,+*' 1'6'9 20'1' 2^ ,*//*>,'8)>)'6.'=-*.*2,*0' ,.*/'1 *-' 620'1+*-' 656 2' 2',)*' +6-1;'6,,6>9.'?60*' 12')-., 62, å 8,'620' 6>;,*2*..' 8,)1;',*6-2*..' =;-=1.*' 1-' 0*=,)' 1' -*^ .*6->)'† 6' 81-/0/ ';20*-.,620 25',)6,'5/62>*.'?*-*/ ' 12',)*' .;-6>*'620' 0*/5),.' 2');2,25' ;='0 >;/,*.' 620' >12,-60>,12.¾ :.'1DA*>,12.'656 2.,')-., 62^ ,'.*-+*' 12* ?=1-,62,'*20å,)*' =-*.*2,' 2' ,)*' >/*6-*.,'?622*-',)*' 1==1., 12' D*,8**2',)*')-., 62' .,620 25©5-1;20' 620',)6,'1',)*' 62> *2,' 81-/0' † 620' 2' 5*2*-6/',)*' -*/6, 12' 8)>)'-*+*6/*0' -*/5 12' 8 // *+*-' D*' 1;20',1')1/0',1',)*' B-1=20' 6..;?*0' D '26,;^ -6/-*6.12¾ ()*;.'?62 '1') .'1DA*>,12.' 620' .,-=>,^ ;-*.' D*>6?*',*.,?12*.' 1-',)*',-;,)J'M *620*-' ¾>¾X¾ 6-02*-' I- $' >)6=' L+ †' " 1' + ' K ' ._¾X' 5+*.' ;// .;?? 6-*.' 1',)*' D119' >/6..*0I;20*-' 0 *-*2,')*60.'*.=*> 6// '8,)'-* *-*2>*',1',)*' 6;,)*2^ ,>6, 12' 1',)* *119.'1',)*' ¾ (¾X' 1-' 8)>)',)*-*' 6//;^ .12.' 620'> ,6, 12.' 6-*' 1' .=*> 6/+6/;*' 6.' >1? 25' -1?' 6')*6,)*2' 1==12*2,¾ ' ;// 626/ . .' .' 6/.1' 5 +*2' D' *620*-' "1' # ' ' S' ._¾M(1-* .',-62./¾X' 620' D' ([.>)-2*-'@ ' '# ' 'QK' ._¾ -*.C' .*2.*' 2') .' # ' 'N6(' '- ' !$(' 'MKO' .*-*.' ' '._¾X'6,,*?=,.' 25*2 1;./'6'-*=-10;>, 12' 1' */.;.','-*6, .*' 6.' 56,)*-*0' -1?' -5*2' 8)>)' 6--6' 1//18.' I '# ' '@ ' "'/*>,¾ X' 2',)*' 1;./2*' 8)>)' 8*')*-*' =-*.*2,¾ ()*'-* *-^ *2>*.' 6-*',1',)*' *2*0>,2*' *0,12' M 6-.' NNX' */.;.' 2,10;>*.'6'B*8.)'-6DD'6.'1==1.25')-., 62^ ,'-12?',)*' :*D-*8'?121,)*.,>'=1 2,'1'+*8¾ ()*' -6 ÅD' -.,'>-,>.*.',)*' 1';)-., 62,'620' ,)*2',)*' 6>,.' 26--6,*0¾ :*' =1 2.,'1;,' 2>12.. ,*2^ > *.' 2' ,)*' 41.=*/ 26--6,+*.' 1',)*' 5*2*6/15A7 1'' /1.1=) '1-',1')*6,)*2'-*/ 5 12')*' -*56-0.'6.' 2>12,*.,^)-.,†;.,*-.',)*¾ ?1.,'D/6.=)*?1;.'>6/;?2 5*.' >12>*-2 25',)*' 2>6-26, 12'†,)?.',)*' 26--6,+*' 1',)*' 2^ 62>' 2,1'-0>;/*† ?=;,*.'1;-' 6+1;-.'?-6>/*.',1' ?65 >†6,,6>9.') .'0+2, † 620'>12>*2,-6,*.',)*'D,^ 1-0.' ?1.,')1/ '=6..12¾ 6>)' 6>,' 1'0**=*2 25' .1--18' 2',)6,'0+2*',-65*0 ',)*' D*,-6 6/',)*' ?*2^ ,6/625;.)',)*' .6>-*0'6512 'M 'K X' .'?60*',)*' .;DO' A*>,'1'-*?6-9.'>)6-6>,*-[*0'21'/*..'D'>16-.*2*..'1' ,6.,*'620';2 6-2*..',)62',1',)*')-., 62' ?20'D' -^ -*+*-*2>*¾ 2.,*60'1')'))*6-,'D*25',1;>)*0'D',)*' ?6A*.,'1'1';-' 6+1;-.'.1--18' >/.;.'12/ ' 20.' 62' 6-5;?*2,'656 2.',)*'0+2*')6-6>,*-'1',)*' 601-6D/*' .;*-*-'M ' SX¾ ()*' 8120*-.'6>>1?=62 25')-.,.' 0*6,)'6-*',-*6,*0'6./*5*20.'M 'NQX†,)*' -*.;--*>,12' -*56-0*0'6.'62' 2+*2,12'1-'62'1=,>6/0*/;.12'M ' R' ' QX¾ ,*-' */.;.')6.',);.'?60*',)*'B*8',)*'?*62.'1'6' -;,)/*..' 6,,6>9' 12')-., 62, ')*') ?.*/'0 -*>,.' 6' .?/6-'1=*' 656 2.',)*'B*8.)'-*/5 12' ,.*/'M 'g' 620' */.*8)*-*X¾ :*' 51*.',1',)*' 1-5 2' 1',)*-') .^ ,1-'†0*.>-D*.',)*'B*8.'6.')6+25'/* ' 5 =,' 2'6'.*^ 0,12'M 'g' XT' 6.'D*25',-;*' ,=*.' 1',)*')-., 62.' 2',)*-'62>*2,'6>,1;.2*..'M 'g' XT' >12.0*-.'<1.*.' ,1'D*' 12/A'12'6'/*+*/'8,)',)*' *6-/'4-**9'/*5./6,1-.' M ' QT' 'KKXT'-*56-0.'B*8.)'-,*./9*'>-);?>.12' ,1'D*'D1--18*0' -1?' 5A=,†>)6-5*.' 62,)-1=1?1-^ =).?'12'B*8.)',)*1/15 'M+' †+ 'SKX'620'0*>/2*.' 6//18 25',)*' 6//*51->6/ 2,*-=-*,6,12' 2' *L=/626, 12' 1' ,'M+' QXT' *L6?2*.'B*8.)'=-1=)*> '=6-6//*/.' ,8,)')*6,)*2'1-6>/*.'M+ 'NT' + X'620'>/6?.',)6,' ,)*' 51102*..'21,',)*',-;,)'1'6'=-1=)*> '1;7),',1'D*' >12. 0*-*0'M+ ' XT' =1 2,.',1',)*' 62> *2,' 01/6,-A71' ,)*' B*8.'6.'=-11',)6,',)*' 8*-*' 21,'D*,,*-',)62'1,)*-' 26, 12.' M+'KK KNXT' 620',1',)*' 0*.,-;>, 12' 1'B*-;.6C' '/*?'6.'=-11',)6,',D*A C8*-*' 21,' .=*> 6/ 6+1-,*.' 1' ')*6+*2¾ ,'/6.,')*' 6-- +*.'6,',)*-' 0*6' 1'>-*6, 12' -0>;/*.',)*' 1-0.'0 + 2 , '>12,-6., 25' M+' †' + ' R'*,>¾ 620',)*-*+*6/.',)*' -*6/5;20' 8,)',',)6,'1')' .' =1+*-, '.; *- 25.' 620' 0*6,)7' 8)>)'=-1+*.'21,'12/ ',)6,',)*')-., 62.' 1',)6,'*6-/ ' 65*' 6+18*0',)*' -'D*/*' 2',)*' 01>,-2*'D;',)6,' */.;.') ?.*/ ',)1;5)' 62' ;2D*/*+*-' 1;20' ,' 2',)*' 01>;^ ?*2,.',1'8)>)')*'-*' *-.' ,)*' .1;->*' 1') .'6>_;6 2,^ 62>*' 8,)',)*')-., 62'. .,*?J'M ;>9' .¾+¾X¾ <1-*^ 1+*-')*' .',)*'`1-5 26/-*=-*.*2,6,+*' 1'6'9 20'1' 2^ ,*//*>,'8)>)'6.'=-*.*2,*0' ,.*/'1 *-' 620'1+*-' 656 2' 2',)*' +6-1;'6,,6>9.'?60*' 12')-., 62, å 8,'620' 6>;,*2*..' 8,)1;',*6-2*..';=;-=1.*' 1-' 0*=,)' 1' -*^ .*6->)'† 6' 81-/0/ ';20*-.,620 25',)6,'5/62>*.'?*-*/ ' 12',)*' -6>*'620'0*/5),.' 2');2,25' ;='0 >;/,*.' 620' >12,-60>,12.¾ :.'1DA*>,12.'656 2.,')-., 62^ ,'.*-+*' 12* ?=1-,62,'*20å,)*' =-*.*2,' 2' ,)*' >/*6-*.,'?622*-',)*' 1==1., 12' D*,8**2',)*')-., 62' .,620 25©5-1;20' 620',)6,'1',)*' 62> *2,' 81-/0' † 620' 2' 5*2*-6/',)*' -*/6, 12' 8)>)'-*+*6/*0' -*/5 12' 8 // *+*-' D*' 1;20',1')1/0',1',)*' B-1=20' 6..;?*0' D '26,;^ -6/-*6.12¾ ()*;.'?62 '1') .'1DA*>,12.'620' .,-=>,^ ;-*.' D*>6?*',*.,?12*.' 1-',)*',-;,)J'M *620*-' ¾>¾X¾ 6-02*-' I- $' >)6=' L+ †' " 1' + ' K ' ._¾X' 5+*.' ;// .;?? 6-*.' 1',)*' D119' >/6..*0I;20*-' 0 *-*2,')*60.'*.=*> 6// '8,)'-* *-*2>*',1',)*' 6;,)*2^ ,>6, 12' 1',)* *119.'1',)*' ¾ (¾X' 1-' 8)>)',)*-*' 6//;^ .12.' 620'> ,6, 12.' 6-*' 1' .=*> 6/+6/;*' 6.' >1? 25' -1?' 6')*6,)*2' 1==12*2,¾ ' ;// 626/ . .' .' 6/.1' 5 +*2' D' *620*-' "1' # ' ' S' ._¾M(1-* .',-62./¾X' 620' D' ([.>)-2*-'@ ' '# ' 'QK' ._¾ -*.C' .*2.*' 2') .' # ' 'N6(' '- ' !$(' 'MKO' .*-*.' ' '._¾X'6,,*?=,.' 25*2 1;./'6'-*=-10;>, 12' 1' */.;.','-*6, .*' 6.' 56,)*-*0' -1?' -5*2' 8)>)' 6--6' 1//18.' I '# ' '@ ' "'/*>,¾ X' 2',)*' 1;./2*' 8)>)' 8*')*-*' =-*.*2,¾ ()*'-* *-^ *2>*.' 6-*',1',)*' *2*0>,2*' *0,12' M 6-.' NNX' */.;.' 2,10;>*.'6'B*8.)'-6DD'6.'1==1.25')-., 62^ ,'-12?',)*' :*D-*8'?121,)*.,>'=1 2,'1'+*8¾ ()*' -6 ÅD' -.,'>-,>.*.',)*' 1';)-., 62,'620' ,)*2',)*' 6>,.' 26--6,*0¾ :*' =1 2.,'1;,' 2>12.. ,*2^ > *.' 2' ,)*' 41.=*/ 26--6,+*.' 1',)*' 5*2*6/15A7 1'' /1.1=) '1-',1')*6,)*2'-*/ 5 12')*' -*56-0.'6.' 2>12,*.,^)-.,†;.,*-.',)*¾ ?1.,'D/6.=)*?1;.'>6/;?2 5*.' >12>*-2 25',)*' 2>6-26, 12'†,)?.',)*' 26--6,+*' 1',)*' 2^ 62>' 2,1'-0>;/*† ?=;,*.'1;-' 6+1;-.'?-6>/*.',1' ?65 >†6,,6>9.') .'0+2, † 620'>12>*2,-6,*.',)*'D,^ 1-0.' ?1.,')1/ '=6..12¾ 6>)' 6>,' 1'0**=*2 25' .1--18' 2',)6,'0+2*',-65*0 ',)*' D*,-6 6/',)*' ?*2^ ,6/625;.)',)*' .6>-*0'6512 'M 'K X' .'?60*',)*' .;DO' A*>,'1'-*?6-9.'>)6-6>,*-[*0'21'/*..'D'>16-.*2*..'1' ,6.,*'620';2 6-2*..',)62',1',)*')-., 62' ?20'D' -^ -*+*-*2>*¾ 2.,*60'1')'))*6-,'D*25',1;>)*0'D',)*' ?6A*.,'1'1';-' 6+1;-.'.1--18' >/.;.'12/ ' 20.' 62' 6-5;?*2,'656 2.',)*'0+2*')6-6>,*-'1',)*' 601-6D/*' .;*-*-'M ' SX¾ ()*' 8120*-.'6>>1?=62 25')-.,.' 0*6,)'6-*',-*6,*0'6./*5*20.'M 'NQX†,)*' -*.;--*>,12' -*56-0*0'6.'62' 2+*2,12'1-'62'1=,>6/0*/;.12'M ' R' ' QX¾ ,*-' */.;.')6.',);.'?60*',)*'B*8',)*'?*62.'1'6' -;,)/*..' 6,,6>9' 12')-., 62, ')*') ?.*/'0 -*>,.' 6' .?/6-'1=*' 656 2.',)*'B*8.)'-*/5 12' ,.*/'M 'g' 620' */.*8)*-*X¾ :*' 51*.',1',)*' 1-5 2' 1',)*-') .^ ,1-'†0*.>-D*.',)*'B*8.'6.')6+25'/* ' 5 =,' 2'6'.*^ 0,12'M 'g' XT' 6.'D*25',-;*' ,=*.' 1',)*')-., 62.' 2',)*-'62>*2,'6>,1;.2*..'M 'g' XT' >12.0*-.'<1.*.' ,1'D*' 12/A'12'6'/*+*/'8,)',)*' *6-/'4-**9'/*5./6,1-.' M ' QT' 'KKXT'-*56-0.'B*8.)'-,*./9*'>-);?>.12' ,1'D*'D1--18*0' -1?' 5A=,†>)6-5*.' 62,)-1=1?1-^ =).?'12'B*8.)',)*1/15 'M+' †+ 'SKX'620'0*>/2*.' 6//18 25',)*' 6//*51->6/ 2,*-=-*,6,12' 2' *L=/626, 12' 1' ,'M+' QXT' *L6?2*.'B*8.)'=-1=)*> '=6-6//*/.' ,8,)')*6,)*2'1-6>/*.'M+ 'NT' + X'620'>/6?.',)6,' ,)*' 51102*..'21,',)*',-;,)'1'6'=-1=)*> '1;7),',1'D*' >12. 0*-*0'M+ ' XT' =1 2,.',1',)*' 62> *2,' 01/6,-A71' ,)*' B*8.'6.'=-11',)6,',)*' 8*-*' 21,'D*,,*-',)62'1,)*-' 26, 12.' M+'KK KNXT' 620',1',)*' 0*.,-;>, 12' 1'B*-;.6C' '/*?'6.'=-11',)6,',D*AC8*-*' 21,' .=*> 6/ 6+1-,*.' 1' ')*6+*2¾ ,'/6.,')*' 6--+

, 12' M + ' T' + 'KT' + 'N X ,) *' 6// M + ' SK X'-*0*? =^ , 12' M+ ' T' + 'KQ' NST' + ' QX' ? 62 .' =/6>*' 2' >-*6^ , 12' M + ' T' + 'S KNX' ? 1-6/ >12+*-. 12.' M 'S X' 620',)*' -* .;--*>, 12' 1 ',)*' 0*60' M+ ' X% : .'=1 2,' 1 '+ *8' 1-' >- , > . 25',) * ?' .' 0*- +*0' -1 ?' ,)*' ;206 ? *2,6/ 0 ;6/ . ?' 1 ',)*' /6,12 >' . .,* ? T' ,)*' *,*-26/ .*+*-62>*' 1 ' ? 6,,*-' 620' ? 20 ' 1 ' 410' 020',)*' 8 1-/0T' 620',)*' -* *-*2>*' 1 ' 5110', 1',)*' -*5 12' 1 ' ? 20 ' *+ / ,1',)6I, 1 ' ? 6,,*-% ( ) ; . ' 21,' >12,*2,' 8 ,)') .' 1-? *-' 6,,6>9' 12' ,)*' 0*6' 1 '>-*6, 12' 2' 0 .>;.. 12' 8 ,)',)*' B* 8 ')*' -*^ , ; -2 .' ,1' ,)*' 0 .>;.. 12' -1 ?' ,)*' =) 1-1=) >6/' . 0*% : .' /6,12 .?' 8 // 21,' 6//18') ?' ,1' 60 ? , ' ,)6,',)*' 6D.1/;,*' 410',)*' -.,' 6; .*' >62')6+*' 62 ' >12,6>,' 8 ,)' ? 6,,*-% ,'/*60.') ?' 6/.1', 1' 5 +*' ?=1-,62>*', 1' ,)*' 0*6' 1 '1 41' 1-' 0 + 2*' ? *0 6,1-. ' D ' 8) >)',)*')6.?' .' //*0' D*, 8**2',)*' 0*6/ 510' 620',)*' 81-/0' M+ 'SQT' + 'KC h' N NSX' 21,' D* 25' 6D/*' 1,)*-8 .*' ,1' ?65 2*',)*' 6>, 12' 1 ',)*' =; -*' 1 ' 410' 12' 6' 81-/0' 1 ' ? 6,,*-% : *2>*')*' D/6 ? *.')- ., 62.' 1-' 6,^ , - D; , 25' 62' *+ / 26, ; -*', 1' 0*? 12. ' 620' 20.' 6' -*6.12^ 6D/*' 2,*-=-*,6, 12' 1 ',)*')*6,)*2' 81-.) =' M+ ' KX% ( )*' .6 ?*' 0 ; 6/ .',)*1- ' *L, 25; .)*.',)*' 0*6' 1 ',)*' 2>6-26, 12' 6.' 6' 0*5-606, 12' 1 %4 10T' 620' 6/.1',)*' 01>^ ,- 2*' 1 ',)*' 6// ' 26. ? ;>)' 6.' =. >)1/15 >6/ 0*,*- 1-6^ , 12' .' ?=1.. D/*' ',)*' .1 ; / D*' =; -*' 620' '*+ / D*' 6' 2*>*..6 '6,,- D ; ,*' 1 ' ? 6,,*-' M + ' RRX% & ,)',)*' 6// -*0*? =, 12' 6/.1' 0 .6==*6-. ' D*>6 ; .*',)*' =*- *>,' >6221, ' 60 ? ,' 1 ' >)625*T)- ., .' >1 ? 25' >1 ; /0' 12/ ' D*' ,1' >1--*>,' 8)6, ' 410' 6/-*60 ' 92*8 '1-' -*>, ' 8)6, ' 1 ; 5), ' ,1')6+*' D***2' >1--*>,*0' D* 1-*' M + ' N' QX% ; -,)*-' */. ; .' 6-5 ; *. ' ' + 2 , ' 0 0' 0*.>*20',)6, ' ,' 81 ; /0' 21, ' 6.. ; ?*' .1' /18/ '6' 1-?' 6.' B*. ; .% ( )*' .6 ?*' - 5^ 1-1 ; .' /15 >' >)6-5*.' 12')- ., 62 , ' ,)*' ; 20 ; *' */*+6^ , 12' 1 ' ? 62 ' 6.' 8*// 6.',)*' 6D6. *? *2, ' 1 ' 410% */. ; .' >62' 2* ,)*-' 60 ? .' ? 62' ? 1-*',) 62',)*' D-; , *.', 1' D*' ,)*' 26/ >6; .*' 1 ',)*' I ; 2 +*-. *' 21-' 6//18' ,)*' =1.. D / , ' 1 ' ? 62 .' 2*6-2*..', 1' 410' 7+ ' X% 3 : .' =62,) * . ? ' `0*., -1 25',)*' D6-- *-' 8) >)' .*=6-6, *.' ,)*' ? 6,*- 6/ -1 ? ',)*' ? 1-6/ ' 1D/ , *-6, *.',)*' =*->*=, 12' 1 ',)*' 6>,) 6, ' 6' . 25/*' -*** -*.=12. D/*' D* 25' ? 6 ' D*' 1 ' ? 1-*' 0 52 , ' ,) 62',)*' ; 2 +*-. *% I

( )*' 1-0*-' 2' 8) >/ ',)*' 1DA*>, 12.' 1 ' */. ; .' 6-*' 6-^ -625*0' 2' - 5*2 .' -*=/ ', 1') ?' .' 0 *-*2,' -1 ?', A 6, ' 6D1+*' 5 +*2' 2' .1 ?*' -*. =*>, .' 620', ' .',)*-* 1-*')*-*' . ; DA1 2*0a ( )*' -.,') 6/ ' 1 ' D119' ' .' =-* 6,1- ' M>) ' CL/X T ,)*' .*>120') 6/ ' ,15*,)*-' 8 ,)' D119' ' >12,6 2.' ,)*' 6,,6>9' D ',)*' B* 8' 12')- ., 62 , ' 5 +*2' 2' /*>, % ( )*' *6-/ ' =6-, ' 1 ' D119' ' M CRX' >12,6 2.' - 5*2 .' -* ^ ; ,6, 12' 1 ',)*' B* 8% ( )*' .; D.*_ ; *2, ' =6-, .' 620' -* ? 6 2^ 25' D119.' 5 +*' - 5*2 .' -* ; ,6, 12' 1 ' */. ; . .' 182' 6, ^ ,6>9' 12')- . , 62 , % -., ' */. ; .' 6,,6>9.',)*' >)6-^ 6>,*-' 1 ')- ., 62.' 2',)*' -* ? 6 20*-' 1 ' D119' % 2' D119' +')*' -*, ; -2.', 1') .' 6,,6>9' 12' B ; 06 . ? ' 620' 12' ,)*' >- =, ; -*.' 1 ' ,)*' /0' (*.,6 ? *2, ' *.=*> 6// ' 12' ? 62 '1',)*' 26--6, +*. ' *,)*-' -*56-0 25',)*' ? ' 6.' 6/.* 1-' 6.' D1--18*0' 620' 1DA*>, 25', 1',)* -' 62,)-1=1 ? 1-=) >' >)6-6>, *-' 6/.1' 1DA*>, 25', 1',)*' 6>>1 ; 2, ' 1 ' ? 62 .' =/6>* 2' >-*6, 12' 620' 1 ' 0 + 2*' 2, *- *-*2>*% 2' D119' +')*' >12, 2 ; *.') .' 6,,6>9' 12',)*' 01>,- 2*.' 1 ' D1,)' -*/ 5 12.' >) * / ' .1' 6-' 6.')*' >12. 0*-.',)*' ?', 1' D*' ; 2, -; *' 620' 2' D119' + ' .1' 6-' 6.')*' >12. 0*-.',)*' ?', 1' D*' D1--18*0' 0-655 25', 1 ' / 5), ',)*' 0 *-*2>*' 8) >)' *L .,*0' D*, 8**2' B ; 06 . ?' 620')- ., 62 , % 2') 119' + ', 1 ' =-1=) *> ' 620' .1 ?*' 1,) *-' 01>,- 2*. ' 6.' 8*// 6.',)*' *,) ^ >.' 1 ')- ., 62 , ' 6-*' *L6 ? 2*0' 620' 2 I D119' + ' 8) *2',)*' 6,,6>9' 12')- ., 62 , ' .' ? 6 2/ ' 1+*-' 6' 0*^ *2>*' 1 ' =6562 . ?' .' 1 *-*0' D ' */. ; .' >)' .',)*' , =*' 1 ' 6' =) /1.1=) >6/ 1DA*>, 1-' 656 2.',)- ., 62 , ' 6' / ,,/*' /6W-',) 62',)*' ? 00/*' 1 ',)*' .*>120' >*2, ; - % & *' ? **, ')*-*' 1-',)*' -.', , ? *' 6' -*? 6-96D/*' * 1-, ' 1 ' =6^ 562',) 1 ; 5), ' *20*6+1- 25', 1' *L, 25; .)',)*' 2*8' -*/ 5^ 12' T ,)*' 0* 2 , *' .,6, *? *2, .' 1 ' 6' ? 20',) 6, ' 2+*., 56, *0' .,' >/6 ? .' 620' -*A*>, *0' , % <1., ' 1 ',)*' 1DA*>, 12.' 1 ' */. ; .' 6- ' .1=) ., >6/ ' 6' *8' 6-*' 60 ? ,, *0' 0 >; /, *. ' D ; ',)*' =) /1.1=) >6/ >/6. .' 1 ',)*' ? ' 8 // D*' .**2', 1' D*' ,)*' >1-1//6- ' -1- ' / .' 5*2*-6/ =- 2> =/*' D* 1-*' *L^ =/6 2*0J' M 6--6-' % >%X%

! ' 77 *. >/*:',)*' 81-9.' 6/-*60 ' > , *0' .**' 6+*' # ' ' ! ' ' RST' 120' 2' ' ' -" '5 1' + ' K R' Q T' ; 081-,)' = 2 '$ 1' ' N ' _% M ? *- >62' *0 , 12XT')*00' # ' ' ' D9% ' >)% T' 20*? 622' ' 2 ('. " 1' *, >% Q K' : * , ' KT' >)6 ' " '" # ' ' g S T' B6>) ? 622 ' ' ' ' *, >% M *5 1 ? % QNS ,1XT E $ ' " "' # ' g T' *25*-' ' ' 6% ' M QKQ Q+1T ? 6 2,6 2.',)6,' */. ; .' 86.' 21,' 6' /6,12 .,XT' 4 *.*/*-' "! # ' ' g NR M21,*XT' <1.)* ? ' !' >*2, ' ' g R M6-5 :*.',)6,' *,)*' 62' /*L620- 62' /6,12 .,XT ; % ' ' QSQ' B62% 620' =-% **' 6/.1' / ' T' -1 4 T' < .! */, >') ; ->) ' 1-') - . , 62 . % **' $ '9 & !

*/, >' */ 5 12% $2/*..' =-*>*0*0' D ',)*' D*^ - 62. ',)*' */,.' 1-? *0',)*' -.,' 1 ',) 1.*' +6.,' 86+*.' 1 ' 201C ; -1=*62' ? ? 5-6, 12',) 6, ' -.,' -1 ?',)*' : ? 6^ /6 6.' 620',)*2' -1 ?',)*' M 6.=62' *6' .=-*60',)*? ^ .*/+*.' 1+*-' ; -1=*% ( ) H' =*1=/*' 1 ' ; 2921 82' 62, ^ ; , ' 21,' 12/ ' 6,' 12*' , ?*')7/0' 6// 1 ' & *., *-2' 620' *2, -6/ ' D ; ,' 6/.1' 62' ?=1-, 62,' =6-,' 1 ' 1 ;,)*-2' 620' 6., *-2' ; -1=*' 620',)*-' 6-? *.' ,)-*6, *2*0' 1 ? *' 620' . 6' < 21-% -*..*0' D6>9' D ',)*' 4*-? 62', -D*.' 620',)*2' >12_; *-*0' D ',)*' 1 ? 62.' 620' 6L12.',)*' */,.')6+*' 2S8' >*6.*0', 1' D*' 6>, +*' 65*2,.' 2') .,1-' 6.' 0 ., 2>, ' 26, 126/ D10 *.' 620')6+*' 20**0' 6' C>/*6-' 0*.>*2, ' 6.' 62' 22 ? L*0' -6>*' 12/ ' 2' - ,, 62 ' 2' -62>*' -*/620 ' & 6/*.' 620' =6-,' 1 ' >1, /620' 620',)*' 2 6// *-' - , .)' ./*.% ( )*' */,.' 1>>; = *0' 6' /18' ., 65*' 1 ' >; /, ; -*%% ( )*' 0*.= .*0' 65- >; /, ; -*' 8*-*' .9 / ; / ,-60*-.' 620' ? 2*-.' 620' =6.. 126, */ ' 120' 1 ' 86-' = -6> ' 1-26 ? *2, .' 620' 8 2*% ( )*' 8*-*' >-; */, 1',)*' -' 8 +*.' 620' >) /0-*2' 12',)*' 0*6,)' 1 ' >) * . ' =-6>, . *0' =1/ 56 ? ') 60' *8' -160.' D ; ,' D ; /, ' ? 62 ' 1-, *0' >, .*.' 620' + //65*.% ( )*' ') 60' 21' >1 ? =6>, ' 26, 126/ ; 2 12' D ; ,' 8*-*' 0 + 0*0' 2, 1' >62.' 620' 0 .,- >, .') 6+ 25' D ; ,' 6' ./ 5), ' *0*-6, +*' ; 2 12% ( )*-' .1> *, ' 5-60 ; 6// ' D*>6 ? *' ? 1-*' 620' ? 1-*' 6- .,1>-6, >' .1',)6, ' *; 06/ .?' .**?.' -1 ?' ,.' ?62 ' =1 2,.' 1 ' -*.*? D/62>*' ,1' D*' D ; ,' ,)*' 0*+*/1=? *2, ' 1 ' ,)*' */, >' .1> 6/ 1-0*-% ( )*' */,.') 60') 18*+*-' 6' =18*-. ; / D120' 1 ' ; 2 12' 2' ,)*-' -*/ 5 12' 620' =-*.,) 110% 2' ? 62 ' *6, ; -*.' ,)*' =-*.,.' -*.*? D/*0',) 1.*%1',)*' 62> *2, ' 5 =, 62.% ( )*' 2; ? *-1 ; .' 620' =18*-. ; / D10A7 1 ' =-*.,.' >6// *0' ' 2_, 12/ ' ; / //*0' 6// , DZ7 >*.' 1 ' -*/ 5 12' D ; ,' ,)*' 8*-*' 6/.1',)*' A ; 05*.',)*' *L=1 ; 20*-.' 1 ' > + / /68 ',)*' =) . > 62.',)*' 6.,-/1/15*-.',)*' 2.,-; >, 1-.' 1 ',)*' 1 ; ,) ' 620') 60' 2' .) 1-, ' 2',)*' -') 620.' 6// ,)*' .= -, ; 6/ / *' 1 ',)*' *2, -*' =*1=/*% ( )*' 8*-*' 21, ')*/0', 1' ? / , 6- ' .*-+ >*' =6 0' 21', 6L*.' 620' D1-*' 212*' 1 ',)*' D ; -0*2.' 1 ',)*' .,6, *% & ,)' . ; >)' =- + /*5*.' 6, ,** *0', 1',)*-' 1-0*-',)*' >) /0-*2' 1 ' - >)' 620' 21D/*' (6? / *.' 1 , *2' 8*-*' =/6>*0' 2',)*' =- *.,) 110' 1-' .1 ; 5), ' , ' 1 B) * -' 182' 8 //. % ( )*.*' 21+ >*.' 8*-*' =/6>*0' ; =0*-' 6' , -6 2 25' 8) >)' 1 , *2' /6.,*0', 8*2, ' *6-.' D* 27' >1 ? =*//*0', 1' >1 ? ', 1' ? *? 1-A' 62' ? ? *2.*' 2 ; ? D*-' 1 ' +*-.*.' >12^ , 6 2 25',)*' .*>-*,.' 1 ',)*' -*/ 5 12% .', 86.' C2*+*-' =*-? ,,*0', 1' >1 ? ? ,',)*.*' +*-.*.', 1' 8- , 25' ? 1.,' 1 ' ,)*' =6-, >; /6-.' 1 ',)*' */, >' -*/ 5 12') 6+*' D**2' /1.,% ( )*' -; 0.' 8*-*' 6' .>-*,' 1-' >/1.*' >1-=1-6, 12' 81-*' 6' =*>; / 6-' >1.,; ? *') 60' +6- 1 ; ' 5-60*.' 1 '=-*.,) 110' 620' 8*-*' =-*. 0*0' 1+*-' D ' 6') 5) C=-*.' */*/*>, *0' D ',)*' 8) 1/*' D10 % (1',)*' '%& ' 8*-*' 2, -; .,*0' ,)*' =-*.*-+6, 12' 1 ',)*' .6>-*0' /*5*20.' 620',)*' ,*6>) ^ 25' 1 ',)*? ', 1',)*' 1; 25' =-*.,. ( )*' ' ; .; 6// ') 60' ,)*-' =/6>*.' 1 %-*. 0*2>*' 620' 2.,-; >, 12' 2' -*, -*0' =/6>*.' 6.' 2' 0**=' 1-*.,.' 06-9' +6//* .' 1-' 2' ./620.% ( )*' '' M.**-.X 08*/,' 2' >, *.' 620' 7C //65*.' 620',)*-*' >120; >, *0',)*' =-6 *-.' .6>- >*.' 620' 1,) *-' -*/ 5 12.' - ,*.' 620' 1-*, 1/0',)*' ; ,-*' 620',)*' >1; 2.*/ 1 ',)*' 510.' -1 ?',)*' / 5), ' 1 ' D -0.' 620' 1,) *-' =) *21 ? *26' 1 ' 6, ; -*% ( )*' " ' =-*.*-+*0' 0*+*/1=*0' 620' .625', 1' ,)*' =*1=/*' / - >.' 1 ',)*% -*/ 5 12' 620' 1 ',)*' 5/1- 1 ; .' ,-60 , 12.' 1 ') *-1*.' 6 ? 125',)*' -' 62>*.,1-.% ( )*' 1 ,*2

from his second missionary journey; and when he wrote his epistle to the Romans, in the course of the third journey, an organized church seems to have been formed here (Rom. xvi, 1), probably a branch of that in Corinth (see Pauli, in the *Miscell. Duisb.* i, 51 sq.). See PHŒBE. The first bishop of this church is said (*Apost. Const.* vii, 46) to have been named Lucius, and to have been appointed by Paul. The distance of Cenchreæ from Corinth was seventy stadia, or about nine miles (Strabo, viii, 380; Liv. xxxii, 17; Pliny, iv, 4; Apulej. *Metam.* x, p. 255, Bip. ed.). Pausanias (ii, 3) describes the road as having tombs and a grove of cypresses by the wayside. The modern village of *Kikries* retains the ancient name, which is conjectured by Dr. Sibthorpe to be derived from the millet (κέγκρι) which still grows there (Walpole's *Travels*, p. 41). The site is now occupied by a single farm-house. Close to the sea, and in parts even covered by its waters, are the foundations of a variety of buildings, the plans of which may yet be traced, as the walls still remain to the height of from two feet to three feet and a half. Some traces of the moles of the port are also still visible (Leake's *Morea*, iii, 233-235). The following coin exhibits the port exactly as it was described by Pausanias, with a temple at the extremity of each mole, and a statue of Neptune on a rock between them (see Conybeare and Howson, *St. Paul*, ii, 195).—Smith, s. v.

Colonial Coin of Corinth, with the Head of Antoninus Pius, and a diagram of the Haven of Cenchreæ.

Cendebæ'us (Κενδεβαῖος), a general left by Antiochus VII (q. v.) in command (στρατηγός v. r. ἐπιστρατηγός and ὑποστρατηγός) of the sea-board (παραλίας) of Palestine (1 Macc. xv, 38 sq.) after the defeat of Tryphon, B.C. 138. He fortified Kedron (q. v.) and harassed the Jews for some time, but was afterwards defeated by Judas and John, the sons of Simon Maccabæus, with great loss (1 Macc. xvi, 1-10). The account of Josephus (*Ant.* xiii, 7, 3; *War*, i, 2, 2) is somewhat different.

Cendevia, according to Pliny (xxxvi, 26), the name of a lake from which the river Belus (q.v.) takes its rise, near Mt. Carmel (see Reland, *Palæst.* p. 267); probably the fountains now called *Kurdany*, near Shefr Amur (Thomson, *Land and Book*, i, 486).

Cène. See LECÈNE.

Cennick, JOHN, was originally one of Wesley's lay preachers, who appointed him as a sort of lay-chaplain at Kingswood School in 1739. In a year or two he began to preach against Wesley's Arminian doctrines, and to raise a party within the Wesleyan Society. After unavailing delays and overtures of peace, Wesley read publicly a paper declaring, "by the consent and approbation of the Band Society of Kingswood," that Cennick and his followers "were no longer members thereof." Cennick afterwards united with the Whitefield Methodists, but did not continue long with them. He became at last a Moravian. He was a good though weak man, and his subsequent earnest and laborious life shows that he deserves more lenity than has usually been accorded to him by Methodist writers. After many years of diligent labor as an evangelist, he died in 1755. His *Discourses* were published in 1770 (2 vols. sm. 8vo); and a new edition, with a "Life," was published in 1852 by Matthew Wilks, who says: "He possessed a sweet simplicity of spirit, with an ardent zeal in the cause of his divine Master." The well-known hymn, "Jesus, my all, to heaven is gone," was written by Cennick.—Stevens, *History of Methodism*, i, 155; Darling, *Cyclopædia Bibliographica*, i, 615.

Censer, a vessel in which incense was presented in the Temple, being used by the Jews in the daily offering of incense, and yearly on the Day of Atonement, when the high-priest entered the Holy of Holies (2 Chron. xxvi, 19; Ezek. viii, 11; Ecclus. i, 9). On the latter occasion the priest filled the censer with live coals from the sacred fire on the altar of burnt-offering, and bore it into the sanctuary, where he threw upon the burning coals the "sweet incense beaten small" which he had brought in his hand (Lev. xvi, 12, 13). In this case the incense was burnt while the high-priest held the censer in his hand; but in the daily offering the censer in which the live coals were brought from the altar of burnt-offering was set down upon the altar of incense. This alone would suggest the probability of some difference of shape between the censers used on these occasions. The daily censers must have had a base or stand to admit of their being placed on the golden altar, while those employed on the Day of Atonement were probably furnished with a handle. In fact, there are different names for these vessels. Those in daily use were called מִקְטֶרֶת (*mikte'reth*, occurs only in 2 Chron. xxvi, 19; Ezek. viii, 11), from קָטַר, incense; whereas that used on the Day of Atonement is distinguished by the title of מַחְתָּה (*machtah'*, *something to take* fire *with*), or *coal-pan* (often "fire-pan" in the English version). We learn also that the daily censers were of brass (Num. xvi, 93) (according to the Mishna, *Tamid*, v, 5, in the second temple, also of silver), whereas the yearly one was of gold (Josephus, *Ant.* xiv, 4, 4). The latter is also said to have had a handle (Mishna, *Yoma*, iv, 4), which, indeed, as being held by the priest while the incense was burning, it seems to have required. It is conjectured that this distinction is alluded to in Rev. v, 8; viii, 3, where the angel is represented with a golden "censer" (λιβανωτός, from λίβανος, incense), and the twenty-four elders each with a golden "vial" (φιάλη). In the Apocrypha, silver (1 Esdr. ii, 13) as well as golden (1 Macc. i, 22) "censers" (θυΐσκη) are similarly referred to. Paul, in Heb. ix, 4, speaks of the golden "censer" as a thing which belonged to the Tabernacle, but the Greek word θυμιατήριον, which there occurs, may signify "altar of incense" (see Bleek, *Comment.* p. 488; Meyer, *Bibeldeut.* p. 7 sq.; Mynster, in the *Stud. u. Krit.* 1829; ii, 342 sq.). The latter of the above Hebrew words seems used generally for any instrument to seize or hold burning coals, or to receive ashes, etc. such as the appendages of the brazen altar and golden candlestick mentioned in Exod. xxv, 38; xxxvii, 23 (in which senses it seems rendered in the Sept. by ἐπαρυστρίς, ἐπαυτῆρ, or perhaps ὑπόθεμα). It, however, generally bears the limited meaning which properly belongs to the former word, viz. a small portable vessel of metal, on which the incense was sprinkled by the priest to whose office this exclusively belonged (2 Chron. xxvi, 18; Luke i, 9). Thus "Korah and his company" were bidden to take "censers," with which, in emulation of Aaron and his sons, they had perhaps provided themselves (comp. Ezek. viii, 11); and Moses tells Aaron to take "*the* censer" (not *a*, as in the A. V.), i. e. that of the sanctuary or that of the high-priest, to stay the plague by atonement. The only distinct precepts regarding the use of the censer are found in Num. iv, 14, where among the vessels of the golden altar, i. e. of incense, "censers" are reckoned; and in Lev. xvi, 12, where we find that the high-priest was to carry it (here also it is "*the*," not "*a* censer," that he is ordered to "take") into the most holy place within the vail, where the "incense" was to be "put on the fire," i. e. on the coals in the censer, "before the Lord." This

must have been on the Day of Atonement, for then only was that place entered. Solomon prepared "censers of pure gold" as part of the same furniture (1 Kings vii, 50; 2 Chron. iv, 22). Possibly their general use may be explained by the imagery of Rev. viii, 3, 4, and may have been to take up coals from the brazen altar, and convey the incense while burning to the "golden altar," or "altar of incense," on which it was to be offered morning and evening (Exod. xxx, 7, 8). So Uzziah, when he was intending "to burn incense upon the altar of incense," took "a censer in his hand" (2 Chron. xxvi, 16, 19). See ALTAR.

Ancient Egyptian Censers.

1, Throwing incense on the flame in censer. 2. Balls of incense burning in censer; *a a*, Boxes for holding incense. 3, 4. Censers of different forms. 5. Box or cup for incense. 6, 7. Head of handle and pan of censers, in bronze.

These intimations help us to conclude that the Jewish censers were unlike those of the classical ancients, with which the sculptures of Greece and Rome have made us familiar, as well as those (with perforated lids, and swung by chains) which are used in the Church of Rome. It is observable that in all cases the Egyptian priests had their costly incense made up into small round pellets, which they projected successively from between their finger and thumb into the censer at such a distance that the operation must have required a peculiar knack, such as could have been acquired only by much practice. As the incense used by the Jews was made up into a kind of paste, it was probably employed in the same manner. See Sonneschmid, *De Thymiaterio sanctissimi* (Viteb. 1723); Deyling, *Observv.* ii, 565 sq.; J. G. Michaelis, in the *Mus. Brem.* ii, 6 sq., and in Ugolini *Thesaur.* xi; Wentz, in the *Nova Biblioth. Brem.* v, 337 sq.; Zeibich, *De thuribulo aureo* (Gerl. 1768); Köcher, *id.* (Jen. 1769); Braun, *Selecta sacra*, p. 208 sq.; Rogal, *De thuribulis* (Regiom. 1724; also in Ugolini *Thes.* xi). See INCENSE.

CENSER, in Roman Catholic worship. See THURIBLE.

Censorship OF BOOKS, supervision of publications by means of a preliminary examination and authorization, under Church or state law. The design of censorship has always been to hinder the publication of writings supposed to be dangerous either to the state or to religion (i. e. under Roman Catholic authority, to the Church). The practice has been defended (1) by the example given in Acts xix, 9, where the "books of curious arts" were burnt; (2) by the responsibility of the Church for the souls of the flock, liable to be destroyed by bad books; (3) by the duty of teaching, which includes the withholding of bad doctrine as well as the furnishing of good.

Before the invention of printing, it was comparatively easy to control the circulation of manuscripts, and to destroy them when thought necessary. But the discovery of that art, and the spread of the Reformation in the sixteenth century, induced stronger measures and rules on the part of the Roman Church than had been known before, in order to prevent the diffusion of heretical literature. A censorship was officially established by the bull of Leo X, May 12, 1515, commanding the bishops and inquisitors to examine all works before publication, and not to tolerate any of heretical tendencies. The Council of Trent expressly prohibited the printing or reading of heretical books in the terms following: "No one shall be permitted to print, or cause to be printed, any books relating to religion without the name of the author; neither shall any one hereafter sell such books, or even retain them in his possession, unless they have been first examined and approved by the ordinary, under penalty of anathema, and the pecuniary fine adjudged by the last Council of Lateran. And if they be regulars they shall obtain, besides this examination and approval, the license of their superiors, who shall examine the books according to the forms of their statutes. Those who circulate or publish them in manuscript, without being examined and approved, shall be liable to the same penalties as the printers; and those who possess or read them, unless they declare the authors of them, shall themselves be considered as the author. The approbation of books of this description shall be given in writing, and shall be placed in due form on the title-page of the book, whether manuscript or printed; and the whole, that is, the examination and the approval, shall be gratuitous, that what is deserving may be approved, and what is unworthy may be rejected" (*Session IV*). A committee was appointed to carry out this law by proper enactments, which resulted in the *Index Librorum prohibitorum*, or *Index Expurgatorius*, and in the establishment of the *Congregation of the Index* as a perpetual censorship. The popes sought also to obtain the assistance of the civil authorities in the carrying out of the censorship, and we find that several German states published edicts in 1524, 1530, 1541, 1548, 1567, 1577, etc. recommending a stricter control of the press. Still stricter regulations were afterwards enacted in Spain, Italy, and France. In 1522 the legate Chieregati maintained in the free town of Nuremberg that it was right to take and burn all works printed without authority, and that the printers and publishers of such works were punishable. In most Roman Catholic countries there arose a twofold censorship, that of the bishops and that of the state. In many cases the two were united into one. The process was simple: the censor or licenser read over the MS. to be printed, and, after striking out any objectionable passages, certified that the work might be printed. Hence, in old books, we see the word *imprimatur* (let it be printed), followed by the signatures of the authorities. In England a censorship was established by act of Parliament in 1662, 13 Char. II, c. 33: "An act for preventing the frequent abuses in printing seditious, treasonable, and unlicensed books and pamphlets, and for regulating of printing and printing-presses." This was a temporary act, renewed from time to time; and its renewal was refused in 1693, owing to a quarrel between the House of Commons and the licenser. Since that time there has been, generally speaking, no restriction on what any man may publish; and he is merely responsible to the law if in his publication he should commit any public or private wrong. On the Continent of Europe the censorship became generally less stringent after the conclusion of the peace of Westphalia, although Leopold I and Francis II continued to enforce it. It was abolished in Denmark in 1770; Sweden, 1809; France, 1827; Belgium, 1830; Spain, 1883; Germany and Austria, 1848. — Pierer, *Universal Lexikon*, s. v.; Chambers, *Encyclopædia*; Milton, *Liberty of Unlicensed Printing*; Mendham, *Literary Policy of the Ch. of Rome*; M'Crie, *Reformation in Italy*, ch. v. See INDEX (EXPURGATORIUS).

Censures, CHURCH (*Censuræ ecclesiasticæ*), the penalties by which crimes are visited by Church authority (potestas διακριτική), the scriptural authority for which is found in such passages as Tit. i, 13; iii,

10; 1 Tim. v, 20; Matt. xviii, 17, 18; John xx, 23; 1 Cor. v, 3; 2 Thess. iii, 6, 7; Gal. v, 12. These censures are, in the state churches, admonition, degradation (q. v.), excommunication (q. v.), suspension, interdict (q. v.), and irregularity (q. v.), which hinders a man from being admitted into higher orders.

"The canonists define an ecclesiastical censure to be a spiritual punishment, inflicted by some ecclesiastical judge, whereby he deprives a person baptized of the use of some spiritual things, which conduce not only to his present welfare in the Church, but likewise to his future and eternal salvation. It differs from civil punishments, which consist only in things temporal—as confiscation of goods, pecuniary mulcts or fines, and the like; but the Church, by its censures, does not deprive a man of all spirituals, but only of some in particular. This definition speaks of such things as conduce to eternal salvation, in order to manifest the end of this censure; for the Church, by censures, does not intend the destroying of men's souls, but only the *saving* them, by enjoining repentance for past errors, a return from contumacy, and an abstaining from future sins" (Hook, *Church Dictionary*, s. v.). All churches claim the right of censure. Art. 30 of the Westminster Confession is as follows: "*Of Church Censures.*—The Lord Jesus, as king and head of his Church, hath therein appointed a government in the hand of Church officers, distinct from the civil magistrate. To these officers the keys of the kingdom of heaven are committed, by virtue whereof they have power respectively to retain and remit sins, to shut that kingdom against the impenitent both by the word and censures, and to open it unto penitent sinners by the ministry of the Gospel, and by absolution from censures, as occasion shall require. Church censures are necessary for the reclaiming and gaining of offending brethren; for deterring of others from like offenses; for purging out of that leaven which might infect the whole lump; for vindicating the honor of Christ, and the holy profession of the Gospel; and for preventing the wrath of God, which might justly fall upon the Church, if they should suffer his covenant, and the seals thereof, to be profaned by notorious and obstinate offenders. For the better attaining of these ends, the officers of the Church are to proceed by admonition, suspension from the sacrament of the Lord's Supper for a season, and by excommunication from the Church, according to the nature of the crime and demerit of the person." In most Protestant churches, censures can only be inflicted after trial by the peers of the accused person. On the persons liable to Church censures, and the crimes for which they were inflicted in the ancient Church, see Bingham, *Orig. Eccles.* bk. xvi, ch. iii; and on the rightfulness of Church censures, Burnet, *On the Articles*, art. 33; Palmer, *On the Church*, ii, 277; Watson, *Theol. Institutes*, ii, 600 (N. Y. ed.). See also Discipline; Excommunication.

Census, a term that does not occur in the A. V. (although it is found in the original text of the N. T. in the Greek form κῆνσος, "tribute," Matt. xvii, 25, etc.), while the act denoted by it is several times referred to both in the Heb. and Gr. Scriptures (מִפְקָד, or מִסְפָּר, "*numbering*" combined with lustration, from פָּקַד, to *survey* in order to purge, Gesenius, *Thes.* p. 1120; Sept. ἀριθμός; N. T. ἀπογραφή; Vulg. *dinumeratio, descriptio*). See Population.

Ancient Egyptian Registration.

I. *Jewish.*—Moses laid down the law (Exod. xxx, 12, 13) that whenever the people were numbered an offering of half a shekel should be made by every man above twenty years of age, by way of atonement or propitiation. A previous law had also ordered that the first-born of man and of beast should be set apart, as well as the first-fruits of agricultural produce; the first to be redeemed, and the rest, with one exception, offered to God (Exod. xiii, 12, 13; xxii, 29). The idea of lustration in connection with numbering predominated also in the Roman census (Smith, *Dict. of Class. Antiq.* s. v. Lustrum), and among Mohammedan nations at the present day a prejudice exists against numbering their possessions, especially the fruits of the field (Hay, *Western Barbary*, p. 15; Crichton, *Arabia*, ii, 180; see also Lane, *Mod. Egypt.* ii, 72, 73). The instances of numbering recorded in the O. T. are as follows:

1. Under the express direction of God (Exod. xxxviii, 26), in the third or fourth month after the Exodus, during the encampment at Sinai, chiefly for the purpose of raising money for the Tabernacle. The numbers then taken amounted to 603,550 men, which may be presumed to express with greater precision the round numbers of 600,000 who are said to have left Egypt at first (Exod. xii, 37).

2. Again, in the second month of the second year after the Exodus (Num. i, 2, 3). This census was taken for a double purpose: (*a.*) To ascertain the number of fighting men from the age of 20 to 50 (Joseph. *Ant.* iii, 12, 4). The total number on this occasion, exclusive of the Levites, amounted at this time also to 603,550 (Num. ii, 32); Josephus says 603,650: each tribe was numbered, and placed under a special leader, the head of the tribe. (*b.*) To ascertain the amount of the redemption-offering due on account of all the first-born, both of persons and cattle. Accordingly, the numbers were taken of all the first-born male persons of the whole nation above one month old, including all of the tribe of Levi of the same age. The Levites, whose numbers amounted to 22,000, were taken in lieu of the first-born males of the rest of Israel, whose numbers were 22,273, and for the surplus of 273 a money payment of 1365 shekels, or 5 shekels each, was made to Aaron and his sons (Num. iii, 39, 51).

If the numbers in our present copies, from which those given by Josephus do not materially differ, be correct, it seems likely that these two numberings were in fact one, but applied to different purposes. We can hardly otherwise account for the identity of numbers even within the few months of interval (Calmet on Num. i; Kitto, *Pictorial Bible*, ib.). It may be remarked that the system of appointing head men in each tribe as leaders, as well as the care taken in preserving the pedigrees of the families, corresponds with the practice of the Arab tribes at the present day (Crichton, *Arabia*, ii, 185, 186; Niebuhr, *Descr. de l'Arabie*, p. 14; Buckingham, *Arab Tribes*, p. 88; Jahn, *Hist.* bk. ii, 8, 11; Malcolm, *Sketches of Persia*, xiv, 157, 159).

3. Another numbering took place 38 years afterwards, previous to the entrance into Canaan, when the total number, excepting the Levites, amounted to 601,730 males, showing a decrease of 1870. All the tribes presented an increase, except Reuben, which had decreased 2770; Simeon, 37,100; Gad, 5150; Ephraim and Naphtali, 8000 each. The tribe of Levi had increased 727 (Num. xxvi). The great diminution which took place in the tribe of Simeon may probably be assigned to the plague consequent on the misconduct of

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()-1;5)1;'6//*.*'6>>1;2,.',81'=1 2.'6-*'>/*6-% % ()6,'5-*6,'=6 2.'8*-*',69*2',1'6.>*-,6 2'620'-*5 .^ ,*-',)*'2;?D*-.'1'6-?*.';>>*..+*'9 25.'1'=1=/*'6,'+6-1;.',?*.' 1-',)*'-*6.12.'?*2,12*0'6D1+*% K% ()6,',)*'2;?^ D*-.'5+*2'2'.1?*'>6.*.'>62'8,)'0 >;/,'D*'->12^ >/*0'8,)'1,)*-'2;?D*-.'1'21'+*-'0.,62,'06,*'6.' 8*//6.'8,)',)*'=-*.;?*0'>6=6>,'1',)*'>1;2,-'1-' .;==1-,25'=1=;/6,12% ();.',)*'2,-*'?6/*'=1=;/6^ ,12'6D1+*'K' *6-.'1'65''*L>*=,25'*+'620' *2^ A6?2'6,' 6+0.'>*2.;.'.'5+*2'6.' N '1- 'MK' 6?% LL+'T' ')-12% LL X'.,-625*-.' NS T',1,6/' NS '1-' KN % ()*.*'2;?D*-.' M,)*'*L>*=,*0',-D*.'D*25'D1-2*'2'?20X'-*=-*.*2,'6' =1=;/6,12'1'21,'/*..',)62'',?*.',).'6?1;2,'1-'6,' /*6.,'SQ '1'8)1?'21,'/*..',)62'K '*6-.'/125*0',1'B;06)'6/12*'MK'6?% LL+'RX% D1;' ' *6-.'6,*-'B*)1.)6=)6,'86.'6D/*',1'56,)*-'-1?'B;06)' 620' *2A6?2'M 2>/;0 25'.;DA*>,'1-*52*-.X62'6-?' 1' S '*6-.'/6,*-' ?6[6)'>1;/0'-1/'-6.*'N '-1?',)*'.6?*'K',-D*.'620'K'*6-.' 6,*-',).'$[[6/')60'N '?*2'620'KS '1 >*-.% &)*,)*-',)*2;?D*-'1',)*' 1-*52*-.';DA*>,',1'B*^)1.)6=)6,'>12.,;,*.',)*'0 *-*2>*'6,',)*.*'=*-10.' ?;.,'-*?6 2'2>*-,6 2% (1'>1?=6-*',)*.*'.,?6,*.'8,)'=-1D6D/*'>6^ =6>,'1',)*' 1;2,-',)*'8)1/*'6-*6'1'6/*.,2*'2^ >/;0 25',)*',-62.CB1-062>',-D*.'.1'6-'6.',.'=1.. ^ D/*',1'6.>*-,6 2',)*-'/?,.'?6')*'.*,'0182'6.'21,' *L>**0 25' .;6-*'?/*.T'B;06)'620'*2A6?2'6' N N '620'46/**'6,'RN'._;6-*'?/*% ()*'=1=;^ ,6,12'?69 25'6//1862>*'1-',)*'*L>*=,*0',-D*.'81/0',);.)*'21,/*..',)62'N',1',)*'._;6-*'?/*% ()./ >12.0*-6D/''*L>**0.',)*-6,1'2?1.' ;-1=*62'>1;2^ ,-*.'620'*+*2'1'?62'1',)*'>1;2,*.'1' 25/620% ;'8),)/*'12',)*'12*')620'5-*6,'0R;X,'-*..,'12',)* 5*2;2*2*..'1'2;?*->6/*L=-*..12.'2' % (%',?;.,' D*'>12.0*-0%12',)*'1,)*-',)6,',)*'-*60 25.'12'8)>)' 1;-'+*-.12' .'1;20*0'5+*'8,)',-/25'+6-6,12.' ,)*.6?*'-*.;/,.'6.',)1.*'=-*.*2,*0'D',)*' *=,'620' D'BAD.*=);'MB6)2'+'NS'4/6..*'+'$!' ' % 1 'g'KNT'+1/% '=% QRX% **'*$! ' 2',)*'/.,'1'>,*.'1>>;=*0'D'7)1',-D*'1'B;06)' 2>/;025'?*2'6-*'1;20'KN'8,)',)*-'+//65*.J' 620'D' *2A6?2'2'KS% '12*'>, ' '.,;6,*'2'*2^ A6?2'8)>)'/9*'?62' '21,'6//,)*'1,)*-.'86.' 86//*0'8*'9218',)6,',)*'=1=;/6,12'=-1D6D/''*L>/;^ .+*'1'>)/0-*2'86.'K '8)/*'1'4 D*12',.'.60' ,)6,',86./6-5*-,)62' %B1.)'+'K KRT'L'KT'L+' K CSK'T'L+$ K KQT'L L' CRX% ',)*.*'>,*.J'?6' D*',69*2'6.'.6?=/*.'1',)*'-*.,'.'>/*6-',)6,'1;,)C

>-2' 6/*., 2* ' 6,' /*6.,' 86.' ' =1=;/1;.' D* 1-*' ,)*' *2,-62>*' 1 ',)*' =*1=/*' 1 ' .-6*/%
;,'B1.*=);.' 2') .'6>>1;2,.'M %X' 1 ',)*' =1=;/6, 12' 1 ' 46/ /**' 2') .' 182' , ?*' 620' MK%X' 1 ',)*' 2; ?D*-.' >125-*56,*0' 6,' B*-;.6/*?' 6,',)*', ?*' 1 ',)*' 6..1+*-' .)18.' 6' /6-5*' =1=;/6, 12' 2)6D , 25' 6/*., 2*% : *' .6 .',)*-*' 8*-*' ?62 ' > , *.' 2' 46/ /**' D*. 0*.' + /^ /65*. ' 1 ' 8) >)',)*' /*6.,' 8)*,)*-' > , *.' 1-' + //65*.' .' 21,'_; ,*' >*-,6 2')60' 21,'/*..',)62' ' 2)6D ,62,.' K 620' T' >1?=% (6> ,% # ' + ' QX% ,*-' ,)*' 0* *6,' 1 ' *., ;.' % % S'D* 1-*',)*' 1-?6/ 1;,^ D-*69' 1 ',)*' 86-' 6' >*2.;.',6972' 6,' B*-;.6/*?' D ',)*' =-*.,`' 1 ',)*' 2;?D*-.' 6..*?D/*0',)*-*' 1-',)*' 6..1^ +*-' 1;20*0' 12',)*' 2;?D*-' 1 '/6?D.' .6>- >*0' >1?^ =6-*0' 8 ,)',)*' =-1D6D/*' 2;?D*-' 1 '=*-.12.' =6-,69 25' 56+*' K ' =*-.12.' D*. 0*.' 1-* 52*-.' 620',)1.*' 8)1' 8*-*' *L>/;0*0' D ' >*-*?12 6(0* /*?*2,' M.**' (6^ >,% # ! ' KX% 2',)*' . *5*' ,..*/' '=*- .)*0' 620' 0;- 25',)*' 86-' R ' 8*-*' ?60*' >6=, +*.% *^ . 0*.',)*.*' ?62 ' 0*.*-,*0',1',)*' 1?62.' 620' 8*-*' 0.?..*0' /^ ',)*?' I ' + ' Q' R' NX% ()*.*' 2;?^ D*-.' 12' 62A' .;==1. , 12' 1 ' 1-* 52' 2 /;L' I 1 O ')',((, 8=1+X ?=/ '6'/6-5*' 26, +*' =1=;/6, 12' 620' SN *6-.'/6,*-' 2',)*' 2.;--*>, 12' 1 ' 6->)1>)*D6.' 12' 6..;.' .6 .',)6,' ' 1-, *0',182.' 620' RQ ' + /^ /65*.' 8*-*' 0*.,-1 *0' 620' Q '=*-.12.' 8*-*' ./6 2' 2' 86-' D*. 0*.' 6' >1;2,/*..' ?;/, ,;0*' 8)1' =*- .)*0' D ' 6? 2*' -*' 620' 0 .*6.*' .1',)6,' 6/*., 2*' D*>6?*' 6/^ ?1.,' 0*=1=;/6,*0' M 12' 6..%'"7 L ' X% 6.,/ ' ,)*-*' 6-*' 6D;2062,' ,-6>*.',)-)1;5)1;',)*' 8)1/*' 1 ' 6/*., 2*' 1 '6' ?;>)') 5)*-'-6,*' 1 ' *-,/, ' 2' 1-?*-'6.' >1?=6-*0' 8 ,)',)=-*.*2,', ?*. ' 6' *-,/, ' -*^ ?6-9*0' D ' =-1 62*' 8-,*-.' 620' 1 ' 8) >)',)*' =-*.*2,' 2*5/*>,*0' .,6,*' 1 '>;/, +6, 12' 6 1-0.' 21',*.,*' () .' >1?D 2*0' 8 ,)',)*' =1. , +*' 0 +2*' =-1?.*.' 1 ' =1=;(/1;.2>..' 2>-*6.*.',)*' =-1D6D / , ' 1 '6,'/*6.,'6==-1L ^ ?6,*' >1--*>,2*..' 2',)*' 1-*51 25' *., ?6,*.' 1 '=1=;/6^ , 12' M(6> ,% # ' + ' ST' ??% <6->' L + ' QT' B1.*=);.' N !' NT' B*-1?*' 12' [*9% LL ' 620' 6DD 2 >6/ 6;^ ,)1-, *.' 2' */620' >' LL+ T')68' - ' ' =,% ' >% ' =% NNS' N ' 620' K T' :6..*/_:,' - ' =% K K ' N T' ,62/* ' ' =% K ' N T' ,,1' " !' ? !' =% NNT' 6;?*-' ' =% Q Q QN' ==% L% % 1?=% 4*2% L ' ST' LL ' T' 7?% LL ' T' 25.' +' K T' >,.' L 'K X% **' <* 2*-' ' '#1 ' ' M 625*2.% S CSSXT' U* D>)' ' ' ' # ' M4*-6' S CSX% **' + ! :% 5 !' () .' ;20*-',)*' *=;D/>' >12. .,*0' 6-' 6.',)*' =-*.*2,' =;-=1.*' .' >12>*-2*0' 1 ' 62' *2-1/^ ?*2,'1 '=*-.12.' 620' =-1=*-, 'D ',-D*.' 620')1;.*)1/0.% +*- '=6,*-6? /6.' 86.'-*_;-*0',1' 6==*6-' D* 1-*',)*' >*2.1-.' 620' 5 +*').' 182' 26?*' 620').' 6,)*-.T ' ?6-- *0',)6,'1 ').' 8 *' 620',)*' 2;?D*-' 620' 65*.' 1 ').' >) /0-*2T 6 ,*-',) .' 62' 6>>1;2,' 620' +6/;6, 12' 1 ').' =-1=*-, .' 12' 8) >)' 6',6L' 86.',)*2' ?=1.*0% ',)*' / .,.' ,);.' 1D,6 2*0' *+*-' ?62 .' =1. , 12' 2',)*' .,6,*' 86.'-*5;/6,*0% ,*-',)*.*' 0;, *,')60' D*2' =*-^ 1-?*0' 6' '1-'.1/*?2'=;- >6, 12' 1 ',)*' =*1=/*' 1//18*0' D;,'21,'6/86 .' ? ?*0 6,*/ 'M ?,)' ' f & 4!'.% +% *2.;.% ** 12 .% +' ' KKT' >*-1' ' f' NT' /2,12'@ !'# ' '=% '>% X% ()*'>*2B .' 86.',69*2' ?1-*' 1-'/*..'-*5;/6-/ ' 2' ,)*' =-1+ 2>*.' ;20*-',)*' -*=;D/>' D '=-1+ 2> 6/ >*2D^ .1-.' 620',)*',- D;,*'-*5;/6,*0' 6,',)*' -'0 .>-*, 12' M >^ *-1'N f' /D% ' N SX' D;,' 21' >1?=/*,*' >*2.;.' 86.' ?60*' D* 1-*',)*', ?*' 1 ' ;5;.,;.' 8)1' >6-- *0' 1;,' ,)-** 5*2*-6/ 2.=*>, 12.' 1 ',) .' 9 20' + [% M %X' % % KQT' MK%X' % % QT' MN%X' % % T' 620' 6' =6-, 6/ 12*' % % % ()*' -*6.12' 1 ')1' =6-, 6/ *L,*2,' 1 ',) .' /6.,' 86.',)6,')*' *6-*0' 0 .,;-D62>*.' 1;,' 1 ' ,6/ '*5 2),' 21,' 6==*6-' 6.' 62' *L6>,1-*' ',)*' -*,;-2.' ?60*' ;5;.,6.') ?.*/' 9*=,' 62' 6>>;-6,*' 6>>1;2,' I" 8'/9*' 6' =- +6,*' ?62' 1 ').I'=-1=*-,' M 12' 6..% $+'N T' +' NT' ;*,12 ;.' ' K T' (6> ,;.' 2F% '//T' (6 % '2> -% 6=% -2*../' (61 % ' QQX% .=*> 6/ 6..*..?*2,' 1 '46;/' ;20*-' >1?2 .. 12*-.' .*2,' 1-',)*' =;-=1.*' .' = *2, 12*0' 2',)*' , ?*' 1 ' (D*- ;.7 M(6> ,% & ! ' N T' ST' 6%% N NSX% 2',)*' *8' (*.,' ,81' *2-1/?*2,.' 1 ',) .' 9 20' *L*>;,*0' ;2^ 0*-',)*' 1?62' 51+*-2?*2,' 6-*' ?*2, 12*0' D ' ;9*' I -- % % ' ',6L 25JX% ' ? ,)',% ' **' % % ' 2' >,.' ' N ' 6' >*2.;.' .' -* *--*0',1' 6.' 6,',)*', ?*' 6' 8*//C92182' *+*2,' 0;- 25' 8) >)' 6' >*-,6 2' B;^ 06.' 1 ' 46/ /**' -6 .*0' 62' 2.;--*>, 12% () .' ?=1-,01' ,)*',*-?',)*-*' *?=/1 *0' .';.,6 2*0' D 'B1.*=);.' I& ' L+ ' T' K X' 8)1' .6 .',)6,' ,' 86.' 62' 6..*..?*2,' 1 '=-1=*-, ' I - * ' 3' % ' L 7<6+8+XP' 8) >)',)*' =-1>12.;/ #;-2;.' M ;=A7+,1>' -*2;.X' >6-- *0' 1;,'12' D*)6/ '1 ',)*' *?=*-1-' ;5;.,;.'6 ,*-',)*' D62 .)?*2,' 1 '9 25' ->)*/6;.' M % % SX' 2' 8) >)' 6I' ?6- 6 'B;0.*6 %620' 0;?6*6' 8*-*'A1 2*0' 8 ,)',)*' =-1+^ 2>*' 1 ' A- 6' ;20*-' 0 -*>,.' 1?62' -;/*% ()*' 6, 2' 26?*' 1-' .;>)' 6' +6/;6, 12' 8) >)' 86.' 1>>6. 126/GE7' 2^ .,;,*0' 2' 6//,)*' =-1+ 2>*.' 1 ',)*' 1?62' *?= -*' .',)*' 8*//C92182' 12*' .' D ',2*8' /.,.' I - % I% ' " '>*2.1->*' 1/ D% ' KN' RX' 8*-*' ?60*' 1;,'1 ' =*-.12.' =-1=*-,E '620' D;. 2*..' 620' ;=12' ,B .' D6..',)*',6L' 86.' ?=1.*O% *7 ! ()*' ?6,,*-' 86.' 26,;-6// ' 10 1;.' 5*2*-6// ',1',)*' .;DA*>,..'*.=7' >6// ',1'A,)*' B*8.' \.**' + $;' 21,' 12/ ' 12' 6>^ >1;2,' 1 ',)*-' -*/ 5 1;.' =-*A;0>*.' \.**' 2 ;'D;,' 6/.1' ,)*' + 1/*2,' 620' *L,1-, 126,*' ?622*-' 2' 8) >)' -*2,6/ ,6L6, 12' .' 6/86 .' *2 1->*0% **' o $! ')*' 81-0' -- % % G .';.*0'6/?1.,' 2+6- 6D/ 'D4-**9' 8-,*-.' 1 ',)*' 1?62' =*- 10' 1-' '6/,)1;5)' 62' *2-1/?*2,' 1-',6L6, 12' .' ?1-*' =-1=*-/ '>6//*0' 6(-1-,C * - '6' .*2.*')18*+*-' 21,' 26==/ >6D/*' M*+*2' 2',)*' ,, >' 0 6/*>,X ,1' - % % T% 620' 0(-1 =07,6k6 I' M.**' & 6>).?;,)' ! ' & +' ' 'KNQ' KQ X% **' ($L ': ' & 3! K' 2' ;9*' ',)*-*' .' ?*2, 12*0' 62' *2-1/?*2,' 1-' -S % 1<6.')6+ 25',69*2' =/6>*' 2',)*' *6-'1 ')- .,' D -,)' D '1-0*-' 1 ' ;5;.,;.' 620' 6.',)*' 1 '.**?',1' *L=-*..' ;20*-',)*' .;=*- 2,*20*2>*' 1 '#;-2;.' 1-' ^ -*2 ;.' =-*. 0*2,' 1 ' - 6' *L,*20 25' 1+*-',)*' *2, -*' /620' I- ') G8! ()' .'**?.' 6>>1-0 25',1',)*' 06,*' 20 >6,*0',1')6+*' D**2' 0 *-*2,' -1?',)*' >*2.;.' 6D1+*' ?*2, 12*0' 6.' .' 20**0' ?=/ *0' 2',)*' /625;65*' ',)' .',)*' -.,'6LC/.,' 86.' ?60*' 8) /*' #;-2;.' 86.' 51+*-21-J' M6*2' % U% f' - % -*' ' 8 A' -, ') % 8! ;',) .'=6..65*' >12,6 2.' 5-*6,' g' KQX' 620' *' &*,,*' I ' / ' ! 2' /1>%X' 6/*., 2*' 86.' 21,' *,'0 -*>,/ ' 1?62' 1-' ?*0 6,*/ ' / 6D/*',1' .;>)' 6' ' M>1?=% B1.*=)% & ! L+ ' N' IT' L+ ' T' == 62' ! +' XT' 62' % U%G 6,',) .',?*',)*-* 1-*' 6.' D* 25' 2*.',)*-' 6+6 /6D/*' 1-',)*' =:-^ =1.*.' 1 ',)*' *?=*-1-' 21-' 606=,*0',1',)*' -*/6, 12.' 1 ',)*' B*8 .)'+6..6/C9 -,5.',186-0.') ?' 81;/0')67*' D**2' ,)*' ?1-*' / 9*/ ',1')6+*' >-*6,*0' 6' =1=;/6-' 1-' 51+*-2^ ?*2,6/ 0 .,;-D62>*',)62',)*' /6,*-' 12*' 6D1+*' -* *--*0' ,1% K% ',6// *+*2,.' 21') .,1->6/ ?*2, 12' 1 ' .1' ;2C% ;.;6/ 6' =-1>**0 25' 1>>;-.' * ',)*-' 2' B1.*=);.' 1-',)*' 1?62' 8-,*-.' 1 ',)*' =*- 10% N% *,' .1?*' 21,>*' 1 ',) .'*+*2,' .',)*' ?1-*',1' D*' L=*>,*0' 26.?>)' 6.',)*' - % % ' 2' _;*., 12' >1+*-*0',)*' 8)1/*' *?=-*' ',)*' -*.,-> ,12' 1 ',.%,*-?.' M ,)*' 8)1/*' *6-,)J' 1-' /620X',1' 6/*., 2*' D* 25' 6/,15*,)*-' 6-D ,-6- % % 2' 6' 1?62' *2.;.J ',)*' .;DA*>,.' 8*-*' 6..*..*0' 6,',)*' -*. 0*2>*.T 6' A1;-2* ',1',)*' 6 ,/ ' .*6,'>1;/0' 12/ 'D*' (*,;.,*' 12',)*' .;==1. , 12' 1 '6' B*8 .)'5*2*6/15 >6/ -*5 .,- % % .' 80+*.' 8*-*' 2' 21' >6.*'-*_;-*0',1'-*^ =6-',1',)*' 6..*..1-.' <6-'?;.)6+*' ;20*-.69*2' ;2^ 2*>*..6-/'6' A1;-2* ',1' *,)/*)*?'620' 6' .,6',)*-*' 86.')6-6.. 25' 2')*-' >120 , 12% 1?*' 1',)*.*' 1DA*>^ , 12.' 8*-*' >62+6..*0' D ' 6<;.' M 2') .' ' 2' /1>%XT' ()1/;>9' I? !' ?"f =% QQ' ._%X' :;.>)9*' I ' %!8' 620' 1,)*-.')6+*' =-*,, '* *>,^

6,*0' " *' . ?=/ ' 620' 26, ; -6// ' 6. . ; ? 25' ,) 6, ' ,) . ' 86. ' 6' -*5 . ,-6, 12' 2. , , ; , *0' 20**0' D ' ,) *' 1?62' *?=*^ -1- ' D ; , ' *L*>; , *0' 2' 6>>1-062>*' 8 ,)' ,) *' /1>6/ ; .65*.' M.** ,-125 .' # ' " ' ? % 1' 21,*.' ,1' g + X% *7' # $! 2' ,) *' -. , ' =/6>*' 62' - % 1 8' 86. ' =-1=*-/ ' 12/ ' 62' ' 1 ' ,) *' 2) 6D ,62, . ' 8)A>)' ?6 ') 6+*' BD**2 .*, ' 12' 11, ' 1-' . , 6, . , >6/' =; -=1.*. ' 2' 1-0*-' , 1' 1D, 6 2' 6' >1?=/*, *' 6>>1 ; 2, P1 ' ,) *' =1=; /6, 12 ' =*-) 6=. ' 6. ' 6' D6. ' 1-' 6' /*+ ' 1 ' , -11=. ' -1?' ,) . ' 6. ' 6' . ; DA*>, ' , *-- , 1- % ( ) *' *?=*-1-' ; 5 ; . , ; . ' >6 ; . *0' . ; >) ' 6' -1// 1-' 6D. , -6>, ' , 1' D*' ?60*' 1 ; ' M D-*+ 6- ; ?' , 1, ; . ' ?=*- ; *, 12 ^ ; . ' , ' X' 8) >) ' 2>/ ; 0*0' 62' 6>>1 ; 2, ' 1 ' ,) *' =-1^ + 2> 6/ 6// *. I M _ ; 62, ; ?' .1> 1-; ?' 2' 6-? . J (6> , ; . 7' & G' ' X' 620' -1?' ,) . ' 6/*., 2*' >1 ; /0' 21, ' 8*//)6+*' D**2' *L>*=, *0% ( ) *' 1-0*- 25' 1 ' . ; >) ' 6' -*5 . , *-' 86. ' 21, ' 2>12. . *2, ' 8 ,)' W) *' =1/ , >6/' -*/6, 12. ' 1 ' : *-10' M6. ' ,) 1 ; 5) , ' D ' : 1+*2 ' , ' ' ' K ' . _ %X ' . 2>*' D*' 86. ') ?. */ ' D ; , ' 6' 0*=*20*2, ' ?126->) ' 620' 6. ' ,) *' 81-0' 2' _ : *. , 12') 6. ' ; . ; 6// ' ,) *' . *2. *' 1 ' 6' / . , ' 8 ,)' 6' + *8' , ' 6. . *. ?*2, ' ,) *' =-1D6D / , ' 1 ' . ; >) ' 6' , 6L6, 12' , *-6/ . ?% ( ) *' -*/ 5 1 : ' >12. . , ' ?1. , / ' 2' =-1>*. ' 12' 1 ,) *' =1=/*' 6. ' 2' 6// 2' ,) . ' 2. , 62>*' >62' >*-, 6 2/ ' 21, ' D*' 0*2 *0% ? /6-' ,) *' =6=6/' >1 ; 2, - *. ' 1 ' ?*- >6' . ' +*- ' /18% ( ) *' 5-1. . C' *L6?=/*. ' 6-*' D ' 21' ?*62. ' 862, 25' 2' ?10*-2' , ?*. ' ' *. . ' . ; =*-. , , 12' =-*+6 /. ' *. =*> 6// ' 6?125',) *' 20 62. % 6?125' 0*=*20*2, ' >1 ; 2, - *. % <1-*1+*-' : *-10' 86. ' . 1' ' 2' ,) *' 20 62' + //65*. ' ,) *' -; /*' 1 ' ,) *' =- *. , ' . ' 6// ?1. , ' 6D. 1/ ; , *% & 1-.) =' >12. . , ' ?1. , / ' 2' =-1>*. 12. ' 620' . ; DA*>, ' , 1' ,) *' -; /*' 1 ' ; 5 ; . , ; . ') 6, ') *' 0 0' 21, ' *+*2' 2' ,) *' +*2*-6, 12' 1 ' ,) *' ?65*. ' 1 ' ,) *' .6 2, . % +*-A' ; ?*' , 1' A ; 05*' , 81' 1 ') . ' 182' .12. ' D ; , ' *--*0' ,) *' 20 62' *20*6+1-. ' , 1' =1. . *. . ' 6' .6 2, . ' ?65*' 8) >) ' . ' ,- 6/' , 1' ,) *' *?=*-1-' MB1. *=) ; . ' & !' L+ ' T' >1?=' =-*. *-+*0' 2' ,) *' >) ; ->) ' 620' 8) >) ') *>6-- *. ' 6D1 ; ' 6, ' L+ ' QXT' 620') *' 2' 6>, ' . ; D? ,, *0' , 1' 62' 16,) ' 1 ' 6/^ =-1>*. 12. ' 1262' 6' 5 /07' =1/*0' ,) *' +, +6/ 1 ' ,) *' /*5 62>*' , =' ,) *' *?=*-1-' 8) >) ' ,) 6, ') *' 0 0' 21, ' *+*2' 6D. . ; DA*>, ' , 1' ,) *' -; /*' 1 ' ; 5 ; . , ; . ') 6, ') *' 0 0' 21, ' *+*2' .6 2, ' ,) *' =1. . *. . 1-' 1 ' , 2*' ?65*' 5 +*. ' 6' 5-*6, ' D62_ ; *, ' ,1' , 69*' M ') % L+ ' K X% ( ) *' /6, , *-' > ->; ? . , 62>*' ?6 ' 620' ,) *' =- *. , ' -*>* +*. ' 1-' ,) *' ?6. . ' 8) >) ') *' .6 . ' 2' 20**0' D*' 26, ; -6// ' 6, , - D ; , *0' , 1' ,) *' +6. . 6/65*' 1 ' 7' 26^) 121-' 1 ' ,) *' .6 2, ' ?12* 77 620' 18/% ' ,) *' =1. . *. . 1-' , 12 ' D ' ; ' ,) *' 1-?*-' 86. ' 6' +1/ ; 2, 6- ' 6>, ' 12' ,) *' =6-, ' 1 ' ,) *' ?65*0 *. ' 8 ,) 1 ; ' , ' >*-*?12 ' > ' : *-10' 8) 1' 2*+*-,) */*. . ' 8 ,) 1 ; ' , . ; >) ' >*-*?12 ' *L*>; , *0' 1,) *-' ?**?D*-. ' 1 ') . ' 6? / ' M>1?=') 18^ *+*-' B1. *=) ; . ' & !' L+ ' ' X% ' , 6// *+*2, . ' , 6D; 2062, / ' 6==*6-. ' -1?' B1. *=) ; . ' ,) 6, ' ; 5 ; . , ; . ' 2' ?1?*2, . ' 1 ' =6. . 12 ' 86. ' >6=6D/*' 1 ' -*. 1/+ 25', 1 ' =-1^ >**0' , 1' *L, -*? , *. ' 8 ,)' : *-10' >& !' L+ ' R ' NXT' 620' ,) 6, ' 6 . *-' : *-10 . ' 0*6,) ') *') *. , 6, *0' 6D1 ; ' , -62. *-^ - 25',) *' /620', 1' ,) *' .12. ' 1 ' ,) *' /6, , *-' >& !' L+ ' X% ' ' ! & 2*-' ' NRQ% ( ) *-*' 6-*' ?1215-6=). ' 2' 6, 2' 12' ,) *' >*2. ; . ' 1 ' # ; - 2 ; . ' D ' ??12' M -/625% Q X' ->)' M : 6 2% R X' 1? , ; . ' M , *D% S X' -* ,) 2 ; =, ' M : *?. , % N X' * / 25' > , " !' ' NKS' . %X ' : 6. . *' M *5 1?% RSX ' : *; ?622' M41, , 5% NKX ' B62 ; . ' M , *D% T' 6/. 1' 2' 9*2 ' -D !' ' K ' . _ %X ' D-*>) , ' M -5*2, 1-% S X' *- [12 ; . ' > ' ' ' 5 ' .% %X ') / ?622' M D1>*' N X' >)6-0' M , *D% T' 6/. 1' 2' 9*2 ' N ' . _ %X ' 1/D1-,) ' M4*, , 25% Q X' & >0*/ MB*2% NX & *-2. 01- M , *D SRN K XT' 2' 4-**9 D -C' / *-5' M D16H' N XT' 2' 4*-?62' D ' . , ' M$, -% R X' , . >) ?622' >' !' !' # ' ' CK X' , 1>9?622' M4-12% X% **' * #! *2, -6/' ? *- >6' >1?=- .*0' 2' QSQ' +*' .1+*-^ * 52' . , 6, *. ' + [% 1. , 6' >6' >6-65 ; 6' 4 ; 6, *?6/6' : 120 ; -6. ' 620' 62' 6/+601-% ( ) *' *6. , *-2' >16. , ' 1' *2, - ' ?*- >6' 86. ' 0 . >1+*-*0' D ' 1/ ; ?D ; . ' 2' K' ,) *' 8*. , *-2' D ' : % 12>*' 2' S% ( ) *' =62 6-0. ' .112' . ; DA*>, *0' , 1' ,) *- ' -; /*' ,) *' 5-*6, *-' =6-, ' 1 ' ,) *' >1 ; 2, - ' D ; , ' 12' ,) *' <1. _ ; , 1' >16. , ' ,) *' 20 62. ' ?6 2^ , 6 2*0' ,) *- ' 20*=*20*2>*' 620' ,) *' 0 . , - >, ' 1 ' *. *2' 86. ' 21, ' , 69*2' =1. . *. . 12' 1 ' ; 2, ' SR % 2' QK ' ,) *' +*' . , 6, *. ' 1+*-,) -*8' ,) *' =62 .) ' -; /*' D ' 6' D/110/*. . ' -*+1/ ; , 12' 2' QKK' ,) *' >6//*0C' 6' 12. , , ; *2, ' . . *?^ D/ ' 620' 2' QKN' ,) *' 0*>/6-*0' ,) *? . */+*. ' 62' 20**^ =*20*2, ' -*=; D/ >' ; 20*-' ,) *' 26?*' ,) *' $2 , *0' , 6, *. ' 1 ' *2, -6/' ?*- >6% ( ) *' 2*8' >12 *0*-6> ' 86. ' >12^ , 2 ; 6// ' 6' =-* ' , 1' > + / 86-'6- . 25' =- 2> =6// ' -1?' ,) *' ?; , ; 6/) 1. , / , ' 1 ' ,) *' ,) -*** -6>*. d ,) *' 8) , *' 8) >) ' =-*+6 /. ' 2' 1. , 6' >6' ,) *' 20 62 ' , 1' 8) >) ' 2' 4 ; 6, *?6/6' 6/?1. , ' R ' =*-' >*2, ' 1 ' ,) *' *2, -*' =1=; /6, *12' D*/1251' 620' ,) *' ? L*0' 8) >) ' . ' =-*01? 262, ' 2' ,) *' ,) -**' 1,) *' . , 6, *. % ( ) 7 *6-' QNR' =; , ' 62' *20' , 1' ,) *' 22 12' 620' ,) *' >12 *0*-6> ' 86. ' 0 + 0*0' 2, 1' +*' . 1+*-^ * 52' 620' 20*=*20*2, ' . , 6, *. % (15*,) *-' 8 ,) ' ,) *' =62^ .) ' 01? 2 12' ,) *' *>>/*. 6. , >6/' -; /*' 1 ' ,) *' 1?62' 6,) ^ 1/ >') ; ->) ' 86. ' *. , 6D/ .) *0' ,) -1 ; 5) 1 ; , ' ,) *' 8) 1/*' >L0% , *2, ' 1 ' *2, -6/' ?*- >6% , *-' ,) *' 0*>/6-6, 12' 1 ' 2^ 0*=*20*2>*' ,) *' *2, -6/' ?*- >62' >12 *0*-6> ' .) 18*0' , . */ ' 6+1-6D/*' , 1' *>>/*. 6. , >6/ -* 1-? . ' 620' , 1' -*/ 5^ 1 ; . ' , 1/*-6, 12% ( ) *' 12. . , ; *2, ' . . *?D/ ' 1-D60*' ,) *' =-1>/6?6, 12' 1 ' =6=6/' D ; //. ' 620' ,) *' -*>* + 25' 1 ' ?12^ * ' 1-' 20 ; /5*2>*. % -1?' QKS' , 1' QN ' 6// ' ,) *' >12^ +*2, . ' 1 ' ?129. ' *L>*=, ' ,) 1. *' 1 ' ,) *' >,) /*) *?, .*. ' M % w 8*-*' . ; ==-*. . *0' 620' 2' QNS' 62' 622' 6/ + . ,6, 12' 1 ' ,) *' *?6/*' >12+*2, . ' 86. ' 1-0*-*0' 2' 1-0*-' , 1' . **' ,) 6, ' 21' 2 ; 2' 86. ' -*, 6 2*0' 2' 6' >12+*2, ' 656 2. , ') *-' 8 //% 2' QNK' -*/ 5 1 ; . ' / D*-, ' 86. ' =-1>/6 ?*0' 620' : 120 ; -6. ' *+*2' 6D-156, *0' 1-' .1?*' , ?*' ,) *' >*/ D6> ' 1 ' =- *. , % 2>*' ,) *' 0 . . 1/ ; , 12' 1 ' ,) *' ; 2 12' ,) *-*') 6. ' 6/86 . ' D**2' 6' *->*' . , -; 55/*' D*, 8**2' ,) *' >/*- >6/' 620' ,) *' / D*-6/' =6-, *. % 1?*' 1 ' ,) *' . , 6, *. ' 2' =6-, >^ ; /6-' 4 ; 6, *?6/6') 6+*' -*>6//*0' ,) *' =- *. , . ' 620' -*(*2C' 1->*0' ,) *' ?1. , ' 10 >; . ' /68. ' 1 ' 2, 1/*-62>*' 8) >) ' *+*-' 0 . 5-6>*0' 6' =6=6/' >1 ; 2, -E 1' 1,) *-. ' 2' =6-, >; /6-' : =2C' 81-0' 2' _ : *. , 12') 6. ' ; . ; 6// ' ,) *' . *2. *' 1 ' 6' / . , ' 8 ,)' 6' 0 ; -6. ') 6+*' D**2' ?1-*' 6 ,) ; /' , 1' ,) *' =- 2> =/*. ' 1 ' / D^ + *8' , ' 6. . *. . ?*2, ' ,) *' =-1D6D / , ' 1 ' . ; >) ' 6' , 6L6, 12' , *-6/ . ?% ( ) *' -*/ 5 1 ; . ' >12. . , ' ?1. , / ' 2' =-1>*. ' 6. ' 2' 6// 2' ,) . ' 2. , 62>*' >62' >*-, 6 2/ ' 21, ' D*' 0*2 *0% ? /6-' ,) *' =6=6/' >1 ; 2, - *. ' 1 ' ?*- >6' . ' +*- ' /18% ( ) *' 5-1. . C' *L6?=/*. ' 6-*' D ' 21' ?*62. ' 862, 25' 2' ?10*-2' , ?*. ' ' *. . ' . ; =*-. , , 12' =-*+6 /. ' *. =*> 6// ' 6?125',) *' 20 62. % 6?125' 0*=*20*2, ' >1 ; 2, - *. % <1-*1+*-' : *-10' 86. ' . 1' ' 2' ,) *' 20 62' + //65*. ' ,) *' -; /*' 1 ' ,) *' =- *. , ' . ' 6// ?1. , ' 6D. 1/ ; , *% & 1-.) =

*L=*2.*' 2>;--*0' 2',)*'=-*=6-6, 12'1 ',)*'81-9% ()*' >*2,;- 6,1-.',);.'0*.>- D*',)*'=-1>*..'*?=/1 *0' 2',)*' % >1?=1. , 12' 1 ',)* -' 81-9% +*' 0 -*>,1-.' 8*-*' 6=^ =1 2,*0' ,1' ?6265*' ,)*' 8)1/*' 0*. 52' 620',*2' =6 0' 65*2,.' .;==/ *0',)*' 2* *..6- '/6D1-% *+*2' 1 ',)*.*' 8*-*' 8*//C 2 1-?*0' .,;0*2,7' 8)1' 8*-*' *?=/1 *0' 2' ?69 25-')>1//*>, 12.' -1?',)*' +6- 1;.'=*>*.' .*,' D*' 1-* ,)*?% (81' 1,)*-.' ?1-*' 60+62>*0' 2' *6-.' 620' 1' 5-*6,*-' /*6-2 25' 620'A;05?*2,' 6--625*0',)*' ?6,,*-' ,);.' >1//77,*0'.;D? ,,*0' ,',1',)*' 0 -*>,1-.' 620' ' ' 8*-*' 6==-1+*0' *?=/1 *0' ,' 2',)*' >1?=1. , 12' 1',)*' 81-9% .' 6.,'6.',)*'+6- 1;.'>)6=,*-.' 8*-*' >1?=1.*0' ,)*' 8*-*'/6 0' D* 1-*' >*-,6 2' 2.=*>,1-.'.*/*>,*0' -1?',)*' ?*?D*-.' 1',)*0 -*>,1-.' 8)1' >6-* ;// '*L6? 2*0' 8)6,')60' D**2' 012*' 620' ?60*',)*' 2*>*..6-E7 6/,*-6^ , 12.'1 620'/26//A7'6' -*5;/6-' 6?62;*2. .' ?60*' 6' 6 -' >1= ' 1',)*' 8)1/*' ,'/*25,)' 2',)*' *6-' R'6=^ =*6-*0',)*' -.,'+1/;?*' 1',)*-'/6D1- 1;.';20*-,69 25% ,' 86.'=- 2,*0' 6,' 6./*' 8)*-*',)*',)-,**2,)'620' 26/ +1/;?*' 1/%X' 6==*6-*0' 2' B T';.' 6.' ,' 86.'=-1^ A*>,*0'6,'<650*D;-5',)6,'26?*' 86.',1'-*?6 2' 12' ,.' , ,/*' 620',)*' -.,'5-*6,' -1,*.,62,'81-9' 12');->)' , .,1-A7)6.'D**2'6/86 .'>1?712/ '92182'6.',)*'<65^ 0*D;-5' *2,;-*.% ,' 86.' 2' *+*- '=1 2,' 1 '+ *8'62' *L,-61-0 26-E'=-10;>,12% ()1;5)',)*' -.,' ?10*?' 6,,*?=',1' //;.,-6,*',)*') .,1- '1',)*');->)' ,'86.' 8- .,*2';=12'6' .>6/*' 8)>)'6.'.>6->*/ 'D**2'*L>**0^ *0% ,' ,1' / 5),'6' /6-5*' ;62, ,' 1';2=;D(/ .)*0'?6,*- 6/.'620'>6.',)*' 8/1/*' .;DA*>,' 2,1'6' L^ *0'620'-*5;/6-' 1-?% 2*' 1',.'?1.,'-*?6-96D/*' *6^ ,;-*.' .',)*'*/6D1-6,*'>/6.. >6, 12% () .'86.'.,-->,/' 1- 5 26/'620'8 ,)'6// ,.' 2>12+*2 *2>*.';201;D,*0/' ,*20*0',1' 2,-10;>*' .> *2, >'6--625*?*2,'620'?2;,*' 6>>;-6> ' 2,1',)*' .,;0 '1');->)' :.,1- % 6>)'>*2

,)*' 6,)*-' 1 'B*.;.!' ,)*' 1,)*-',)*' -*6,1-'*+ /'620' 92182'8)1'.=69*' 2',)*'/68'6==*6-*0',1',)*'=-1=)^ *,.'620' 86.' 1 ,*2' .**2% :*',6;5),'?1-*1+*-',)6,' B*.;.' 86.' 21,'D=-2' 1 '<6-A7'620',)6,')*')60' /*.)' 2' 6==*6-62>*' 12/ % :*' 0*2 *0',)*'-*.;--*>,12' 1 ',)*' D10 '620'-*A*>,*0',)*' /0'(*..6?*2,% <*' .6 0',)6,')-.,'0*.>*20*0' -1?',)*';2921f 2' 6,)*-!',)6,')*' >6?*' ,1' 1+*-,)-18',)*'*?=-*' 620'01?2 12' 1 ',)*' -*6,1-' 1 ',)*'81-/0'6.'?62 '1,)*-')*-*,>.'01' 620') + 25'D**2'6'.)1-',?*' 6,' 1?*')*',-62.?,,*0')' +*21?',1'<6->12'8)1'.;>>**0*0')?%J ()*10D-*,.'6>>1;2,'1' *-012'.',1',).'* *>,!' :*' 86.' 2',)*',?*' 1 ',)*' -.,' 2,12 2;.% :*',6;5),),)6,',)*-*' $' 12*' 410',)*' 6,)*-' 1 '1;-' 1-0'B*.;.')- .,';29218 2',1',)*'=-1=)*,.! 621,)*-',)*'<69*-' 1 ',)*';2+*-.*',)*'5 +*-' 1 ',)*'<1.6>/6 8 ! 620',) /6.,'.'A;.,',)*'1,)*-'5110% / ')*' 2',)*'/68'1-0*-.' ',)6,'62'* *' .)1;/0'D*' 5 +*2' 1-'62'* *'620'6',11,)' 1-'6',11,)!'D;',)*'5110'410' 2',)*' 41.=*/.'>1?^ ?620.'./6,' ,1')?'8)1'.?,*,)',)**'12',)*-5),) >)**9',;-2',)*'1,)*-'6/.1620',)6,',1') 2'8)1'81;/0' ,69*'686',;')>16,',)1;'.)1;/0*.,'5 +*',)'>/169'6/.1%' :*' 2',)*'/68'0-*>,.',1'/1+*'6' - *20'620')6,*'62'*2*C' 7? !' D;',)*' 1,)*-',1'/1+*'*+*2' 1;-'*2*? *.% ' 1,' 1D.*-+ 25' .6 .' ()*101-*,'',)6,' 2',)*'/68',' .'0 ^ -*>,*0',)6,' '6'?62'?**;') .'*2*? .'1L'5Y25'6.,-6 ')*'.)1;/0'D- 25') ?'D6MB ! 620'21,' 1-D*6-',1')*/=') .' D*6.,'8)*2' A225';20*-') .'D;-0*2620',)6,')*'8)1' 6>>1-0 25',1') ?' .' 6/12*' 5110',)-*6,*2.'')*//C -*',1') ?'8)1'>6//.')'.'D-1,)*-' 11/620'.)18 25') ?.*/' ,1'D*A;,.'.6 0'`& ,)'8)6,'?*6.;-*' *'?*,*-'.'.)6)'8)*/D*' ?*,*0',1' 1;'656 2% J' -*2.*;.'.6 .',)6,'8)*2' *-012'86.'6,' 1?*')*'.*+*-6/',?*.'-*21;2>*0').' >21-.! D;',6,'/*25,)'1-'-*,;-2 25',1',)*?'656 2'1-' 1-',*6>) 25',)*?' 2'6'>/620*.,2*'?622*-')*' 86.' 26// '*L>/;0*0'-1?',)*');->)% *-01.'+*8.'8*-* 601=,*0'620'6?=/ *0'D '<6-> 12% **' <1.)*-6' ('>*2,' 'g SN! 6-02*-' +1'+ ' .%! 6;-' ' " +'? '=% 'K Q'._%! 620' ,)*'6-,>/*.'& '! !

*-*6/.'+ $ '6'-*/6,+*'1',)*'*?=*-1-' *.^ =6.62'620'6' 1?62'5*2*-6/1'21,*' 2'.*+*-6/=-1+2^ >6/>6?=6 52.'M(6>,;.'& 'L+'NK!' # ' 'R Q' R! +' QS!' & !'Q X% ;-25',)*'86-'1'(,;.' 656 2.',),)*'B*8.')*'>1?7?620*0'6'0*,6>)?*2,'656 2.',) *' 0?6-,62.'MB1.*=);.' 6-7 ' 'NKX'620'86.'6>^ ,+*'2',)*'.*5*'1'B*-;.6/*?'I "'+'R R!'+'K !' NX% *-*6/.'6'5*2*-6/',*-?'*?D-6>25'6//',)1.*'9 20.' 1'5-6 2'M! 7' '>1-2JX'1'8)>)'D-*60'M_%'+%X'.'?60*'% $ $!' ()*.*'6?125',)*':*D-*8.'8*-*' ,)*'1//18 25'M.**'B6)2' ; " '& " 'g QX% **' & !

% " 'M/72'B " "(' %*% 78 2'/9*',)*' -6D 9 + ":',)*.*+*-6/'9*-2*/.'6-*'0*21,*0'D',)*'=/;-% ! 4-**9' % :' 2',)*' % (%,)*'?1-*'5*2*-> ,*-?'-(-1>H ?10*?' 5 =,'620' 6-D6-'+ " ' : *D! 86.',)*'?1.,'?=1-,62,'9 20'1'D-*60C>1-2' 5-182' 2' 6/*., 2*'M .6%'LL+ 'K ! [*9% +'RX'620' /9*'D6-/* '86.'-6.*0',)-1;5)1;',)*/620'M *;,%'+ ' QT' B;05% +' ! ' 6?% +' N' K' 6?% +'ST' L+ 'KQT' >1?=% /2 IL+ 'K XT' .1' ;// '.;==/ 25',)*' 2)6D^ ,62,.',)6,' 1/1?12'86.'*26D/*0'8,)'6'.;-=/;'.,1'=-1^ >;-*',)*'.*-+>*.'1'9 25': -6? .!'6-, >*-.'M' 25.' ' X'620'>12. 0*-6D/* *L=1-,.'1'8)*6,',1'(8*'6-*' .=19*2'1'6,'6'/6,*-'06,*'M7*9%'LL+ ' X% ()*';/^ ,;-*'1'8)*6,' .' ., // =-6>, .*0',)*-*' M 1D 2.12' " ' 'K S*,>%X% ()*'2*.,'8)*6,' .'.6 0'M< .DC' 26' !+ ' X',1')6+*'5-182' 2' < >)?6.D'620' 62';29218 2'%/1>6/,' >6//*0' / " +'M2: TX% (2 [*9%M!'>%X'6'=*>;/6-'9 20'1'8)*6,'M- K7' 8)*6,'1'< 22,)JX' .=19*2'1% **' 'f ()*'.18 25'1'8)*6,'*// 2' 6->)*.+62'M >,%r 1+%X' 620',)*'-*6=25'M# 72' 8)*6,C)6-+*.,JX 6,,)* *20'1' .62'=6->)C =-/X% *>' ! (*6, ., // -=*2.' 2' 6/*., 2*' .1?*, ?*.' ' =-/M 1-,*' 5 '=% NK!')68'- '=% KR X'6/,)1;5)' ,' ; :;6// ' ,'1' >;,' 2' <6E'1-',)*' D*5 22 25'1'B;21' M 1D 2.12'5 " ' 'RR'*,>X% ** 4 $! &)*6,'/1;- - DD' L10% LL L'KX'86.';.*0'1-D-*60'620'>69*.'M_%'+%X'620',)*'5-6 2.'8*-*'6/.1'-16.,^ *0'M.*>'+ ' 3'f+)*2'5-**2'MB1.);6'+' ! ;,)' ' ! ' 6?'L+ ' ! K' 6?% +'KQX'6.'.', // ,)*'>6.*' 2' 6/*., 2*'*.=*>6// 'D',)*'-*6=*-.'M:6.C' .*/_;.,' =% R X% ** % ! ()*' 9*-2*/.'8*-* 6/.1'=1;20*0'M *+' ' ! LL ' ! K' 25.'+' KX' 2,1'6'9 20'1'5- ,.'M77I7NXI' ** > ' : ' 3!' 2',)*'.62>,;6-'8)*6,'86.';.*0'2'>12. 0*-6D/*' _;62^ ,, 'M [-6'+ 'KKT' >1?='+'RT' .** */ K%I' &)*6,' 86.';2+*-.6// '>;/,+6,*0'2',)*'/620.'1')',)*-' .6' 620',)*'60A1 2 25'=6-,.'1' 1-,)' -> 6'M 5 =,X'-1?' ,)*'*6-/*.,',?*.! D;,'D18',' 86.' 2,-10;>*',1',)*' :*D-*8.' .';2921828% ** 5*2*-6// ' 29' 2',)*' & + !' ';' '&+ ' Q SC '=% K' ._%! */.' # (" ' ' K' _% ' & 2*-' ' Q % ** " ' !

K% ; 'M (7ND' "8'1'+6-1;.'9 20.'M>)*/' ,)*'.LC-18*OX'86.'/6-5*/ '>;/,+6,*0'M4g2%LL+ ' ST K')-12% ' ! ;,)' ' ! K' 6?'L+'N ! .6 6)' LL+ 'KST B*-%L/'QX'D',)*' 5 =,62.'M L10% L'N' ._%X'620' : *D-*8.'M6.'12*'1',)*'.,6=/*=-10;>,.'1' 6/^ *.,2*' *;,% + 'QT' >1?=%B1*/' X'620'86.';.*0' =6-,/'6.' 100*-'M' A25.' +'KQT' >1?=% +' ' KX' 1-'>6,,/*'M).*0-% +'S NT' B;+*2% + ! L' ! L+ ' ! LL+ 'Q X'1-')1-.*.'M7.1=' V 1 ' ! >1?=% 122 2 '- ' 'K X'=6-,E C 1-' D-*60' M /2 '# '7 !' L+ 'KSX' 1-',/P*' =11-*-' >/6..*.' MB;05% +' NT' K' 25.'+' KT' B1)2' +'R NT' >1?=% ?12]*9% +'RT',,1.*=)% &6-'+' 'KT')/1' 'N ! *2^ *>6'6%!' Q'=% Q ' =%T ,)*2% + 'N ! /;,6->)' &% %"'-1 !=% S' =._%X! 1-',)*'/6,,*-'=;-=1.*',86.'-*^ 56-0*0'6.'8)1/*.1?*'M ;>62' "!' ! /2 'a7 ' S X' D;,'D* 25'/*.'=6/6,6D/*',)62'8)*6,'M ,)*2% ' f',86.'21,';.;6// '*6,*2'*L>*=-',20*-',)*'=-*-..^ ;-*'p');25*-'M& // */?'(-%L 'KK'=% Q RX'620',)*-*^ 1-*'>12.,.;,*0',)*'-*5;/6-'6-*'1-' 1?62'.1/0 *-.' 8)*2';20*-51 25'>1--*>,12'M + 'LL+ ' NT ;*,12% & !'K 'N !' ' ' NT' 1' 6..'L/L'>%K'620' NQT' 1/ D% +'NQ ! 1/ .*2% +'K X'6.'1',)*')*-? ,.' 2',)*')-.,62');->)'MB*-1?*' ' XT' 6/,)1;5)' 2'*6-/ ',?*.',86.'6'>1?7?12'6-,>/*'1'110'M /2 ' L+ ' ! -,*? 0% ' X'620'.'.,//) 5)/ '-*/.)*0' D',)*' -6D.' 2' <1-1>>1'M:1.,'7 " '=% NKX% ,' 86.'6/.1'*?=/1 *0'6.'?6/,' 1-'6'.=*>*.'1'2,1L >6, 25' 0-29'M_%+% ' ** " ! 6-/* '86.'.1P7' 2',)*' ? 00/*'1',)*'?12,)'1'<6->)*.+62'M_%+%X'1-' 1+*?^ D*-'M 5),D1,'=% N ' X'620'86.'-*6=*0' 2',)*' ?12,)!' D D'M_%+%X'1-' =-/M6,'B*->)1' 2'<6->)!' .** ;)/*' 6V1806-% ' '=% 'KNT' 2'/*..' 6+1-^ *0'.,;6,12.'*+*2' 2'<6 ' 1D 2.12'5 !' 'SR XT' 620',)*.*' ".*6.12.'D*>6?*' -*5;/6-'21,6,12.'1',?*'MK' 6?% LL 'RT' ;,)' 'KKT' B;0,)' + 'KV% ** % L ! ** 5*2*-6// ' */.;.' # ! 'KNR'._% 2' ,)*'9 20.'1'D6-/* '92182',1',)*'62>*2,.'.** 29' 2' ,)*'&'"" !' '%" + !' ' '+ !'% !'&'+ A' ' !' "!' Q SC '=% NN'._% 2' ;?%+' ' >1?=',)*' 6-,>/*' ($ #4< ! ' '& 2*-' A' % ** 8 #!' F

N%$% 'I%(1(($ " (":'& "!+ :' -6?% - ' % '1' 22%T D',)*' 6,2.' ' 1-' 06?'5 !'& !' 'N X'?*2,12*0' 2' L10% L'NKT .6% LL+ 'KST' [*9% +'R \.** 'L ;' .' 6'.=*>*.'1'D-*60C>1-2' 8,)'6' 1;-C=*,6/*0' D/;2,'>6/ L')*-?6=)-10,*' D/1..1?.' 1//18*0' D'/,C' ,*' D*6-0*0'./*20*-'*6-.'.**?25/'.)1-2' I)*2>*',)*' 26?*'-1?',' ',1' 8'8)1.*'5-6 2.'60)*-*'.1' -?/'2',)*')9.'6.',1' D*' 8,)'0 >;/,+6,*0' 2',)*'.1;,)*-2'=6-,.'1% ;-1=*'M ,-6D1'+

KK X' 6.' 8*// 1.' 2' 5 =,' M : *-10 ' 'NST' / 2 ' L+ RX' -6D 6 ' 620' 6/*., 2*' M8) *-*' , ' .' ., // -6 .* 0X ' 1 ' .*+*-6/ +6- *, *. ' ,) *' 8 2, *-' 5-6 2' D* 25' *., **? *0' ,) *' D*., ' M L10 %/L ' NKX% ?125',) *' .-6*/ , *. ' , ' 86.' ; . ; ^ 6// ' 6..1> 6, *0' 8 ,) ' D6-/* ' 6.' 6' */0C>-1=' M .6 % >%% ( ) *' ?*6/ .' 2*' 620' 8) , *-',) 62' 8) *6,' /1 ; -' M / 2 ' L+ '0 / X ' ,) *' D-*60' ?60*' 1 ' , ' M) 1>6. ' >% KNX .' ?1-*' D- ,,/*' 620' /*. ' 2 ; , - , 1 ; . ' ,) 62' 8) *6, *2' M 1.>1-% ' X% 1?=' 5*2*-6// ' */. ; . ' # ! ' RQ' . % 6^ - 1 ; . ' 1) ZJ ' . 52 >6, 12. ' 1 ' ,) * 6D1+*' : *D% ', *-?' ?6 ' D*' .**2' 2' 201- / ' # ' ' 6?125' ?10^ *-2. ')6 & ' >- ! ' =% N X ; 20*-., 620. ' ' I% / 1' 22%X ' ,) *' *=, ') 6. ' 1 ' 2' .6% ' D ; ' 1d1=6 2' D1,) ' ,) *' 1,) *-' =6. . 65*. ' MD1,) ' 6-*' . 212 ?1 ; . ' , *-?. ' : *^ -10% ' N X% 1?=% 29 ' 2 1' ' ._ % ' 7 & 2*-' ' K % **' / !

% ' 6==*6-. ' , 1' D*' 0*21, *0' D ' ,) *' : *D%

+ (M -6D ' " 8' 1 ' [*9% + ' R ' 8) >) ') 18^ *+*-' 4 *. *2 ; . ' >- " ! ' =% NNNX ' -*56-0. ' 6. ' 6' 5*2*- >', *- ? ' 2' 0 ., 2>, 12' -1?' ,) *' 2 ' ' I# " ' " !' 22%X ' 6' .=*> *. ' 1 ' >*-%*6/ M / 2 ' LL+ ' SNX =*>; / 6-' =-' , .') *-?6=)-10 , *' 1-', 81CD*6-0*0' 620' ?1., / ', 81C =D,6/*0' >6/ L% ' , ' ., 620. ' _ ; , *', 6// ' 620' D*6-. ' =-1/6, *' D-182' 9*-2*/. ' =-*. . *0' , 15*,) *-' 620' -*. *?D/ 25' - >*% ' , ' D/1. . 1?. ' 2' 5 =, ' M 1.*// 2 V12; F% ! ' NSN . _ % ' 1-. 96/ 1; 20' , ' 6, ' 1. *, , 6X 2' ,) *' D*5 22 25' 1 ' 1^ +*?D*-' 620' . ' 6/. 1' 218' > ; /, +6, *0' 2' -6D 6' M & >// C ., *0 ' - ' ' KR X ' 8) *-*' ,) *' 5-6 2' . ' ; . *0' 1-' 6' =11-' .1-, ' 1 ' D-*60' 7 *D ;) - ' 5 1' QX% **' 5*2*-6// ' */. ' # 8! ' N ._ % T *0?622 ' $ ' + ' RK ._ % ' ' & 2*-' ' % **' !

1?*' 0 ., 2>, ' .=*> *. ' 1 ' 5-6 2' . ' ,) 1 ; 5) , ' D ' ?62 ' M. 1' ,) *' *=, % ' _ ; /6 ' ( ) *10% ' 620' ; /5% X , 1') *' 0*. 5^ 26, *0' D ' ,) *' , *-?' IA7 ' 2 . 862 ' 1 ' .6% LL+ ' T 8) *,) *-' 6' +6- *, ' 1 ' ? //*, ' .=*/, ' 1-' D6-/* ' 1-' .1?*' ,1,6// ' 0 *-*2, ' >*-*6/ .' 21, ' 65-**0T D ; ' ,) *' 81-0' . ' =*-) 6=. ' -6,) *-' 62' 6==*//6, +*' 20 >6, +*' M. 1' ,) *' % ' `` 6==1 2, *0J' D6-/* X 1 ' 6' D6-/* C */0' M. **' 1.*2?, /C /H-' 620' 4*. *2 ; . ' 2' /1>% X % ,) *-' ?10*-2' 5-6? 2*1 ; . ' =/62, . ' 6. ' - *' 16, . ' ?6 [*' - >*' *, >% 01' 21, ' 6==*6-', 1' D*' ?*2, 12*0' 2' >- =, ; -*% **' # ! 1?6' 1 ' ,) *' . ?6//*-' 5-6. . *. ') 18*+*-' . **?', 1' /f6+*' D**2' *?=/1 *0' 6. ' 6- 26>*6% **' $ 5 ! *-, 6 2' /*5 ; ?*. ' 6/. 1' 6. ' D*62. ' =*6. ' *, >% 8*-*' ; .*0' 1-' . ? /6-' >; / 26- ' =; -^ =1.*. % **' + $!

-?12 ' 6, 2' 1' 6' 81-0' .62>, 12*0' D ' >*-12 62' ; .65*' D ; ' 1 ' ; 2>*-, 6 2' *, ?1/15 ' 620' +6- 1 ; ./ ' 0*- +*0a' M X ' -1?' *-1A' 620' ,) *' 1 *- 25. ' ?60*', 1') *-T MKX ' -1?' , *->',) *' , -; - 62', 182' 8) ,) ^ *-' ,) *' .6>-*0' ,) 25. ' 620' *. , 6/. ' 1 ' ,) *' 1?62. ' 8*-*' >12+* *0' 1-' .6 *, ' -1?',) *' 46 ; /. ' M 1->*// 2 ' d*6T ' !8T MNX -1?' T M X -1?' ' 620' T M X -1?' ' 62' 1D. 1/*, *' 6, 2' 81-0' k % ' 1 % *' = 1 ; . ' .6>-*0' M >6/ 5*-XT MSX -1?' " k1 M4*1-5*. ' + 8T M X -1?' 1' 6. ' ,) 1 ; 5) ' , ' .) 1 ; /0' D*' !

6-, >; /6-' >*-*?12 *. ' 6-*' , -*6, *0' 2' ,) . ' 81-9' ; 2^ 0*-' ,) *' -'6==-1=- 6, *') *60. % & *' =-1=1. *' 12/ ' , 1' >12^ . 0*-') *-* M/X 8) *,) *-',) *', *-?' . ' 6' . ; , 6D/*' 12*', 1' 0*^ 21, *') - ., 62' >) ; ->)' .*-+ >*. ' 620' MKX , .' ?=1-.' 2' >-**0.' 620' . ?D1/ >6/ D119. ' ?69 25' -**' ; . *' 1 ' 6/^ ?*- .' 6-. >/*' 2' : *-[15 ' 5 26 + %f M ; ==/% ' Q X &) *2*+*-',) *' 81-0' >*-*?12 * . ' ; . *0' 2' 62' 20* ^ 2 , *' 86 ' 1 ' 6' -*/ 5 1 ; . ' 6>, ' 8*' ? ; . , ' 21, ' 1+*-/119',) *' 0 ., 2>, 12' D*, 8**2',) *' *. . *2, 6/ ' 2*>*. . 6- ' =6-, ' 1 ' ,) *' 6>, ' 8 ,) 1 ; , ' 8) >) ' 21' 81-.) =' >62' D*' 620' , . ' 6>>1?^ =62 25' 1-?. ' 8) >) ' 12/ ' ' ' 5 +*' , ' 5-*6, *-' .1/*?2 , ' 620' D- 25' 1 , ' ?1-*' . - 9 25/ ' ,) *' >12, -6. , ' 8 ,) ' >1?? 12' / *% () . ' 212C*. . *2, 6/ =6-, ' 12/ ' . ' ! (1' //; . , -6, *' 6-,) *-' -*/ 5 1 ; . ' 6>, ' ?6 ' D*' 0* 2*0' 0. ' .1?*,) 25' 012*' 2' 1D*0 *2>*' , 1' 0 + 2*' >1? ?620' 620' ,) *-* 1-*' 2*>*. . 6- ' , 1' . 6/+6, 12T 8) /* >*-*?12 * ' -*=-*. *2, . ' ?62 . ' +1/ ; 2, 6- ' 81-9' ,) *' 1 ^ .=- 25' 1 ' ,) *' >122 =, 12' 1 ' ,) *' -*/ 5 1 ; . ' ?=; /. *' 620') . ' . *-,) *, >', 6., *% : *2>*' -*. ; /, . ' ,) *', -; / ' -1, *. , 62, ' 01>, - 2*',) 6, ' ,) *. *' 1-?. ' D*>6; . *',) * '6-*' . ; D A*>, +*^ / '>120 , 12*0' ?6 '+6- '6>>1-0 25', 1', ?*. ' 620' =/6>*. % ( ) *' 1?62' 6,) 1/ >') ; ->) ' 2' .= , *' 1 ') *-' /125 25' 1-' 6D. 1/ ; , *' ; 2, EW . ' ; 26D/*', 1' =-*+*2, ' .1?*' -**01?' 620' +6- *, ' 2' ,) . ' -*. =*>, ' 620' 6//18. ' ,) 6, ' =6-, > ; /6-' - , *. ' I '% 8' 2**0' 21, ' D*' *+*- 8) *-*' *L^ 6>, / ' ,) *' .6?*' ,) 1 ; 5) ' ; 2 +*-. 6/ 12*. ' I ' (8 ? ; . , ' D*' 1D. *-+*0' 6/86 . ' 620' *+*- 8) *-*' 6/ 9* 2' ,) . ' =1 2, ' < */62>,) 12' - 5) , / ' .6 . ' & *' 01' 21, ' ; // ' ; 20*-., 620' 8) 6, ' 1 ; -' 1==12*2, . ' ?*62J' M 12' .6, . ' 2, *// 5 ? ; . ' _ ; 0' +*/ 2, ' 6 0+*-.6- X T 1-' D ' ,) *' 0 . ^ , 2>, 12' 1 ' ; 2 +*-.6/ 620' =6-, > ; /6-' - , *. ' ,) *' -1, *. , ^ 62, ' + *8' . ' 2' 6>, ' >12>*0*0' , 1' D*' >1--*>, ' 620' ,) *' 12/ ' _ ; *., 12' 81 ; /0' .**?', 1' D*' 8) >) ' - , *. ' D*/125', 1' ,) *' 12*' 620' 8) >) ' , 1' ,) *' 1,) *-' >/6. . % *, ' ; 20*-',) *' 1? .) ' + *8 ' 8*') 6+*' 12/ ' , 1' -629' 6?125',) *' ; 2 +*-C .6/. ' 6. ' ?62 ' 6. ' =1. . D/*' 1 ' ,) *' ?1. , ' 1-?6/ ' ; 2?*62^ 25 ' 620' 6-D , -6- ' ,) 25. ' 620' ,) ; . ' ?69*' ,) *?' 1D/ 56^ , 1- % 2' ,) *' 0 ., 2>, 12' 1 ' ,) *' 0 + 2*/ ' >1?? 620*0' 620' ,) *') ; ?62/ ' 0*+ .*0 ' !8* ?; . , ' 9**=' 2' + *8' M X ,) 6, ' ,) *' <1.6 >' /68' ?60*' 7+)6, ' 8*' >6// >*-*?12 ' ,) *' . ; D A*>, ' 1 ' 0 + 2*' *26>, ? *2, ' 620' 0 0' 21, ' /*6+*' , ' , 1' ?62 . ' >) 1 >*T 620' MKX ,) 6, ' ,) . ' >) 1 >*' . ' 21, ' 20 + 0 ; 6/ >6=- >*% &) 6, *+*-' ,) -1 ; 5) ' ,) *') ; ->) . ' . *20*2> ' , 1' ?=-1+*?*2, ' 2' ?6, , *-. ' 1 ' 81-.) = ') 6. ' 5-182' 2, 1' 3 - , ; 6/ 1-?. ' 8) 6, *+*-') 6. ' D*>1?*' . *, , /*0' =-6>, >*' 2' ,) *') ; -0 / ' .) 1 ; /0' D*' -*. =*>, *0' D ' ,) *' 20 + 0 6h ' 6. ' 6' >; . , 1?' 2) *- . *0' -1?',) *' 6,) *-. ' 8 ,) ' ,) *' >120 ^ , 12 ' 20**0',) 6, ' 8) *2' 6' >*-*?12 ') 6. ' /1. , ' . ' 1- 5 2^ 6/ ' >1--*>, ' ?*62 25' 1-' 6. . ; ?*0' 6' 6/. *' 12*' 1-' 8) *2' , . ' 1 ; , 86-0' 1-?') 6. ' D*>1?*' 1==1. *0', 1' ,) *' ?1-6/ >12^ . > 1 ; . 2*. . ' 620' >120 , 12' 1 ' ,) *') ; ->) ') - . , 62' -**^ 01?' ?6 ' 6. . *-, ' , . ' - 5/ , ' , 1' 6D1/ .) ' . ?=/ ' 1-' -**^ =/6>*' . ; >) ' >*-*?12 %

( ) *' 0 ., 2>, 12' ?6 ' D*' ?60*' >/*6-*-' D ' ,) *' 1//18^ 25' // ; . , -6, 12. d (1' D6=, [*' . ' 21, ' 6' >*-*?12 ' D ; ' , ' 6' 2*>*. . 6- ' >) ; ->) ' 6>, T D ; ' ,) *' ; . *' 1 ' 6' >1=*' 620' . ; -^ =/ >*' 1 ' 6' . /+*-' D6=, . ?6/ >; =' 620' D18/ ' 1 ' >*-, 6 2' / , ; -5 >6// ' =-*. >- D*0' 81-0. ' ,) *' /6 25' 12' 1 % ,) *') 620. ' ,) *' . 52' 1 ' ,) *' >-1. ' ,) *. *' >12. , , ; *' >*-*?1^ 2 % 56 2 ' 8*' >*/*D-6, *' ,) *' 1-0 . ' ; ==*-' 2' 1D*0 ^ *2>*' , 1') - ., . ' >1?? 620' D ; , ' >*-*?12E ' =-*. >- D*. ') 18' 8*' .) 6// ' ; -2 .) ' 6', 6D/*' 6. ' 6' *8' (*. , 6?*2, ' 6/^ , 6-' T 8) 6, ' 9 20' 1 ' +*. . */. ' 81' .) 6// ' ; . *T 8) *,) *-' / 5^ ,) *' ; ,) *-62. ' 8*' .) 6// 5 +*' ,) *' ' , 1' *6>) ' >1?^ ? ; 2 >62, ' 8 ,) ',) *' . 6?*' 81-0. ' 1-'/ 9*' ,) *' * 1-?*0' .) 6// 92**/ 1-' 21, ' *, >% ( ) *. *' *L6?=/*. ') 18' ,) 6, ' 8) 6, ' . ' 2*>*. . 6- ' 620' 8) 6, ' . ' +1/ ; 2, 6-A I ' 8) 6, ' . ' 0 ^ + 2*/ ' *2A1 2*0' 620' 8) 6, ' . ' =/*6. 25', 1' ?62 ' ,) *' 9*-^ 2*/' 620' ,) *' .) *// ' >6221, ' D*' ?*>) 62 >6// ' . *=6-6, *0T 620' ,) 6, ' ,) 1 ; 5) ' .1?*' >*-*?12 ' *2, *-. ' 2, 1' 6// -*/ 5^ 1 ; . ' .*-+ >*. ' , ' .) 1 ; /0' 2*+*-' D*' ?*-*'*?=, ' ; 2?*62^ 1' 6' >*-*?12 ' ?6 ' 21, ' D*' ?*>) 62 >6. . ') 6+*' -*6/ . 52 >62>*d *% 5% 2' ,) *' , 69 25' 1 ' 16,) ' ,) *' -6 . *0') 620' 620' . *. ' 1-?' 1 ' 81-0. ' ,) *' 6. . ; ?=, 12' 1 ' 6' D/6>9' >6=' D ' ,) *' A ; 05*' 8) *2' =-121 ; 2> 25' . *2, *2>*' 1 ' 0*6,) ' 620' ,) *' D-*69 25' 1 ' 6' ., 6/ (' D* 1-*' ,) *' *L*>; , 12 ' 212C*. . *2, 6/ ' *, ' . ?^ D1/ >' 6>, . ' =18 *- ; // ' 2 /; *2>*' ,) *' ?65 26, 12%!

( ) *' 6==/ >6, 12' 1 ' ,) *' , *-?' >*-*?12 ' , 1' ,) *' - , *. ' 1 ') - ., 62' D6=, . ?' ?6-- 65*' D ; - 6/ ' *, >% ' -*=; 5^ 262, ' , 1' 1 ; -' **/ 25. ' 6. ' ?=/ 25' *L>*. . +*' 1-?6/ , % ( ) *' 1> 2 62. ' 6/12*' >6// D6=, . ?' 620' ,) *' 1-0 . ' ; =^ =*-' >*-*?12 *. ' -*56-0 25',) *?' 6. ' *. . *2, 6// ' ; 2?*62^ 25' 1D. *-+62>*. ' ,) 1 ; 5) ' +*2A1 2*0' D ') - . , % 2',) *' 1,) *-') 620',) *' 1?62' 6,) 1/ >' 620' : 5) C) ; ->) '+ *8' 6. . 52. ' , 1' >*-, 6 2' >*-*?12 6/ 6>. ' . 1?*8) 6, ' 1 ' . 6+ 25' * >6*A7 , 1' 6, , 6 2' 8) >) ' 0 ; / ' 6 ; ,) 1- [*0' 1-?. ' ? ; . , ' D*' 1D. *-+*0% ( ) *' *+625*/ >6/ -1, *. , 62, ' *. >) *8 25' * ,) *-' *L, -*?*' 6>>*=, . ' 6. ') */=. ' 2' ,) *') - . , 62' / * . ; >) ' - , ; 6/ 1-?. ' 6. ' D ' ,) * -' 7 ; , 86-0' >1--*. =120*2>*' 8 ,) ',) *' -*/ 5 1 ; . ' 0*6', *20', 1' *0 T D ; ') *' 01*. ' 21, ' , - ; . ' 2' ,) *? ' 6. ') 6+ 25' =18*-', 1' . 6+*T 1-') ? ' 6-' ?1-*' 2*=1-, 62',) 62' . =- 29/*0' 86, *-' 1/0*0') 620. ' >) - . ? ' 1-') 1/ ' +*. . */ ' . ',) *' ' ' MH10' ; 20*-., 110

1 ' 2, 1>)' D ' 2. ., 25' 12' ,)*' 2*>*. . , ' 1 ',/ *' /*56/' >*-*?12 *.' 1-',)*' 4*2, /*' >12+*-,.†D;,' 2',) .')*' .' =-1D6D/ ' ? .,69*2¼ ()*' 6>>1;2,'1 ' d-*2k;.' .',)6,')*' 6==*6-*0' 6D1;,',)*' *6-' QQ' 620' 86.' 92182',1' ,¼ B1)2 '8)1' 8-1,*') .' 41.=*/ 2' -* ;,6, 12' 1 ') .'*--1-.¼ -*2.>;.' 12',)*' 6;,)1- , ' 1 ' 1/ >6-=' 26--6,*.',)6,' ,)*' 6=1./*' B1)2 '8)*2' 6,' =)*.;.' 51 25' 12' 6' >*-^ ,6 2' 06 ' ,1',)*' D6,)' 620' 20 25' *- 2,);.' 8 ,) 2' /*0' -1?',)*' D; /0 25' .6 25' ' *,' ;.' *+*2'D*' 512*' /*.',)*' D6,)' .)1;/0' 6// ,1' = *>*.' *- 2,);.',)6,'*2*^ ? ' 1',) ' ,-;,) 'D* 25' 8 ,) 2¼ ' ' ;.*D ;.' M 'KQX' _;1, 25' -1?',)*' =-*.D77*-' 6/;.' .,6,*.',)6,' *- 2^ ,);.'=;,' 1-,)'.1?*5 1'8 .,*2'D ') ?.*/ '6.' ,' 8*-*' D ' .1?*' 5-*6,' 6=1./*' //*0' 8 ,)',)*' ?1.,' ?12.,-1;.' 26--6, 12. '8) >)')*' =-*,*20*0',1') 6+*' -*^ >* +*0' -1?'625*/.¼

.',1') .'=*>;/ 6-',*2*,.' 6/.1' ',)*-*' .' 5-*6,'0 ^ *-*2>*' 1 '1= 2 12¼ 1?*' >12. 0*-') .' . .,*?' ,1' D* =;-*' 421., > .?†1,)*-.' 6 >1?=1;20' 1 '421., > .?' B;06 .?'620')- ., 62, ¼ -*2.*;'.6 .'`` *-2,);.' ,6;5),',)6,',)*' 81-/0' 86.' 21,' ?60*' D ',)*' .;=-*?*' 410'D;,'" '6'>*-,6 2'=18*-'M *?;-5*X.*=6-6,*' -1?' : ?'620'D1/18' :,?'620' 521-62,'1 ': ?¼ B*.:,.')*' .;==1.*0' 21,',1¼D*' D1-2' 1 '6'+ -5 2 'D;,',1'D*',)*' .12' 1 'B1.*=)'620' <6-A 'D1-2'6/,15*,)*-'6.'1,)*-'?*2'6-*' D;,')*' *L>*//*0'6// ?*2' 2'+ -,;*'9218/*05*'620'8 .^ 01?¼ ;':.'D6=, .?',)*')-.,'>6?*' 0182' ;=12' :?'-1?'410'8)1'.'1+*-'6// '2',)*' .)6=*' 1 '6'01+*'† 620',)*2':*'0*>/6-*0',1',)*'81-/0',)*';29218'2' 6,)*-' 620'8-1;5),'?-6>/*.¼ ',)*'*20',)*')-.,'/*.'B*^ .;.'620'B*.;.'.; *-*0'620'-1.*'656 2'D;',)*')-.,' D* 25'.= -.,;6/'86.'?=6.. D/*¼' =)62;.'.6 .'2*6-^ /',)*'.6?*'D;'6..*-.'.',)6,' *- 2,);.',6;5),',)6,',)*' 81-/0'86.'?60*' D '625*/.'620',)6,')*' 1==1.*0',)*' 6=1./*.' 2'B;0?6¼ ,'6==*6-.',)6,' *- 2,);.'>12. 0^ *-*0')-.,'62'1-0 26-'?62'D1?' 2',)*';.;6/'86 ' 620'0*+1 0'1'?-6>;/1;.'=18*-.'D;,'0 .,25;.)*0' -1?',)*'.6?*'D;'6..*-.'.',)*'B*8.'D '=1..*..25'.;=*-1-'8 .^ 01?'.1',)6,';=*'86.'81-,)',1D*' >)1.*2'6.',)*'<*.^ .6)'†',)6,')*'92*8'21,)25'1')' .')5)'052,',//' ,'86.'-*+*6/*0',1':?'2':.'D6=,.?'D'B1)2'8)*2' :*'86.'>12.*>-6,*0',1',)*'<*.. 6D.)='620';-2.)*0' 8 ,)',)*'2*>*..6-'=18*-.'1-',)*' ;/ /?*2,'1':. 1 >*'D',)*'0*.>*2,'1',)*';=-*?*' 151.'1-' =-,' -1?',)*')*6+*2.'8)>)')25'1+*-':?'/9*'6'01+*' 620'6,'/*25,)'*2,*-*0'2,1':.')*6-,†,)6,':*'86.' ,)*2'-6.*0',1',)*'052,'1',)*'12'1'410'D*562',1' =*-1-?'?-6>/*.'620'*+*2'625*/.'8*-*'218',6;5),'D' :.'-*+*/6,12.†,)6,'-*0*?=,12'>1;/0'21,'D*'*>,^ *0'D':.',;*-25.¼ B*.;.'2';2 12'8,)',)*'?5),' =-,'1'410'>1;/0'21,'.;*-'D;,'?;.,-;?=)'1+*-' 6//':.'*2*?*.¼ ()*'+*-'6>,'1'.;*-25'86.'6.^ .;?*0',1'D*'6'=-11',)6,',)0' =-,'1'410'8)>)')60' D**2'=-*+1;./';2,*0',1':?'86.'218I'.*=6-6,*0' -1?':?'620')60'-*,;-2*0',1',)*'6,)*-¼ ()*.,C *-25.'8*-*'1',)*'?62'B*.;.'218'/*.',1')?.*/¼ *-2,);.'0*2*0'6/.1',)*-*.;--*>,12'1')-.,¼ :* 60)*-*0'2'=6-,',1'B;06.?'620'>12. 0*-*0',)*'<1.6> /68'D 20 25'12')-.,62.¼ :*',6;5),',)6,',)*-5),^ *1;.'81;/0'*2Δ1'6'=6-60.*'1'0*/5),.'2' 6/*.,2*' 620',)6,',)*'?62'B*.;.',)-1;5)',)*'=18*-'1',)*' 1^ 51.'656 2'>1?D 2*' D 12,.?'8,)'<*..6)'81;/0' -* 52'6',)1;.620' *6-.J'M 6--6'6 !' ' !.¼+¾X¼ ,'.';==1.*0',)6,' *- 2,);.'620') .'01>,-2*.'6-*'6/^ /;0*0',1'2'B1)2.'41.=*/¼ ()*'..,*?'1' *- 2,);.' .**?.',1'>1?D 2*' D 12,.?'8,)'.'421.,>.?'620' ,)*'B;06*1C)-.,62'?//*26-62.?¼ ';//0.>;.^ .12'1' *- 2,);.'620') .'01>,-2*.'.'5 f7*2'DX7<1.C)*?'¼ 'g' ¼ **'6/.1'4*./*-' +!'# !' =*-10' g NST' :65*2D6>)'# ' '' 1'D'g KNT' *620*-' "!'# ' 'NRST *620*-' ' !' 'NK' NRK† 1-2*-' * " ' !' !' ' " ' 'N †6-0C 2*-' + '+ ' '._¾†>)6 ' "!'# ' 'KNST 6;^ /6.';.,,126' MB*26' R X† >)?0,'2 " +' ') +' !' Q C._¾† ;22 25)6?'# 1' ' -" ' ' K'B_¾

-,,;0' ' !' **' $!

*-;/6-;.¾ **' 6 $!

*.6-' *.6-*6' *.6-;.¾ **' ' L ' 6 ?< !

*.,;.'46//;.'.12'1' ¼ *.,;.' 6//;.' 6?*-1C 2;.'86.'51+*-21-'> 8'1' -6' % ¼S' 78)*2' ,)*'B*8.'D-19*'1;,'2,1',)*'-*D*// 12'8)>)'*20*0'2',)* 0*.-;>,12'1',)*-'?*,-1=1/.'620'(*?=/*'D'(,;.¼ <600*2*0'D',)*', -622'1'4*..;.' /1-;.'M¼+7' ,)*'6==/*0',1'46//;.'1-'=-1,*>,12'D;,',)1;5)')1' .*2,' *6=1/,62;.'12*'1')..'1 >*-.',1'2+*., 56,*',)* >6.*'620'-*>* +*0'-1?')?'6'-*=1-,' 6+1-6D/*',1',)* B*8.')*',119'21'* *>,;6/..*=*.'*,)*-',1'-*0-*.',)*-' 2A;-*.'1-',1'=-*=6-*' 1-'62'1;,D-*69'2,1'8)>)',)*-' 0.>12,*2,'?5),'0-+*',)*?¼ &)*2'6,'/6.',)*' 1;20' ,'2*>*..6-E7,1'6>,')*?6->)*0'-1?' 2, 1>)'620')6+^ 25',69*2' ,1/*?6.'620' 006'60+62>*0'12'B*-;.6^ /*?¼ ()*-*')*'0-1+_,)*'B*8.'2,1',)*';==*-'=6-,'1' ,)*>,'620',)*'=-*>2>,.'1',)*'(*?=/*'620'?5),7' 6>>1-0 25',1Y/1.>=);.')6+7 2.D*0',)*'86-'6,'12>*')60')*'21,'D**2'0..;60*0'3'.1?*'1')..1 >*-.'-1?' =;-.;25')..'60+62,65*¼ 112'6,*-')*';26>>1;2,6^ D/'M>1?=¼<6,,'LL+' S¾ -*8'1')..'1->*.'620' 86.'?;>)')6-6..*0'2')..'-*,-*6,'D',)*'B*8.'8)1I' ,119' -1?')?'6'_;62,,'1'.=1 /¼ *-'86.'6,',)* ,?*'2' >)66'620'46//;.'.*2,'?*..*25*-.')?',1' 5+*'62'6>>1;2,'1')..'6 6-.'6.'6+1-6D/*'6.'=1.. D/*' ,1')?.*/¼ ()*'*?=*-1-')18*+*-'?;>)'*L6.=*-6,*0' >1?? .. 12*0' *.=6. 62',1'>120;>,',)*'86-†'620',)*' /625;65*'1'(6>,;.'.**?.',1'?=/',)6,'46//;.'0*0' D* 1-*',)*'6-- +6/'1')..';>>*..1-')..'0*6,)'D* 25' =-1D6D/')6.,*2*0'D'+*L6,12¼ MB1.*=);.' 'bC† ' ' 'NT' S '620'K†' Q'R620' † CR'† K † ' † (6>,¼# '+' † ; ,12¾N %!' ¾X ' ?,)' ' ' ';' %"' ' 'KKS¾ **'($!

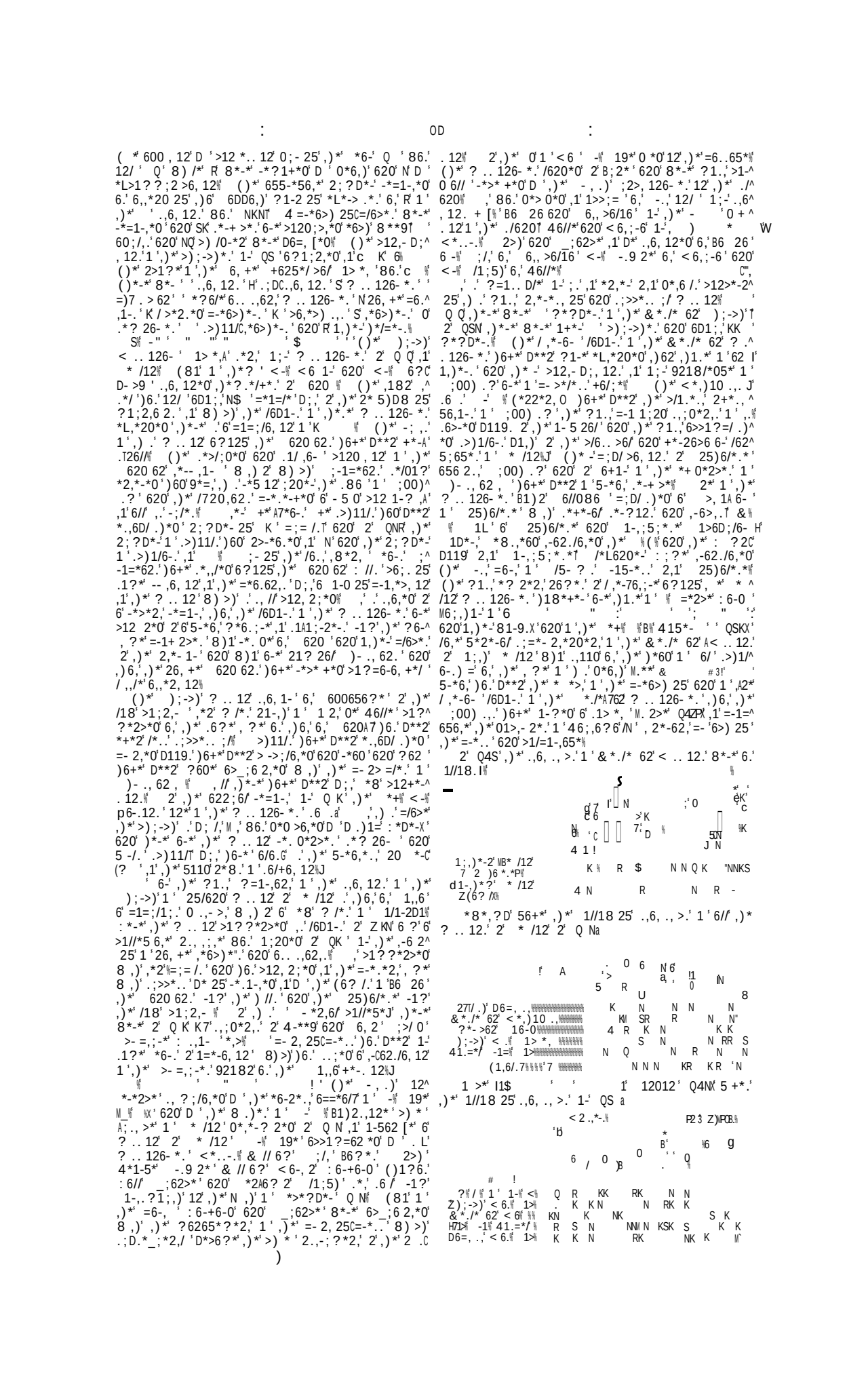
*,6D'M H-07';/5¼ 8'5 +*2'M'.0-¼+' Q X 6.'12*'1',)*' .*-+62,.'1',)*' (*?=/*J'8)1.*' .12.J'-*,;-2*0' -1?' 6D 012†D;,',)*' :*D¾/.,' M [-6' ' ST' *)¼+' QX'01'21,'>12,6 2' 62 '>1--*^ .=120 25'26?*¾

,;D ?' ,7>';.;6/ 25/1C 6, 2' 1-?'1',)':*D' ,*-?') " (',)* (8'12*'1',)* ,)-**/6-5*'0+.12.I1',)*' /0'(*.,';.*0'",)*'B*8.' 620',);.'0.,25;.)*0'-1?',)*' 68'620',)*' -1=)*,.' M,)*'1,)*-'0+.12.X'6.'D*25' 2',)*' -.,' 2.,62>*' >1?? ,,*0',1'8-,25'620'21,'1-6//A'0*/+*-*0¼ :*2>*' ,)*' 119'1' 62 */.'1;20' 2',).'.*>,12')..'=-1A)*C >*.')6+25'D**2'1-5 26// '8-,,*2'0182'620'21,';,^ ,*-*0'1-6/)¼ ()..'0+.12'1' >-=,;-*'.'6/.1'92182' D',)*'*_;+6/*2,'4-**9'26?*'% / ' 'M_¾+¾X¼ ,'>12,6 2.',)*' .6/?.'-1+*-D.'B1D' 62,>/*.' ;,)' 6?*2,6,12.' >>/*.6.,*.' .,)*<' 62 */' [-6'620' *D*,26)'M-*>912*0'6.'12*X'620')-12 >/*.¼ **' 8 f =

/12'M,)'-%" "'1',)*'4-**9.'620' 1?62.' 7)*$ '1',)*(1& ') + 'M + (' 2' 2^ 5)6/*.*†; ' 2',)*' 20 62'/625;65*'8)*2>* =-1D6D/' ' '1-' ',)*' ;-1=*62'26?*X'62'./^ 620'2',)*' 20 62' >*62'.1;.,)*6.,'1',)*'>16.,'1' 1-^ 1?620*/'M: 20;.,62X'-1?'8)>)',' .'.*=6-6,*0'D' ,)*'4;/'1'<6266-¼ ,'/*.'D*,8**2' j' '620'Re' ' ¼/6,¾620'R7' K'620'XRI' ' ¾/125¾ -1?' 21-,)',1'.1;.,)' ,.'/75,)'.'6D1;,'K '?/*.† ,.' 26-^ -18*.,'8 0,)' ' ?2*.'620',.'5-*6,*.,' N B' ?/*.¼ ,'6-*6'.'6D1;,'K '_;6-*'?/*.* A/12'>62'+*' 8 ,)'62'=6-,'1',)*'81-/0'2'26,;-6/D*6;, '->)2*..' 1'.1/'620'+6-*,'1'6;26'620'/1-6¾ ()*>/?6,*'.'?;>)'?1-*'*_;6D/*',)62',)6,'1',)*' ?6 2'/620'1'20 6¾ ()*6+*-65*'?*=*-6,;-*' .' 6D1;,'Q jT Q'2>)*.'.',)*6+*-65*'622;6/'1' -6 2¾ ()*%% '6>>1-0 25',1',)*'41.,)6' /^ ?626>'1-'QS'2;?D*-.'K RQQ¾ ()*' ;-1=*62' 627'1,)*-'2)6D,62,.'2>/;025',)*'?/,6-A'6?1;2,' ,1'6D1;,'K ¾ -'B¾*('*22*2,'.'1'1=1-2 12',)6,' '8)*2'2¾,)*')*5),'1'..'=-1.=*-,'?;,.,')6+*' D**2',*2',?*.'6.'0*2.*/''=1=;/6,*0'6.'6,',)*'=-*.*2,

06 ‰ ( )*‘ 26, +*.‘ 6-*‘ 0 + 0*0‘ 2,1‘ 1;-‘>/6..*.‘ -.,‘ ,)*‘ * /12*.*‘ 1-‘ 25)6/*.*‘1>>;= 25‘,)*‘ 620 62‘ ,*-- ,1- *.‘ 620‘,)*‘ >16..,.† .*>120‘,)*‘ <11-?*2‘ 8)1‘ 6-*‘ 1;20‘ 2‘ 6//=6-,.‘1 ‘,)*‘ ./620† ,) -0‘,)*‘ *006). ‘ 6‘ 8 /0‘ -6>*‘ 8)1‘ / +*‘ 2‘,)*‘ ?1;2,6 2.‘ 2‘,)*‘ *6.,*-2‘ 0=6-,‘1‘,)*‘ ./620‘ 620‘ 1;-,)‘,)*‘ : 2011.‘8)1‘1>>;^ = ‘ >) * / ‘,)*‘ ‰ 620‘ ‰ >16..,‘ 6=0‘ .=*69‘,)*‘ (6? /‘ /625;65*‰ *. 0*.‘,)*.*‘,)*-*‘ 6-*‘ 6/.1‘ 2‘,)*‘ ./620‘ 5=*‘ 1-,;5;*.*‘ ;,>)‘620‘ 25/ .)‘ >1/12 .,.† 620‘ 62‘ 2,*-? L,;-*‘1‘,)*.*‘ 8 ,)‘*6>)‘1,)*-‘620‘ 8 ,)‘,)*‘ 26, +*‘ -6>*. ‘ 1-?.‘ ., // 621,)*-‘>/6..‘ >6//*0‘ D;-5)^ *-.‰J‘ ( )*‘ 25)6/*.*‘D*/ *+*‘,)*?.*/+*.‘,1‘)6 *‘D**2‘ ,)*‘ 6D1- 5 2*.‰ ( )*‘ 1-,;5;*.*‘ 0 .>1+*-*0‘ * /1=‘ 2‘ ‰ ( )*‘ .;D.*_;*2,/ ‘ D*>6?*‘ ?6..*-.‘ 1 ‘,)*‘ ./620‘620‘ -1?‘,)*?‘ _‘,86.‘>12_;*-*0‘D ‘,)*‘ ;,>)‘ 2‘ S S‘A;.,‘6‘ >*2,;+I7 620‘6‘)6/‘6 ,*-‘,)*‘ 6-- +6/‘1 ‘,)*‘ 1-,;5;*.*‰ 2‘ RS‘,$*‘ 25/ .)‘,119‘=1..*.. 12‘ 1 ‘ 1/1?D1‘620‘ 2‘ Q ‘1 ‘ 620 ‘M *8>1?D‘ = % ‘ ‘ 1‘.‰+X‰ 5 ‰ ‘ ( )*‘ 25)6/*.*‘ 6-*‘0*+1,*0‘,1‘ ;00)^ .?‘ 8)>)‘ .‘,)*‘ =-*+6 / 25‘ -*/ 5 12‘ 1‘,)*‘ ./620‰ ,‘01*.‘ 21,‘ *L .,‘)18*+*-‘ 2‘,)6,‘ .,6,*‘ 1‘=;-. ‘ 2‘ 8)>)‘ ,‘ .‘ .,, // 1;20‘ 2‘,)*‘ 201C) 2*.*‘ =*2 2.;/6‰ ,.‘ .6>-*0‘D119.‘ 6-*‘ 0*2, >6/‘ 8 ,)‘,)1.*‘ 1‘ ;-?6)‘ 620‘ /6?‘620‘D1,)‘-*>1-0‘,)*I01>,- 2*.‘1‘46;,6?6‘ 2‘,)*‘ 6/‘/625;65*† ,)*‘ 0*+ 6, 12.‘6-*‘ 2‘?6,,*-.‘1‘ =-6>, >*‰ ( )*‘ <6/6D6-‘9 25.‘60;/,*-6,*0‘ ;00) .?‘ ,1‘6‘>12. 0*-6D/*‘*L,*2,‘8 ,)‘ -6)?62 .?‘2,-10;>25‘ ,)*‘ 81-.)=‘1‘ : 2011‘0*, *.‘ 2,1‘,)*‘ ;00) .‘,*?^ =/*.‘620‘,) .‘ >12,?;*.‘?1-*‘1-‘/*.‘,1‘D*‘,)*‘ >6.*‰I‘ <ZF-*‘,)62‘12>*‘)6+*‘,)*‘ ;00) .,.‘1‘ * /12‘7;5),‘ ,1‘-*.,1-*‘,)*‘=;-, ‘1‘,)*-‘6,) ‘6,‘12*‘, ?*‘C.*20^ 25‘0*=;,*.‘,1‘ 6?‘6,‘621,)*-‘,1‘ ;-?6)‘8 ,)‘,) .‘ 1DA*>,‘ ;‘+*8‘ ()*‘ ;-?62‘1-‘ ?6-6=;-‘.*>,)+6*‘ D; 5‘D**2‘,)*‘-* 1-?*-.‘1‘ 25)6/*.*‘ ;00) .?‘620‘ ?6 2,6 2‘21‘+*- ‘ - *20/ ‘ -*/6, 12.‘8 ,)‘,)*‘ =6-, ‘ 3P+)1‘ .;==1-,*0‘D ‘,)*‘=- *.,.‘1‘ 6?‘6>9218/*05*‘ ,)*‘ > + / =18*-‘ 2‘?6,,*-.‘1‘ -*/5 12‘.62>,12‘,)*‘ 81-.)=‘1‘ : 2011‘0*, *.‘620‘,)*‘ *?=/1 ?*2,‘1‘,)*‘ =- *.,)110‘20‘ .*>;/6-‘ 1>>;=6, 12. ‘ ;=)1/0‘ >6.,*‘620‘ -*.,- >,‘,)*‘ .6>-*0‘D119.‰ 6.,*‘ 86.‘6>9218/*05*0‘ D ‘,)*‘ 25)6/*.*‘=- 1-‘,1‘,)*‘2,-10;>,12‘1‘ ;00)^ .?‘8)>)‘ 2‘=- 2> =/*‘ .‘1==1.*0‘,1‘,†D;,‘.1‘ -?^ / ‘86.‘,‘-11,*0‘,)6,‘ .‘., // *20;-*.‘,)1;5)‘?1-*‘6.‘6‘ .1> 6/,)62‘6‘ .6>-*0‘2.,,;, 12‰ 46;,6?6‘ ;00)6‘ .‘ .6 0‘,1‘)6+*‘ + . ,*0‘ * /12‘,)-*-*‘ 0 *-*2,‘,?*.‘,1‘ =-*6>)‘) .‘ 01>,- 2*‘620‘) .‘ =% 1‘1-‘ .6>-*0‘ 11,^ .,*=‘12‘,)*‘.;?? ,‘1‘ 06?.‘ *69‘ .,// >1?620.‘ ,)*‘)1?65*‘1‘,)*‘ 6 ,) ;/‰ ;00) .?‘86.‘21,‘)18^ *+*-‘=*-?62*2,/ ‘ 2,-10;>*0‘2,1‘ *E/12‘,//N ‘ ‰ ‰‘ 8)*2‘ <6) 201‘1D,6 2 25‘,)*‘ .;==1-,‘1‘,)*‘9 25‘*.^ ,6D/ .)*0‘ .‘6.‘,)*‘26, 126/ 6 ,)‰ ( )*‘ 2 /;*2>*‘ 1‘,)*‘ =- *.,.‘ 5-60;6// ‘ 2>-*6.*0‘620‘D ‘,)*‘ =*, ‘ 1‘ ,/*‘ 25)6/*.*‘9 25.‘?126..*- *.‘ 8-*-*‘ - >)/+‘*2018^ *0‘† 1-‘,)1;5)‘,)*‘ ;00) .’?129‘ .‘ 20 + M ,6// ‘ 1-^ D 00*2‘,1‘=1..*..‘5110.‘6‘ >1?7;2 ,‘?6‘ ‘ =-1=^ *-, ‘,1‘62‰I7*L,*2,† 620‘ ,‘ .‘6‘-*?6-96D/*‘ 6>,‘,)6, ‘,)*‘=-*.*2,‘06 ‘21‘/*..‘,)62‘12*‘,) -0‘1‘,)*‘>;/, +6^ ,*0‘/620‘1‘,)*‘ ./620‘ .‘ >1?=;,*0‘,1‘D*/125‘,1‘,)*‘ =- *.,)110‘620‘ .‘*L*?=,‘ -1?‘,6L6, 12J M)6?D*-. .‰ ‰X‰ ( )*‘ <11-?*2‘ .>6,,*-*0‘,)-1;5)‘,)*‘ ./620‘ 6-*‘ <1)6?7*062.‰ ( )*‘ : 2011.‘M <6/6D6-‘ 1-‘ (6^ ? /.X‘8)1‘ 1-?‘,)*‘*>) * ‘=1=;/6, 12‘1‘,)*‘0 .,- >,‘1‘ B6 26‘ 1//18‘ -6)?2 .?‰ *‘* 8 ‘ ‘† 8 $ ‘ L ‘ g % ! ‘ ‘ # ! ‘ ‰ 5 ‘ " ‰ ‘ ;- 25‘,)*‘,*2;-*‘1‘ * /12‘D‘,)*‘ 1-,;5;*.*‘M C S S‘X‘,)*‘ 2,-10;>*0‘,)*‘ 1?62‘ 6,)1/ >‘-*/5 12‰ 2‘ ‘ d6+ *-‘ M_‰ +‰X‘ =-*6>)*0‘,1‘,)*‘ : 2011.‘ 2‘ * /12‰ ( )*‘ ? .. 12‘86.‘+*- ‘.;>>*.. ;/† 6‘B*.;,‘>1//*5*‘620‘,)*‘ .*+*-6/‘ >12+*2,.‘ 8*-*‘ *-*>,*0‘620‘,)*‘ =-1+ 2>*‘ 1‘ B6 26‘D*>6?*‘6/?1.,‘8)1// ‘)- ., 62‰ ( )*‘ ? .. 12^ 6- *.‘ 0 0‘ 21,‘ =*2*,-6,*‘ 6-‘ 2,1‘,)*‘ 2,*- 1-‰ ( )*‘):->)‘1‘ 1?*‘)6.‘6,H_X-*Q*2,‘,81‘+ >6- 6,*.‘6=1.,0/C >‘ 1/1?D1‘620‘B6 26‘620‘>/6 ?‘6‘?*?D*-.)=‘1‘ 6D1;,‘ ‘1‘8)1?‘ ‘D*/125‘,1‘,)*‘+ >6- 6,*‘ 1‘B6 26‘‰ >, 7/>0‘..,6, ., >6/‘2 1-?6, 12‘12‘,)*‘+ ^ >6- 6,*‘1‘B6 26‘.‘5 +*2‘2‘ 6,,*-.D .‘ " ‘ ‘2‘ ‘ 1-‘ QS‘‘M ;D/2‘QS‘=‘NR C X‰ K‰‘ "‰‘ &)*2‘,)*‘ ;,>)‘0-1+*‘1;,‘,)*‘ 1-,;^ 5;*.*‘,)* ‘D*562‘6,‘12>*‘,1‘=/62,‘,)*‘ * 1-?*0‘-*/5^ 12‰ M 2‘,)*‘-*?6 20*-‘1‘,) .‘6>>1;2,‘8*‘ 1//18‘ *8^ >1?D‘ % ‘ ‘ !‘=‘KKN‘._‰‘620‘ -182‘ # ‘ ‘ ‘+1/‰ X‘ ()*‘ ‘,119‘=1..*.. 12‘1‘,)*‘ 1?62‘ 6,)1/ >‘ >);->)*.‘620‘>12+*2,.‘620‘D62^ .)*0‘,)*‘=- *.,.‘620‘2;2.‰ 2‘ +*‘ *6-.‘,)* ‘ -*^ =1-,*0‘ K NQ‘ >)/0-*2‘D6=, [*0‘Q ‘=;=/.‘ 2‘,)*‘ .>)11/.‘S ‘>12+*-,.‘,1‘)- ., 62, ‰ &)*2‘,)*‘ ;,>)‘.;--*20*-*0‘,)*‘ ./620‘,1‘,)*‘ 25/ .)‘,)*‘2;?^ D*-‘ 1‘)- ., 62.‘86.‘.,6,*0‘6,‘ K ‰ B 62‘1‘,)*.*‘ 8*-*‘ 21?26/ >12+*-,.C‘ 6// ,)6,‘86.‘-*_;-*0‘ D* 1-*‘D6=, .?‘86.‘,)6,‘,)*‘>620 06,*.‘.)1;/0‘D*‘6D/*‘ ,1‘-*=*6,‘,)*‘ 1-0 .‘ -6 *-‘,)*‘ (*2‘ 1?7620?*2,.‘ 6‘?1-2 25‘620‘*+*2 25‘=-6 *-‘620‘5-6>*‘;=12‘?*6,‰ ‘ 6‘+*- ‘? .,69*2‘=1/>‘,)*‘ ;,>)‘ 81;/0‘5+*‘-‰1‘ =;D/>‘*?=/1 ?*2,‘,1‘62‘;2D6=, [*0‘26, +*‘620‘,)*‘ 25)6/*.*‘8*-*‘D6=, [*0‘D ‘);20-*0.‘80,)‘21‘-*/5^ 1;.‘6 ?‘8)6,*+*-‰‘ ,‘ .‘21,‘,1‘D*‘8120*-*0‘6,‘,)6, 8)*2‘,)*‘ ;,>)‘56+*‘;=‘,)*‘ 2‘620‘ ,)*-*‘86.‘/ ‘,/*‘ -;‘,‘,1‘D*‘ .**2‘1‘,)* -‘?.. 12.‘2‘,‰ N‰ -" ‘ ‘ ‘$ ‰ ‘ 2‘Q ‘,) .‘ .1^ > *, ‘*2,*-*0‘;=12‘6‘?.. 12‘2‘ * /12‘620‘,)*‘ *+‰ <*..-.‰ 1.‘)-)6-0,‘ 6/?‘620‘ *60‘8*-*‘*?=/1A*0‘ 6.‘?.. 126-*.‘ 1-‘.*+*-6/ *6-.‘1‘);‘6 ,*-‘.*+*-6/ *6-.‘1‘*‘ 1-,‘,)*‘?.. 12‘86.‘6D62012*0‰ ‰ -" ‘ 6 "‘; % ‘ ‘ $ ‘ ‘ ‘( )*‘ 25/.)‘ 6=, ..,‘>1?7?*2>*0‘6‘?.. 12‘2‘ * /12‘2‘ Q K‘2‘,)*‘=*-.12‘1‘<-‰)6,*-‘8)1.*‘ *1-,.‘,1‘)- ., 62 [*‘,)*‘ 25)6/*.*‘1-‘ ;00) .,.‘620‘,1‘ ,*?6, [*‘,)*‘ .,;0 ‘1‘,)*‘-‘/625;65*‘)6+*‘?60*‘) .‘ 26?*‘?*?1-6D/*‰ : *‘0*0‘2‘QKR‘ ()*‘/6D1-.‘1‘) .‘..;>>*..1-.‘)60‘-*6>)*0‘2‘Q N‘,1‘N‘+ //65*.‘1‘ ,)*‘ 25)6/*.*‘2‘8)>)‘,)*‘ ‘?7 2,6 2*0‘N‘.>)11/.‘ 8 ,)‘62‰A6+*-65*‘6,,*2062>*‘1‘QN‘=;=/.‘ 7)*‘)60‘ 6/.1‘ QN‘*2-1//*0‘6.‘);->)‘?*?D*-.‰ S‰ -" ‘& ‘; ‰‘ 2*‘1‘,)*‘ -.,‘?..12^ 6-*.‘1‘,)*‘ ?*-> 62‘ 16-0‘,1‘,)*‘ 6.,‘86.‘,)*‘ +*‰ 6?;*/ *8*//‰ ( ) .‘?.. 126- ‘.=*2,‘.1?1*‘, ?*‘6, * //12‰ 2‘6‘/*,,*-‘06,*0‘6,‘ 1/>?D1‘ *>*‘K Q N‘ <-‰ *8*// ;-5*0‘62‘ ?*-> 62‘?.. 12‘2‘ * /12‘ ZZ‘,)*‘ 1//18 25‘5-1;20.‘6?125‘1,)*-.‘,)6,‘,)*‘51+^ *-2?*2,‘M 25/ .)X‘86.‘ -*20/ ‘,1‘?.. 12.† ,)6,‘,)*‘ =1=;/6, 12‘1‘,)*‘ ./620‘86.‘-1?‘12*‘,1‘,81‘?// 12.† ,)6,‘,)*-*‘8*-*‘D;,‘,81‘/625;65*.‘,1‘)*‘/*6-2*0‘2‘1-^ 0*-‘,1‘=-*6>)‘,1‘,)-*-*‘?// 12.‘1‘=*1=/*† ,)6,‘,)*‘26^ ,+*.‘>1;/0‘-*60‘620‘8-,*† ,)6,‘,)*‘8)1/*‘ D/*‘)60‘ D**2‘,-62./6,*0‘2,1‘(6?/‘620‘,)*‘ *8‘(*.,6 ;2,‘ 2,1‘ 25)6/*.*† ,)6,‘,)*-*‘8*-*‘K ‘26,+*‘)- C‘ ,62.‘.1‘>6//*0‘620‘6,‘/*6.,‘ .>)11/.‘8*-*‘ 2‘1=*7-C‘ ,12‘620‘,)6,‘,)*-*‘D;,‘,81‘?.. 126- *.‘ 2‘,)*‘8)1/*‘ ./620‰ (,*‘D16-0‘0*>0*0‘,1‘?69*‘ *‘12‘6‘?.. 12‘ :0‘620‘.*2,‘ 2‘Q S‘,)*‘ *+‰ <*..-.‰ <*5.‘ >)^ 6-0.‘& 6--*2‘ 6-08*//‘620‘ 11-‘8)1‘/620*0‘6,‘ 1^ /1?D1‘ 2‘<6->)‘Q S‰ 2‘6‘ *6-‘<-‰ 11-‘86.‘6D/*‘ ,1‘=-*6>)(6?/‘620‘.>)11/.‘+7*-*‘*.,6D/.)*0‘6,‘0 ^ *-*2,‘=1 2,.‰ ‘ Q Q‘,)-1;5)‘0*6,).‘620‘>)625*.‘ <*..-.‰ <*5.‘620‘ 11-‘12/‘8*-*‘/*.‘ 2‘ * /12†);.‘ 2‘ Q R‘ <*..-.‰ & 2./18‘ =6/0 25‘6=0‘ &11086-0‘ 8 ,)‘B1)2‘ >;00*-‘ <‰ X‰‘ 6-- +*0‘ 2‘ * /12‰ ‘ =- 2, 25C=-*..‘86.‘*.,6D/.)*0‘2‘QK‰ 2‘QK‘62‘ *L,*2. +*‘ -*+ +6/‘1>>;--*0‘2‘,)*‘ ./620‰ ‘ QK‘ ,)*-*‘86.‘6‘)5)C.>)1,/‘Q‘.>)1/6-.‘620‘ ‘26, +*‘6.^ . .,62,.‰ ( )*‘?.. 12‘)6‘.=6.‘*0‘,)-1;5)‘?62‘+C >7. .;0*.‘D;,‘12‘,)*‘ 8)1/*‘ ,‘ -*.;/,‘)6+*‘ D**2‘ +*- ‘.6, . 6>,1- ‰ 2‘Q ‘Z2*8‘+*-. 12‘1‘,)*‘ D/*‘ 2‘,)*‘ (6? / 86.‘=;D/.)*0‰ ( )*‘.,6, ., >.‘ 2‘ QS‘ 8*-*‘6.‘1//18.†

,);--D-.‰ (O‰);-*D=I‰ <*?D,-.‰ (/// =6// ‰‰‰‰‰‰‰‰)6+656>)*2‘‰‰‰ 6,, >1,,6‰‰‰‰‰‰‰‰ /* 1011=,,‰‰‰‰‰‰‰‰ cN H K K N (1,6/‰‰‰‰‰‰‰‰



Literature.—Besides the works already cited, see Turnour, *Epitome of the History of Ceylon* (Colombo, 1836); Knighton, *History of Ceylon* (London, 1845); Tennent, *Christianity in Ceylon* (1850, 8vo); Tennent, *Ceylon: Physical, Historical, etc.* (London, 1859, 8vo); Heber, *Journey in India, with Notes in Ceylon* (Phila. 1829, 8vo); *London Quarterly Review*, April, 1863, art. v (The Ceylon Wesleyan Mission); *Annual Reports, A. B. C. F. M.* and of *Wesleyan Missionary Society*; Marshall (Roman Catholic), *Christian Missions* (Lond. and New York, 1864, 2 vols.), vol. i, p. 357-409; Stevens, *History of Methodism*, vol. iii, ch. xii.

Chabărè. See ACHABARA.

Chabatstseleth. See ROSE.

Cha'bris (Χαβρεῖς v. r. Ἀβρίς, Vulg. omits), the son of Gothoniel (ὁ τοῦ Γ.), one of the three "rulers" (ἄρχοντες) or "ancients" (πρεσβύτεροι) of Bethulia (q. v.) in the time of Judith (Jud. vi, 15; viii, 10; x, 6).

Chad, ST., bishop of York in the 7th century, was educated under Aidan at the monastery of Lindisfarne. For some years he was head of the monastery of Lestingra, Cleveland. King Oswi made him bishop of York; but as Wilfrid had before been consecrated to that see by French bishops, Chad gave it up at the suggestion of Theodore (q. v.), and was appointed to the see of Lichfield, which he held till his death, March 2, A.D. 672. His name is still preserved in the Calendar of the Church of England (March 2), and the Cathedral of Lichfield is named St. Chad's.—Churton, *Early English Church*, chap. iv.

Chaderton, LAURENCE, the first master of Emanuel College, Cambridge, was born at Chatterton, in Lancashire, in 1546. His parents were of the Romish religion, but the son, after studying the law, went to Cambridge, where he obtained a scholarship in Christ's College, for which his father disinherited him. In 1578 he took his degree of B.D., and was chosen lecturer of St. Clement's Church, Cambridge, where he preached many years; and such was his reputation that Sir Walter Mildmay declared that, if he would not accept the mastership of his college, the foundation should not go on. In the beginning of the reign of James I he was appointed one of the divines at the Hampton Court Conference, and he was also one of the translators of the Bible, translating from Chronicles to the Canticles inclusive. In 1612 he took his doctor's degree. He died in 1640. He wrote a Treatise on Justification, and a sermon preached at St. Paul's Cross.—Rose, *New Gen. Biog. Dict.* vi, 182; Hook, *Eccl. Biography*, iii, 545.

Cha'dias, named (1 Esdr. v, 26), in connection with Ammidioi, as one of the (?) places from which 422 persons ("they of Chadias," *οἱ Χαδιασαι*) returned from Babylon with Zerubbabel; but the Hebrew lists (Ezra ii, 26; Neh. vii, 30) do not contain the name.

Chæ'reas (Χαιρέας), a brother of Timotheus, the leader of the Ammonites against Judas Maccabæus (1 Macc. v, 6), who held Gazara (Jazar, 1 Macc. v, 8), where he was slain on the capture of the fortress by the Jews (2 Macc. x, 32, 37).

Chaff (properly מֹץ, *mots*; ἄχυρον), the refuse of winnowed grain, separated by the treeze, and consisting of husks and broken straw. It was the custom in the East to burn the chaff after winnowing. There was danger lest, after they had been separated, the chaff should be blown again among the wheat by the changing of the wind, and to prevent this they put fire to it at the windward side, which crept on and continued to burn till it had consumed all the chaff (Psa. lxxxiii, 13; Isa. v, 4; Matt. iii, 12). See AGRICULTURE.

The word rendered "chaff" in Isa. v, 24; xxxiii, 11, is חֲשַׁשׁ (*chashash'*), and means rather dried grass or *hay*. In Jer. xxiii, 28, it is תֶּבֶן (*te'ben*), elsewhere "straw." In Exod. v, 12, we read of קַשׁ לַתֶּבֶן, *stubble for straw*; so that it is not the same as stubble. It means straw cut into small portions, in which state it was mixed with the mud of which bricks were made to give it consistency. See STRAW. In 1 Kings iv, 28, mention is made of a mixed provender for horses and camels of barley and תֶּבֶן, such as the Arabs call *tibn* to this day. In Dan. ii, 35, the term is the Chaldee כְּעוּר (*ur*). See THRESHING.

Chaff in the Scriptures is a frequent emblem of abortive wickedness (Psa. i, 4; Matt. iii, 12, etc.). False doctrines are called chaff; they are unproductive, and cannot abide the trial of the word and Spirit of God (Jer. xxiii, 28). See BAPTISM OF FIRE. The carrying away of chaff by the wind is an ordinary scriptural image of the destruction of the wicked, and of their powerlessness to resist God's judgments (Isa. xvii, 13; Hos. xiii, 3; Zeph. ii, 2).

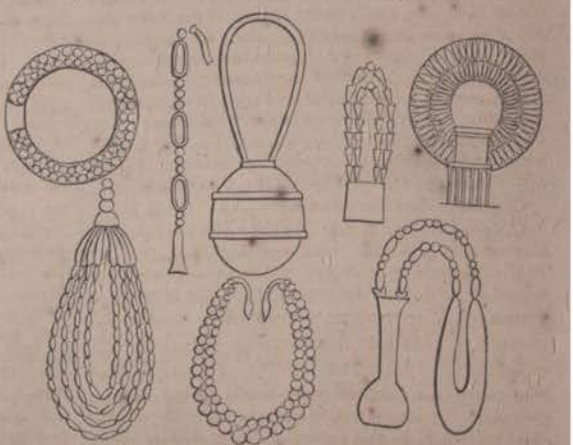
Chagab. See LOCUST.

Chagigah. See TALMUD.

Chain (represented by several Heb. and Gr. terms). Chains of different metals appear to have been used by the ancients for various purposes, similar to those of modern times.

1. *As a Badge of Office.*—The gold chain (רְבִיד, *rabid'*) placed about Joseph's neck (Gen. xli, 42), and that promised to Daniel (Dan. v, 7, named חֲמִנִיךְ, *hamnik'*), are instances of the first use (comp. 1 Esdr. iii, 6). In Egypt it was one of the *insignia* of a judge, who wore a jeweled image of Thmei or Truth attached to it (Wilkinson's *Anc. Egypt.* ii, 26); it was also worn by the prime minister. In Persia it was considered not only a mark of royal favor (Xenophon, *Anab.* i, 2, § 27), but a token of investiture (Dan. l. c.; Morier's *Second Journey*, p. 93). In Ezek. xvi, 11, the chain is mentioned as the symbol of sovereignty. The breastplate of the high-priest was in like manner fastened to the ephod with golden chains (Exod. xxxix, 16, 21). See ATTIRE.

2. Chains for *ornamental purposes* (comp. Judith x, 4) were worn by men as well as women in many countries both of Europe (Smith's *Dict. of Class. Ant.* s. v. Torques) and Asia (Wilkinson, iii, 375), and probably this was the case among the Hebrews (Prov. i, 9). The necklace (עָנָק, *anak'*) consisted of pearls, coral, etc., threaded on a string; the beads were called חֲרוּזִים, *charuzim'*, that is, *perforated* (Cant. i, 10, "chains," where "of gold" is interpolated). Besides



Various Forms of ancient Egyptian Pendants.

,)1' 2*>9/6>*' 1,)*-' >)6 2.' 8*-*' 81-2' MB;0 ,)' L ' X')625 25' 0182' 6.' 6-' 6.' ,)*' 86 .,' 1-' *+*2' /18*-*' 1?*' 8*-*' 601-2*0' 8 ,)' = *>*.' 1 ' ?*,6/' .)6=*0' 2' ,)*' 1-?' 1 ',)*' ?112' 26?*0' > " E *=,% *)-) ' ;/5% '1' ' ' ' + ' " ' :' .6% ' QXT' 6' . ? /6-' 1-26?*2,' ,)*' " 1' ., ' *L ..' 2' 5A=,' M 62* .' '6 % !' ==% %X% ()*' < 0 62 ,*.' 601-2*0' ,)*' 2*>9.' 1 ',)* -' >6?*/.' 8 ,)' .;>)' MB;05% + ' K ' KSXT' ,)*' -6D.' ., // ;.-*' 6' . = /6-' 1-26?*2,' M & */.,*0' 'N X% (1' 1),)*-' >)6 2.' 8*-*' .;.=*20*0' +6- 1;.',- 29*,.' 6.'.>*2,CD1,,/*.'`` > ' " 1 1%" "1' '1-' " ' " ' ' .6% ' K X' 620' ? --1-.' > (' .6% KNX% $ %= " ' "('+ ' (8 8*-*' 6,,6>)*0',1',)*' 629/*C- 25.' 8) >)' .)1-,*2*0',)*' .,*=' 620'=-10;>*0' 6' ? 2> 25'56 ,'M .6% ' S QX% **' g * ! ()*' =6-, >;/6-' *?6/*' 1-26^ ?*2,.',);.'-*20*-*0' 2' .6% ' R M? ' (%" ' ' *=,%) ' ;/5% 4 8' . 52 ' % ' 1-' =*2^ 062,.',1' *6-- 25.' 1-' 1,)*-' 6-, >/*.' 1 'A*8*/-A% *>' > ! N% ()*' ?*62.' 601=,*0' 1-' % '6?125' ,)*' B*8.' 8*-*' *,)*-' ?626>/*.' 1-' *,,*-.' 1 '>1==*-' 1-' -12' . ? /6-',1'1;-')620>; .' I " + (/ ,% ' '6.',)1;5)' ?60*' 2')6/+*.X' 6.,*2*0' 12',)*' 8- .,.' 620' 629/*.' 620' 6,,6>)*0',1' *6>)' 1,)*-' D ' 6' >)6 2' MB;05% L+ ' K T' K 6?% / ' N T' K 25.' d d ' T' B*-%ILLL L' X% ,' 86.' 6' >;.,1?' 6?125',)*' 1?62.' / 9*8 .*' ,1' 6.,*2' 6' =- .12*-' 8 ,)' 6' / 5),' >)6 2',1',)*' .1/0 *-' 8)1' 86.' 6==1 2,*0',1' 5;6-0') ?% 2*' *20' 1 ',' 86.' 6,,6>)*0',1',)*' - 5),')620' 1 ',)1' =- .12*-' 620',)*' 1,)*-',1',)*' /* ,')620' 1 ',)*' .1/0 *-% ()' .' .',)*' " 'D ' 8) >)' 6;/' 86.' .1' 1 ,*2' D1;20' 620',1' 8) >)')*' -*=*6,*0/ ' 6//;0*.' M >,.' L.%+ ' K T' =)% + ' K T' K (?% ' SX% &)*2',)*' ;,?1.',*>;-, ' 86.' 0*. -*0',)1' =- .12*-' 86.' 6,,6>)*0' D ',81' >)6 2.' ,1',81' .1/0 *-.' 6.' 86.',)*' >6.*' 8 ,)' *,*-' M >,.' L ' ST' & 6/>)' ' ' ' ' 'B*2% QX% M **' ? ,) .' ' ' ' !' & 4!.%+% 6,*26%X' **' ! 01/.' ,' 6==*6-.' 8*-*' L*0' 2',)* -' .)- 2*.' 8 ,)' >)6 2.' M .6% L/' RX% - 0*' .' ',*-?*0' 6' >)6 2' 8) >)' 9**=.' ?*2',;20*-' ,.' =18*-' M .6% LL ' ST' >1?=% ' .0-% ' T' .0% L+ ' N T' >>/;.% + ' K ' KRX' **' & *? ..' $ ' ' !' .% +%) 6 -% **' ' g 9!0 ' !) 6 .' ' 4+ '6' 8 ..'%0 7 2*' 1 ',)* * 1-?*0');->)' 86.' D1-2' 6,' 4*2*+6' 2' B62;6- ' % 2' KQ')*' D*>6?*' =6.,1-' 1 ',)*' -* 2>)' >12C *56, 12' 6,',)*' : 65;*T 620')*' -*?6 2*0' 2',)6,' ;-5*' ;2, /').' 0*6,)' >,1D*-' Q % :*',-62./6^ ,*0' -1?',)*' 25/.)' 1 ',6>9)1;.*' $ ' 620' 6/.1' =;D/.)*0' 6' >1?7*2,6- ' 12',)*' D/*' E ' $ ' ; ' ' ' ' ' ' ' 7 ' " = ' ' ' ' 1' '& 'S'+1/.%Q+1T' 6' : 6+*' KC T' 6'.*+*2,)'+1/;?*' 86.' ..;*0'6 ,*-').' 0*6,)'D ' -% <6>/6 2*' 8 ,)'=-*/ ? 26- '0 ..*-,6, 12.' R XT' 6' 81-9' 12' D/ >6/ ()*1/15 ' I-" ! ' N6 9 ' $ ' ' ' $ ' ' $ 'K'+1/.%Q+1' KXT' " ' " 4 ' ' 4 ' M 6' : 6 *' ' Q+1X% 620' 2;?*-1;.' ? 21-' 81-9.% ' *21D *-' ' N ! ' ? :' : 1* *-' 74 ' ; ! ? +' L ' S S%) 6 .*%' **') ' ' !) 6A;5' (' $ ' 4 6' >1?7?12/ ' >6//*0' ;1' 620' 2' -6D 6' & + ' D "* ' ' 6' B*8 .)' 8 (,*-' 8)1' .' -*56-0*0' D ' B*8 .)' >-, >.' 6.' ,)*' >) * ' 1 ' : *D-*8' 5-6?7?6-62.' M =/* NP2' 80.' D1?' 2' *[6D1;' % ' K C 7 620')*2>*' .' .1?*, ?*.' 6/.1' >6//*0' D " '@ ' M Z ' : *' 86.',)*' -., 8)1' -*>152 .*0',)6,',)*' .,*?' 81-0.' 1 ',)*' : *D-*8' >12. .,'1 ' " ' 6.';=',1') .', ?*' .1?*1 ',)*' >) * ' *, ?1/15 .,.' 620' *L=1. ,1-. ' *% 5% ;60 6' 4612' <*26>)*?% X2C 6-;9`?6 2,6 2*0',)6,',)*-*' 8*-*' D^ / ,*-6/' 620' *+*2' ?121/ ,*-6/ .,*?.% : *',11' 86.',)*' -.,' 8)1' 0 .>1+*-*0',)*',-;*' -*/6, 12' 1',)*' 4 ' 1-? 25',)*' ?2*?12 >' 620',)*' -'>)625*.% ,' 86.')*',71'8)1'6--625*0',)*' : *D% +*-D.'6>>1-0 25' ,1',)*-' >12A;56, 12.' 0 .,-D;, 25',)*?' ;20*-',81')*60.d w1' 1 ' 2 " 1' 21,' D;-0*2*0' 8 ,)' 62 ' 1-?6^ , +*' 600 , 12.'T 620' Vf' ' " ' D* 25' D;-0*2*0' 8 ,)' 1-?6, +*' 600 , 12.' T 620' L*0'. L' >12A;56, 12.' + [%) :' K% 7 %" :' N% %" :' % "% :' % 1 ' 620' %" :' 620 'S% ,*V' () .'6--625*?*2,')6.' D**2' .; .,62, 6// ' 601=,*0' D ' 6//' 5-6?7?6- 62.' 620' .' *L^) D ,*0' 2' 6//',)*' -*5;/6-' =6-60 5?.' 1 ',)*' +*-D' 5 7*2' D ' 4*.*2 ;.' 86/0' 620' 6//' ?10*?'/ 25;.,.' 2',)*' -' : *D-*85-6?7?6-.% ()*.*' 0 .>1+*- *.' 620' .> *2, >' =- 2> =/*.')6A;5'=-1=1;20.' 2',)-*-*' D119.% ()*' -.,' .' >6//*0' ,-*6,.' >) * ^ / ' 1 ' " ' 4 ' 2',)-**' .*>, 12.% ()*' .*>^ 120' D119' .' >6//*0' ,-*6,.' 1 +*-D.' 8)1.*' '620' " ' -60 >6/.' 6-*' 6/ 9*' ! ()*',/- -0' D1,9 ' .' >6//*0' 620 ,-*6,.' 1 ',)*'+18*/=1 2,.' 620' 6>>*2,.% - 5 26// '8-,^ 2' 2' -6D >',)*.*' ?6-+*//1;.' 5-6?7?6, >6/'0 .>1+*-^ *.' 8*-*' 6,' -..,' 26>>*.. D/*' 620';29218 2',1',)*' 4*-C ?621C -*2>)' 2,*-=-*,*-.'T D;',)*' ' *L*->.*0' .1' *L^ ,-61-0 26- '62' 2 /;*2>*' ;=12',)*' =62 .)' .>)11/' 1 ' 2,*-=-*,*-.',)6,' 2' 1-0*-',1' 269*',)*?' ?1-*'5*2*-6/^ / ' ;.* ;/',)*' 8*-*' ,-62./6,*0' 2,1' : *D-*8' D ' D12C [-6% ()*')6+*' D**2' =;D/.)*0' D ' *1=% ;9*.' M -629 ,% 6% <% Q 'Q+1X' 8)1')6.'6/.1'5 +*2'6' .9*,>)' 1',)*' / *' 620' / 25;., >' 0)*1+*-*.' 1 ')6A;5' 2') .' " " ' " ' *,>% M ,;,,5% Q X' ,,1'Q+' T' 6-.,';'D ' ' %) 6/6?.)' 6' =/6>*' 2' 6/*., 2*' ?*2^ , 12*0' D ',)*' (6/?;0 .,.' >6 " '5 " ' ' X' 6.' D*^ 25' 2*6-' 6+*)' M >/620' =% KXT' ,)1;5),' DE >)86-[' I '=% KNSX',1' D*' ,)*' .6?*' 8 ,)',)*' ?10^ *-2' $! **'!6 ! J) 6/>*012 '6' >, '1 ' ,)A2 6% ,' 86.',)1' .>6,' 1 '12*' 1 ',)*' .1C>6//*0' 4*2*-6/ 1;2>/.'1',)*');->)')*/0' % % 'M,)*' 1;-,)' .*>;?*?>6/>1;2>/X' 8/ >)' 86.' >6//*0' D ',)*' *?=*-1-' <6>62%%O' 6,',)*' -=M ;1S,' 1',)*' D .)1=.' M*.=*> 6// '1' *1' X',1' =;,' >/182',)*' ;, >) 62' 620' *.,1-62')*-*. *.% ')*' 1? X>-1-')60' -.,'.;?*12*0',)*' D .)1=.',1'?**,'6,' >6.6' D;,' 8)*2' ,)*', ?** 6==-16>)*0')1' 806.' =-*+*2,*0' D ' =1/,>6/ ,-1;D/*.' -1?' C1 25' .1' 6-' -1?',)*' ?=*-6/>, '62,' ,)*-* 1-*' >)625*0',)*' =/6>*' 1 ' ?**, 25',1')6/>%012' 2' ,/ 2 6% 12',)*' 1.=)1-;.' 1==1%.,*' 12.,62, 21^ =/*% ()*' 1;2>/ 86.' 6,,*20*0' D ' N ID H)1=.' 620' 0*=;,*.' 6//' 6.,*-2' *L>*=,' 1;-'/*56,*.'.*2,'D ' *1' ' -1?' 1?*' ()*'.*.. 12.' D*562' >,% Q ' 620' *20 I' *0' >,% N % .',)*',81'=6-,*.' 2',)*' 1;2>/ 8*-*' -1;.*0',1',)*') 5)*.',=>)' 1 '=6..12',)*' =-1>*0^ 25.' *.=*> 6// ' 0;-25',)*' *6-/ ' .*.. 12.' 8*-*' +*-A!' ,;?;/,;1;.' ;2, /',)*' /6 '>1?? .. 121>.' 620' .*26,1-.')60',1';-5*',)*' D .)07.',1'9**=' 1-0*-' .6 25',)6,' .;>)' S)I GI-# '$ % -) 'M+;/56-'1;>- *.X' 8*-*' 0 .5-6>* ;/% M **',)*' 6>>1;2,' -1?' <62. '>,*0' D ' ,62/* '6 ' 8-> '/*>,% '=% S %X' I ',)*7-67'.*.. 12' M >,1D*-'Q X',)*' 1;2>/6.^ .*?D/*0' 2',)*' ;->)' 1 ',% ;=)*?' 6? 2',)*' >*2^ ,-*' .6,',)*1 >*-.' 1 ',)*' *?=*-1-T' 6,',)*-'/*,'>-' 12' ,)*' *= ../*' . 0*' .6,',)*' D .)1=.' 1 ' 12.,62, 21=/*' 2^ ,1>)' .6-*6' 2' 6==601> 6' 620' 1 ',)*' 1,)*-' 6.,*-2' 0 1>*.*.' 6 ,0' 12,;.' .6' 620' ()-6>*' ,15*,)*-' 8 ,)*' 1;-'/*56,*.'T 12',)*' 1,)*-' .0*' 8L-*' 1.>;-;.' B;+*26/' ()6/6..;.' 1 ' 6*.6-*6' 620',)*' 1,)*-' D .)1=.' 1 ' 5 =,' 6/*., 2*' 620' // -6' ?1.,' 1 ' 8)1?')60' D**2' =-*.*2,' 2',)*' =.0)01C>1;2>/1 ' =)*.;.% 2' ,)*' ? 0.,'8*-*',)*' : 1/ '41.=*/.'=/6>*0' ;=12'6'-6 .*0' .*6,% &)*2',)*')60',69*2',)*' -' .*6,.',)*' /*56,*.' 1',)*' =1=*' 0*?620*0',)6,' 1.>;-;.'.)1;/0' 8,)0-68' -1?',)*' 6..*?D/ '6>>;.25') ?'1') .' .>6206/1;.'>12^ 0;>,' 6,' =)*.;.' 620' 0*>/6-25',)6,' 1,)*-8 .*',)*' 5-6 ' 6.' 6-' 6.' ,)*' 86 .,' 1-' *+*2' /18*-*' 1?*' 8*-*' 601-2*0' 8 ,)' = *>*.' 1 ' ?*,6/' .)6=*0' 2' ,)*' 1-?' 1 ',)*' ?112' 26?*0' > " E *=,% *)-) ' ;/5% '1' ' ' ' + ' " ' :' .6% ' QXT' 6' . ? /6-' 1-26?*2,' ,)*' " 1' ., ' *L ..' 2' 5A=,' M 62* .' '6 % !' ==% %X% ()*' < 0 62 ,*.' 601-2*0' ,)*' 2*>9.' 1 ',)* -' >6?*/.' 8 ,)' .;>)' MB;05% + ' K ' KSXT' ,)*' -6D.' ., // ;.-*' 6' . = /6-' 1-26?*2,' M & */.,*0' ' N X% (1' 1),)*-' >)6 2.' 8*-*' .;.=*20*0' +6- 1;.',- 29*,.' 6.'.>*2,CD1,,/*.'`` > ' " 1 1%" "1' '1-' " ' " ' ' .6% ' K X' 620' ? --1-.' > (' .6% KNX% $ %= " ' "('+ ' (8 8*-*' 6,,6>)*0',1',)*' 629/*C- 25.' 8) >)' .)1-,*2*0',)*' .,*=' 620'=-10;>*0' 6' ? 2> 25'56 ,'M .6% ' S QX% **' g * ! ()*' =6-, >;/6-' *?6/*' 1-26^ ?*2,.',);.'-*20*-*0' 2' .6% ' R M? ' (%" ' ' *=,%) ' ;/5% 4 8' . 52 ' % ' 1-' =*2^ 062,.',1' *6-- 25.' 1-' 1,)*-' 6-, >/*.' 1 'A*8*/-A% *>' > ! N% ()*' ?*62.' 601=,*0' 1-' % '6?125' ,)*' B*8.' 8*-*' *,)*-' ?626>/*.' 1-' *,,*-.' 1 '>1==*-' 1-' -12' . ? /6-',1'1;-')620>; .' I " + (/ ,% ' '6.',)1;5)' ?60*' 2')6/+*.X' 6.,*2*0' 12',)*' 8- .,.' 620' 629/*.' 620' 6,,6>)*0',1' *6>)' 1,)*-' D ' 6' >)6 2' MB;05% L+ ' K T' K 6?% / ' N T' K 25.' d d ' T' B*-%ILLL L' X% ,' 86.' 6' >;.,1?' 6?125',)*' 1?62.' / 9*8 .*' ,1' 6.,*2' 6' =- .12*-' 8 ,)' 6' / 5),' >)6 2',1',)*' .1/0 *-' 8)1' 86.' 6==1 2,*0',1' 5;6-0') ?% 2*' *20' 1 ',' 86.' 6,,6>)*0',1',)*' - 5),')620' 1 ',)1' =- .12*-' 620',)*' 1,)*-',1',)*' /* ,')620' 1 ',)*' .1/0 *-% ()' .' .',)*' " 'D ' 8) >)' 6;/' 86.' .1' 1 ,*2' D1;20' 620',1' 8) >)')*' -*=*6,*0/ ' 6//;0*.' M >,.' L.%+ ' K T' =)% + ' K T' K (?% ' SX% &)*2',)*' ;,?1.',*>;-, ' 86.' 0*. -*0',)1' =- .12*-' 86.' 6,,6>)*0' D ',81' >)6 2.' ,1',81' .1/0 *-.' 6.' 86.',)*' >6.*' 8 ,)' *,*-' M >,.' L ' ST' & 6/>)' ' ' ' ' 'B*2% QX% M **' ? ,) .' ' ' ' !' & 4!.%+% 6,*26%X' **' ! 01/.' ,' 6==*6-.' 8*-*' L*0' 2',)* -' .)- 2*.' 8 ,)' >)6 2.' M .6% L/' RX% - 0*' .' ',*-?*0' 6' >)6 2' 8) >)' 9**=.' ?*2',;20*-' ,.' =18*-' M .6% LL ' ST' >1?=% ' .0-% ' T' .0% L+ ' N T' >>/;.% + ' K ' KRX' **' & *? ..' $ ' ' !' .% +%) 6 -% **' ' g 9!0 ' !) 6 .' ' 4+ '6' 8 ..'%0 7 2*' 1 ',)* * 1-?*0');->)' 86.' D1-2' 6,' 4*2*+6' 2' B62;6- ' % 2' KQ')*' D*>6?*' =6.,1-' 1 ',)*' -* 2>)' >12C *56, 12' 6,',)*' : 65;*T 620')*' -*?6 2*0' 2',)6,' ;-5*' ;2, /').' 0*6,)' >,1D*-' Q % :*',-62./6^ ,*0' -1?',)*' 25/.)' 1 ',6>9)1;.*' $ ' 620' 6/.1' =;D/.)*0' 6' >1?7*2,6- ' 12',)*' D/*' E ' $ ' ; ' ' ' ' ' ' ' 7 ' " = ' ' ' ' 1' '& 'S'+1/.%Q+1T' 6' : 6+*' KC T' 6'.*+*2,)'+1/;?*' 86.' ..;*0'6 ,*-' .' 0*6,)'D ' -% <6>/6 2*' 8 ,)'=-*/ ? 26- '0 ..*-,6, 12.' R XT' 6' 81-9' 12' D/ >6/ ()*1/15 ' I-" ! ' N6 9 ' $ ' ' ' $ ' ' $ 'K'+1/.%Q+1' KXT' " ' " 4 ' ' 4 ' M 6' : 6 *' ' Q+1X% 620' 2;?*-1;.' ? 21-' 81-9.% ' *21D *-' ' N ! ' ? :' : 1* *-' 74 ' ; ! ? +' L ' S S%) 6 .*%' **') ' ' !) 6A;5' (' $ ' 4 6' >1?7?12/ ' >6//*0' ;1' 620' 2' -6D 6' & + ' D "* ' ' 6' B*8 .)' 8 (,*-' 8)1' .' -*56-0*0' D ' B*8 .)' >-, >.' 6.' ,)*' >) * ' 1 ' : *D-*8' 5-6?7?6-62.' M =/* NP2' 80.' D1?' 2' *[6D1;' % ' K C 7 620')*2>*' .' .1?*, ?*.' 6/.1' >6//*0' D " '@ ' M Z ' : *' 86.',)*' -., 8)1' -*>152 .*0',)6,',)*' .,*?' 81-0.' 1 ',)*' : *D-*8' >12. .,'1 ' " ' 6.';=',1') .', ?*' .1?*1 ',)*' >) * ' *, ?1/15 .,.' 620' *L=1. ,1-. ' *% 5% ;60 6' 4612' <*26>)*?% X2C 6-;9`?6 2,6 2*0',)6,',)*-*' 8*-*' D^ / ,*-6/' 620' *+*2' ?121/ ,*-6/ .,*?.% : *',11' 86.',)*' -.,' 8)1' 0 .>1+*-*0',)*',-;*' -*/6, 12' 1',)*' 4 ' 1-? 25',)*' ?2*?12 >' 620',)*' -'>)625*.% ,' 86.')*',71'8)1'6--625*0',)*' : *D% +*-D.'6>>1-0 25' ,1',)*-' >12A;56, 12.' 0 .,-D;, 25',)*?' ;20*-',81')*60.d w1' 1 ' 2 " 1' 21,' D;-0*2*0' 8 ,)' 62 ' 1-?6^ , +*' 600 , 12.'T 620' Vf' ' " ' D* 25' D;-0*2*0' 8 ,)' 1-?6, +*' 600 , 12.' T 620' L*0'. L' >12A;56, 12.' + [%) :' K% 7 %" :' N% %" :' % "% :' % 1 ' 620' %" :' 620 'S% ,*V' () .'6--625*?*2,')6.' D**2' .; .,62, 6// ' 601=,*0' D ' 6//' 5-6?7?6- 62.' 620' .' *L^) D ,*0' 2' 6//',)*' -*5;/6-' =6-60 5?.' 1 ',)*' +*-D' 5 7*2' D ' 4*.*2 ;.' 86/0' 620' 6//' ?10*?'/ 25;.,.' 2',)*' -' : *D-*85-6?7?6-.% ()*.*' 0 .>1+*- *.' 620' .> *2, >' =- 2> =/*.')6A;5'=-1=1;20.' 2',)-*-*' D119.% ()*' -.,' .' >6//*0' ,-*6,.' >) * ^ / ' 1 ' " ' 4 ' 2',)-**' .*>, 12.% ()*' .*>^ 120' D119' .' >6//*0' ,-*6,.' 1 +*-D.' 8)1.*' '620' " ' -60 >6/.' 6-*' 6/ 9*' ! ()*',/- -0' D1,9 ' .' >6//*0' 620 ,-*6,.' 1 ',)*'+18*/=1 2,.' 620' 6>>*2,.% - 5 26// '8-,^ 2' 2' -6D >',)*.*' ?6-+*//1;.' 5-6?7?6, >6/'0 .>1+*-^ *.' 8*-*' 6,' -..,' 26>>*.. D/*' 620';29218 2',1',)*' 4*-C ?621C -*2>)' 2,*-=-*,*-.'T D;',)*' ' *L*->.*0' .1' *L^ ,-61-0 26- '62' 2 /;*2>*' ;=12',)*' =62 .)' .>)11/' 1 ' 2,*-=-*,*-.',)6,' 2' 1-0*-',1' 269*',)*?' ?1-*'5*2*-6/^ / ' ;.* ;/',)*' 8*-*' ,-62./6,*0' 2,1' : *D-*8' D ' D12C [-6% ()*')6+*' D**2' =;D/.)*0' D ' *1=% ;9*.' M -629 ,% 6% <% Q 'Q+1X' 8)1')6.'6/.1'5 +*2'6' .9*,>)' 1',)*' / *' 620' / 25;., >' 0)*1+*-*.' 1 ')6A;5' 2') .' " " ' " ' *,>% M ,;,,5% Q X' ,,1'Q+' T' 6-.,';'D ' ' %) 6/6?.)' 6' =/6>*' 2' 6/*., 2*' ?*2^ , 12*0' D ',)*' (6/?;0 .,.' >6 " '5 " ' ' X' 6.' D*^ 25' 2*6-' 6+*)' M >/620' =% KXT' ,)1;5),' DE >)86-[' I '=% KNSX',1' D*' ,)*' .6?*' 8 ,)',)*' ?10^ *-2' $! **'!6 ! J) 6/>*012 '6' >, '1 ' ,)A2 6% ,' 86.',)1' .>6,' 1 '12*' 1 ',)*' .1C>6//*0' 4*2*-6/ 1;2>/.'1',)*');->)')*/0' % % 'M,)*' 1;-,)' .*>;?*?>6/>1;2>/X' 8/ >)' 86.' >6//*0' D ',)*' *?=*-1-' <6>62%%O' 6,',)*' -=M ;1S,' 1',)*' D .)1=.' M*.=*> 6// '1' *1' X',1' =;,' >/182',)*' ;, >) 62' 620' *.,1-62')*-*. *.% ')*' 1? X>-1-')60' -.,'.;?*12*0',)*' D .)1=.',1'?**,'6,' >6.6' D;,' 8)*2' ,)*', ?** 6==-16>)*0')1' 806.' =-*+*2,*0' D ' =1/,>6/ ,-1;D/*.' -1?' C1 25' .1' 6-' -1?',)*' ?=*-6/>, '62,' ,)*-* 1-*' >)625*0',)*' =/6>*' 1 ' ?**, 25',1')6/>%012' 2' ,/ 2 6% 12',)*' 1.=)1-;.' 1==1%.,*' 12.,62, 21^ =/*% ()*' 1;2>/ 86.' 6,,*20*0' D ' N ID H)1=.' 620' 0*=;,*.' 6//' 6.,*-2' *L>*=,' 1;-'/*56,*.'.*2,'D ' *1' ' -1?' 1?*' ()*'.*.. 12.' D*562' >,% Q ' 620' *20 I' *0' >,% N % .',)*',81'=6-,*.' 2',)*' 1;2>/ 8*-*' -1;.*0',1',)*') 5)*.',=>)' 1 '=6..12',)*' =-1>*0^ 25.' *.=*> 6// ' 0;-25',)*' *6-/ ' .*.. 12.' 8*-*' +*-A!' ,;?;/,;1;.' ;2, /',)*' /6 '>1?? .. 121>.' 620' .*26,1-.')60',1';-5*',)*' D .)07.',1'9**=' 1-0*-' .6 25',)6,' .;>)' S)I GI-# '$ % -) 'M+;/56-'1;>- *.X' 8*-*' 0 .5-6>* ;/% M **',)*' 6>>1;2,' -1?' <62. '>,*0' D ' ,62/* '6 ' 8-> '/*>,% '=% S %X' I ',)*7-67'.*.. 12' M >,1D*-'Q X',)*' 1;2>/6.^ .*?D/*0' 2',)*' ;->)' 1 ',% ;=)*?' 6? 2',)*' >*2^ ,-*' .6,',)*1 >*-.' 1 ',)*' *?=*-1-T' 6,',)*-'/*,'>-' 12' ,)*' *= ../*' . 0*' .6,',)*' D .)1=.' 1 ' 12.,62, 21=/*' 2^ ,1>)' .6-*6' 2' 6==601> 6' 620' 1 ',)*' 1,)*-' 6.,*-2' 0 1>*.*.' 6 ,0' 12,;.' .6' 620' ()-6>*' ,15*,)*-' 8 ,)*' 1;-'/*56,*.'T 12',)*' 1,)*-' .0*' 8L-*' 1.>;-;.' B;+*26/' ()6/6..;.' 1 ' 6*.6-*6' 620',)*' 1,)*-' D .)1=.' 1 ' 5 =,' 6/*., 2*' 620' // -6' ?1.,' 1 ' 8)1?')60' D**2' =-*.*2,' 2',)*' =.0)01C>1;2>/1 ' =)*.;.% 2' ,)*' ? 0.,'8*-*',)*' : 1/ '41.=*/.'=/6>*0' ;=12'6'-6 .*0' .*6,% &)*2',)*')60',69*2',)*' -' .*6,.',)*' /*56,*.' 1',)*' =1=*' 0*?620*0',)6,' 1.>;-;.'.)1;/0' 8,)0-68' -1?',)*' 6..*?D/ '6>>;.25') ?'1') .' .>6206/1;.'>12^ 0;>,' 6,' =)*.;.' 620' 0*>/6-25',)6,' 1,)*-8 .*',)*' 5-6 ' 6.' 6-' 6.' ,)*' 86 .,' 1-' *+*2' /18*-*' 1?*' 8*-*' 601-2*0' 8 ,)' = *>*.' 1 ' ?*,6/' .)6=*0' 2' ,)*' 1-?' 1 ',)*' ?112' 26?*0' > " E *=,% *)-) ' ;/5% '1' ' ' ' + ' " ' :' .6% ' QXT' 6' . ? /6-' 1-26?*2,' ,)*' " 1' ., ' *L ..' 2' 5A=,' M 62* .' '6 % !' ==% %X% ()*' < 0 62 ,*.' 601-2*0' ,)*' 2*>9.' 1 ',)* -' >6?*/.' 8 ,)' .;>)' MB;05% + ' K ' KSXT' ,)*' -6D.' ., // ;.-*' 6' . = /6-' 1-26?*2,' M & */.,*0' ' N X% (1' 1),)*-' >)6 2.' 8*-*' .;.=*20*0' +6- 1;.',- 29*,.' 6.'.>*2,CD1,,/*.'`` > ' " 1 1%" "1' '1-' " ' " ' ' .6% ' K X' 620' ? --1-.' > (' .6% KNX% $ %= " ' "('+ ' (8 8*-*' 6,,6>)*0',1',)*' 629/*C- 25.' 8) >)' .)1-,*2*0',)*' .,*=' 620'=-10;>*0' 6' ? 2> 25'56 ,'M .6% ' S QX% **' g * ! ()*' =6-, >;/6-' *?6/*' 1-26^ ?*2,.',);.'-*20*-*0' 2' .6% ' R M? ' (%" ' ' *=,%) ' ;/5% 4 8' . 52 ' % ' 1-' =*2^ 062,.',1' *6-- 25.' 1-' 1,)*-' 6-, >/*.' 1 'A*8*/-A% *>' > ! N% ()*' ?*62.' 601=,*0' 1-' % '6?125' ,)*' B*8.' 8*-*' *,)*-' ?626>/*.' 1-' *,,*-.' 1 '>1==*-' 1-' -12' . ? /6-',1'1;-')620>; .' I " + (/ ,% ' '6.',)1;5)' ?60*' 2')6/+*.X' 6.,*2*0' 12',)*' 8- .,.' 620' 629/*.' 620' 6,,6>)*0',1' *6>)' 1,)*-' D ' 6' >)6 2' MB;05% L+ ' K T' K 6?% / ' N T' K 25.' d d ' T' B*-%ILLL L' X% ,' 86.' 6' >;.,1?' 6?125',)*' 1?62.' / 9*8 .*' ,1' 6.,*2' 6' =- .12*-' 8 ,)' 6' / 5),' >)6 2',1',)*' .1/0 *-' 8)1' 86.' 6==1 2,*0',1' 5;6-0') ?% 2*' *20' 1 ',' 86.' 6,,6>)*0',1',)*' - 5),')620' 1 ',)1' =- .12*-' 620',)*' 1,)*-',1',)*' /* ,')620' 1 ',)*' .1/0 *-% ()' .' .',)*' " 'D ' 8) >)' 6;/' 86.' .1' 1 ,*2' D1;20' 620',1' 8) >)')*' -*=*6,*0/ ' 6//;0*.' M >,.' L.%+ ' K T' =)% + ' K T' K (?% ' SX% &)*2',)*' ;,?1.',*>;-, ' 86.' 0*. -*0',)1' =- .12*-' 86.' 6,,6>)*0' D ',81' >)6 2.' ,1',81' .1/0 *-.' 6.' 86.',)*' >6.*' 8 ,)' *,*-' M >,.' L ' ST' & 6/>)' ' ' ' ' 'B*2% QX% M **' ? ,) .' ' ' ' !' & 4!.%+% 6,*26%X' **' ! 01/.' ,' 6==*6-.' 8*-*' L*0' 2',)* -' .)- 2*.' 8 ,)' >)6 2.' M .6% L/' RX% - 0*' .' ',*-?*0' 6' >)6 2' 8) >)' 9**=.' ?*2',;20*-' ,.' =18*-' M .6% LL ' ST' >1?=% ' .0-% ' T' .0% L+ ' N T' >>/;.% + ' K ' KRX' **' & *? ..' $ ' ' !' .% +%) 6 -% **' ' g 9!0 ' !) 6 .' ' 4+ '6' 8 ..'%0 7 2*' 1 ',)* * 1-?*0');->)' 86.' D1-2' 6,' 4*2*+6' 2' B62;6- ' % 2' KQ')*' D*>6?*' =6.,1-' 1 ',)*' -* 2>)' >12C *56, 12' 6,',)*' : 65;*T 620')*' -*?6 2*0' 2',)6,' ;-5*' ;2, /').' 0*6,)' >,1D*-' Q % :*',-62./6^ ,*0' -1?',)*' 25/.)' 1 ',6>9)1;.*' $ ' 620' 6/.1' =;D/.)*0' 6' >1?7*2,6- ' 12',)*' D/*' E ' $ ' ; ' ' ' ' ' ' ' 7 ' " = ' ' ' ' 1' '& 'S'+1/.%Q+1T' 6' : 6+*' KC T' 6'.*+*2,)'+1/;?*' 86.' ..;*0'6 ,*-' .' 0*6,)'D ' -% <6>/6 2*' 8 ,)'=-*/ ? 26- '0 ..*-,6, 12.' R XT' 6' 81-9' 12' D/ >6/ ()*1/15 ' I-" ! ' N6 9 ' $ ' ' ' $ ' ' $ 'K'+1/.%Q+1' KXT' " ' " 4 ' ' 4 ' M 6' : 6 *' ' Q+1X% 620' 2;?*-1;.' ? 21-' 81-9.% ' *21D *-' ' N ! ' ? :' : 1* *-' 74 ' ; ! ? +' L ' S S%) 6 .*%' **') ' ' !) 6A;5' (' $ ' 4 6' >1?7?12/ ' >6//*0' ;1' 620' 2' -6D 6' & + ' D "* ' ' 6' B*8 .)' 8 (,*-' 8)1' .' -*56-0*0' D ' B*8 .)' >-, >.' 6.' ,)*' >) * ' 1 ' : *D-*8' 5-6?7?6-62.' M =/* NP2' 80.' D1?' 2' *[6D1;' % ' K C 7 620')*2>*' .' .1?*, ?*.' 6/.1' >6//*0' D " '@ ' M Z ' : *' 86.',)*' -., 8)1' -*>152 .*0',)6,',)*' .,*?' 81-0.' 1 ',)*' : *D-*8' >12. .,'1 ' " ' 6.';=',1') .', ?*' .1?*1 ',)*' >) * ' *, ?1/15 .,.' 620' *L=1. ,1-. ' *% 5% ;60 6' 4612' <*26>)*?% X2C 6-;9`?6 2,6 2*0',)6,',)*-*' 8*-*' D^

,1' (+,)0-68' -1?',)*' 1;2>2A620',1',69*') .' .*6,' 6?125',)*'6>>;.*0 ()*'6>,.'1',)*'.1C>6//*0' 1DC D*-' 1;2> /J'1' =)*.;.'M +%X'8*-*'0.>;..*0'620' >120*?2*0'620' 1.>;-;.'86.'/* ,'8 ,)'12/ ',8*/+*' D .)1=.',1'.,620'D ') ?( )*' ;, >) 62')*-*. ',)6,' 2'1;-' 1-0'8*-*',81'26,;-*.'D* 1-*' .' 2>6-26, 12' 620'D;,' 12*' 6 ,*-86-0.' 86.' 626 ,)*?6, [*0Z ()*' ?6A1- , ' 1',)*' 6..*?D/*0'D .)1=.',)*2'=-1>**0*0',1' 626,)*?6, [*' 1.>;-;.') ?./ ' 620'0*?620*0',)6,')*',15*,)*-'8 ,)'B;+%*26/1'B*-;.6/*?' ()6/6.. ;.'1' .6->6' ;.*D ;.'1' 2> -6' ;.,6>) ;.'1' *- .;;.' 62M7 6./1' */*;>6'8)1')60'=-*. 0*0'6,',)*' 1;2^ >/'.)1;/0'D*' 0*=1.*0' -1?',)*' *= .>1=6,*% ** L $ $! ',),)*' .*.. 12'M >,% X',)*' 1//18 25'*L=1^ . , 12'1' 6 ,)' .;D.,62, 6// ',69*2' -1?'6'/*,,*-'1' *1' ,1' /6+ 62;.'86.'6==-1+*0'1,,0',.'1==12*2,.'626,)*^ ?6, [*0a ()*'0+2** 26,;-*' 620',)*');?62'26,;-*' *6>)'.-*?6 2 25'=*- *>,'')6+*' D**2' ;2 ,*0' 2' 12*' =*-^ -12',1',)*' 2,*2,',)6,',)*' .6?*' <*0 6,1-' ? 5),'0*' D* 25' *,' ?? 1-,6/'620' ?=6.. D/*%' ' % * ,)*-' 26^ ,;-*' .'6/,*-*0'D ',)*'1,)*-T')*' 8)1' .',-;/ ' 410' .' 6/.1' ,-;/ ' ?62% % ' ()*' &1-0'620',)*' /*.)' =-*^ .*-+*'*6>)' ,.'=-1=*-' ;2>, 12.% :1/ ' >-=,;-*'=-1+*.' *_;6// ',)*' +*-, '1',)*',81'26,;-*.% :*' .' ? . 2>*' ,' .' 8-,,*2''2',)*'D*5 22 25'C86.',)*' &1-0' 620',)*' &1-0' ? DJ :*' .' 6/.1' . 2>*' ,' . 8-,,*2''()*' &1-0'86.'?60*' /*.)'620'0 8*/,'6?125' ;.' .' 1')*' +\6.',*?=,*0'D ',)*'0*+ /T 6.'410')*' .' ? 2.,*-*0' ;2,1'D '625*/.% ' ?62')*' 8*=,' 1+*-',)*',>a2D'1' 6[6-;.T 6.'410')*-6 .*0')?',1?' ,)*'0*1\0% .'?62')*' .'26 /*0' ',)*'>-1..T 6.'410')*' ?69*.'2 / 26,;-*',-*?D/*' 6,').'0*6,)% ,' .' D ' -*6.12'1',D*';2 ,'1'=*-.12',),6,'8*'.6 ',)6,',)*' 12'1' 1'<62'>6?*'0182'-1?')*6+*2'620',),)*'1'86.'D*51,,*2'1',)*' 6,)*-'D* 1-*'6// 65*.'6>>1-0 25',1',)*'410)*60T 620' 2',)*'/6.,'06 .',)*'.6?*'86.'D1-2'6>>1-0 25',1',)*' ?62)110'1'<6-E',)*' -5 2'?1,)*-'1'410'1-';.' 620'1-'1;-'.6/+6, 12T 8)1'.',1'D*'6>9218/*05*0'12*' 620',)*'.6?*')-.,',)*' 12',)*' 1-0',)*'12/'D*^ 51,,*2'2',7 1'26,;-*.'8',)1;,'?L,;-*'>)625*'0+^ .12'1-'.*=6-6, 12T,)*0 *-*2>*1'26,;-*.'21,'D* 25' -*?1+*0'D ',)*-';2 12'D;,'-6,)*-',)*'=-1=-*,'1' *6>)'26,;-*'D* 25'=-*.*-+*0'620'>12>;--25'2'12** =*-.12'620'2'12** - .'1',)6,')*'.'=1,'0+0*0' 1-'.*=6-6,*0'2,1' '% `"',)*'12/'12'410' ,)*'&1-0T1;-'1-0'B*.;.')-.,'620'12*'620',)*' .6?*'=*-.12%J' ',)*'/6,*-'.*..12.'M LCL+X'6C2;?^ D*-'1'_;*.,12.'1'1-0*-'.;=-*?6> '0.>=/2*'*,>% 8*-*'.*,,/*0% @ ;,'D'6-',)*'?1.,'?=1-,62,'86.',)* CQ,)'>6212'.*..% L+'D'8)>)',)*'=6,-6->)'1'12^ .,62, 21=/*'+-6.'=/6>*0'12'*;6/,E71'6;,)1-,'8 ,)'1 ')121-% ()*'1?62'0*/*56,*.'=-*,*.,*0'656 2.',) .'620'6,*-',.'601=,12'71'>12.,62,/'1==1.*0',';=12' ,)*'=/*6',)6,',>12,-60>,*0',W* .L,)'1'>6A6'8)>)' 6..5 *0',)*'.*>120'=/6>*' 2'0 52,',1' /*L620-6T)18*+*-'2'.=,*'1')'.'1==1.,12'620',)6,'1')'.';>^ >*..1-.',)*'>6212'-*?6 2*0'620'86.'*L*>;,*0% ** $/ #' ' '+ / ! 7()*'6>,.'1',).'1A;2>/2'4-**9'8,)',)*'*L>*=,12' (,)*I626,)*?6.'6-*'/1.,% ** +65-;.'# !'6 ! ' T 6D)*'620'1..6-,' ',1?% +T <62.' '+'SR T 62012' !' '=' NC K T 4*.*/*-'I1" "'# 'M ;22 25)6?.X' 'K T <1.C)*?% " "'# 'D9% '>*2,'+'=,% '>)% 'g' ST *620*-' " "'# ' ' Q' K T :*%/*' = " ' 'QRKT *.=*>6// ' 1-2*-' ' ,+ 'M 0 2D;-5)'0+% '+1/' '=% RNC SXT >)6 " "'# ' 'g S'S T 'g T)*00'# ' ' 'NRQ._% T // 1,,' ' '5 D9% '>)' 'L % **' : (1 T $ 'T >$ # ' 'g * . !)6/>*012 'M 6d7-A78 X 1>>;-.'12/' 2' *+' LL 'R'D* 25',)*'=-*>1;.'.,12*8 ,)'8)>)',)*',) -0' 1;206, 12'1',)*'86//1',)*' *8'B*-;.6/*?' .'56-7 2.)*0% >>1-0 25',1' /2 'MVV% 7!LLL+ 'Q'g X' >)6/>*012 ' .'6'5*?'-*.*?D/25',)1' 6//6 .'1-',;-C% _;1.*'620'.1?*')6+*A;05*0' ',1'D*'6'9 20'1'>6-^ D;2>/*' 1-'-;D % 6/?6.;.' 0 *-.' -1?',)1.*' 8)1' ?69*',)*'>1/1-'1'>)6/>*012',1'D*'/9*',)6,'1',)*'>6-C' D;2>/*A 620'.6 .',)6,',)*'>12 1;20' *') %E 1 d 71-'8)>)' .'6'.=*>*.'1'>6-D;2>/*'8 ,)' 6dIaWC 1! IU T D;,')*'>12 *..*.',)6,' ,' .'D '21' ?*62.'>/*6-8)6,'.,12*',)*'62> *2,.'>6//*0' " f 52*/ ;.' 12' *+% MLL ' RX .6 .',)6,',) .'.,12*')6.',)*'>1/1-'1' 6'=6// 0'/6?=' .) 2*.' 2',)*'1=*2 6-'D;,' .'06-9' 2'6')1;.*'>6221,'D*' >;,' 620')6.'=18*-.' 1'6,,-6>, 12% ()*',?1/15 '1',)*'81-0' .'21,'/*..'01;D, ;/,)62',.' ?*62 25% 1?=0=-+*',' -1?'6dZ>1>' -1?'6'D*/*' ,)6,',- 25.'/9*'D-6..'8)*2'..-;>9% ,)*-.')6+*' 0*-+*0',' -1?'O ") * '6.',)1;5)' -1?'6'/1>6/, ' 8)*-*',' .' 1;20'620'1.)*-.' -1?') % *$!=M ** -6;2' 'N ! ! '>% '=% K'X' ()*' " ' 86.'.1'>6//*0' -1?')6/>*012'620'!86.1D,6 2*0' -1?'),)*>1==*-'?2*.',)*-*T ',' 86.'6'.?6// .,12*'620'1'21' 5-*6,'+6/;*% ',' .' 0*.>-D*0'D ' /2 '6.' -*.*?D/25' / *'5-**2'620'D/;*',2,.'8)>)'6-*' .**2'12'6'=*6>1>9 .' ,6/'1-'12'5'=5*12 .'2*>9% <-% 25'I& 4 '=% QX .6 .',' 86.'6'9 20'1'2 *-1-'*?*-6/0'6.' /2 ';2^ 0*-.,110',% () .'?2*-6/.',.;==1.*0'D '.1?*,1'D*',D*' .6?*',)6,'1>>;-.' 2',)*' /*D% >-=,;->.M L10%LL+ QX ;=0*-',)*'26?*'1'(A 7'" (%" "'MD62./6,*0' *?^ *-6/07X'D;,',) .' .'01;D, ;/% **' > f)6/^ >*012'1'?10*-2'/6=06-*.' .'6'+6-*,'1'6?1-=)1;.' _;6-,[' 620',)*'0 .,2>,12'D*,8**2' ,'620'656,*' .'21,' +*-' .6, .6>,1-/'*.,6D/.)*0% ,' .')6-0*-',)62' /D,' M.=*>'5-6+% K% X'>1?7?12/'.*?C,-62.=6-*2,'620' .' 5*2*-6// '5'12*' ;2 1-?'>1/1-',)-1;5)1;,';.;6//E'6' /5),'D-182'620'1,*2'2*6-/'80 .* M620',)*2',*-?^ *0' 8)A=' >1-2*/62JXT D;,'1,)*-'.)60*.'1'>1/1-'6-* 21,' 2 -*_;*2,'.;>)'6.'5-6E7 */18 '5-**2'620'D/;*%)6/>*012'1>>;-.'2' --*5;/6-'?6..*.'>1?7?12/'1--,"/ 25'5-1,*._;*>6+,*.' 2',-6=' -1>9.'6-0'+*+*2'5-62,*% ,' .' 1;20')'?1.,'=6-,.'1',)*'81-/0T 620'2',)*' 6., ',' *?=/1 *0'2',)*' 6D- >6, 12'1'>;=.' ,0'=/6,*,'620' 6-,>/*.'1',6,.*'8)>)'6-*' 8-1;5),'8 ,)'5-*6,'.9 // 620'/6D1-'620',-*6.;-*0'6?125'=-*>1;.',)25.%I' 2' ;-1=*',' .'?60*'2,1'.2; CD1L*.'D;,,12.'92 *C)62^ 0/*.'620'1)*-'?21-'6-,>/*.% I1 ' ' % ' .% %#;6-,[%X' ,2'.%+%T ?,)',.%+% ** & !)6/>0 ;.'6>>1-0 25',1' 6D-> ;.'I; !' !'/D% '>% X'6')-.,62' /6,12.,1',)*' *-.'>*2,;-% ,)^ *-.'=/6>*')?'2',)*' ,)'>*2,;-% :*I,-62%0/6,>0',)*' -' '1' /6,1'620'600*0'6'>>2?*2,6 % 6+*'I# ' !'$!'+' !' N X 0*?),.'8)*),)*-')*'8I6.'=6562'1-')-.,62% 6-02*-'.6 .' '06-*'21,')*=1. ,+*T D;,' ,1'?*' ,'.**?.',)6,g)*!86.'6'=1A,*' /6,12>')=)/1.1C =)-'8)1'86.'8 // 25',1'D*'12'5110',*-?.'8,)')-.^ ,62.'620''=/6>*')?'8,)' 6+*'6D1;,' % NN %J' 2').' 1??*2,6-'12'(?.*;.')*-*'*-.',1',)*' 620' (%-*=*6,*0/ '620'?*2,12.',)*' .,6-'2',)*' 6.,%J '' 6-02*-(1-.'+ ' T(-2 +Y # ! !@+ I!' KT <;-01>).'<1.)*?' " "'# 'D9% '>*7,% +'=,%' g Q' :' ;081-,)' '$ 'M 120% Q X' 'SN._% 3)6/>.'Md6d>5X'6'>,'1'6/*.,2*'?*2,12*0'D' B1.*=);.'I& !'L+'N'KT T L L' T Q T LL' NT

' P T ' 'R KT ' K X620 ,-6D1 ML+ 'K S '= N' X6./ 25 ;20*-' <1;2, 7D6212 '2*6,' :*/ 1=1/ .' T D;',)1;5),' D ' : */620 I '= N X ,1 D* 0 *-*2,' -1?',)*)6/> .' 2 - 6 '=/6>*0 D ',)* & ' ' 'D*,8**2 *-16 M *-1*6 1-' *-*6X 620 20-126 <10*-2',-6+*//*-.' M()1?.12' 2',)* ; " '$!' Q Q'= S T **,[*2' 'KSKT 1-,*-' ' C S(T 91D 2.12' !' ; '5 f = R ' RQX)6+* .1;5),' ,.' . ,* 2',)* >12. 0*-6D/* -; 2.' 2*6-' <*0A*/ 2A6-' N)1;-.' M_'U6)/*)'M 62'0* */0*' '= N N N

/ 6/ >1/' M /*D) N' . D . ' =*-)6=.'

:' *=, +-d1 .-67'B1.*=);.'d6dV>1> & !+ /'K' X'12* 1',)* +* .12.'1 '<6)1/' 8)1'8*-* 6?1;.' 1-',)* -' 8 .01?'D* 1-* ,)* , ?* 1 ' 1/1?12 M ' 25.' +' N X % 62,* ' 2')-12 ' S M8)*-* ,)* 26?* .' 25/ > [*0' I' 6/>1/JX)1'620') .' D-1,)*-.'6-* *2; ?*-6,*0'6.',)* .12.' 1 'U*-6) ',)* .12' 1 'B;06) '=*-)6=.'D '62'*--1-' 1-',)* 26?* : 6? ;/=-*^ >*0 25'8) >)' ?6 'D* 6',-62.=1. , 12' 1-' <6)1/ **

$!

)6/06* 6'MB*-' ' T / 'K 'N T [*9' L+ 'KRT LL ' ST 4- 8 d6d72? 1-',)* B/*D */.*^ 8)*-*)6/0e62.JX .'=-1=*-/ '12/ ',)* ?1.,'.1:,)^ *-2'=1-, 12'1 ' 6D /12 6 ,' .' ;.*0')18*+*-' 2'1;-' +*-. 12' 1-',)* : *D-*8'*,)2 >'6==*//6, +*) 'M1-')6/0**.JX' ;20*-' 8) >)',*-?',) * 2)6D ,62,.' 1',)* *2, -* >1;2,- ' .'0*. 526,*0'620' ,' 8 /',)*-* 1-*)*-* D* ,69*2' 2',) .'*L,*20*0' .*2.* ()*1-5 2'1',)*,*-?' .'+*- '01;D, ;/) ')6.'D**2' 0*- +*0' D ' .1?* -1?' *.*0' M7 7NX',)1' .12'1 ' 6)1-' M4*2 LL 'KKXT D;' '$-' 86.'6/-*60 '6'>, ' 1',)*)6/0**.J' D* 1-* D-6)6?'_;,,*0' ,' M4*2' L 'KQX',)* 26?* 6.0 ?' >6221,' =1.. D/ ')6+* D**2' 0*- +*0' -1?' D .' 2*=)*8 2',)* 1,)*-')620',)* ,*-?')6/06A6)6.' D**2' >12^ 2*>,*0' 8 ,)',)* > , ') " ' M /;)_60 1 ' [*9 */ I' L+ 'KNX' () .' :'=1.. /0 '>1--*>,' 62 '-6,*' 2' .*6->) 25' 1-'62'*, ?1/15 ' ,'.)1;/0'D* D1-2* 2' ? 20' ,)6,') '1-') '21,') (' .',)* 26, +C* 1-?' M 68/2.12'# ' ' NN' 8! ()* D6/0.*62.' 6-* ?*2, 12*0' 2',)* >;2* 1-?' 2.>-=, 12.' M %' +%X 2' *-. 62' ;2* 1-?',)* 26?* 1' 6D /12' 1- 6D /12 6' .' 8-,,*2'+*- '0 *-*2,/ T

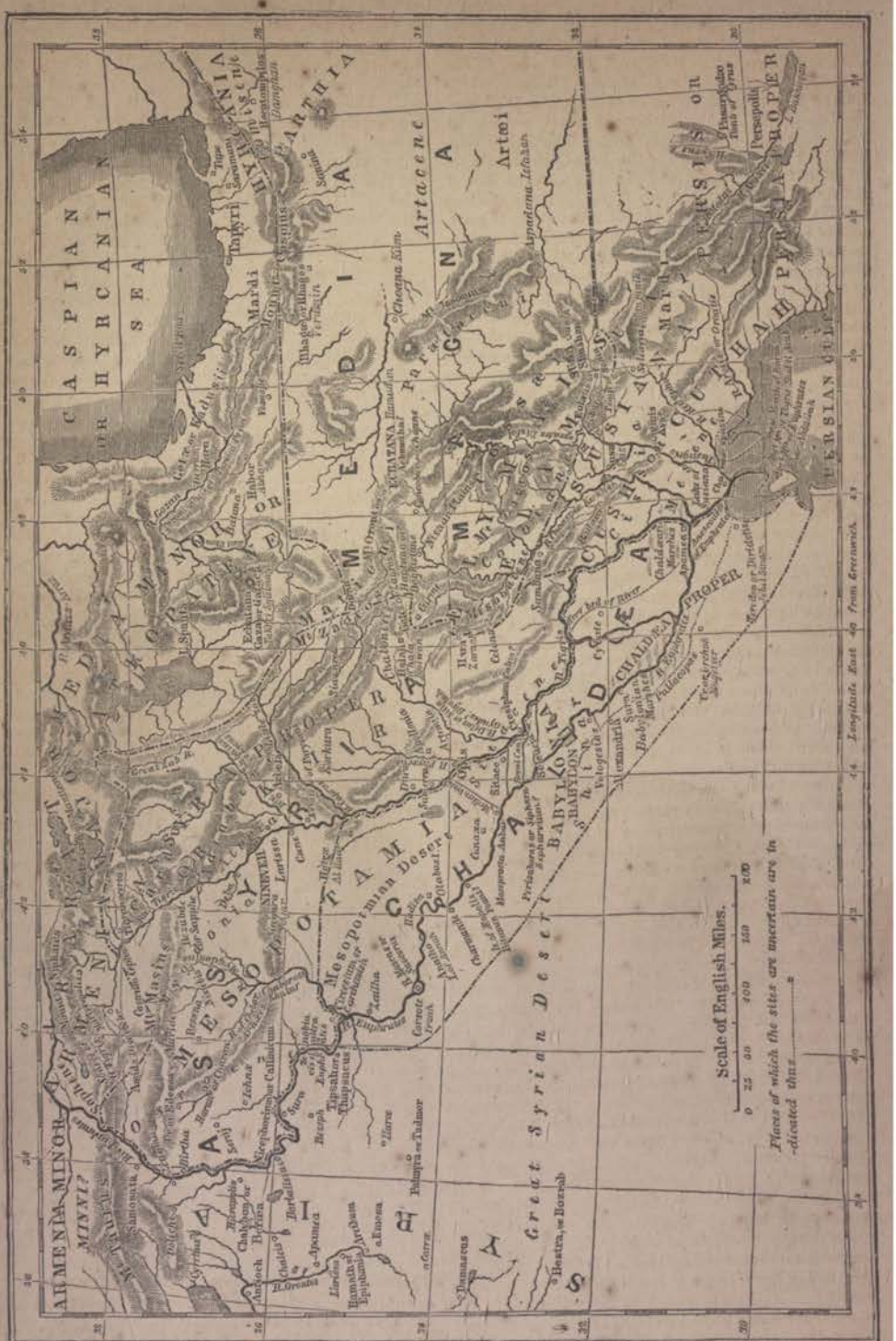
;' ' '" ' ' ' "!

()* 6D /12 62' >;2* 1-?' 8-,*.' ,' 2' 762 ' 86 .' D;,' 212*)6+* 62 '-*.*?D/62>* ,1') 1 ') ! ** 8 # ! 3

:T % 6 ' ' ; % ' ()* ,-6>,' 1 ' >1;2,- ' + *8*0' 2' >-=,;-*6.',)* /620' 1 ',)*)6/0.*62.' .' ,)6,'+6.,'6//;+ 6/=/6 2' 8)>)')6.' D**2' 1-?*0' D ',)* 0*=1. ,.' 1 ',)* ;=)-6,*.' 620',)* (5- . ' 6,'/*6.,' .1' 6-' 6.' ,'/*.' .1',)* 8*.,' 1 ',)* /6,,*-' .,-*6?% ()* >1;2,- ',1',)* *6.,' .' /6?'1-' ;. 626' D;,',)* *2, -* ,-6>,'D*,8**2',)* - +*-. '6.' 8*// 6.',)* /18' >1;2,-EJ12' ,)* -6D 62' .0* 1',)* ;=)-6,*.' 8)>)' .'>;/, +6D/* D ' -- 56, 12' -1?',)6,.,-*6?' ?;.,'D* 12.0*-*0' 6.' >1?=-.*0' 8 ,) 2',)*)6/06.6'1 '8)>)' *D;>)602*[^ [6-' 87.' 9 25% () .' *L,-61-0 26- ' /6, ';2D-19*2' *L^ >*=,'D ', * 81-9.' 1 '?62'*L,*20.' 2' 6'0 -*>, 12'2*6-^ / ' % 620' d ' 6' 0 .,62>* 1 ' ? /*.' 6/125' ,)* >1;-.* 1 ',)* - +*-.' 620' .' 12',)* 6+*-65* 6D1;' ? /*.' 2' 8 0,) / 2* 0-68 2' -1?',)* A;2>, 12' 1 ',)* - +*-')6D;-' 8 ,)',)* ;=)-6,*.' ,1',)6,' 1 ',)* *..*-' U6D' 8 ,)',)* (5- .' ?6 ' >12. 0*-*0',1' ?6-9' ,.' 21-,)*-2'/ ? ,.T ,)1' *6.,*-2' D1;206- ' .',)* (5- .' ,.*/ T ,)* .1;,)*-2',)* *-. 62' 4 ;/ T 12',)* 8*.A ,.' D1;206- ' .' .1?*8)6,' //' 0* 2*0' 620' 2' 6>,' 81;/0' +6- '6>1-0 25',1',)* 0*5-** 1' .9 //' 620' 20;.,- '0** +1,*0',1',)* -*5;/6, 12'1 ',)* 86,*-.' 620',)* *L,*2. 12' 1 '81-9.' 1-' -- 56, 12 2',)* ?1.,' /1;- .) 25', ?*.' 1 ',)*)6/06*62' *?= -*,)* 86,*-' .** ?.',1')6+* D**2' D-1;5),',1',)* *L,-*?*/ ? ,'1 ',X>6//;+ ;?' 6' >626/)6+ 25' D**2' >;' /125',)* *05* 1 ',)* ,*-, 6- ' 1-?6^ , 12' 12',)* -6D 62' .0* ,)-1;5)1;',..'*2, -* *L,*2,

-;22 25'6,'62'6+*-65* 0 .,62>* -1?',)* ;=)-6,*.'1' 6D1;,'N ' ? /*.

K ? ' " ' '" ' ' ()* 5*2*-6/6.^ =*>,'1',)* >1;2 - '.',) ;,'0*.>- D*0'/ '6' ?10*?',-6+^ *//*-' 8)1' 67*// >12,-6..,.' ,.' >120 , 12' 218' 8 ,)',)* 6==*6-62>* 8)>)' ,' ?;.,I')6+* =-*.*2,*0' 2' 62> *2,' , ?*. ' 2' 1-?*-' 06 . J')* ' ,)* +6.,'=/6 2.' 1' 6D /12' 8*-* 21;- .)*0' D ' 6' >1?=/ >6,*0' .A7.,*?' 1 '>626/.'620'86,*-C>1;-.*.' 8)>)' .=-*60'1+*-',)* .;-^ 6>* 1',)* >1;2,-A1/ 9* 6')1,C81-9 ()* 86),.'1'6' ,**? 25' =1=;/6, 12' 8*-* .;==/ *0'DX17 6' - >)' .1/' 21,' /*..'D1;2, ;/',)62',)6,'12',)* D629.'1',)* 5A=, 62' /* 9* ./620.'- . 25' -1?'6'5#/0*2 .*6'1 '86+ 25' >1-2' .,110' -* _;*2,'5-1+*.' 1 '=6/?C,-**.'620' =/*6.62,' 56-0*2.' 6 1-0 25',1',)* 0/*-' 1-',-6+*//*-',)* -'5-6,*^ ;/620') 5)/ C+6/;*0' .)60* -180.' 1 '=6..*25*-.');-* 0'6/125',)* 0;., '-160.',1'620' -1?',)* D;. '>, ()* /620' 86.' ->)' 2' >1-2' 620' 8 2* :18 >)625*0' .',)* 6.=*>,'1',)6,'-*5 127'6,',)* =-*.*2,'06A G 125' /2*.'1'?1;20. ' ,' .',-;0'?6-9',)* >1;-.*.'1',)1.* ?6 2'6-,*-*.'8)>)' 1-?D-, '0 ;.*0'/ * 620'+*5*,6^ ,12'6/125',)* -' D629.'D;',)* -' >)622*/.'6-* 218'D*^ -* ,'1'?1 .,;-* 620' >)19*0' 8 ,)' 0- ,*0' .620T ,)* .?6//*-' 1 .)11,.'6-* 8)>0/ ' * 6>*0 ` '0-1;5),' 7' ;=12' )*-' 86,*-. '.6 .',)* =-1=/ *,' `620',)*AC .)6// D* 0- *0' ;=G' //',)6,'-*?6 2.' 1',)6,'62> *2,' >+/ [6^ ,12 ',)6,' 5/1-E7 1' 9 2501?.' ' `,)* =-6 .* 1',)* 8)1/* *6-,) ' .'+*>152 .6/,/1' 2',)* 2;?*-1;.'?1;/0^ *- 25')*6=.'1 'D- >9'620'-;DD .)'8)>)' 1+*-.=-*6 ',)* .;-6>* 1',)* =/6 2 2.,*60'1',)* /;L;-62,' :*/0.' ,)* 5-1+*.' 620'56-0*2.' 21,) 25'218' ?*,' ,)* D;,' 62'6-0' 86.,* ',)* 0*2.* =1=;/6, 12' 1 I/D-?*-' , ?*.' .'+62 .)*0'620'21' ?62'08*//.',)> *J M 1 ,$7 .' + '= X ()* >6;.* 1',)* >)625,' .',1'D* 1;20' 2',)* 2*5/*>,' 1'?62 '()*-* A.' 5'=) .>6/ -*6.12 J ,)* .6?* <(,*-1D.*-+*.' 8)E' 6)7012 6' .)1;/0'21,'D* 6.'D*6;, ;/620'6.',)>9/ I' 2)6D ,*0'6.' 2' 06A7.' 1' !1-*T 6'/ ,,/* >6-* 620' /6D1-' D*.,18*0' 12' ,)* 62> *2,'>626/.'81;/0'656 2'-*.,1-*',)* *-, / ,'620' hX1=;/6, 12'8)>)' ,' 1-5 26// '=1..*..*0 J' ()* =-1.C =*-,A'620' *-, / , '1',)* >1;2,- I' 0>10-0'*2, -*/ +12' ,)* -*5;/6, 12'1',)1'86,*-.' 6-1 ;$E'620'=-1=*-/ '6==/*0'620');.D620*0',)*A'6-* .; > *2,',1'?69* ,)*' *2, -* =/6 2'6'56-0*2 *,',1',)*?*./+*.',)* '0*.*-,' ,)* - +*-' >1;-.*.',1'6>>;?;/6,* 2'/69*.'620'?6-.)*.' /*6+ 25' /6-5* 0 .,- >,.' 86,*-/*..' 620' 1,)*-.' ?1.,' .>62, / ' .;==/ *0'8)/* ,)^ J1+*-8)*/?',-6>,.' 1-?*-^ / ';20*-'>;/, +6, 12'8)>)'D*>1?* >1+*-*0'8 ,)'6' 1-^ *.,1'-**0.'620'0);-25',)* .;?*-',)*6,.'D-**0'6'=*.^ .=*>, +*/ '& '620'& !' ()* 1-?*-' .' ,)* 26?* 1',)* >*/*D-6,*0'6,'6//,?*.' 1-' ;-1',)* 2;?&D-' 1'5-*6,' >,*/*0' >1;2,- '=1..*..*0' 86.' 21,*0' D ' :*-101,;.'M' QX' 620',)* 8)1/* -*5 12' .' 2' 6>,' .,;00*0' 8 ,)');5* ?1;20.' *6>)' ?1;20' ?6-9 25' D* 120' 6' 01;D, ' ,)* .,* 1'6%>12. 0*-6D/* ,182 ()* ?1.,' ?=1-,62,' 1' ,)1.* 8)>)')6+* D**2' 0*2, *0' 6-* 1-. =6 M2 7' ; =7 I 8' ==6-6' 1-' *=)6-+6 ?' I 8' ;,)6



General Map of the Chaldæan and associated Empires.

(*Ibrahim*), Calneh (*Niffer*), Erech (*Warka*), Ur (*Mugheir*), Chilmad (*Kalwadha*), Larancha (*Senkereh*), Is (*Hit*), Duraba (*Akkerkuf*); but of these not fully, and of many others not at all, have the exact sites been determined, as the Accad of Genesis (x, 10); the Teredon of Abydenus (*Fragm.* 8); *Asbi*, *Rubesi*, etc., towns mentioned in the inscriptions. Two of these places—Ur and Borsippa—are of particular note. Of the rest, Erech, Larancha, and Calneh were in early times of the most consequence, while Cutha, Sippara, and Teredon attained their celebrity at a comparatively recent period. (See each name in its place.)

.*_;*2>*' 1 ',) *'5*2*-6/'620'0*> 0*0' 2 /;*2>*' 8) >)',) *' ' *L,*2,'-*;2 ,*0',) *' 4-**9'620' 6, 2') ;->) *. '6'/6-51'
6D /12 62' =) /1.1=) ' *L*-,*0' 12',) *' 1= 2 12.' 620' 2;?D*-' 1 ' *.,1- 62.' -*,;-2*0',1',) *'?% (?1,)*;.
? 622*-' 1',) 29 25'1 ',) *' .-6*/,*.' 0;- 25',) * -' >6=^ EB->) D .) 1=' 1 ',) *' *.,1- 62.' 1 ' (X-;.'6?125'1,)*-%0'
, + , ' 2' 6D /12'6.',) *' 6DD 2.',) *?.*/+*.'60? , ' 2' 6DA;-*0' *.,1- 62 .?'620'86.'-*>* +*0' 2,1',) *' 1^
6//*5 25',) 6,',) *'26?*.'1',) *;25*/.'620'1',) *'?12,).' ?62') ;->)' 2' + -,;*' 1 '6' D;// 1 ' 1=*' ;5*2*' '
8*-*0*- +*0'D ',) *')1;.*' 1 ' .-6*/ -1?' 6D /12'I5 + M X'8) >)' D;//6/.1' 0*> 0*0',) 6,',) *'26?*' 1 ' *.C'
" "1'=% 4X% **' / #!' ()*' . .,*?' 1' ,1- 62.' .)1;/0' 21' /155*-' D*' 6==/ *0',1',) *')6/0*62'
1= 2 12' 620' ?622*-' 1',) 29 25' 8) >)',) *' >6=, + *.')- ., 62.% ,*-',) . '=6-, 6/ 6>>*.. 12.' 1 ' >.,1- C'
?*,'8 ,)' 2' 6D /12'86.' ?60*' ;=' 1 ' */*?*2,.' 8)1.*' 62.',1',) *' 1?62' 6,)1/ >') ;->)',119' =/6>*' -1-I'
D -,)=/6>*' 86.' 2'+6- 1;.' =6-,.' 1',) *' 6.,'620'8) >)' , ?*',1', ?*I' 6' 2;?D*-' 1',) *?'A1 2*0' ,'0;- 25',) *'
6==*6-',1')6+*' 1;20' 2' 6D /12' k 21,';2>125*2 6/' 1',) *' 52' 1' 1=*' B;/ ;.' ' M KX'8) *2' 20=-6->)' ,15*,) *-'
.1/'8) *-*',) *' 5-*8'620'>16/*.>*0' 2,1'12*'5*2*-6/' 1',) *' *.,1- 62.'1' <1.;/'6.9*0'620'1D,6 2*0',) -6,C'
. .,*?% ',) *.*'*/*?*2,.',) *',81'=- 2> =6/8*-*',) *' >6, 12'1 ') .'*/*>, 12'D ',) *' 1=*% ( ) .' ;2 12'86.'
)6/06662'620',) *' <*01C *-. 62'1-'U1-16.,-62% >12, 2;*0'D ,) *'=6,-6->)' /6.'8)1' 2' S S'6..*?^
``()*' 1-?*-'1',) *.*'8) >)'6/12*'8*'.)6// ;>12*'-*'>12^ D/*0'6' . 710'6,' ?0'8) *-*',) *' =6,-6->)',15*,) *-'
. 0*-'.**?.',1') 6+*' 1-5 26,*0' 2',) *' >;/, +6, 12'1' 8 ,)' +*'6->)D .)1=.'620'12*'D .)1=' >20M-.*0',) *' 1^
6.,-121?E'M %'+%X'6'.> *2>*'+*-A'*6-/ '=;-.;*0';20*-' ?62' 6,)1/ >' 12*.. 12'1' 6 ,) '620'0*>/6-*0' 2' 6^
,) *' >/*6-' .9' 1' 6D /12 6 76/,)1;5)'5*2*-6//E!' 1-^ +1-' 1';2 12' 8 ,)' 1?*% *,' .*=6-6, 12.' 1>>;--*0'
-;=,*0'8 ,)'6'? L,;-*' 1'6.,-1/15 'M %'+%X% "'26,^ -1?',?*,1', ?*% $20*-' 1=*' 221>*2,' d'6'/6-5*'
-;-6// '3>6?*',*'D*' -*56-0*0'6.'6'0 + 2*=- 2> =/*'620' 2;?D*-' 1' *.,1- 62.'A1 2*0',) *' 1?62') ;->)'620'
,) *')*6+*2/A!I'D10 *.'8*-*' 81-.) ==*0'6.',) *' -*. 0*2>*') *' 56+*,) *?'6.' 8*// 6.',1'6//')6/0*62')- ., 62.'6'
1-' ?=*-.126, 12'1' * , % () .' .112'0 +*-5*0' 2,1' =6,-6->)' 2',) *'=*-.12'1 'B1.*=)' '8)1'?60*') .'-*. ^
=1/ ,) *' .?'6.',) *' >*/*.,6/ /;?26-*.' 8*-*' 6.. 52*0' 0*2>*' 6,' ?0';.;6// '>6//*0' 6-D*9 -% -1?',) .'
,1' .*=6-6,*' =18*-.'1' 6,;-*% **' ? #!' 2' , ?*' 1-86-0',) *' 1?62' 6,)1/ >.'1')6/06*6')6+*'
1D.*-+6, 12'1',) *' 6.,-121? >6/ =)*21?*26'/*0' 21,')60'6'=6,-6->)'1',) * -'182'D*6- 25',/ *',/**1'=6,-^
12/ ',1',) *' 1-?6, 12'1')1-1.>1=*.'8 ,)'6'+ *8',1'0^ 6->)'1' 6D /12'620'-*. 0 25'6,' 65060% ()* '6/.1'
+ 2 25',) *' ;;;-*'D;,' ,'/9*8 .*' 20;>*0'6'D*/ * ' 2' =*-.*-.7* 6'- ,;6/ 1',) *-' 182' 2',) *') 6/06 >' /62^
>*-,6 2' 2,*-?*0 6, *'=18*-.'8) >)' 8*-*' .;==1.*0'M6.' 5;65*% *. 0*.',) *' =6,-6->)' ,) *')6/0*62.' /6+e'
D ',) *' 218'0 .>1+*-*0'D120'1'5-6+ ,6, 12X',1' / 29'6// 6-6->)D .)1=.'6,' ?60*'620' */*;>6'2' . 6,>'(;9* '
D10*.' ,15*,) *-'620'8)1.*' =-*.*2>*' 86.'?60*',1' // 1;-'D.)1=.' 2'(;-9* '620',81' 2' *-. 6% () .'
,) *' +1 0'D*,8***2',) *?'620',) *' 2+. D/*' * 25'6,',) *' .*>,' .'6>>*.. D/*',)-1;5)',) *' ? .. 12.' 1',) *' % %
>*2,-*% ();.'6-1.*',) *' ',) *1- '8) >)G 5^ % <*6,' -11?6)'620' 6-D*9 -'D;,' =- 2> =6// '
;-*.' .1' >, 2.= >;1;./ ' 2',) *' 6DD6/6'M %'+%X% 620' 2' ,)-1;5)'./ *',.,6, 12'6,' <1.;/'8)*-*'.1?*'1',) *' ?*?^
421.,>.?'M %'+%X% ()*.*% 2,*-?*0 6,*' 1-'0*- +*0' D*-.'1',) *' +%X% 620' 2' 6,)1/*'81-/0'1' 'M %'+%X' 1'+6- 1;.' >)6-6>^
*L .,*2>*' 1'.1?*' 1',) *.*',6/.?62.'M %'+%X'8*-*' -*.1-,*0',1' *' ;*0'
0'656 2'6'/29'D,8**2'.= -',620'?6,,*-'5 + 25'- .*' /6-5*')6/0*62' +//65' 1' (*/9* ')6.'D**2' >/1.*0',1'
,1'6'8)1/*'81-/0'1' 'M %'+%X' 1'+6- 1;.' >)6-6>^ ? .. 126- '* 1-,.'620'*+*2' -1,*.,62,.'8)1'182'=-1=^
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2/;*2>*' 1'.1?*' 1',) *.*',6/.?62.'M %'+%X'8*-*' -*.1-,*0',1% *** .,6,*' 1',) 25.'>6221,'/6.,'620'8I* ?6')1=*' .112',1'
620',) *' 6-,.' 1'.1->*- 'M %'+%X' 8*-*' -*.1-,*0',1% ***)*6-',) 6,' .;>)' ?*6.;-*.';)*-*01;20*0'6.',) *' 6/^
/ % % 86 .'01',1',) *' ;-,) *-62>*' 1',) *' ,-;,) J'M *8>1?D'
'()*' -65?*2,.'1' *-1.;.'=-*. *2*0'D ' ;.*D;' I %!' ' 1'K NX% '7&*,[*-' 20'&*/,*') " =
620'B1..*=);.'620',1'D*' 1;20' 2' >6/5*-'M *' 6 =' + :' 1)*?'< = + ' Q R'=7 NNT' ..*?62'
!'-S %!E'620'?1-*' ;// ' 2' 6D-> ;.' ? !'L + ' ;" "!' , ',% '=%K NCK ' NC RT' '=% T'
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66/'6,' 6D /12' 2',) *', ?*'1' /*L620*-',) *' 4-*6,% ' ' ' 4 " ' ' ' % '
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D/ >6/' 620' (6-5; ? >6/')6/0**%' & 2*-')18*+*-' -*56-0 25' //25; ., >6/' >)6-6>,*- ., >.' >) * / ' 0 ., 2^ 5; .)*.' ,)-*** 5-60*.' 1 ' ,.' =; - , a' ,)*' /625;65* ' 6.' 1;20' 2',)*' (6-5; ?' 1 ' 29*/1. ' 6.' ?1.,' -**' -1?' : *D-6 . ? .' ,)*' D/ >6/')6/0** ' 8) >) '6.' ,' -*_;*2,^ / ' 2,*-? L*.' >*-,6 2' =*>;/ 6- , *.' 1 ' : *D-*8' M6.' ,)*' ('1 ',)*' 6-, >/* ',)*' =/;-6/' *20 65' 4',)*' 0;6/ 1-? ' 620' ,)*' >12A;56, 12' 1 %+ 81' -629.' D*/18' ,)*' -.,' >/6..' 620',)*' 0 1?' 1 ',)*' 1,)*-' (6-5; ? . ' 8) >)' 21,' 12/ ' 6D=;20.' 8 ,)' 1-* 52' 81-0.' D ; ,' =1..*..*.' .*+*-^ 6/ =*>;/ 6-' 1-?6, 12.' D1-0*- 25' 12',)1.*' 1 ',)*' -^ 6>' 620' 1 ' 6DD 2 >6/' : *D-*8%' *> o $! ()*' /625;65*' 1 ',)*' (6/?;0' .'6/.1' ;. ;6// '>6//*0')6/0**↑ 620 ' ' 8*' *L>*=',)*' < .)26)' M8) >)' .' 8- ,,*2' 2' 62' 0 1?' 21,' .1' +*- ' 6-' -*?1+*0' -1?' D/ >6/' : *D-*8 ' 8 ,)' 6', 2>,;-*' 1 ')6/0**X' ,' .',-;*' 1 ',)*' 4*?6-6.' ,)6,',)* '6-*' 8-,,*2' 2' .:>)' +*- ' % ')6/0**',)6,' ,)* -' 0 1?' .' ?1-*' =-1=*-/ ' 0*. 526,*0' 6.',)*' (6/C ? ;0 >6/' 0 6/*>,% **' o N$ $!' ! $ 20*-',)*' 6-, >/*' ! ') $ ')6+*' D**2' 21, >*0',)1.*' .*+*-6/' *6,;-*.' 8)>)',)*')6/0**' =1.^ .*..*.' 2' >1?12' 8 ,)',)*' E(6>' 620',' 218' -*?6 2.' ,1' 0* 2*',)1.*' >*-,6 2/ ' 21,' ?6-9*0' >)6-6>,*- .,>.' D ' 8) >)',' .' 0 ., 25; .)*0' -1?',% ()*.*' 6-> ',)*' =-*01? 262>*' 1 ',)*' .1;20' 8)*-*',)*' - 6>')6.' 1 ' ,)*' 6+1 062>*' 1 '0 =),)125.' 620' 1 '1, 62,'/*.,*-.' ,)*' ;.*' 1 ' 065*.)C 1-,*' ,)*' -*5;/6-' 6>>*2,;6, 12' 1 ',)*').,' . //6D/*' 620',)*' 1-?6, 12' 1 ',)*' 2 2 ,+*.' *L^ >*=,' 2' 1' 8 ,)1;',)*' =-1 1-?6,+*' N% ()*' ?10*' 1 '8-, 25' .' 6/.1' ?;>)'/*..' 2 ',)62' 2' - 6>% ' ,,1 ' Q% % & 1-9.' 6;L / 6- ' ,1',)*' .,;0 ' 1 ',)*')6/0**á ' & 'P */!6- ;.' ? !' *' " f M [e' SQ XT' = ,[' " ' - !' - ' ""' ' M */' S XSX' : *5*/?6 *-' I = 3 ' ; " ' =' 'M(;D% XT' B% % < >)6*/.' ? ' "' 2' 'M4*,, 25' XT' : *L*/' & ' 1'/ ' " 2 ' M *?51' Q XT' >)-1*0*-' !' ' + ';'M 1' 'M Q Q XT' & ,, >D' ? / ' !' " !' !' ' " ' ' !' ' !' ' M =.% QN XT' *,- >)' ; ' ' ' '% % :' 125 */0' - ' " 'M 120% Q RXT' 55.' ' *(' " !' 9 'M % % : 1 XT' 4 ;- >/' M6')6/' %2' =- *.,X' 6 A' (' " 6' M 1?*' QS PXT' ;-.,' " =' " 1 ' !' 'M * =a7' QN X% ()*' D*.',?62^ ;6/' .' 2*- .' ? +' M =[% QK X' KO' *0%,-62./6^ ,*0' D ' -1 *..1-' : 6>9*,,' ? ' " ' " ' ' '

over by officers of various ranks. An enumeration of several kinds may be found in Dan. iii, 2, 3. The head officers, who united in themselves the highest civil and military power, were denominated סְגָנִים, "rulers" (Jer. li, 23, 28, 57), or אַחַשְׁדַּרְפְּנִין, "presidents" (Dan. vi, 2); those who presided over single provinces or districts bore the title of פַּחוֹת, "governors" (Hagg. i, 1; ii, 2; in Chald. פַּחֲוָתָא). The administration of criminal justice was rigorous and cruel, will being substituted for law, and human life and human suffering being totally disregarded. Nebuchadnezzar (Dan. ii, 5) declares to the college of the magi: "If ye will not make known unto me the dream, with the interpretation thereof, ye shall be cut in pieces, and your houses shall be made a dung-hill" (see also Dan. iii, 19; vi, 8; Jer. xxix, 22). The religion of the Chaldees was, as with the ancient Arabians and Syrians, the worship of the heavenly bodies; the planets Jupiter, Mercury, and Venus were honored as Bel, Nebo, and Meni, besides Saturn and Mars (Gesenius, *Jesa.* ii, 332 sq.). The language spoken in Babylon was what is designated Chaldee, which is Shemitic in its origin, belonging to the Aramaic branch.—Kitto, s. v. See CHALDEE LANGUAGE.

3. That the *Kaldi* proper, however, were a Cushite race, is proved by the remains of their language, which closely resembles the *Galla* or ancient language of Ethiopia. Now it appears by the inscriptions that while both in Assyria and in later Babylonia the Shemitic type of speech prevailed for civil purposes, the ancient Cushite dialect was retained, as a learned language, for scientific and religious literature. This is no doubt the "learning" and the "tongue" to which reference is made in the book of Daniel (i, 4). It became gradually inaccessible to the great mass of the people, who were Shemitized by means (chiefly) of Assyrian influence. But it was the Chaldæan learning, in the old Chaldæan or Cushite language. Hence all who studied it, whatever their origin or race, were, on account of their knowledge, termed Chaldæans. In this sense Daniel himself, the "master of the Chaldæans" (Dan. v, 11), would no doubt have been reckoned among them; and so we find Seleucus, a Greek, called a Chaldæan by Strabo (xvi, 1, § 6). It may be doubted whether the Chaldæans at any time were all priests, though no doubt priests were required to be Chaldæans. They were really the learned class, who by their acquaintance with the language of science had become its depositaries. They were priests, magicians, or astronomers, as their preference for one or other of those occupations inclined them; and in the last of the three capacities they probably effected discoveries of great importance.

According to Strabo, who well distinguishes (xvi, 1, § 6) between the learned Chaldæans and the mere race descended from the ancient *Kaldi*, which continued to predominate in the country bordering upon Arabia and the Gulf, there were two chief seats of Chaldæan learning, Borsippa, and Ur or Orchoë. To these we may add from Pliny (*H. N.* vi, 26) two others, Babylon, and Sippara or Sepharvaim. The Chaldæans (it would appear) congregated into bodies, forming what we may perhaps call universities, and pursuing the studies in which they engaged together. They probably mixed up to some extent astrology with their astronomy, even in the earlier times, but they certainly made great advances in astronomical science, to which their serene sky, transparent atmosphere, and regular horizon specially invited them. The observations, covering a space of 1903 years, which Callisthenes sent to Aristotle from Babylon (*Simplic. ad Arist. de Cal.* ii, p. 123), indicate at once the antiquity of such knowledge in the country, and the care with which it had been preserved by the learned class. In later times they seem certainly to have degenerated into mere fortune-tellers (Cicero, *de Div.* i, 1; Aul. Gell. i, 9; Juv. vi, 552; x, 94, etc.); but this reproach is not justly levelled against the Chaldæans of the empire, and indeed it was but partially deserved so late as the reign of Augustus (see Strabo, xvi, 1, § 6). Josephus, however, uses the word in this sense (*War*, ii, 7, 38).—Smith, s. v.

Chaldæan Diviner.

Upon the walls of the Assyrian palaces are representations of various magi, all distinguished by a peculiarity of dress. It may be difficult to determine the class to which they respectively belong, but there is one (Botta, pl. xliii) who may be particularized as a diviner, and probably of the Chaldæan race, for his person is much thinner, and his features are more delicate than are those of the other attendants of the court, indicating a different order of occupations, and an exemption from the ruder and more active employments of life.—Fairbairn, s. v. See DIVINER.

Chalice (Lat. *cal'x*), the cup in which the wine of the Eucharist is administered. At first, when the Christians were poor, the cups were of common materials; but when they grew rich, the cups were of the most costly materials they could afford, such as onyx, sardonyx, silver, and gold. The chalices are of two kinds, the greater, containing a large quantity of wine, and the less, called *ministeriales*, because the priests deliver the wine to be drunk out of them.—Bingham, *Orig. Eccles.* bk. viii, ch. vi, § 21; Doughtæus, *de Calic. Euchar. Vet.* (Helmst. 1726); Siegel, *Alterthümer*, i, 61.

Chalk. The Heb. גִּיר, *gir*, thus rendered in Isa. xxvii, 9, properly denotes *lime*. To make the stones of the Hebrew altars like lime-stones is to crumble and destroy them. See LIME.

Challah. See TALMUD.

Challamish. See FLINT.

Challamuth. See PURSLAIN.

Challenge. See SINGLE COMBAT.

Challoner, RICHARD, an English Romanist, was born at Lewes, Sussex, Sept. 29, 1691. His parents were Protestants, but he was led over to Rome by his tutor, Mr. Gother, a Romish chaplain at Warworth, Northamptonshire. In 1704 he went to the English college in the University of Douay, where he was appointed professor of poetry, afterwards of rhetoric, in 1713 of philosophy, and in 1718 of divinity. In 1720 he became vice-president of his college, and ten years afterwards was sent on a mission to England. He now commenced a series of controversial works, among which was a reply to Conyers Middleton's *Letter from Rome*. In 1741 he was made titular bishop of London and Salisbury, and vicar apostolic. He was accused of acting against the anti-papal law of William III, but was acquitted. In 1780 he was again in danger from Lord George Gordon's riots. He died in 1781. See Barnard, *Life of Richard Challoner* (Lond. 1784, 8vo). Among his writings are, 1. *The Catholic Christian instructed in the Sacraments, Sacrifices, and Ceremonies of the Church* (against Middleton's *Conformity between Popery and Paganism*):—2. *Britannia Sancta* (Memoirs of British Saints, 1745, 2 vols. 4to):—3. *A Caveat against Methodism*, etc.—Gorton, *Biog. Dictionary*, s. v.; Allibone, *Dictionary of Authors*, i, 361.

Chalmers, THOMAS, D.D., LL.D., eminent alike

6.'=-*6>)*-'=) /62,)-1= .,'620'=) /1.1=)*-'86.'D1-2' 2' 2..,?.,)*-' 2' *.) -*' >1,/620' <6->)' Q ¶ : *' 86.' .*2,'6,'62' *6-/ '65*',1',)*' 62> *2,' $2 +*-. , ' 1' ,¶ 20-*8 .' : *' 0*+1,*0')?.*/'>) * / ',1'=) .^ >6/'.>*2>*!' *.=*> 6// ',1'6.,-121? ' 2' 8) >)')*' D*^ >6?*' 6' =-1 /* *2,¶ 2' <6 ' Q N')*' 86.' 6==1 2,*0' ? 2.,*-' 1' /?62 ' 2' *.) -*¶ ;- 25') .' -.,' A7*6-.'1'.*-+ >*',)*-*')*' 56+*') ?.*/'?1-*',1'.> *2>*' ,)62',1'=6.,1-6/0;,*.'620'=;D/.)*0') .' -.,' ?=1-^ ,62,'81-9',)*' 4 ' " '6 ' $ " ' ' 7 " N 1' 2' 8) >)',81'=1 2,.'6-*'*.=*> 6// ' =-1? 2*2, ' 62' 2,*2.*' 0 ./ 9*' 1',)*' .= - .' 1',-60*' 620' 6' D;-2 25' ? / ,6- ' 6-01-¶ D1;' Q R')*' 86.' *2565*0',1' 8-,*',)*' 6-, >/*' 12')- ., 62 , ' 1-',)*' 6 "'6 % ' 2'=-1.*>;, 25',)*' .,;0*.' 2*>*..6- ' 1-',) .' 6-, >/*')*' D*562',1'=*->* +*',)6,' ,)*-*' 86.' .1?*,) 25' 2')- ., 62 , ' 8) >)')*')60' 2*+*-' *,'>1?=-*)*20*0¶ ()*' -* /*>, 12.',1'8) >)'6' .*+*-*' //2*..' 56+*' - .*' >1?=/*,*0') .' >12+*-. 12 J' 620' 12') .' -*>1+*- 'D*' D*562',1'>12 *..'=;D/ >/ ') .' =-*+ 1;.' D/ 202*..' 620',1'=-*6>)')- .,'>-;> *0¶ 2' Q ')*' 86.' 2+ ,*0' D ',)*',182' >1;2>/ 1' 4/6.518' ,1',69*' >)6-5*' 1',)*' (-12');->)'620'=6- .)' 2',)6,' >, ¶ ,' 86.')*-*'=*-)6=.',)6,',)*') 5)*.',-;?=).' 1') .'*/1_;*2>*' 8*-*' 6>) *+*0¶ 2' QKN)*' 86.',-62.^ *--*0',1',)*' >)6 -' 1'?1-6/=) /1.1=)' 2',)*' $2 +*-^ . ,'1' ,¶ 20-*8 .¶ ()*' *,) >6/ >/6..C-11?'8) >)')60' D* 1-*' =-*.*2,*0' 6' D*556-/ ' 6>>1;2,' 1' *?=, ' D*2>)*.'86.'.112'>-180*0'8 ,)'>/6..*.'1'*2,);. 6.,>' .,;0*2..¶ 2' QKN)*' 86.' 6==1 2,*0',1',)*' >)6 -' 1' ,)*1/15' 2',)*' 1//*5*' 1' 0 2D;-5) ',)*' .;??,'1' *>>/*. 6.,>6/*/*+6, 12' 620' 2/;*2>*' 2',)*' 6, 126/' .,6D/.)?*2,¶ 2',) .'=1..')*'>12, 2;*0',1'/6D1-';2^ ,/',)*' 0 .-;=, 12' 1',)*' .,6D/.)?*2,¶ **' ' ¶ ' ! 2'<6 ' Q N',/>'=- 0*' 620' =18*-'1',)*'62> *2,') ;->) ' 1;-') ;20-*0'?2.,*-.' 8,)')6)?*-.'6,',)*-')*60'0*=6-,*0' -1?')*-T' 620' 1-562 [*0',)*' -.,' 4*2*-6/ ..*?D/'1',)*' -*' 1-562 [*0',)*' -.,' 4*2*-6/ ..*?D/'1',)*' -*') ;->)'1' >1,/620'J' 1+*-'8) >)')*'=-*. 0*0¶ ' & ,)' ,)*' .,;=*201;.'*L*-, 12.',),6,'8*-*',)*2'=;,' 1-,)',1' *-*>,' >);->)*.'?62.*.' .>)11/C)1;.*.'620' >1//*5*.T ,1'.*20' ? .. 12.',1'B*8.'620')*6,)*2'620',1'.*,'12' 11,%6//',)*' ?6>) 2*-'1'62'* > *2,');->)T 8 ,)' ,)*' 6?6[25'/6D1-.'1')6/?*-.'8)1',-6+*//*0'1+*-' ,)*/*25,)'620'D-*60,)'1' >1,/620'D-*6,) 25') .'182' D;-2 25'.= - .',2,1'*+*- '>/6..'/*')*' .**?*0'/9*' ,)*' *65/*',1')6+*' -*2*8*0') .' 1;,)T 620' 8 ,)',)*' 8120*- ;/.;>>*..',)O,'>-182*0',)*.*' *L*-, 12.' 8*' >6221,'D*'0*,6 2*0' 8 ,)1;,'*L>**0 25'1;-/?,.¶ ;C' />*' ,',1'.6 ',)6,' 2'6' 5-*6,'?*6.;-*'D ',)*' 2 ;.12' 1') .' 182' ;2, - 25' *2*-5 ' 2,1' *+*-A7>/6..' -629' 620' 65*',)*' ..;=*201;.'..-;>,;-*1',)*' -**');->)' 8*2,' ;='/9*' /600 2 .'=6/6>*' 6.' ,' 8*-*' 2' 6' . 25/*' 2 5),'620',)*' 81-/0' .,110'6?6[*0'6,',)*';2=6-6//*/*0' .=*>,6>/*%J')6/?*-.' 86.' 6==1 2,*0' =- 2> =6/ 620' =-1 *..1-.' 1',)*1/15E' 2',)*' -**');->)' 1//*5*' 2' 8) >)'=1..')*' >12, 2;*0',//') .' 0*6,)¶ ;. *0' 8 ,)') .' =-1 *..1-..) ='8 ,/',)*' =-*=6-6, 12' 1') .' ' -' 620') .' ' '$ % '5 ')*' *,' 1;20',?*' 1-' +6- *0' 81-9.' 1' D*2*+1/*2>*' 620' =) ^ /62,)-1=¶ 2' - 06 '2 5),' <6 'N Q ')*' -*, -*0' ,1') .'>)6?D*-'6==6-*2,/ ' 2') .' D*0' 2*L,' ?1-2 25¶ 86.' 1;20'0*60' 2') .' D*0' 2*L,' ?1-2 25¶ 2' 626/ [25',)*' 2,*//*>,;6/>)6-6>,*-' 1' -¶)6/?*-.' 8*' 20' D;',81'=-1? 2*2,' =*>;/6-,*.¶ ()*' -.,' .',)*' /6-5*' 0*+*/1=?*2,' 1',)*' =*->*=, +*' 6>;/,*.¶ ,' 86.',) .' =*>;/6-,',)67' 0 -*>,*0') .' ? 20',1' 26,;-6/.>*2>*' 620' ,,*0') ?',1' *L 1/ 2' ,)1.*' 0*=6-,?*2,.',)6,'0*?620*0',)*' *L*-> .*' 1',)*' =*->*=, +*' =18*-.T ,)6,' 0*,*-? 2*0') .',)1;5),.',1' ,)*' 0*,6./.' 1' *>121? >.' =11-C/68.',,6,.,>.' *,>¶T ,)6,' ;-2 .)*0') ?' 8 ,)',)*' *L;D*-62>*' 1' //;.,-6, 12' ,)6,' 601-2.') .' 0 .>1;-.*.' 620'/*0') ?' 5*2*-6// ' ,1' -*6.12' D ' 626/15 '-6,)*-',)62' 12' 6D.,-6>;' =- 2> =/*.' 1-' D '?*,6=) . >6/0*0;>, 12.¶ ()*' 1,)*-' =-1? 2*2,' 6>;' 2') .' 2,*//*>,;6/.,-;>,;-*' 86.' ?65 26, 12¶ :*' 0 0' 21,'/119'6,'6' ;DA*>,' 2',)*' >1/0' 0- '/5),'1'=;-* 2,*//*>, 12')';' 2',)*' 86-?' 620' + + 0' /5),'1'6' =1^ *,>' 62> ¶ ()*' `D10'1'0+2,E 7' 1-'*,)>.'8)>)' 2',)*')620.'C1'1,)*-' 626/ .,.' 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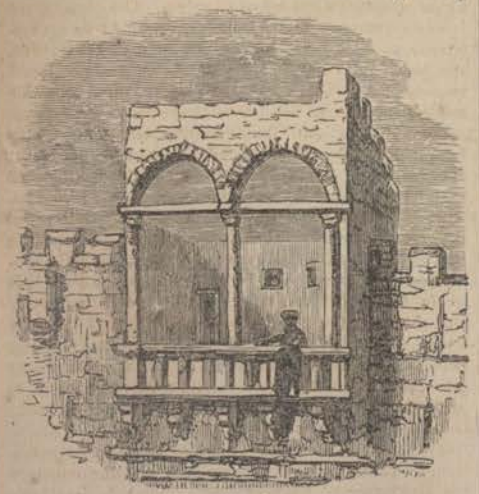
mended. The forty-seventh orders all Christians to receive the holy Eucharist on Maunday Thursday.—Labbe and Cossart, *Concil.* t. vii, p. 1270; Landon, *Manual of Councils*, s. v.

Chaluza. See CHELLUS.

Chamber (the translation of various Heb. words). Oriental houses have in general a court in the centre, with cloisters and a gallery, into which the chambers open, the apartments of the women being at the back, and only to be approached by passing through the others. Toward the street is a dead wall, with a porch, over which is a chamber, sometimes used as a lodging for guests, and sometimes as a store-room, it being well suited for either of these purposes, by being connected with the rest of the house by a door in the gallery, and having a separate staircase opening into the porch. This is the "chamber on the wall" (עֲלִיַּת־קִיר,



Modern Oriental "Chamber on the Wall."

wall-loft, Sept. ὑπερῷον) which the Shunamite prepared for the prophet Elisha (2 Kings iv, 10). Such an "upper chamber" (ὑπερῷον) is still the guest-chamber where entertainments are made, which was the custom with the Greeks as well as the Jews (Matt. ix, 14; Mark xiv, 14). Among the former it occupied the upper story; among the Hebrews it seems to have been on, or connected with, the flat roof of their dwellings (comp. Acts xx, 8). These upper chambers were also sometimes used for the performance of idolatrous rites (2 Kings xxiii, 12), and in them the bodies of the dead were laid out (Acts ix, 37). The early Christians, too, held their meetings for worship in such places. Besides these, there were inner chambers, or a "chamber within a chamber" (2 Kings xxii, 25), such as that into which the messenger of Elisha retired to anoint Jehu (2 Kings ix, 2). See HOUSE.

The term *chamber* is used metaphorically in many places of the Scriptures, as Psa. civ, 3, 13; Prov. vii, 27. To apply ourselves to earnest prayer and supplication, and to depend on the promises and providence of God for special protection, is to enter into our chambers, that we may be safe, as the Hebrews were in their houses, from the destroying angel (Isa. xxvi, 20). See BED-CHAMBER.

The "chambers of the south" (Job ix, 9) are the constellations, or clusters of stars, belonging to the southern part of the firmament. See ASTRONOMY.

The term "Chambers of Imagery" (חַדְרֵי מַשְׂכִּית, *figure-apartments*; Sept. κοιτῶν κρυπτός) is used by the prophet Ezekiel (viii, 12) to denote the vision which he had of the abominations practiced by the Jews in the distant Jerusalem. As the practices there denounced were evidently borrowed from their Chaldæan oppressors, they derive striking elucidation from the gorgeous halls of the Assyrian palaces lately brought to light by Layard, with their long lines of sculptured animals, and kings worshipping before them (*Nineveh*, ii, 209). See IMAGERY.

"Chambering" (κοῖται) signifies in Rom. xiv, 13, that lewd association with courtesans and similar characters that was a peculiar feature of the heathenism of that age. See HARLOT.

Chamberlain (סָרִיס, *saris'*, 2 Kings xxiii, 18; Esth. i, 10, 12, 14; ii, 3, 14, 15, 21; iv, 4, 5; vi, 2, 14; Sept. regularly εὐνοῦχος, twice σπάδων, all signifying *castrated*; in other places it is translated "eunuch," or "officer"). The term appears to have been applied to officers confidentially employed about the person of the sovereign; thus Potiphar, who was also captain of the guard, in the Egyptian court, is styled thus (Gen. xxxvii, 36; xxxix, 1). It probably also occurs in the title Rab*saris* (q. v.). The title "chamberlain" (οἰκονόμος), in Rom. xvi, 23, probably denotes the steward or treasurer of the city, called by the Romans the *quæstor*. The Vulg. renders it by *arcarius*, which was the title of a class of inferior magistrates, who had the charge of the public chest (*area publica*), and were under the authority of the senate. They kept the accounts of the public revenues. (See Reinesius, *Syntagm. Inscr.* p. 431; La Cerda, *Advers. Sacr.* cap. 56; Elsner, *Obs. Sacr.* ii, p. 68; and a note by Reinesius to the *Marmora Oxoniensia*, p. 515, ed. 1732.) Blastus is said in Acts xii, 20, to have been "the king's (Herod's) chamberlain" (ὁ ἐπὶ τοῦ κοιτῶνος τοῦ βασιλέως), by which is probably meant his personal attendant or *valet de chambre*. It was a post of honor, which involved great intimacy and influence with the king. The margin of our version gives "that was over the king's bedchamber," the office thus corresponding to that of the *præfectus cubiculo* (Suetonius, *Dom.* 16). See EUNUCH.

Chamberlain, Jeremiah, D.D., a Presbyterian minister, was born in York Co., Pa., Jan. 5, 1794, graduated at Dickinson College in 1814, and studied theology at Princeton. He was licensed in 1817, when he became a missionary to the West and South, visiting Natchez, New Orleans, and Mobile. In 1818 he supplied the Bedford church, Pa., and in 1822–23 removed to Danville, Ky., to the Presidency of Centre College. In 1824 he became President in a State institution at Jackson, La., but resigned in 1828, and opened an academy. In 1830 he was made President of Oakland College, Claiborne Co., Miss., the establishment of which was the result of his own enterprise. He was stabbed to the heart (Sept. 5th, 1850) by a student, who afterward committed suicide. He published *A Sermon on the Sanctity and Perpetuity of the Sabbath*, 1831. Some of his *Addresses* and *Letters* were published in the current newspapers.—Sprague, *Annals*, iv, 590.

Chamberlain, Schuyler, a minister of the Methodist Episcopal Church, was born in Woodstock, Conn., Sept. 4th, 1800. In 1818 he joined the first Methodist class formed in Craftsbury, Vt. He was received into the New England Conference in 1828, and during his itinerant career filled a number of important appointments, including the presiding eldership. He died at Craftsbury, May 5, 1862. He possessed superior abilities as a preacher; his style was easy, impressive, and attractive, and there was great clearness and definiteness in his sermons. He was elected three times a delegate to the General Conference. He also represented the town of Craftsbury in the State Legislature three terms.—*Minutes of Conferences*, 1863, p. 104.

Chameleon, a reptile belonging to the *saurian* or lizard-like order. In the original of Lev. xi, 30, occur the words *ko'ăch* (כֹּחַ, so called apparently on account of its great *strength*) and *tinshe'meth* (תִּנְשֶׁמֶת), the

first of which, in our version, is rendered "chameleon" (after the Sept. and Vulg. χαμαιλέων, *chamæleon*), and the second "mole;" but Bochart and others consider both words as relating to animals of the *saurian* or lizard tribe, and that which our translators have termed the mole is, in reality, the chameleon (*Chamæleo vulgaris*); while the chameleon of our version is some other and larger creature of the same order, perhaps a species of the land crocodile. See MOLE. "The chameleon is a small species of lizard, celebrated for the faculty it has of changing the color of its skin. This property, however, has no reference to the substance it may be placed on, as generally asserted, but is solely derived from the bulk of its respiratory organs acting upon its transparent skin and on the blood of the animal. The chameleons form a small genus of saurians, easily distinguished by the shagreened character of the skin, and the five toes on the feet, divided differently from those of most other animals, there being, if the expression may be allowed, two thumbs opposed to three fingers. Their eyes are telescopic, move separately, and can be directed backward or forward. Chameleons are slow, inoffensive, and capable of considerable abstinence from food, which consists solely of flies, caught by a rapid protrusion of a long

Chamæleo Africanus.

and viscous tongue. Among themselves they are irascible, and are then liable to change their colors rapidly; dark yellow or gray is predominant when they are in a quiescent state, but, while the emotions are in activity, it passes into green, purple, and even ashy black. The species found in Palestine and all Northern Africa is the common 'African chameleon,' and probably is that referred to in Lev. xi, 30, where unclean animals are mentioned" (Kitto, s. v.). (See *Penny Cyclopædia*, s. v.). See LIZARD.

Chamier, DANIEL, a French Protestant divine, was born in 1565; studied at Orange; and at 16 became one of the professors of the college at Nismes. In 1583 he went to study at Geneva, where he was ordained. On his return he was made pastor of Vans, and afterward of Aubenas, and some time after succeeded his father, Adrian Chamier, as pastor of Montélimar. In 1596 he was sent by the province to the National Synod of Saumur, and several times afterwards to the Assemblies of Laudun, Vendôme, Saumur, and Châtellerault. He gained great credit by his firmness in the negotiations relating to the Edict of Nantes. In 1600 he distinguished himself in a controversy with Father Coton at Nismes, and the next year with the Jesuit Gaultier. In 1601 he became a delegate to the National Synod of Gergeau, and, together with Maraval, went as a deputation to the king to ask for the continuation of the Saumur Assembly; this was refused, but the convocation of an assembly at Sainte Foix was granted, and of this he also became a member, as well as of several succeeding assemblies. Made pastor of Montauban, he also applied himself to the restoration of its college, and continued his labors as preacher and professor until he was killed by a cannon-ball at the siege of that city on Oct. 21, 1621. His principal works are: *Dispute de la vocation des ministres en l'Eglise Reformée* (La Rochelle, 1598, 8vo); *Epistolæ Jesuiticæ* (Gen. 1599, 8vo); *Confusion des disputes papistes* (Gen. 1600, 8vo); *Disputatio scholastico-theologica de œcumenico pontifice* (Gen. 1601, 8vo); *La honte de Babylon* (pt. i, 1612, 8vo); *Panstratiæ catholicæ sive controversiarum de religione adv. pontificios corpus* (Gen. 1626, 4 vols. fol.; 2d ed. Frankf. ad M. 1627, 4 vols. fol.); *Corpus theologicum, sive Loci communes* (Gen. 1618, fol.). See *Memoir of Chamier* (Lond. 1852, 8vo).—Haag, *La France protestante*, iii, 317; Bayle, *Dictionary*, s. v.

Chamois, the rendering in the Auth. Vers. at Deut. xix, 5, of the Heb. זֶמֶר, *ze'mer* (so called from *leaping*; Sept. and Vulg. understand the *giraffe*, καμηλοπάρδαλις, *camelopardalus*; Luther "elend" or *elk*). The enumeration there requires us to understand *zemer* to be a clean ruminant; but it is plain that the Mosaic list of clean animals would not include such as were totally out of the reach of the Hebrew people, and at best only known to them from specimens seen in Egypt, consisting of presents sent from Nubia, or in pictures on the walls of temples. The camelopard is exclusively an inhabitant of Southern Africa (comp. Strabo, xvi, 771; xvii, 827; Pliny, viii, 27), and therefore could not come in the way of the people of Israel (see Michaelis, *Suppl.* iii, 628). The same objection applies to the elk, because that species of deer never appears further south than Northern Germany and Poland (Cuvier, *Anim. Kingd.* i, 376 sq.). As to the chamois (Gesenius, *Thes.* i, 420), though it did exist in the mountains of Greece, and is still found in Central Asia, there is no vestige of its having at any time frequented Libanus or any other part of Syria. *Zammer* is still used in Persia and India for any large species of ruminants, particularly those of the stag kind. In the sacred text, however, the word *zemer* is not generical, but strictly specific. *Ail*, or "stag," is mentioned, as well as several Antilopidæ, in the same verse; we must, therefore, look for an animal not hitherto noticed, and withal sufficiently important to merit being named in such an ordinance. See DEER; GOAT; GAZELLE, etc.

The only species that seems to answer the conditions required is a wild sheep, still not uncommon in the Mokattam rocks near Cairo, found in Sinai, and eastward in the broken ridges of Stony Arabia, where it is known under the name of *kebsh*, a slight mutation of the old Hebrew כֶּשֶׂב, *kesb*, or, rather, כֶּבֶשׂ, *kebes*, which is applied, indeed, to a domestic sheep, one that grazed. This animal is frequently represented and hieroglyphically named on Egyptian monuments (Wilkinson, *Anc. Eg.* iii, 19). It is a fearless

Ovis Tragelaphus.

climber, and secure on its feet, among the sharpest and most elevated ridges. In stature the animal exceeds a large domestic sheep, though it is not more bulky of body. Instead of wool, it is covered with

>/1.*' 2*' ? 1; .') 6 -á -1?' ,)*' ,) -16,' ,1' ,)*' D-*6., ' 620' 12' ,)*' ;==*-' 6-? .' 6D1+*' ,)*' 92**. ' ,)*-*' .' 6D; 2^ 062>*' 1 ' /125 ' /11.*' -*00 .)') 6 - ' 1-? 25' 6' >1?=6>,' =-1,*>, 12' ,1' ,)*' 92**.' 620' D- .9*, ' 620' 20 >6, 25' ,) 6,' ,)*') 6D ,.' 1 ' ,)*' .=*> *.' -*_ ; -*' *L,-61-0 26- Ć 0* *2>*' 8) /*' .=1-, 25' 6?125' ,)*' ?1.,' -; 55*0' >/ /(.' M.**' 1>)6-, ' # /!' ' K N . %' 1.*2? ;//*-' & "! ' ' QŠ._%X% ( )*') *60'620 6>*' 6-*'=*- *>,/ '1+ 2*' ,)*' * *.' 6-*' D/; .) ' 620',)*')1-2. ' 1 '6' */18 .)'>1/^ 1-' 6-*' .*,' 12' 6.' 2' .) **=† ,)* ' - .*' 1D/ _;*/ ' 620' 6-*' 0 -*>,*0' D6>986-0' 620' 1;, 86-0 ' 8 ,)' ,)*' =1 2, ,' D*20 25'0182866-0% ( )*',6 / '6D1:,'2 2*' 2>)*.' /125 ' .')*6+ '620'-1; 20% ' ,,1 ' .%+% **' / !) 6 ? 1 - ' **' ..%) 6 ? = 6 52' "E' (8' 62' 1=*2' 1- ;2 2) 6D ,*0' 0 .,- >,'M *;,% LA ' N X% **' ' !) 6 ? = * 62 L% **' " ' ' / .!) 6 ? = 12' M7 N ' " 1 (' ' 6?% L+ ' †*/.*^ 8)*-*' ? 5), ?62 7% ( )*: *D%=)-6.*' "' "=" ('-*20*-*0' >)6?= 12J 2' ' 6?% L+ ' ' KN' / ,*-6// ' . 52 *.' 6' ' ' " ' ,) 6, ' . 6' 51CD*,8**2' 62' 6-D ,*-' 1-' 12*' 8)1' 1 *-.' 6' >)6/^ /*25*' 620' 6= P-1=- 6,*/ ' 0*21,*.' ,)*' =1. , 12' 1 ' 41/ ^ 6,)' 8)*2')*' ,,110' ;=' D*,8**2' ,)*' : *D-*8' 620') ^ / ., 2*' 6-? *.% 25/*' >1?D6,.' 6,' ,)*')*60' 1 '6-? *.' 8*-*' 21,' ;2; . ;6/ 2' 62> *2,', ?*.' 620' 2' ?62 '>6.*.' ,' 86.' ' >120 , 12' ,) 6,' ,)*'-*. ;/,' .) 1;/0' 0*,*-? 2*',)*' 26, Z ?/ _;6--*/% 2' *L6?=/*' 1',) .'9 20' .',)*' >1?^ D6,' D*,8**2' 6- .' 620' < *2*/6;6' 0*.>- D*0' D ' : 1?*-% ' . ? /6-' =-6>, >*' 1D,6 2.' 2' ,)*' =-*.*2,' 06 ' 6?125' ,)*' *01; 2' -6D.% **' ' !) 6 2662' Md6-66=X' 6' ?10*' 1 ' 25/ > [25' 1-' -6,)*-' 4-.*> [25',)*' 26?*' ' 2',)*' % ' 1 ' ,)*' =1>2=)6' 620' % (%MB ;0 ,)' + ' N' R' †' 6-% ' KK† ;.% S† ' <6>>% L ' N †' >,.' + ' †' L ' RX%) 6 2662 ,*' Md6+6 76,15X' 621,)*-' 1-?' 1-' 4 (' MB ;0 ,)' ' SX%) 626? 6/% **' !) 62>*/' M 6,% ' -1?' ' 6' /6,, >*X' 2' ?10*?' ;.65*' =6-,' 1 ' 6' >) ;->)' .*,' 1 ' -1?',)*' -*.;' D '6'-6 / 25% **' $!' <10*-2' -*2>)' 8-,^ *-.' ;.*',)*' 81-0' ' 2' ,.' 1-5 26/ .*2.*' 1 '6' /6,^ , >*' 1-' .>-**2' 6.',)* ' 6==/' ',' ,1' ,)*' .>-**2' > 1' 8' 8) >)' .*=6 7,*.',)*' >)1 -' 1-' .0*' >)6=*/.' -1?' ,)*' 26+*' 1-' ?6 2' D10 ' 1 ',)*' >) ;->)% 2' 25/ .)' -1,*.,62,' >) ;->)*.',)*',*-?' >)62>*/' .'6==/ *0' ?1.,^ / ',1',)6,' =6-,' 1 ',)*' .?6//*-' >) ;->)*.' >; ;' 1 ' -1?',)*' 26+*' D ',)*' 1-' -6,)*-',)*' -6 / 25' 8)*-*' 1-^ ?*-/ ',)*' .,110% ( )*' 1-5 26/ ,*-?' >)1 -' M_% X' .' -*,6 2*0' 2',)*' /6-5*-' >) ;->)*.' 620' >6,)*0-7.%' + E ' " ' %!+ ' ' " ' L ' -!' M 120% ( )*' >)62>*/' .' -*.*-+*0' 1-',)*' ;.*' 1 ',)*' >/*-5 ' 2' ,)*' 60? 2 .,-6, 1 -' 1 ',)*-' 1 >*.' 0 ;- 25' 0 + 2*' .*-^ + >*% 2' ,)*' 4*-?62' >) ;->)*.',)*',*-?' '" / -1' ' 6==/ *0',1',)*' =;/= , '8) >)'=-1A*>,.' -1?',)*' . 0*' 1 '7' 56//*- ',)6,'6//' 2',)*' >) ;->)' ?6 ' *6. / ')*6-% ' ',)*'-;D- >' 1',)*') ;->)' 1 ' 25/620' D* 1-*',)*' 1?2?12' -6 *-' ,' .' 1-06 2*0',)6,J',)*' >)62>*/.' .)6//-*?6A2' 6.',)*' 1)6+*' 012*' 2', ?*.'=6.' ,)6,' .',1'.6 ' 0 ., 25; .)*0' -1?',)*' D10 ' 1 ',)*' >) ;->)' 2' ?622*-' 6 1-*.6 0' 656 2.,' 8) >)' 0 ., 2>, 12' ;>*-' 620' D .)1=' : 11=*-' M6,I',)*', ?*' 1 ',)*' * 1-?6, 12X' 2+* 5)*0' +*^)*?*2,/ ' 6.',*20 25'12/ ',1' ?652 ',)*'=- *.,)110† D; ',)1;5)',)*' 9 25'620',)*' 6-/ 6?*2,' */0*0' .1' 6-' 6.',1' 6//18',)*' 06 / ' .*-+ >*',1' D*' -*60' 2',)*' D10 ' 1 ' ,)*' >) ;->)' ',)*' 1-0 26- ',)1;5),' ,' *,',)*' 81;/0' 21,' .;' *-' ,)*' >)62>*/',1' D*' ,69*2' 686 ' 1-' 6/,*-*0%J' **' 25)6?',' !'6 'D9% + '>D% †' : 119' " '" ' 1' .% + %† 4 ;*- >9*' ' (& 4 '=% ' M 25 %,-62./%X%) 62>*//1-' 2(A (:' *=,% M; O 620' -,d-0+X% ( )*' 1-5 26/ 81-0'. 52 *.' 6'>1?620^ *-' 1-'/1-0' 1',)*' *0 >,.' 1-'>6; .*.† ',86.C,)*')6/0**' , ,/*' 1',)*' *-. 62' 51+*-21-' 6,' 6?6-6 'D;' .'-*20*-^ *0' 2' 1;-'+*-. 12' '>)62>*//1-J' M [-6' + 'Q R X% : ' I 8' 6' /6 ' 1 >*-' 8)1' .' A;05*' 2'6' D .)1= .' >1;-, ' ;20*-') .'6;,)1-, % ' 2' 62^ > *2,', ?*.' D .)1=.' D6O'A;-. 0 >, 12' 2'=6-, >;/6-'>6;.*.' 6.' 2' ?6-- 65*. ' 6O;/,*-7 ' /6.,' 8 //. '*,>% ' 8) >)' 8*-*' 0*,*-? 2*0' D ',)*?' 2' ,)*' -' >12. .,1- ' '>1;-.% ; ,' 8)*2' ?62 ' >12,-1+*-. *.' 6-1.*' 2' ,)*.*' 620' 1,)*-' >6;.*.' ,' 86.' 21,' >12. .,*2,' 8 ,)',)*' >)6-6>,*-' 1 ' 6' D .)1=',1' 2,*-=1.*' 2'*+*-A7/ , 5 1;.' ?6,,*-' 620',' D*^ >6?*' 2*>*..6- ' 1-',)*' D .)1=',1' 0*=;,*' .1?*' .;D1-0 ^ 26,*' 1 >*-' *L=*- *2>*0' D1,)' 2',)*' > + / 620' >6212' /68 ',1' 0*,*-? 2*' ,)1.*' *>>/*. 6.,>6/' >6;.*.' 620',) .' 86.',)*' 1- 5 26/ 1 ' 0 1>*.62' >)62>*//1-.' : *2-A7 ' 1 ' 25/620 '-*_; - 25',)*' 6,,*2062>*' 1 ' D .)1=.' 2') .' .,6,*' >1;2> /. ' 620' 1,)*-' =; D/ >' 6 6-H' ,' 86.',)1;5),' 2*>*..6- ' ,1' .;D., , ;,*' >)62>*//1-.' 2' ,)*-' -11?' ,1' 0 .=6,>)',)1.*' >6;.*.' ? 8)*-*' =-1=*-' ,1' ,)*' D .)^ 1=.' A;-. 0 >, 12% 2' 6' *8' *6-.' 6' >)62>*//1-' D*>6?*' .;>)' 6' 2*>*..6- ' 1 >*-',1' ,)*' D .)1=',)6,')*' 86.' 21,' ,1' D*' 8 ,)1;,') ?† 1-' ')*' 81;/0')6+*' 212*',)*' 6->)D .)1=' 1',)*' =-1+ 2>*' ? 5),' *2A1 2') ?',1' 0*=;,*' 12*' 620' ')1' -* ;.*0',)*' 6->)D .)1=' ? 5),' 6==1 2,' 12*') ?.*/ % ( )*' =*-.12',) ;.' 0*=;,*0' D ',)*' D .)1=') 6.') .' 6;,)1-, ' -1?',)*' /68 ' 620') .' A;-. 0 >, 12' 21,' / 9*',)6,'1 '6' '/ ? ,*0',1' 6' >*-,6 2' >6;.*.' D ;,' *L,*20.',)-1;5)1;,',)*' 8)1/*' 0 1>*.* 620',1' 6// *>>/*. 6.,>6/' ?6,,*-.† 21,' 12/ ' 1-' -* 1-?6, 12' 1 ' ?622*-.' 2' =;2.)?*2,' 1 '>-? 26/.' D ;,' 2' 6// >6;.*.' >12>*-2 25' ?6-- 65*.' /6.,' 8 //.' 60^ ?2.,-6, 12.' *,>% J' M : 119' " "' ;+ ' .% +%X% 2' 25/620',)*' >)62>*//1-' =-*. 0*.' 2',)*' D .)1=.' >1;-,' 620' .' >6//*0') .' = 2' 6.' D* 25' >/1,)*0' 8 ,)',)*' D .)1= .' 6;,)1-, % 2' -*/620',)*' >)62>*/^ /1-')6.' 21' *>>/*. 6.,>6/ A;-. 0 >, 12' 6//' ?6,,*-.' =*-^ ,6 2 25',1') .' 1 >*' D* 25' *L*>;,*0' D '6' 0 ., 2>,' 1 ^ >*-' >6//*0',)*' + >6-C5*2*-6X% ' 25)6?',' ,! 6 ' D9% ' >)% + 'g † <6-.0*2' " " ' $ '. !) 620/*-' 0 8 6-0' % %' D .)1=' 1' ;)>?' 86.' D1-2' 2' ;D/ 2' 6D1;,' S ' :*'-*>* +*0') .' *0;^ >6, 12' 6,' ?62;*/ 1//*5*' 6?D- 05*' 8)*-*')*' .1>9') .' 0*5-*' 1 ' <% %' 620' 2' SRN')*' D*>6?*' >)6=/6 2' ,1' D .)1=' /1 0' 1 ' >) *0' M6 ,*-86-0.' 1 ' & 1->*.^ ,*-X' 8)1' 56+*') ?' =-* *-?*2,' 2' D1,)' %,)1.*' >6,)*^ 0-6/.% 2' ' -')620/*-' 86.' 21? 26,*0',1' ,)*' .**' 1 ' >) */0 ' -1?' 8)*2>*' 2' N ')*' 86.' ,-62./6^ ,*0',1' ;-)6?% :*' 0 *0' 2' 12012' B ;/ ' K ,)' % ?125') .' 8-, 25.' 6-*' & ' ' ' " ' " ' L!' -!' 2' -*=/ ',1' 2,)12 ' 1/^ / 2.' M 12012' K ' Q+1X' 6' 81-9' 8) >)' >1?=*//*0' ,'BC' / 2.',1' =-10;>*' 2' K ') .' -" ' $ " ' ' &2 %" ' ' 8) >)' 1>>6. 12*0' 6' .*>120' 6-,.8*-' -1?',)*' D .)1=' *2, ,/*0' & ' N ' 'I" ' ' U ' ' KQX% : *' 6/.1' 8-1,*' 6 " ' ' $ ' .,)*' " ' ' ' =-* L*0',1' -26/0 .' 6 =' .' 620' 6' =-* 6>*',1' ;081-,) .' ' =' ! ' 1.*' 7 '; %" ' ' ' K † : 119' 6)' ; ! 1%" ' ' S % 7) 620/*-' 6? ;*/T % %' 62' *? 2*2,' 0 ..*2, 25' ? 2 .,*-' 86.' D1-2' 6,' <6/?*.D ;-' 2' SRN' 620' >1?^ =/*,*0') .' .,;0 *.' 6,' * 0*2% 2' 4')*' 86.' D/ 1.>2' ? 2 .,*-',1' 6' >125-*56, 12' 6,' *>9)6? '620' 0 ;- 25' D .' .,6 ',)*-*' 86.' 6/.1' 6' D119.*//*-% 2' Q')*' 86.' >)1.*2' /*>, ;-*-' 6, ',)*' /0' B* 8-f ' 620' 6D1 ;,' KS' =6.,1-' 6, ',)*' /6,,*-' =/6>*†',) .' /6.,' 1 >*')*')*/0' 1-^ ,' *6-.% 2' Q',)*' ;2 +*-. ,*.' 1 ' 0 2D ;-5)' 620' 4/6.518' 56+*') ?',)*' 0*5-*** 1 ' % % : *' 0 *0' < 6 ' Q' 7% ?125') .' 2; ?*-1;.' 81-9.' 6-*% $ % " ' ' $!' M 120% SQ' ' +1/.% Q+1X† &' 9 ' # ' ' ' M 120% SS' K' +1/.% Q+1X† 6' ' '1" ' " '5 ' M 120% KQ Q+1X† -" ' ' # ' ' ' M 120% NS' Q+1X† N ' ' " ' & "UL ' ' ' N ' %" ' M 120% KQ' Q+1X† %" ' ' 7 ' ' ? '% ' 6%" 1' O62.' M 120% R' ,1X† %" ' .' 6=1/15*, >6/ 8-, 25.' 6-*' ., //' 1 ' +6/;*% 2',)*1/15 ')*' 86.' 6' .*? C - 62%

' ; %" ; 1' N T /$D12* .'
'& " 'NSST :1.*' 7Y ' ; ' ' '+ ' K

)620/*-' ( )1?6.' -60D;- ' '6' -1.*.C
, 2,' = .>1=6/ ? 2 .,*-'86.'D1-2' 2' & 110.,1>9' 12',)*'
KS,)' 1' =- /' KS' 620' 5-60;6,*0' 6,' 6/*' 1//*5*' 2'
2') .' -*,;-2' -1?' 25/620' 2' ')*' *2,*-^
0' ;=S2',)' 0;,*.' 1'6' ? .. 12'6,' / [6D*,),182' 620'
& 110D-05*' B' 2',)*' 8 2,*-'1' SNC'&),* */0'
+ . ,*0' / [6D*,),182' 620' <-)620/*-' -* ;.*0') ?'
) .' =;/=/, 12',)*' 5-1;20'1' ',)*' -;/*.' 1 '1';-*>>/*. 6.^
, >6/ =1/ > %J' 2' SS')*' 86.' ?60*' % D ',)*' $2^
+*-. , '1' L 1-0' 2' S '6'>12,-1+*-. '6-1.*'D*,8***2'
) ?' 620' -)6;2> '1' 1.,12' 12',)*' .;DA*>,'1 '*= .^
>1=6> '620',)*' =6?=)/*,.' 12' D1,)' 70*.' .)18*0'5-*6,'
6D / , ()*' *+1/;, 12'0 0' 21,'*2/ .',)*'. ?=6,)*.'
1' -)620/*-' 620')*' -*, -*0',1' 25/620' 8)*-*')*'
-*?6 2*0', // Q '8)*2')*'-*,;-2*0',1' / [6D*,)')6+^
25'=-*+ 1;./ 0*>/ 2*0',)*' 6==1 2,?*2,'1 'D .)1=' 1'
1+6' >1, 6' :*' 0*0'6,' / [6D*,)' B;2*' ,)' '
='=-65;*' & 1'+' N

)620/*-' & // 6?' *22 '12*' 1',)*' ?1.,'*?^
2*2,' <*,)10.,' =-*6>)*-.' 1') .' , ?*' 86.' D1-2' 2'
)6-/*.' 1' <6- /620' B;2*' KK0' S :*' *2,*-*0'
,)*') /60*/=) 6' 12 *-*2>*' 2' R '620' //*0' 2' .;>^
>*.. 12',)*' ?1.,' ?=1-,62,' .,6, 12.' 2',)*');->)
:*',119'6' .;=*-622;6,*0'-*/6, 12 2' Q '620' /1>6,*0'
2' Q N'-*,;-2 25',1',)*' 12 *-*2>*')18*+*-' 2' QKK'
,)*' *6-' 2'8)>)')*'0 *0 .'6')-.,62'620'6'? 2C
.,*-' <-)620/*-' 86.' 6' ?62' 1 '21' 1-0 26-' ?6-9T
2',)*' =;/=,',)*' 0 + 2*;2>, 12',)6,'-*.,*0';=12') ?'
620',)*' *+625*/ >6/ *2*-5 '1') .' .*-?12.' 56+*' *?^
2*2,' .;>>*..',1') .' /6D1-.' I1 U ' 1'
KX 1*)?' ., /*.') ?' 12*' 1',)*' ?1.,'=18*- ;/
? 2 .,*-.',)6,'*+*-' 8 */0*0',)*' .81-0' 1',)*' = - J'
2' <6 ' QK ')*')60' 6' =6-6/ ,>' .,-19* :*' + . ,*0'
,)*' &*.,' 20 *.' 2')1=*' 1' D*2* ;'D;',-*,;-2*0' 21'
D*,,*-'620' 0 *0' 2')/60*/=) 6' *> Q,)' QKK ' ,'^
+*2.'# ' '"' !'6!' " "!' ' RC NT =-65;*'
& ('+ 'KQ T 1*)?'5 'U ' " 1'
>)=d T &6-*'& %" !

)625*'1' 6 ?*2, **'& !

)625*-'1'<12* '1- #4 ' 'M>=C
-*'B1)2' 'T) $ 1'<6,,'LL 'KT
<6-9'L ' T B1)2' 'X &)*2'B;0e6'D*>6?*'6'
=-1+ 2>*'1' 1?*',)*'B*8.'8*-*'-*_;-*0',1'=6 ',6L*.'
2' 1?62' >;--*2> '620'6,',)*'.6?*', ?*',)*'622;6/
,-D;,*' 1-',)*'.*-+ >*'1',)*' .62>,;6-'86.',)*')6/'
.)*9*/1 'B*8.)';>;--*2> **'0 .! 0 '*L>)625*'
,)*.*'12*' 1-',)*'1,)*-'86./>'D;.2*..'1',)*'?12^
* C>)625*-.'/9*',)*'D;.2*..'1 ?10*-2'D-19*-. (1'
1D,6 2';>;,.1?',)*',.,6,12*0',)*?.*/+*.' 2',)*'1;,*-'
>1;-,.'1',)*'(*?=/*',)*'=/6>*.'1'5*2*-6/-*.1-,'1-'
.,-625*-.'-1?'*+*-'=6-,'1'B;0*6'620',)*-'1==-*..^
+*'620'-6;0;/*2,'=-6>,>*.'=-1DB6'620',)*'.6?*'/
;.12'1',1;,'6+1;-',1'6'0*2'1',)*+*.J' *-)6=.'
,)*'8*-*'6/.1'M/9*',)*'-=6(-*7,-6,' *L>)625*-.JX
6>>;.,1?*0',1'=6'620'-*>*+*' 2,*-*.,'12'/162.'620'
,) '=-6>,>*' .'-*>152.*0' 2'<6,,'LL ' KT LL+' S'
K T B1)2' ' ',)*'=-*.*2,'06' 2' -*2,6/>,^
.' ?12N 7C>)625-.'6-*' 1;20' 2',)*' ?1.,'=;D/>'
=/6>*.' . , 25'6,'/ ,,/*',6D/*.'>1+*-*0'8 ,)'>1 2.

#!

)622*/',)*-*20*-25' 2',)*' ;,) *-.' 2'>*-^
,6 2'=6..65*.'1' ,81' :*D 81A-0.d %" +(!
,)*' '1'6'D-119'MK' 6?LL/' ST .6 L+ ' T
.6+ ' T */.*8)*-*' .,-*6?J' -+*-J'*,>X T 620'
" " ("*6' 'M .6LL+ 'KT /110J'
. L L'K X

)622 25'" '> ' %'62 *?2*2,'
$2,6-62'0+2*620')=/62,)-1=.,'8671-2'6,' *8^
=1-,')10*' ./620' =-/ ,D' Q T *2 7*0' :6-+6-0'
$2+*-.,' 2') .' ,)' *6-T 5-60;6,*0'6,',)*'65*'1'
QT .=*2,'6'=6-,'1',)*'*2.;25',81' *6-.'6.'6'=- +6,*'
,;,1-'2' >)?120' 6T -*,;-2*0',1' 6?D-05*'6.'-*C
7a*2,'M6'.;D1-0 26,*'1 >*X'2' Q T 86.'.*,,/*0'6.'=6.^
,1-'1' *0*-6/ ,-**,');->)' 1.,12' 2'B;2*' Q NT
+ . ,*0' ;-1=*' 2' QKK' D*562') .'>*/*D-6,*0'*.. 6 .'12'
< /,12' 6=1/*12'620' *2*/12'8)>)'0 ., 25; .)',)*'
>1?2*>*?*2,'1') .'/ ,*-6- '>6-**-'=-1=*-' 2' QKS'
+ . ,*0',)*' & *.,' 20 *.' 2' QN T >1?2*>*0') .'62, C
./6+*- '/6D1-.' 2' QN T 620'0 *0' >, K Q K

(1',)*' ?*->62'>1?2;,' 2'5*2*-6/)622 25'.'
>)*/'92182'6.'6',)*1/15 62'8)/*12',)*1,)*-'.0*
1',)*C ,/62,>') .' 6?*' .'>)*/',),'1'6'/,*-6-'
?62'620'6'=)/62,)-1=., ()*'>1?2'12' ?=-*..12'
,)6,')*'86.',)*/*60*-'1',)* $2,6-62'?1+*?*2,' 2'
,) .'>1;2,-' .' 6/.* ',)*'=;D/>6, 12'1') .'>*/*^
D-6,*0'.*-?12'6,',)*'1-0 26, 12'1'<- =6-9.' 2' 6/^
,?1-*' 2' Q R',)*'01>,-26/=1.,12'1'Q 6.-62.?'
86.'?1-*'5*2*-6// '?60*'92182'2',)*' ?*->62'>1?^
?;2,',)62'6,'62' 1-?*-'06,* ',) .'6>>0*2,'620'
.,//?1-*'=*-)6=.'D',)*' 6>',),)',)'/,*-6-'-*=;^
,6,12'*/*+6,*0') ?'6D1+*'6//1,)*-.'*2565*0'2',)1'
?1+*?*2,')*'D*>6?*'-*>152.*0'6.',.')*60'6/,)1;5)'
,'>1;/0'D16.,'1'*6-/*-'60+1>6,*.'620'6D/*-=1/*?^
>. :*'.'=*-)6=.'-6,)*-',1'D*'>/6..*0'8,)' 6?;*/
/6-9*'620' 1>9*'6.'6')5)' -62',)62'8,)'-*.,^
/* */.)6?'620',)*' 1>2 62.'5*2*-6// :*'.'0*^
.>-D*0'DA') .'D 15-6=)*-.' '6.'6'?*?D*-'1',)*');->)'
$2+*-.6/1',)*'/1+*-.'1'410'620' 8*-.'1 %<62%J'
;',)*') ?.*/'.6.',)6,')*')60'/125'D*6.*0',1'6,^
,6>)'62' ?=1-,62>*',1',)*'-629'1-'052,'1')-.,'
1-',1'D*/*+*'2',)*'(-2, T,)6,',)*' 0*6'1')-1,'.'
0*6,)'D*25'6'.6,.6>,12'.'218)*-*',6;5),' 7P=C
,;-*T'620',)6,'*+/'.=-,'6)+*'21'*L..*2>*' 6,62'
D*25'?*-*/'6' 5;-6,+*'=*-.126,12'1'?1-6/*+/%J'
,//'6>>1-025',1') .'=*>;/6-'+*8.'1'-*/51;.'6,)'
620'0;,A7 -)622 25'86.'6'0*+1;,'620'.*-1;.'?62'
8)1')60'6'=-1 1;20'-*+*-*2>*' 1-',)*' 6;,)1-,'1'
>-=,;-*'620'86.'6>>;.,1?*0')6D,;6// ',1'+*8'6//
,)25.' 2'>122*>,12'8,)'*,*-2,
&,)'$2,6-62.?'6.'6'..*?' ?1+*?*2,')*'
;2_:*.,126D/'0 0'21,'**/.6,.' *0' ')./6,*-'A16-.'
2' QN ')*'8-1,*'6.' 1//18.d ' '(**/,)6,'6?125'/D^
-6/)-.,62.',)'=-*6>)25')6.'D**2',M '+65;*')6.'
862,*0';2, ')6.'.>6,,*-*0'6,,*2,12',11'?;>)%J' 2'
QNR')*',);.'*L=-*..*.') ?.*/d '81;/0',)6,''>S;/0'
/119',1'$2,6-62.?'8,)'?1-*')1=*' ;',) .'.^
,*?'86.'6,',.'-*>*2,'-*+ +6/'6'=-1,*.,'1',)*';20*-C'
.,620 25'656 2.,'6D.;-0'015?6.'-6,)*-',/62',)1'81-9'
1'0**=-*/5 1;.'=-2>=/*'620'86.'*6-/ =6-6/ [*0'D'
,)*'? L,;-*'1'6'?6,*-6/=) '620'*//,11'?;>)'
2,1',)*')620.'1'.>)1/6-.'620'=1/,>6/-* 1-?*-.T 620'
,)*'>12.*_;*2>*' .'6'862,'1'+,6/,'620' 1->*'8)>)'
5+*.';.'D;',/,,/*')1=*'1' ,.'6>>1?=/.)25'?;>)';2^
0*-' ,.'=-*.*2,'6;.=>*.'1-'2',.'=-*.*2,' 1-?%J
.'6'=-*6>)*-')622 25'86.'=-*C*?2*2,',)1;5)'1'
)60'+*-' *8'26,;-6/1-6,1- >6/_;6/,*., : .'=-*.^
2>'2',)*=;/=,'86.'21,'>1?2?620 25T)*'86.'.?6//
2',.6,;-*'1*L>**0 25GE'*?6>6,*0'620'*2+*/1=*0'2'6'
.;=*-6D;2062>*'1'>/1,) 25T .')**9.'8*-*'.;29*2'
)'* *')1/18'620') .'+1>*'**D/*',)0;5)'-*?6-96D/'
/*L D/* :*'5*2*-6// '-*60') .'0.>1;-.*. ()-1;5)^
+*' .' ,) .'/125'?2.,-'),)*'86.',)*'?1.;=*1=;/6-'=>6)^
*-'2' 1.,12 2'=)/62,)-1=>*2,*-=-.*')*'86.',)*'
)6/?*-.1' ?*->6 : .'A1;-26/.'>12,6 2' /125'
/.,.J'1'=/62.' 1-'=;D/>'81-9.'D*2*+1/*2,'1=*-6^
,12.'.=*>6/-*1-?H%J' ()*.*'=/62.'2>/_0>' ..1^
>6,12.'6?125'<*>)62>.J'6' '&1-9',1'D1'8-,,*2'
12'6-0*,,' =-,.J' -*' /;D.J' 11-C)1;.*.J'
' *?6/*' ?=/1 ?*2,' 1>*,*.J' ' -1+.12.'1'
!7110'12'6'/6-5*' >6/*J' 69*C)1;.*.'1-',)*' 11-J'
..1>6,12.' 1-',)*' */*'1',)*' >9' /0' *D,C'
1-.J' '1>*,*.'1-',)*' 0+>*'1' ?5-62,.'1-',)*'
1-?6,12'1' -1.,.;,.',)*' ?=-1+*-)*2,'1' -^
>62.J'*,>% :./D*-6/,'86.'21,'D1-0*0'2' 9
'=/62.'1'5110'D;,') .'=*-.126/>)6-,*.'8*-*'5-*6,%
:./6,*.,'620'?6,;-*.,'..*25,)'86.'0*+1,*0',1',)*'
0.>;..12'1' ?*->62'./6+*- '620'21'8-,*-')6.'
,-*6,*0',)*'.;DA*>,'8,)'?1-*'>6201-'1-'?1-*'?=-*..^
+*'*/1_;*2>*% :./',*-6-'-*=;,6,12'*.=*>6//'2'
25/620'86.'.>6->*/'=-6-//*/*0'D',)6,'1'62'1',)*-

American author of his time. He possessed the best elements of immediate success as a writer—a poetic temperament, and a style of remarkable transparency and power. The greatest faults of his style are repetition and expansion, the fine gold being often beaten out into very thin leaf. Channing's works were reviewed by Macaulay in the *Edinburgh Review* (vol. lxix, p. 214), and a graphic sketch of him is given by Stevens in the *Methodist Quarterly Review* (Jan. 1849, art. iv), from which the present article is condensed. His *Works* have been published in Boston in 6 vols. 12mo (reprinted in England). Many of them have been translated into German (Berlin, 1850–55), also into French, with an Essay on his Life and Writings, by Laboulaye.—*Memoirs and Correspondence of Channing* (Bost. 1848, 3 vols. 12mo); Ware, *American Unitarian Biography*, ii, 139; Sprague, *Unitar. Pulpit*, 360 sq.; *British Quarterly*, Nov. 1848, art. i; *Literary and Theological Review*, i, 304; *N. American Review*, xli, 366; *Democratic Review* (Bancroft), xii, 524; *Westminster Review* (J. Martineau), l, 317; *Edinburgh Review*, lxix, 214; Allibone, *Dict. of Authors*, i, 367.

Channunæ'us (Χαννουναῖος), given (1 Esdr. viii, 48) as a person, several of whose "sons" (there named) were among the priests or Levites secured by Ezra to accompany his party to Jerusalem; corresponding apparently to MERARI of the Heb. text (Ezra viii, 19).

Chant (פָּרַט, *parat'*, to *chatter*, spoken contemptuously: Sept. ἐπιχαράσσω) occurs only in Amos vi, 5, where the passage, "That *chant* to the sound of the viol," may be rendered, "That sing to the sound of the harp." The Chaldee, Syriac, and Vulgate read, "who sing to the sound of the psaltery;" and the margin of our version gives "quaver." Josephus informs us that the instrument here termed *nebel* was of a triangular shape, and carried in the hand. In the paintings on the monuments at Thebes we find players on the harp in the act of singing to the sound of their own music. (See the cut below.) Similar scenes are depicted on the Assyrian monuments. See MUSIC. Both among the Jews and the Egyptians musical instruments were chiefly played upon by women: the Psalmist, describing a musical procession, says, "The singers went before, the players on instruments followed after; among them were the damsels playing with timbrels" (Psa. lxviii, 25). See HARP.

CHANT (*cantus*, a song), the word employed in the early Church to designate the vocal music of the congregation. The term was applied, later, to special tunes adapted to prose; e. g. the *Ambrosian*, established by St. Ambrose, and the *Gregorian*, introduced by Pope Gregory the Great, who established schools of chanters, and corrected the Church music. This, at first, was called the *Roman* song; afterwards the *plain* song, as the choir and people sing in unison. In modern liturgical worship, the word designates the musical

Ancient Egyptians (men and women) singing to the Harp, Lyre, and double Pipe.

performance of all those parts of a prose liturgy which are permitted to be sung or recited in a musical tone. In a wider sense, it is used to denote those forms of sacred music in which prose (e. g. passages of Scripture) is sung in simple harmonies. See MUSIC.

Chantry (old French *chanterie*, from *chanter*, to sing), an ecclesiastical benefice or endowment to provide for the chanting of masses for the repose of the souls of the founders. Money was often left also for the building of a chapel in which the masses were to be chanted, and hence the term was applied also to such chapels. They were sometimes built in or near a church, but more usually were attached to an abbey or monastery, and were frequently very richly decorated.

Chanuca. See DEDICATION (FEAST OF).

Chaos, a term taken from the Greek mythology, according to which Chaos was the first existence and the origin of all subsequent forms of being (Hesiod, *Theogon.* 116; Ovid, *Metamorph.* i, 5). The word itself (in Gr. χάος, immeasurable *space*) signifies the vast void, or the confused mass of elements from which it was supposed by the ancient philosophers that the world was formed. It has been employed in later times to denote the unformed mass of primeval matter described by the sacred historian in Gen. i, 2, corresponding to the Heb. words תֹּהוּ, *to'hu*, and בֹּהוּ, *bo'hu*, *a waste void*, *a desert*, *a waste solitude*, rendered in the Sept. ἀόρατος καὶ ἀκατασκεύαστος, *invisible and without order*. These two words, combined for the sake of the paronomasia into the phrase תֹּהוּ וָבֹהוּ, in which the repetition of similar terms is a Hebrew method of designating intensity or superlativeness, signify simply *utter desolation*.

The description which Ovid (l. c.) gives of Chaos itself, and of the formation of the world from the chaotic mass, is very remarkable. The following is a literal version:

> Ere sea, or land, or sky, that covers all,
> Existed, over all of nature's round
> One face there was, which men have Chaos named—
> A rude, unfathomed mass, with naught save weight;
> And here were heaped the jarring elements
> Of ill-connected things. No sun as yet
> His rays afforded to the world; the moon
> Filled not afresh her horns by monthly growth;
> Nor hung the globe in circumambient air,
> Poised by its balanced weight; nor had the sea
> Reached forth its arms along the distant shore.
> Where'er was earth, there also sea and air;
> No land to stand upon, no wave to swim,
> And rayless air. Nothing preserved its form:
> Each thing opposed the rest; since in one frame
> The cold with hot things fought, the moist with dry,
> The soft with hard, and light with heavy things.
> *This strife the God and kindly Nature quelled*,
> By cleaving sky from land, and land from sea,
> And parting liquid sky from thicker air.
> These thus evolved and from the blind mass drawn,
> Disjoined in space, were tied in friendly peace:
> The fiery force of heaven's weightless arch
> Leaped forth, and chose the topmost point its seat;
> The air comes next in gravity and place;
> The denser earth drags down the bulky parts,
> Crushed with its weight; the water, flowing round,
> The outskirts held, and bound the orb entire.

"This statement bears so many striking resemblances to the Mosaic account of the creation that one can scarcely fail to regard it as having been derived by tradition from the same source. There is, however, this great difference between the scriptural and the heathen cosmogonies — that the former sets out with the emphatic declaration that the unformed mass was the creation of God; while the latter speaks of it as the already existing materials out of which he formed the world, or even as itself the cause and author of all things. Most interpreters, who have been ignorant of geological phenomena, have at once decided that the chaos of which Moses speaks was the form in which

?6,,*-' 86.' -.,' >-*6,*0 1?*)6+*' 1+*2' 0*>/6-*0' ,)6,',)*-*' >6221,')6+*' D**2' 62E' .;>)' 2,*-+6/ 6.' 8*')6+*' .=19*2' 1 'M -1 ,;6-,' 2' ; !'5 % ! 1 LL ' B62 QNSX ;,' 12',)*' 1,)*-')620',)*' 81-/0' 5 +*.' 2, ?6, 12. ' 2',)*' -1>9.' 8)>)'>1?=1.*' ,.' >-;.,' 1 ' +6- 1;.-*' >6221,')

) 6 = ,* -' "1' " !' 6.' ,' .' ; . ; 6// '-*20*-^ *0' D ; ,' 2' ,) *' 6>>1 ; 2,' 1 ',) *' (* ? = /*' ,' .',-62./6,*0' ,1= J' 1.' ' 25.' + ' S' *,>%H 1-' / ' 6.' ,' .' >6//*0' 2' ?10*-2' 6->) ,*>,;-* ' .',) *' ;==*-' 1-' 1-26^ ? *2,6/ =6-,' 1 '6' >1/ ; ? 2' M L10%LL+ 'NQT' LLL+ ' ' R KQX' 2' !8) >)' =6..65*.' ,)1.*' 1 ',) *' (6D*-26>/*' 6-*' .=19*2' 1 ' 6.' D* 25' 1+*-/6 0' 8 ,)' 51/0% **' o L !' 2' ' 25.' + ' R',) *' >)6= ,*-.' 12',) *' ,1=.' 1 ',) *' = //6-.' 8 *-*' 1-?*0' 1 ' / / ' 8 0 9%J' **' (4' : % ' >1 ? =6- 25',) *.*' 0*.>- =, 12.' 8 ,)' ,D*' -*.' ? 6 2.' 1 '62> *2,',*?=/*.' 2' 5 =,'18* 20',) 6,' ,' 86.' ,) *' =-6>, >*',1' 5 /0' 620' =6 2,' ,) *' >1/ ; ? 2.' 1 ' +6- 1 ; .' >1/1-.% ()*' '1-' / / '1-26 ? *2,`86.' 6/.1' 6' 6+1-.' 2' 5 =, 62' 6->) ,*>,;-% **' + ! ' ? 1-*' 0 .^ , 2>, +*',*-?',) ; .'-*20*-*0' .' I (%" ' / ,*-6// ' .1 ? *.,) 25' 8' 8) >)' 1>>;-.' 2' K')-12% ' ' *+ 0*2,/ ' 2' ,) .' .*2.*% 2' 6// 1,) *-' =6..65*.' ,) *' />D% 81-0' ,) ;.' -*20*-*0' .' ,) *' .=*> >' 12* I" " (+' / ,*-6// ' 6' 8' 8) >)' 2' ,) *' >6.*' 1 ' ,) *' 62>,;6- '86.' 1 'D-6..'620' 2' .1 ? *' 2.,62>*.' 0*>^ 1-6,*0' 8 ,)' 6-, >6/ =1 ? *5-626,*.' MB*-%/ 'KKX% **' ' $!' ' ()*=-*+6/*2,' 0*6' 1 ',) *' : *D-*8' ,*-?' .%,) *' '1 ',) *' 1-?.' 8) >)' >)6-6>,*- [*0' ,) *' >6= ,6/.' 1 ' ,) *' 5 =, 62' 620' .. - 62' >1/ ; ? 2.' M -.,' 2 " !' ' =% S NX% ()*" " " >12. .,*0' 1 ',81' =1-, 12. ',) *' >-182' 1-'/*05*' M 2' 8) >)' .*2.*' ,' .' 6==/ *0',1' ,) *' 6+*-' c_' +%h' ' 25.' + ' N X' 620',) *' 7=1 ? ? */' 1-' ,; -D6 C.)6=*0' D18/ D*2*6,)'M2D X% >^ >1-0 25' % *+' D*2C4*-.)1 ? ' ,) .' >)6= ,*-' -6,) *-' -*.*?D/*0'6' =6 -'1 '>-182.' 1-'>6=. ' .'1A1 2*0'6.' ,1'I 1-?' 62' 1+6/ 5 ;-*' 1 ' +*' >;D ,') 5) ' D ;/5 25' 1 ;' 6// 6-1 ; 20' D* 120',) *' D-*60,)' 1 ',) *' >1/ ; ? 2' 8) >)' ,' . ;-^ ? 1 ; 2,*0' 21,' ; 2/ 9*' 6.' 8*' ? 6 ' . ; ==1.*' ,) *',-; 2>6,*0' /1,; .CD ; 0' >6= ,6/.' 1 ',) *' 5-620' = //6-.' 1 ',) *' <*? 212C ? ' ( ) *D*.' M.*' - ,) .' 6 % ' ' '

=6.,1-' 6,' 4-1,12 ' B62%' ' Q ' 620' -*?6 2*0' 2' ,)*' .6?*' >)6-5*' 1-' , ' *6-.%' / .' 5-*6,' = *, ' 620' 0*^ > . 12' 1 ' >)6-6>,*-' 56+*') ?' 5-*6,' 2 /;*2>*' 2' ,)*' ..1-? ', ?*.' 1 ',)*' *+1/;, 12 ' 620') .' /125' ? 2 .,- ' 86.' 6>>*=,6D/*' 620' ;.* ;/ ' ;2, / ',1 8 6-0' ,)*' >/1.*' 1 ') .' / *' =6-,' 1 ') .' >125-*56, 12' >)1.*' 6' $2 ,6- 62' ? 2 .,*-%' : *' 0 *0' 2' =*6>*' 2' QN % ' =-65;*' & 9 1' ' %) 6=/ 2 ' B*-* ? 6) ' % %' 6' 6=, .,' ? 2 ..*-' 86.' " %*! 6,' 4*1-5*,182'M,)*2' 18/* X' <6..%' B62%' K' ST' 5-60;6,*0' 6,' / -18 2' $2 +*-. , ' 2' R' 620' ,119' >)6-5*' 1 ',)*' 6=, .,');-)' 2' 62+*-. ' <6..%' 6D1;,' Q K% 2' Q ')*' D*>6?*' =- 2> =6/ 1 '6' ,)*1^ /15 >6/ .>)11/ 2' & 6,*-+ //*' <*%' 1 ' 8) >)' 6 ,*-' ,.' D* 25' >)6-,*-*0' 6.' & 6,*-+ //*' 1//*5*' 2' QK ')*' 86.' */*>,*0' -*. 0*2,%' : *')*/0' ,)*' 1 >*' ,) -,**2' *6-.' 8 ,)' 5-*6,' .;>>*..%' : *' 86.' ?60*' % %' D ',)*' 1//*5*' 1 ' 1;,) 6-1/ 26' 2' Q R% 2' QNN)*' -*. 52^ *0' ,)*' =-*. 0*2> ' 1 ',)*' >1//*5*' 620 ' 6 ,*-' =-*6>) 25' 1-' .1?*' , ?*' 6,' 18/* ' <6..%' 620' 6,' & // 25,12 ' 122% ' 26// ' .*,,/*0' 6,' : 6? /,12 ' % %' 8)*-*')*' 0 *0' . ;00*2/ ' <6 ' ,) ' Q % -%')6=/ 2' = ;D/ .)*0' -" ' 6 ' ' :' 1' " ' ' ' ' " ' $" ' ' ' <! ' =-65;*' & 1' + ' SNT' 6,, .12 ' 6 ' ' ' !' " % 1' 1.,12 ' Q N%) 6=/ 2 ' B 1 2 6,) 6 2 ' : %' 6' <*,)10 .,' = .>1=6/ ? 2 .,*-' 86.' D1-2' 2' 122*>, >;,' 2' QR' 86.' >12+T* ,(' >0I 2' QN 7 620' *2,*-*0',)*',-6+*// 25' ? 2 .,-' 2',)*') 1' 12 *-*2>*' 2' QN % : *' 86.',)-**' *6-.' =- 2> =6/ 1 ' 1-86/9' *? 26- ') 1 ' 620',)*2'-*?6 2*0' 2',) *, 2*-62,' 81-9' 2') 1',//' Q '8)*2',)*' -*?1+*0',1' ,/*' < >) 562' 12 *-*2>*' 620' 86.' ?60*' =- 2> =6/ 1 ' &),*' 5*12' D-62>)' 1 ',)*' <>) 562' $2 +*-. , % /*-*') *' -*?6 2*0' ;2, /) .' 0*6,)' 2' Q S% &) /* 1;25',)*' .,;0 *0' /68' 2',)*' ,6,*' 1 ' *8' 1-9 ' 620' 0;-25',)*' 86-' 1 ' Q K' 86.' 6 BC0>C>6?=' ,1' 4*2*-6/ 1-,*-%' 112' 6 ,*-',)*' =*6>*') *' .*,,/*0' 6,' $-D626 ') 1' 8)*-*') *' =-6>, >*0' /68' , //') .' >12+*-. 12% 2' ,)*' >6;.*' 1 '*0;>6, 12') *' 86.' 1 '/6., 25' .*-+ >*' 620' D*2* ' ,1',)*') ;->)' 2') 1' 620' < >) 562% : ' >6-*' 1 ',)*' 2., ,;, 12.'>1? ? ,,*0',1') ?' 86.'+*-. '.6,^ . 6>,1- % : .' /6.,' 81-0.' 8*-*' +*')1/ 2*.. ' 620' AV->6>)' ,' -1?',)*')*6-,%J ' ' ' +' Q%) 6=?62' M7722' D' " = (1' ' " '* 1' ' %*% 1-' =;-=1.*.' 1 ',-6 >X' 6' ,-60*-' 8)1' ,-62.=1-,.' 6-, >/*.' 1 '>1?? *->*' -1?',)*' =/6>*' 1 '=-10;>, 12',1' 6' ?6-,'MK')-12F L' XT' 6' ?*-^ >)62,(?62'6.',)*' .6?*'=)-6.*' .'-*20*-*0' 2',)*' =6-^ 6//*/=6..65*'M' 25.' L f X% **' ! !) 6=?62' (· ' % %' 62' *? 2*2,' 25/ .)',)*1^ /15 62' 86.' D1-2' 6,' ,-6,) */0.6 *' 2' T .,;0 *0' 6,' 25 .' 1//*5*' 6?D-05*' 620' 2' NR' D*>6?*'-*>^ ,1-' 1 ' <*-.)6-6' 2' *2,' -1?' 8)*2>*' 2' ') *' 0.' ?1+*0',1',)*' -*>,1-.) =' 1 ' /0*-,12% : *' 6 ,*-86-0.' D*>6?*' 6->)0*6>12' 1 ' ;0/?-E 7620',-*6.;-*-' 1 ') ^ >)*.,*-' 620' 0 *0' >,% Q % ()*%?1.,' ?=1-,62,' 7' 1 ') .' 81-9.' 6-*d 6 :' ' " ' ' " (' ' 9 ' ' ' ' ; "' ' " ' " %" ' \D ' -% <1-562h' M NRC ' K' +1/.% Q+1XT' 9 ' - ' ' '& 4 ' ' ' ' "' & ' M 120% N' Q+1XT' 6 % ' ' 9 ' ' ' ' ' " ' %' " 9 ' ' " ' ' ' " ' &% ' M 120% K ,1X% ' 6-/ 25' % ' ; " %" ' ' SNKT' :119' 6 !' ; %" ' 'S % / 6==*/' " ' % %' D .)1=' 1 ' 1-9' 86.' D1?' 6,' *L 25,12 ' 1,, 25) 6A2.%' *>% ' QK' 620' 86.' *0;>6,*0' 6,' <62. */0' -1?' 8)*2>*')*' -*?1+*0' ,1')- .,.' 1//*5*' 6?D-05*' 8)*-*')*' 1D,6 2*0' 6' */1 8.) =% ',)*' 6+1-' 1 '6->)D .)1=' 6;0')*' 86.' ?60*' 0*62' 1 ' 6.)*/' -*/620' 2' SNN' 620' .112' 6 ,*-' =-1+1.,' 1 ' (-2 , ' 1//*5*' ;D/ 2' I 2' SNQ')*' 86.' ?60*' D .)1=' 1 ' 1-9% : *' .;*-*0' ?62 ')6-0.) =.72' ,)*' *D*// 12' 620' 12' /620 25' 2' 25/620%86.' .*2,',1' =- .12 'D;,'.112' 1D,6 2*0') .' / D*-, % : *' 0 *0' 6,' *-^ D ' 2' S R' : *' 8-1,*' " ' " ' M 12012 S Q%'620'&' - ; ' ' " ' 2 ' '# '$ % 'M 12^ 012' S N Q+1X% ()*' " ' ' ' ')6.'6/.1'D*'2' 6.>- D*0',1I) -6'D;,' 8 ,)1;,'=-1D6D / , % ->)D .)1=' $.)*-' 620' D .)1=' <6-, 2' 1==1.*0')?' 12' 6>>1;2,' 1 ') .' 6==6-*2,' /*62 25' ,1' 1?62 .,'+ *8.' 1 '0 .> =/ 2*% ' : 119' " "' ' 'S T == .';%2 1' ; ' ' NR%) 6==*/1 8) ' % %' %62' *? 2*2,' - *2,^ 6/.>)1/6-' 86 7D1-2' 2' 25/620' 2' QN% : *' 86.' *0^ ;>6,*0' 6,' ,%B1)2 .' 1//*5*' 6?D-05*' >)1.*2' *//18' 2' '620' D*>6?*' -6D >'=-1 *..1-' 2',)6,';2 +*-. , ' 2' K % : *' 6/.1' 1D,6 2*0',)*' / + 25.' 1 ' 4-*6,' 620' ,,/*' : 1-?*60% : *' 0 *0' 2' SQ% .'=- 2> =6/ 81-9.' 6-*' & ' ' " ' ; +' 'D ' ' " "' ' 9 ' " '# '- ' '6 "' - 'M 6?D% SK K' +1/.% ,1X' 6 '2 '& 'M N Q+1X' $ '& ' ' ' ' ' ' ' ' ' ' '& 'M S 'Q+1X% ' 6-/ 25' $ *V1C % ' ; " %" ' ' NNT' 1.*') ' ? !' ; ! ' ! E 1 !') 6=,*-' 62' 6DD-*+ 6,*0' 1-?' 1 ',)1' 81-0' " %9 'M_%' +%X' " '%*% 5% 1 '6'>1/;?2% : ('0. ' ' ? ? ' (D*' =-*.*2,' 2;?*-6/ 0 + . 12' 1 ',)*' >-=,;-*.' 2,1' " % '620' ' .' 2' .1?*' -*.=*>,.' 1 '>1?=6-6,+*/ C-*>*2,' 1-5 2% ()*' *2,6,*;>)' 86.' 0 + 0*0' D ',)*' B*8.' 6,' 62' *6-/ '=*-^ 10' 2,1' , C 1;-' M-2 N2 Xb.*>, 12.' 12* 1' 8) >)' 86.' -*60' 2' ,)*' . 26515;*' *+*-' 6DD6,)' 06 'M >,.'O ' X% ()*.*' .*>, 12.' 8*-*' .;D0 + 0*0' *=-1D6D/ 'D ',)*' <6.1-*,*.' 2,1' SSR' ' 1-' 1-0*-.% ,*-',)*' -*60 25' 1 ',)*' /68' ,' 86.' 6/.1' >;.,1?6- ' -1?' 62' *6-/ '=*- 10',1' -*60' 6' =6..65*' -1?',)*'=-1=)*,.' 620' 8 ,)',)6,',1'0 ..1/+*',)*'6..*?^ D/ % ;>)'=6..65*.' 8*-*' >6//*0' + %" "' M 7/ B X' b0 .? .. 12.' 620' 6==*6-',1')6+*' D**2' .*/*>,*0' 6>^ >1-0 25',1',)*' >)1>*' 1 '62 '-*60*-' M >,.' L ' T' LL+ ' NT' ;9*' +' SX% ()*' 0 + . 12.' 1-' .*>, 12.' 1;20' 2',)*' 4-**9' 620' 6, 2' ?62;.>-=,.'6->'0 *-*2,' -1?',)1.*' 1',)*' :*D-*8' D119.' ,)*' '6-*' 1 ';2*_;6/ 620' 6-D ,-6-'/*25,)' 620' +*-'0 *-*2,' -1?',)*' >)6=^ ,*-.' 2' 1;-'=-2,*0' D/*.' 1' 6/.1',)*' D119.' 1 I,)* *8' (*.,6?*2,' 8*-*' 0 + 0*0' 6,' 62' *6-/ '=*- 10' 2,1' >*-,6 2' =1-, 12.' 8) >)' 6==*6-' ;20*-' +6- 1;.' 26?*H% ()*' 0 + . 12' 2,1' >);-)' /*..12.' -*60' 2' ,)*' 6..*?^ D/*.' / 9*',)*' .*>, 12.' 1',)*' /68' 620',)*' =-1=)*,.' C+f6: ,)*' ?1.,' 62> *2,% ;D.*_;*2,/ ',)*' *8' (*.,6?*2,' 86.' 0 + 0*0' 2,1',81' 9 20.' 1 '.*>, 12.' >6//*0' 'I -d1MX' 620' " % 'M >*72d2 2'b *2> 1X% ()*' 8*-*' =1-, 12.' 1 ',)*' 41.=*/.' 8 ,)' .;?? 6-*.' =/6>*0' 6,',)*' ,1=' 1-' D1,,1?' 1 ',)*' =65*%)>' " % ' 8*-*' 0 + .^ 12.' 8 ,)' 2;?*-6/ 21,6, 12.' * / ' 606=,*0',1',)*' 41.=*/)6-?12 '1 ' ?? 12 6.% ,)*-'.*>, 126/ 0 + .^ 12.' 6-*' 1>>6. 126// ' .**2' 2' A 62;.>-=,.' 8) >)' 6=^ =*6-',1')6+*'+6-*0' 6,'0 *-*2,/ '.*' 620' 2'30 *-*2,' >);->)*.'6>>1-0 25/ '6.' *., +6/ 06 .' 8*-*' ?;/, =/ *0% ** 8 ! ()*' 2;?*->6/ 0 + . 12' 1',)*' /0' 620' *8' (*.,6^ ?*2,.' 2,1' ?10*-2' " % ' .' D ' .1?*' 6.>-D*0',1' 62 -6 >' 8)1' 86.C 6->)D .)1=' 1 ' 62,*-D;-' 2',)*' -* 52.' 1 '& // 6?',)*' 12 ;*-1-' 620' /$6?' 8) /* 1,)*-.' 6,,- D;,*' ,',1' ,*=)*2' 625,12' 8)1' CP+6.' 6->)^ D .)1=' 1',)*' .62Y' .**' 2',)*'-* 52.' 1 'B1)2' 620' :*2- % ' ,.' 6;,)1-.)=')18*+*-' .' ;.;6// ' 6.. 52*0',1' ,)*' .>)11/?*2' 8)1' 8 ,)' >6-0 26/ :;5)' 1 ' ,%)*-' 8*-*',)*' 6;,)1-.' 1',)*' 12>1-062>*' 1-' D>' 6, 2' ;/^ 56,*' 6D1;,' % % K % () .C>6-0 26/ 8-1,*'-* ?6-9.' 1-' ' 6.7,)*' 81-*' >6//*0' 12' 6//' ,)*' D1195' 1 ' >-=,;-*T' 620',) .' 6, 2' D/*' =;D/ .)*0' D ' ' .' 5*2*-6// ' .;==1.*0',1' D*',)*' -.,' D/*' 0)00*0' 2,1' ,)*' =-*.*2,' >)6=,*-.%' !*' >6-0 26/ : ;?6D1-,' 6D1;,' 6D1;,' .*2,' >)6=,*-.%' R' >,.*.',)*' K,)' 620' N,)' >)6=,*-.' 1' L10;.' 620',)*' KN0' 1' *+,>;.'6>>1-0 25',1' 1;-'=-*.*2,' 0 ^ + . 12' 1' >)6=,*-.%)1*+*-' 86.',)*' 6D,)1-' -1?' 6D1;,',) .'=*- 10',)*' 0 + . 12' 1',)*' .*+*-6/ D119.' 2,1' >)6=,*-.' 86.' 5-60;6// '601=,*0' 2',)*' 6, 2' 620' 1,)*-' +*-. 12.I T' 620' 26// ' 2',)*' :*D-*8' 8 ,)' 6' *8' +6C %

26, 12. ' 620' 6/.1' 2' ,)*' 4-**9' ,*L,% ()*' .*+*-6/ .6/? .' 8*-*' 21,' 2>/;0*0' 2',) .'0 + . 12% **' · ! : (' 6.' 62' *>>/*. 6., >6/ ,*-? ' ,)*' 26?*' 1 ' 6'>1-=1-6, 12' 1 '*>>/*. 6., >. ' D1; 20' D ' >6212 >6/ -;/*. ' 620' 5*2*-6// ' 6,,6>)*0' ,1' 6' >6,)*0-6/% ()*' 26?*' >)6=,*-' 6-1. *' -1?',)*' 6>,',)6,',)*' -.,' >1? ?;,2 , *.' 1 '>6212.' M_% +%X 8*-*' >6//*0' ,15*,)7*-' 06 / ' 2' 6' >1?^ ?12')6//',1')*6-' 6' >)6=,*-' 1 ',)*' D/*' 1-' 1 ',)* -' >1? ?12' -F/*. ' -*60' 6/1;0% ()*')6//)*2>*' >6//*0' ,)*')6=,*-' 1-')6=,*-C)1;.*' M_% +%X ' 620' ,)*' 26?*' 26// ' =6..*0',1',)*' D10 ' 1 '*>>/*. 6., >.' 6..*?D/ 25' 2' ,% - 5 26// ',)*' =-1=*-, ' 1 ',)*' >)6=,*-' D*/125*0' ',)*' 0 1>*.*' 620',)*' ?129.' 1-' >6212.')60' 6' >1? ?12/ *' 620' 9*=,' .,- >,' 1D*0 *2>*% 1-=1-6, 12.' 1 ',) .' 9 20' -6= 0/ ' ?;/, =/ *0')18*+*-' 620' .112' D*562' ,1')6+*' 8*6/,)' 1 ',)*' -' 18 2T D77,)*' K,)' >*2,;- ',)*.*' (*% ' =<1 '6,,6>)*0',1'6/?1.,'*+*- '.**% ()*' 21? 26, 12' 1 ',)*' D .)1=' */' ,1' ,)*' >)6=,*-' 620' ,) .' 86.' 6//18*0' D ',)*' =1=*.',) ;.' *2/6-5 25' 5-*6,/ ' *=18*-' 1 ',)*' >)6=,*-' 620' 0 ? 2 .) 25',)*' 6;,)1- ^ ,'1',)*' D .)1=' 1+*-' % ()*' 21D$, '1 ' ;-1=*' 1;20' ,)*' >6212- *.' - >)'620',)*' >)6=,*-.' 8*-*' ?60*' .1;->*.' 1 ' 2>1?*' 1-',)*-' >) /0-*2 ' 8)1' 2' .1?*' 0 1>*.*.' //^ *0' *+*- ' .,6//% ()*.*' ' >6212.' 6D.1-D*0',)*' -*+*2;*.' 1 ',)*' >)6=,*-. ' 620' 6==1 2,*0' + >6-.' ,1' 01' ,)*' 81-9% ()*' 1;2> / 1 ' (-*2,' 2,-10;>*0' ?62 '-*^ 1-?.' M.*..% KN K X ' 2' Q N',)*' >)6=,*-. ' 6.' >1-=1-6^ , 12. ' 8*-*' 6D1/ .)*0' 2' 1;,)' 4*-?62 ' 620' 2' Q ' 2' -;.. 6% f)6,*+>-' - 5),.',)*' >)6=,*-.' 218')6+*' 6-*' D6.*0';=12',)*' >6212' /68 ' 620';=12',)*' .=*> 6/ /*5 .^ /6, 12' 1 '*6>)'>1;2,- ' 2' 8)>)',)*' '*L .,% 2' 8 ,[^ *-/620 ' -;.%. 6 ' 620' 1,)*-' -1,*.,62,'>1;2,- *.' 1 ' 4*-^ ?62 ',)*' >)6=,*-.')6+*' -*>*+*0',)*' - 5),' 1 '*/*>, 25,' ,)*' D .)1=.' 8)1' 2' ?1.,'1',)*' 1?62' 6,)1/ >1;2^ ,- *.' 6-*' 6==1 2,*0' D ',)*' .1+*-* 52.% 2' 25/620',)*' >)6=,*-' 1 ' 6' >6,)*0-6/ >);->)' >12^ . .,.' '1 '=*-.12.' *>>/*. 6., >6/ ' >6212.' 620' =-*D*206^ - *.' 8)*-*1 ',)*' 0*62' .' >) * ' 6// .;D1-0 26,*' ,1' ,)*' D .)1=',1' 8/ 1?',)* ' 6-*' 6.' 6.. ,62,.' 2' ?6,.*-.' -*^ /6, 25',1',)*' >);->)' 1-',)*' D*,,*-' 1-0*- 25' 620' 0 .^ =1. 25',)*-*1 '620' 1-' >12 -?6, 12' 1 ',;>)' /*6.*.' 1 ',)*',*?=1-6/ , *.' 620' 1 >*-.' -*/6, 25',1',)*' D .)1=-> 6.',)*' D .)1=' -1?',?*',1',?*' .)6//)6==*2' ,1' ?69*J' M :119' .% +%X ()*' 0*62' 620' >)6=,*-')60' 1-?*-/ ',)*' - 5),',1' >)11.*' ,)*' D .)1=' 2' 25/620' D;',),6,' - 5),' 86.' 6..;?*0' D ' :*2- ' ' 6.' 6' =-*^ -156, +*' 1 ',)0' >-18 2% 2' 4*-?62 ' ;,)*-' ?60*' 62' 6,,*?=,',1' =-*.*-f *',)*' >)6A ,*-.' 6.' *>>/*. 6., >6/ >1-^ =1-6, 12.' D;',.112' ?1.,'1',)*?'/1.,'6/,15*,)*-',)*-' *-' *>>/*. 6., >6/ >)6-6>,*-' 620' 2*6-/ ' 6// 1',)*?',=*-^ .)*0' 6,',)*' D*5 22 25' 1',)*'=-*.*2,'>*2,;- % ' *8' >)6=,*?'/9*',)1.*' 1 ' :6/D*-.,60,' < 20*2' 620' .26C D-;>9')60' D1,)'/7-1,>.,62,' 620' 1?62' 6,)1/>'>62^ 12.' 620I' 2' .26D-;>9' *+*2',)*' *//*>, 12' 1',)*' D .)1=')60',1' 6/,*-26,*' D*,8*** 2',)*',81' 0*21? 26, 12. ' ' : *-[15' 5 26 " % ' ' S ' ._%T -.>)';% 4-;^ D*-' 6 %! LL+ ' NQN ._%5' ** g ! : (' (: ' (: B '6', ,/*' 5 +*2',1',)-**' =1 2,.' MV> 0f2,1' % 8' >120*?2*0' D ',)*' ,)' 1;2> / 1 ' 12.,62, 21=/*% ()*' 8*-*' ' ()*' =*-.12' 620' 8-, 25.' 1 ' ()*101-*' 1 ' <1=.;*., 6T K% ()*' 8-, ^ 25.' 1 ' ()*101-*,' .1' 6-' 6.',)*' 8*-*' 0 -*>,*0' 656 2.,' - /T N% ()*' /*,,*-' 1 ' D6.' 1 ' 0*..6',1' <6-.' >12^ >*-2 25',)*' 1;2> / =)*.;% ()*' *?=*-1-' B;.^ ,2 62' ;20*-.,)*' 2 /;*2>*' 1 ').' 8 *' ()*101-6' 8)1' 86.' 6,')*6-,' 6' <121=) .,1' 620' 1 ' ()*101-*' D .)1=' 1 ' 6..6-*6' =;D/ .)*0' 62' *0 >,' % % ' 2' 8)>)',)*' 6D1+*' 8*-*' >120*?2*0% ().' *0 >,' 86.' . 52*0' D ' ?1.,' 1 ',)*' 6.,*-2' D .)1=. ' D;,' 86.' 1==1.*0' D ',)*' - >62' 620' & *.,*-2' D .)1=. ' *.=*> 6// ' D ' 5 /;.' ,)*' 1?62' =12, ' 8)1' 86.' 1-0*-*0',1' 12.,62, 21=/*' M % % X' 620' 1D/ 5*0',1' 5 +*' 6' 8-,,*2' 0*>/6-6, 12' ID " 8'6==-1+ 25',)*'>120*?26, 12' 1 ',)*' ()-*'*)6=,*-. J' ()*' 8*-*' 6 ,*-86-0.' >120*?2*0' 62*8' D ' B;., 2 62' % % S ' 620' D ',)*' ,)' 1;2> / 1 ' 12.,62, 21=/*' % % S N% -% >)6 ' -*?6-9.' M X',)6,',)*' '>12,-1+*-. '1',)*' ()-**')6=,*-.')6.' //*0'?1-*'+1/;?*.',)62' ,' .'81-,)'/2*.%J 'C<1.)*?' "!'# !'>*2,'+ '=,% ')% 'g' 21,*T >)6/I' "!' # 1' g' T 4>.*/*-' " "' # ' 'g' R% ** / ! B)6=,*-C)1;,*'M.**' · / 3' 62' 6=6-,?*2,'1-' D6// 2' 8)>)',)*' ?129.' 620' >6212.' 1 '6' ?126.,>'*.^ ,6D/ .)?*2,' 1-' ,)*' 0*62.' 620' =-*D*206- ' 1 ' >6,)*^ 0-6/.' 620' >1//*5 6,*')>);->)*.' ?**,7 1-',-62.6>, 25',)*' D;. 2*..' 1 ',)*' D10 ' 1 ',)*7 .1>*, % =,',;20*-.,)<1);.*' 8*-*' 1 ,*2' D;/,' 2',)*' ?1.,' ?652 >*2,' 620' >1../' .,/*1 '6->),*>,;-*% ()*' '6-*' 1 '+6-1;,' 1-?.' ?1-*' ;.;6// '/1>6,*0' >12, 5;1;.',1'6' >);->)' 620' 1 ,*2' ?*-* =/6>*.' 1 'D;-6/')6+ 25'1>>6. 126// '>- =,';20*-.,)*?% 2' ?*0 6*+6/ 6, 2',)*'*D6=,*-C)1;.*' .'0*21? 26,*0' % ' 620' 6/.1' ' ' % f ()*' 1-?*-' ,*-?' 86.' 6/.1' 6==/ *0',1',)*' *6.,' *20' 1',)*' >);->)' > % ' F I%8' 620')*2>*' ,)*-*')6+*' D**2' *--1-.' 1 ' ,-62./6, 12%)6-66,)76/;-'Md>>=16 6d6=' +%-% O % ; O N' ;/5' ' ' D8.' 5 +*2' 6?125',)*' =.*;01^ =-*..' 2' ' .0-% +' NS' 8)*-*' ')6-66,)6/6-' /*60^ 25',)*?'620' 6/6- J' .',)*' >12 ;.*0',-62./6, 12' 1-' : ? ' M_% %X' 0062' W1-' 0012X' 620' ?? *- J' 1',)*' :*D',*L,.' M [-6' ' T *)% + ' S X%)6-6>6'Md6=67' ;/5% " 8'6'=/6>*'1D.>;-*^ /'?*2, 12*0' 12/' 2' K'<6>>% L ' '> ' 'O % 8' 6.',)6,',1'8)>)'B;06.'<6>>6D6.;.'-*, -*0'7,*-') .'6,^ ,6>9'1',)*' 6D6,).*62.% ,'86.'12',)*'*6.,'1 'B1-062' D* 25' 2)6D ,*0'D ',)*'B*8.'>6//*0' (;D *2 J' 1-' 1 ' '(1D *J' M.**' (12X'8)1'8*-*' 2' 4 /*60' M>1?=% ' <6>>% 'R NX' 620' ,'86.' '.,60 6' -1?',)*' >, ' 6.= 2' D;,' 8)*-*',)*' /6,,*-' =/6>*' 86.' . ;,6,*0' 1-' 2' 8)>)' 0 -*>, 12')6-6L' 86.' 8 ,)' -*56-0',1' ,',)*-*' .' 21' >/*8% 86/0' > !' +!' +' N R' 21,*X =/6>*.' ,',1',)*' *L,-*?*'*6.,'620' 0*2, *.',' 8 ,)' 6=)12% ()*' 12/' 26?*' 21,-' 92182 12',)*' *6.,' 1 'B1-062' 8)>)' -*>6//.')6-6L' .') +',)*' 62> *2,' C<16D' 12',)*' % % 1',)*' *60' *6' 8)>)' 2' =1.,CD D/ >6/, ?*.' 86.' >6//^ *0' O %)%!I*8C '620' $ % 1'M.**' */620' : ' =% X% ()*' - 6>')6.') " ' 8)>)' .;55*.,.' 6-C 91-' MB;05% + ' X% ' ?,)' .'#+%)6-6>,*-' > %) *% ' % ' 8' · L ' .',)*' 1->*' 1 '6' ?62 .' ?1-6/ =*-.126/, '6.' ?10^ *0' 620' 0*+*/1=*0' D ',)*C81-9' 1 ',)*' : 1/ ' = - ,%)- ., 62 , ' 01*.' 21,' .**9',1' 0*.,-1 ',)*' 26,;-6/ 620' ?1-6/ _;6/, *.' 1 %262 ' D;,',1'*/*+6,*' .,-*25,)*2 ' 620' .62>, ',)*?% ;',)*' 20 + 0;6/ ?62 ' ;20*-' ,)*')- ., 62' . .,*?' .',6;5),' 1',)*' : 1/ ' = - ,J' ,)*' 86 '1 '/ *T 620' ;20*-') .'182' -*.=12. D/, ',)*' 2/;*2>*' 1 ',)*' : 1/ ' = - ,' ?;.,' D*' +1/;2,6- / ' 6>^ >*=,*0' 6.',)*' 2.= - 25' 620' >12,-1// 25' =- 2> =/*' 1 ',)*' _;6/,*.' 8)>)' D*/125',1') ?' D ' 26,;-*% ',) .')*' 21,',)*' >6.*',)*' ?62' -*?6 2.' 6' 26,;-6/ ?62 J' 620') .')>)6-6>,*-' .') .' 26,;-6/ >)6-6>,*-% ;',)*' D*5 2^ 2 25' 1 '6' 2*8' ?1-6/ >1;-.*' 1 '/ *',)-1;5)',)*' 81-9' 1',)*' : 1/ ' = - ,' ' 620' 2' -5*2*-6, 127' ,)*',-;*' 1;206, 12' 1',)*')- ., 62' >)6-6>,*-' .' /6 0%7' ;',) .' -*5*2*-6, 12',)1;5)' ,'-*_;-*.' 6>, +*' 6 ,)' 12' ,)*' =6-,' 1 ' ?62' .' 2*+*-,)*/*..',)*' 81-9' 1 ' 410' 620' ,)*-* 1-*')6-6>,*-' .' 2*+*..6-/ ' 6' 0 + 2*' 81-9' /*.,' 62 ' ?62' .)1;/0' D16..,J' M =)% ' RX% '-1;-.1' 6//',)*' =-6>, >6/ 1-?.' 1 ' 51102*..',)*' >6-0 26/ + -^ ,;*.' .1' >6//*0' MK *,% ' C X' 620',)*' .=*> 6/)- ., 62' + -,;*' 1 ')6-, 6-*' */*?2.,'1',) .' - ., 62' >)6-6>,*-% 8D>)'6/8 6 .' 2',;-2'-*6>,';=12',)*')6-6>,*-' D- 25^ 25',' >12.,62,/ ' 2,1' 2*6-*-' 0*2, ' 8 ,)',)*' ' 22*-J' 1-' .= - .;6/J' ?62' M =)% ' ST ' + ' KNX% ' L*.',)*' ?1-6/ 81-),)' 1',)*' 20 + 0;6/ '6.' 8*//6.') ,'2*..' 1-' ,)*' 9 2501?' 1 ' 410' 2' 8)>)',)=' *2, -*' >)6-6>,*-' \ ,)*' " ' ' .'=*-*?=,1-/ '-*_;-*0' M<6,,' + ' K T L ' KNX%)- ., 62 , ' 0*?620.') *' " ')*6-,T 1-' 1;'1',)*A 16-,'6-*',)*' ..;*.'1 '/ * J' 620',)*' -;/ 25' 0.=1. , 12' 1 '6' ?62 .')*6-,' 1-?.',)*' *..*2>*' 1 ') .' >)6-6>,*-' `& ,)' 6;/ ')>)6-6>,*-' .',)*' ?62T ,)*')1/

>)6-6>,*-' .',)*' '2*8' ?62' ,)*' >1--;=,'>)6-6>,*-',)*' 1/0' ? 62%J
;,',)1;5)',)*' = - ,'81-9.',) .')- ., 62' >)6-6>,*-' 2' ?62 ' ,' /*6+*.' -**' =/6 ' 1-',)*' .=*> 6/ 5 ,.' 620' *2^ 018 ?*2,.' 1 ' ,)*' 20 + 0 ;6/% /,)1A 5)' 2')- .,' ,)*-*' .' 2> ,/ *-' B* 8' 21-' 4-**9 J' ,)*-*' .' -11?' 2')- .,.' 9 2501?' 1-' 0 +*-. , *.' .=- 25 25' -1?' ,*?^ =*-6?*2,' -6>*' 1-' 26, 126/ , % ()*' 6=1.,/*.' *,*-' 6;/ 'B1)2 ' 620' B7 0*')6+*' D**2',69*2 'D ' .1?*' 8- ,^ *-. '67 7=* .' 1 ',)*' 1;-',*?=*-6?*2,. '.625; 2*'2*-+C 1;. '/ ?=)6, > ' 620' D / 1; % ()1' &1-0' 1 ' 410' .' -*C 5' -0*0 ' 2' ,)*')- ., 62' . .,*?' 6.' ,)*' -;/*' 1 ' / *' 620' .,6206-0' 1 ' 6==*6/ 1-',)1')- ., 62' >)6-6>,*-% 2' % ' 1 ' >)6-6>,*-' .**' % 'T L g + f ' ' : *-[15 ' 5 =6 " %f + ' N ST ; " ' 1 ' 'KK%
)6-6>,*-' 1? 2 *;.' I " ' "' ' " ' P81' 6' 26?*' D ' 8) >)' 6.' 8*// 6.' " ' 'I ' /81' ;5;., 2*'0*. 526,*.',)*' .6>-6?*2,'1 'D6=, .?' D ' 8) >)')*' 01*.' 21,' ?*62' 62 ' 2,*-26/ _;6/ , '1-' .= - .,;6/ =18*-' 0 ., 2>,' -1?' D6=, .?' ?=- 2,*0' 12',)*' .1;/ 'D ;,'12/A1C,)*' *L,*-26/ 1-?' >1?*12',1' 6// -*>* +^ *-. 'D1,)' 5110' 6207D60 ' 8)1' 6-*' 0;/ 'D6=, [*0' 2',)*' 26?*' 1 ',)*' : 1/ ' (- 2 , T ,)6',)* '6-*' .1' 6-'. 52*0' D ',)*' ?6-9'1-' >)6-6>,*-' 1 ',)*' 1-0' 6.',)* *D ',1' D1' 0 ., 25; .)*0' -1?' ;2D6=, [*0'B*8 .'620' 4*2, /*. ' 8)1')1+*-' ?60*' 62 ' 1-?6/ =-1 *.. 12' 1 ')- ., 62 , '21-' *+*-' -*>* +*0' .1' ? ;>)'6.',)*' *L,*-26/ 20 >6, 12' 1 ',' : *' 6//18*0',) .' >)6-6>,*-',1' D*' .1' 6-' 20*/ D/*',)6,'=)- .,' ?' ,)1;5)')*' ,;-2' B*8' 1-' =6562' >62' 2*+*-' 2**0' 6' .*>120' D6=, .?' D;'12/ '-*=*2,62>*' 620' 6D.1^ /;, 12',1'-* 2.,6,*',) ?' 2',)*');->)%J' ,' .'>/*6-',)6,' ;5;., 2*'0 0' 21,'0-*6?' 1 ',)*' /6,*-' 12 62 .,',)*1-' 1 '.6>-6?*2,6/ >)6-6>,*-%J ' 25)6?' , '6 !' D9% L '>)% 'g % **' ' '? !
)6-6>,*-' 20*/*DB/ .% 2',)*');->)'1 '1?*' ,' .')*/0',)6,'6'.= - ,;6/ . 52 '>6//*0' " 1' .' ?^ =-*..*0' 2',)*' .1;/ DE' >*-,6 2' .6>-6?*2,.% _; 26.' ,6;5),',)6, ' 2' >12.*_;*2>*' 1 ',)*%O*6,)' 1 'B*.;.' ,)*' .6>-6?*2,.' 2.. ,;,*0' 2',)*' *8' (*.,6?*2,')6+*' 1D,6 2*0' 8)6,' .' >6//*0' ' 1-' 1'38)>)',)1.*' 1 ',)*' /0' (*..6?*2,' 0 0' 21,' =1.^ .*..% ()*-* 1-*'D '=6-,69 25'1 ',)*' .6>-6?*2,.' ?62' 6>_;-*.'6'>*-,6 2'>)6-6>,*-' 7)>)' 2',)*' >6.*' 1'.1?*' .6>-6?*2,.' .';>)' 6.' D6=, .?' >12 -?6, 12'620',)*' 1-^ 0 26, 12' 1 '=- *,,.' .' "= ' " 1'620' >12.*^ _;*2,/ '-*20*-.' ?=1.. D/*',)*'-*=*, , 12' 1 '.;>)' .6>^ -6?*2,.J' M _; 26.' $ 1'=G ' #;% S CS X%
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tures. There has been some speculation as to any difference of meaning between the above word and the briefer (masc.) form רֶכֶב, *merkab'*, which occurs in three passages only. In 1 Kings v, 6, the latter obviously means chariots, taken collectively. But in Lev. xv, 9 (Auth. Vers. "saddle"), and Cant. iii, 10 ("the covering"), it has been understood by some to denote the seat of a chariot. To this view there is the fatal objection that ancient chariots had no seats. It appears to denote the seat of a litter (the only vehicle that had a seat), and its name *merkab* may have been derived from the general resemblance of the body of a litter (distinguished from the canopy, etc.), both in form and use, to that of a chariot. Another still simpler form, the word רֶכֶב, *re'keb* (with the analogous forms רִכְבָּה, *rikbah'*, Ezek. xxvii, 20, and רִכּוּב, *rekhb'*, Psa. civ, 3), from the same root, appears to signify a carriage of any kind, and is especially used with reference to large bodies of carriages, and hence most generally of war-chariots; for chariots were anciently seldom seen together in large numbers except in war. It is applied to the war-chariots of the Egyptians (Exod. xiv, 9), the Canaanites (Josh. xvii, 18; Judg. i, 19; iv, 3), the Hebrews (2 Kings ix, 21, 24; x, 16), the Syrians (2 Kings v, 9), the Persians (Isa. xxi, 7, 9). To this corresponds the ῥέδη of Rev. xviii, 13; the Latin *rheda*, a carriage with four wheels, an improvement of later times. By a comparison of these references with those passages in which *merkabah* occurs, we find the two words applied to all sorts of carriages indifferently and interchangeably, just as we should say either "carriage" or "coach"—neither of which is specific, and both of which differ more from each other than the Hebrew words in question—to denote the same vehicle. Indeed, there are passages in which both words are manifestly applied to the same identical vehicle, as in 2 Kings v, 9, 21, and 1 Kings xxii, 35, 38, where some have endeavored to make out a difference between the Heb. terms. There is another word once rendered chariot, viz. עֲגָלָה (*egalah'*, Psa. xlvi, 9), but it denotes a *plaustrum*, cart, or wagon drawn by oxen. See CART. The only other words rendered "chariot" in the Bible are אַפִּרְיוֹן (*appiryon'*, Cant. iii, 9), which the etymol., as well as the rendering in the Sept. and Vulg., shows to have been a portable sedan or *palanquin* [see LITTER], and הוֹצֵן, (*ho'tsen*, only in Ezek. xxiii, 24), which, according to etymology and the Rabbins, means *weapons* or defensive armor. It is demonstrated that the word *rekeb*, rendered "horsemen," does not mean "cavalry," but merely riders *in* the chariots—in other words, chariot-warriors; for Exod. xiv, 7, which gives the first account of the Egyptian army, says, "he took six hundred chosen chariots, and all the chariots of Egypt, and captains over every one of them" (or in each). The "horsemen" in verse 9 and the subsequent verses

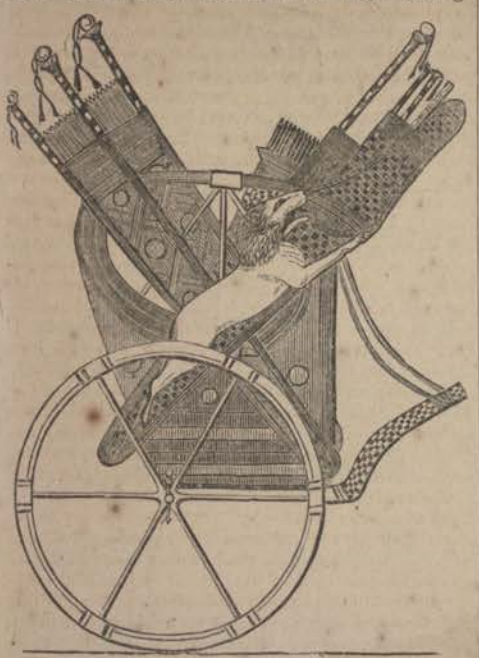
Ancient Egyptian War Car and Horses, designed from a comparison of different Monuments.

means literally "riders," not *upon* the horses, but *in* the chariots. Hence, though Moses's song of triumph mentions the "horse and his rider" (Exod. xv, 1), yet ver. 4 clearly indicates that by rider chariot-rider is understood: "Pharaoh's chariots and his host hath he cast into the sea; his chosen captains also (chariot-warriors) are drowned in the Red Sea." See HORSE.

The earliest mention of chariots in Scripture is in Egypt, where Joseph, as a mark of distinction, was placed in Pharaoh's second chariot (Gen. xli, 43), and later when he went in his own chariot to meet his father on his entrance into Egypt from Canaan (xlvi, 29). In the funeral procession of Jacob chariots also formed a part, possibly by way of escort or as a guard of honor (l, 9). The next mention of Egyptian chariots is for a warlike purpose (Exod. xiv, 7). In this point of view chariots among some nations of antiquity, as elephants among others, may be regarded as filling the place of heavy artillery in modern times, so that the military power of a nation might be estimated by the number of its chariots. Thus Pharaoh, in pursuing Israel, took with him 600 chariots. The Canaanites of the valleys of Palestine were enabled to resist the Israelites successfully in consequence of the number of their chariots of iron, i. e. perhaps armed with iron scythes (Josh. xvii, 18; Judg. i, 19; see Schickendanz, *De curribus falcatis*, Zerbst. 1754). Jabin, king of Canaan, had 900 chariots (Judg. iv, 3). The Philistines in Saul's time had 30,000, a number which seems excessive (1 Sam. xiii, 5; but comp. the Sept. and Joseph. *Ant.* vi, 6, 1). David took from Hadadezer, king of Zobah, 1000 chariots (2 Sam. viii, 4), and from the Syrians a little later 700 (x, 18), who, in order to recover their ground, collected 32,000 chariots (1 Chron. xix, 7). Up to this time the Israelites possessed few or no chariots, partly, no doubt, in consequence of the theocratic prohibition against multiplying horses, for fear of intercourse with Egypt, and the regal despotism implied in the possession of them (Deut. xvii, 16; 1 Sam. viii, 11, 12). But to some extent David (2 Sam. viii, 4), and in a much greater degree Solomon, broke through the prohibition from seeing the necessity of placing his kingdom, under its altered circumstances, on a footing of military equality or superiority toward other nations. He raised, therefore, and maintained a force of 1400 chariots (1 Kings x, 25) by taxation on certain cities, agreeably to Eastern custom in such matters (1 Kings ix, 19; x, 25; Xenoph. *Anab.* i, 4, 9). The chariots themselves, and also the horses, were imported chiefly from Egypt, and the cost of each chariot was 600 shekels of silver, and of each horse 150 (1 Kings x, 29). See SHEKEL. From this time chariots were regarded as among the most important arms of war, though the supplies of them and of horses appear to have been still drawn from Egypt (1 Kings xxii, 34; 2 Kings ix, 16, 21; xiii, 7, 14; xviii, 24; xxiii, 30; Isa. xxxi, 1). The prophets also allude frequently to chariots as typical of power (Psa. xx, 7; civ, 3; Jer. li, 21; Zech. vi, 1). Chariots of other nations are likewise mentioned, as of Assyria (2 Kings xix, 23; Ezek. xxiii, 24), Syria (2 Sam. viii, and 2 Kings vi, 14, 15), Persia (Isa. xxii, 6); and, lastly, Antiochus Eupator is said to have had 300 chariots armed with scythes (2 Macc. xiii, 2). In the N. T. the only mention made of a chariot, except in Rev. ix, 9, is in the case of the Ethiopian or Abyssinian eunuch of Queen Candace, who is described as sitting in his chariot reading (Acts viii, 28, 29, 38). See RIDER.

Jewish chariots were no doubt imitated from Egyptian models, if not actually imported from Egypt. These appear to have come into use not earlier than the 18th dynasty (B.C. 1530). The war-chariot, from which the chariot used in peace did not essentially differ, was extremely simple in its construction. It consisted, as appears both from Egyptian paintings and reliefs, as well as from an actual specimen preserved at Florence, of a nearly semicircular wooden frame with

straightened sides, resting posteriorly on the axle-tree of a pair of wheels, and supporting a rail of wood or ivory attached to the frame by leathern thongs and one wooden upright in front. The floor of the car was made of rope net-work, intended to give a more springy footing to the occupants. The car was mounted from the back, which was open, and the sides were strengthened and ornamented with leather and metal binding.



Ancient Egyptian Chariot of War, with Bow-cases and complete Furniture, except the Yoke.

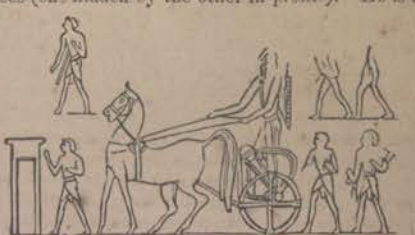
Attached to the off or right-hand side, and crossing each other diagonally, were the bow-case, and inclining backwards, the quiver and spear-case. If two persons were in the chariot a second bow-case was added. The wheels, of which there were 2, had 6 spokes: those of peace chariots had sometimes 4, fastened to the axle by a linch-pin secured by a thong. There were no traces; but the horses, which were often of different colors, wore only a breast-band and girths, which were attached to the saddle, together with head furniture, consisting of cheek-pieces, throat-lash, head-stall, and straps across the forehead and nose. A bearing-rein was fastened to a ring or hook in front of the saddle, and the driving-reins passed through other rings on each side of both horses. From the central point of the saddle rose a short stem of metal, ending in a knob, whether for use or mere ornament is not certain. The driver stood on the off side, and in discharging his arrow hung his whip from the wrist. In some instances the king is represented alone in his chariot, with the reins fastened round his body, thus using his weapons with his hands at liberty. Most commonly two persons, and sometimes three, rode in the chariot, of whom the third was employed to carry the state umbrella (2 Kings ix, 20, 24; 1 Kings xxii, 34; Acts viii, 38). A second chariot usually accompanied the king to battle, to be used in case of necessity (2 Chron. xxv, 34).

On peaceable occasions the Egyptian gentleman sometimes drove alone in his chariot, attended by servants on foot. The horses wore housings to protect them from heat and insects. For royal personages and women of rank, an umbrella was carried by a bearer or fixed upright in the chariot. Sometimes mules were driven instead of horses, and in travelling sometimes oxen; but for travelling purposes the sides of the chariot appear to have been closed. One instance occurs of a 4-wheeled car, which (like the τετράκυκλος ἅμαξα of Herod. ii, 63) was used for religious purposes. See CART. The processes of manufacture of chariots and harness are fully illustrated by existing sculptures, in which also are represented the chariots used by neighboring nations (Wilkinson, *Anc. Egypt.* i, 368, 386; ii, 75, 76, 2d ed.).

Ancient Egyptian Chariot-makers.

Fig. 1, Sawing out the Axle; 2, Preparing the bent pieces of Wood, *a*, *b*; 3, 4, Shaping the Pole, *d*; *c*, *c*, Wheels.

The earliest Egyptian chariot noticed in Scripture (Gen. xli, 43) was doubtless a state-chariot; but, among the Egyptians, it does not appear to have been different from the war-chariot, the splendid military appointments of which rendered it fit for purposes of royal pomp. Hence, although the same word (רֶכֶב, *merkabah*) is again used for chariots of state in Gen. xlvi, 29; 1 Sam. viii, 11; 2 Sam. xv, 1, it undoubtedly denotes a war-chariot in Exod. xv, 4; Joel ii, 5. In Isa. ii, 7, the same word appears to comprehend chariots of every kind which were found in cities. In fact, chariots anciently in the East were used almost entirely for purposes of state or of war, being very rarely employed by private persons. We also observe that where private carriages were known, as in Egypt, they were of the same shape as those used in war, only having less complete military accoutrements, although retaining the case for arrows. One of the most interesting of the Egyptian paintings represents a person of quality arriving late at an entertainment in his curricle, drawn (like all the Egyptian chariots) by two horses (one hidden by the other in profile). He is attended by a number of running footmen, one of whom hastens forward to knock at the door of the house, another advances to take the reins, a third bears a stool to assist his master in alighting, and most of them carry their sandals in their hands, that they may run with the more ease. This conveys a lively illustration of such passages as 1 Sam. viii, 11; 2 Sam. xv, 1. The principal distinction between these private chariots and those actually used in war was, as appears from the monuments, that in the former the party drove himself, whereas in war the chariot, as among the Greeks, often contained a second person to drive it, that the warrior might be at liberty to employ his weapons with the more effect. But this was not always the case; for in the Egyptian monuments we often see even royal personages alone in their chariots, warring furiously, with the reins lashed round their waist. So it appears that Jehu (who certainly rode in a war-chariot) drove himself, for his peculiar style of driving was recognised at a considerable distance (2 Kings ix, 20). The Egyptians used horses in the equipment of an armed force before Jacob and his sons had settled in Goshen; they had chariots of war, and mounted asses and mules, and



Ancient Egyptian Curricle.

Ancient Egyptian Chariot in Battle.

therefore could not be ignorant of the art of riding; but for ages after that period Arab nations rode on the bare back, and guided the animals with a wand. Others, and probably the shepherd invaders, noosed a single rope in a slip-knot round the lower jaw, forming an imperfect bridle with only one rein; a practice still in vogue among the Bedouins. Thus cavalry were but little formidable, compared with chariots, until a complete command over the horse was obtained by the discovery of a true bridle. This seems to have been first introduced by chariot-drivers, and there are figures of well-constructed harness, reins, and mouth-pieces in very early Egyptian monuments, representing both native and foreign chariots of war. In fighting from chariots great dexterity was shown by the warrior, not only in handling his weapons, but also in stepping out upon the pole to the horses' shoulders, in order the better to attain his enemies; and the charioteer was an important person, sometimes equal in rank to the warrior himself. Both the kingdoms of Judah and Israel had war-chariots, and, from the case of king Josiah at the battle of Megiddo, it is clear they had also travelling vehicles, for, being wounded, he quitted his fighting-chariot, and in a second, evidently more commodious, he was brought to Jerusalem (2 Chron. xxxv, 24). Chariots of war continued to be used in Syria in the time of the Maccabees (2 Macc. xiii, 5), and in Britain when Cæsar invaded the island (*Bell. Gall.* iv, 29).

In the prophecy of Nahum, who was of the first captivity, and resident (if not born) at Elkosh in Assyria, there is much allusion to chariots, suggested doubtless by their frequency before his eyes in the streets of Nineveh and throughout the Assyrian empire. In fact, when prophesying the downfall of Nineveh, he gives a particular and animated description (ii, 34) of their action in the streets of the great city:

> The shield of his heroes is reddened,
> The men of prowess are crimsoned [in dress]:
> With the fire of irons [flashing steel armatures] is the chariot in the day of his array,
> And the cypresses [lances] are brandished;
> In the streets will madden the chariot-force,
> They will race in the broad places;
> Their appearance is as the torches,
> As the lightnings will they rush.

Abundant illustrations of this passage occur on the recently discovered sculptures of Nineveh and Babylon. They are minutely described by Layard (*Nineveh*, ii, 268 sq.). The earlier Assyrian war-chariot and harness did not differ essentially from the Egyptian. Two or three persons stood in the car, but the driver is sometimes represented as standing on the near side, while a third warrior in the chariot held a shield to protect the archer in discharging his arrow. The car appears to have had closed sides. The war-chariot wheels had 6 spokes; the state or peace chariot 8 or more; and a third person in state processions carried the royal umbrella. A third horse, like the Greek παρήορος, was generally attached (Layard, *Nineveh*, ii, 350). In later times the third horse was laid aside, the wheels were made higher, and had 8 spokes, and the front of the car, to which the quiver was removed from its

Ancient Assyrian Warriors in a Chariot.

former side position, was made square instead of round. The cars were more highly ornamented, panelled, and inlaid with valuable woods and metals, and painted. The embroidered housings, in which in earlier times the horses were clothed, were laid aside, and plumes

Royal Chariot. From the later Assyrian Monuments.

and tassels used to decorate their necks and foreheads (Layard, *Nineveh*, ii, 353, 356; *Nineveh and Babylon*, p. 341, 587, 603, 618; *Mon. of Nin.* 2d series, pl. 24; comp. Ezek. xxvii, 20). Chariots used for other purposes than that of war, especially in hunting, were

Ancient Assyrian Chariot for the Chase.

also found sculptured on the Assyrian monuments, as well as occasionally carts for the transportation of persons or baggage.

The Persian art, as appears from the sculptures at Persepolis, and also at Koyounjik, shows great similarity to the Assyrian; but the procession represented at the former place contains a chariot or car with wheels of 12 spokes, while, from the sculptures at the latter, it appears that the Elamites, or Persians, besides chariots

Ancient Persian Chariot.

containing two persons, which were sometimes drawn by four horses, used a kind of cart, drawn by a single mule or more, consisting of a stage on high wheels, capable of holding five or six persons, of whom the driver sat on a low stool, with his legs hanging on each side of the pole (Isa. xxii, 6; Ezek. xxiii, 24; see Xenoph. *Cyrop.* iv, 3, 1; ii, 22; Niebuhr, *Voyage*, ii, 105; Chardin, *Voyage*, vii, 257, pl. lix; Layard, *Nin. & Bab.* p. 447, 449; Olearius, *Travels*, p. 302). Chariots armed with scythes (ἅρματα δρεπανηφορα, Xen. *Anab.* i, 7, 10) may perhaps be intended by the "chariots of iron" of the Canaanites; they are mentioned as part of the equipment of Antiochus (2 Macc. xiii, 2), and of Darius (Diod. Sic. xvii, 53; Appian, *Syr.* 32). Xenophon mentions a Persian chariot with 4 poles and 8 horses (*Cyrop.* vi, 4). The Persian custom of sacrificing horses to the Sun (Xen. *Cyrop.* viii, 3, 12), seems to have led to offerings of chariots and horses for the same object among the Jewish monarchs who fell into idolatry (Ezek. viii, 17; 2 Kings xxii, 11; see P. della Valle, p. 255). See WAGON.

Not very different from the Persian chariot is one represented on a coin found at Babylon, but somewhat ruder; but the spokes of the wheels are eight, as in the Assyrian chariot. This coin has given occasion to much unsound speculation in the attempt to connect it with the history of Daniel. See BABYLON.

Ancient Babylonian Chariot.

Ancient Greek Chariot.

Among the Greeks and Romans, chariots were used at all times for purposes of war, and the chariot-races of the "Isthmian Games" were especially famous (see Smith's *Dict. of Class. Antiquity*, s. v. Currus). See CHARIOT-RACE.

Ancient Roman Chariot.

Among the parts of wheel-carriages mentioned in the Scriptures are: 1, the *wheel*, אוֹפָן (*ophan'*, Exod. xiv, 25, etc.); also גַּלְגַּל (*gilgal'*, Isa. xxviii, 28) or גַּלְגֵּל (*galgal'*, Isa. v, 28; Ezek. x, 2, 6; xxiii, 24; xxvi, 10; id. Chald. Dan. vii, 9); 2, the *rim*, גַּב (*gab*, 1 Kings vii, 33; Ezek. i, 18); 3, the *spokes*, חִשֻּׁקִּים (*chishshukim'*, 1 Kings vi, 33); 4, the *hub*, חִשֻּׁרִים (*chishshurim'*, 1 Kings vii, 33); 5, the *axle*, יָד (*yad*, 1 Kings vii, 32, 33). To *harness* (yoke) the horses or other animals is designated by אָסַר (*asar'*, Gen. xli, 29; 1 Sam. vi, 7; 1 Kings xviii, 14), or רָתַם (*ratham'*, Mic. i, 13); also רָכַב (*rakab'*, Hos. x, 11), which properly signifies to *ride* or *drive*. See WHEEL.

The word chariots is sometimes used figuratively for hosts or armies (Psa. lxviii, 17; 2 Kings vi, 17); and Elijah, by his prayers and counsels, and power with God, was "the chariot of Israel, and the horsemen thereof" (2 Kings ii, 12; see Rosh, *De curru Israelis*, Bautz. 1780), inasmuch as he did more for them than all the chariots they could muster (Psa. xx, 7; Isa. iii, 1).—Kitto, s. v.; Smith, s. v. See WAR.

The term "chariot" is likewise used poetically in Scripture to designate the rapid agencies of God in nature (Psa. civ, 3; lxviii, 17; Isa. lxvi, 15; Hab. iii, 8). See Wemyss, *Symbol. Dict.* s. v.

CAPTAINS OF CHARIOTS (Exod. xv, 4) might be supposed to denote the officer or officers who had charge of the chariot forces, but the literal meaning is mounted *third* men (שָׁלִשִׁים). This passage seems obscure, but a picture from an Egyptian tomb (the Rameseium of Thebes), nearly or quite as ancient as the period to which the above-cited passage relates, furnishes a key to this otherwise difficult expression. It represents three men standing upon a chariot, two of whom are prepared for action, and the third manages the horses (compare the large cut above of the Assyrian chariot). They were probably selected for their valor, and perhaps formed by themselves a distinct division of the army, and each had its distinct officer (Exod. xiv, 7). See CAPTAINS.

Ancient Egyptian Chariot carrying three Warriors.

CHARIOT OF THE CHERUBIM probably means the frame-work on which the cherubim rested, and one pattern of which might resemble the body of a chariot (1 Chron. xxviii, 18). See CHERUB.

CHARIOT-CITIES, cities specially designated for storing the chariots of war during the time of peace, as magazines and arsenals of modern times are used (2 Chron. i, 14). See CITY.

CHARIOT-HORSES, such as were peculiarly fitted, by size, spirit, docility, or special training, for service in chariots, as carriage, draught, and saddle horses of later days (2 Kings vii, 14). See HORSE.

CHARIOT-MAN, the driver or charioteer, or perhaps an officer who had charge of the chariot (2 Chron. xviii, 33). See DRIVER.

CHARIOTS OF WAR (Exod. xiv, 7; 2 Sam. viii, 4). One class of carriages thus denominated were used as the common vehicles of princes and generals; but another formed the most terrible of military engines, and were employed in great numbers to break the enemy's battalions by rushing in among them (1 Sam. xiii, 5; 1 Chron. xviii, 4). Like other ancient carriages, they had usually only two wheels; and iron hooks or scythes, strong and sharp, were affixed to the extremities of the axles on each side, which made dreadful havoc among the troops (Josh. xi, 4 Judg. iv, 3, 13). War-

- 1-.' .1?*, ?*.' 1;5),' ..620 25' 12' ,)*? ' 1-' /*6= 25' -1?',)*?';=12',)*' *2*? ⅜ ()*' >)6- 1,.' 2',)*' 6-? ' 1 ' A(;.' 8*-*' >6=6> 1;.'*21;5)',1'=*-? .',8*2, '?*2' ,1' 5),' -1?',)*?⅜ '8*' *L6? 2*',)*' .>;/=,;-*.' 1 ' 5 =,' 8*' 20',)6,',)*' ..-*25,)' 1',)*' 6-? *.' 1',)*')6-61).' 86.' 2',)* -'>)6- 1,. '62' 5 =, 62' 6-? 'D*^ 25' >1?=1.*0' *L>/;. +*/ ' 1 ' 2 62,- ' 620' D 56. ' 1-' ,81C)1-.*0' >)6- 1,. ' 8) >)' >6--A' ,,*' 0- +*-' 620',)*' 86-- 1-⅜ 2' 21' 2..62>*' .' 62' 5A=, 62' *+*-' -*=-*^ .*2,*0' 12')1-.*D6>9⅜ ;>)' =6/=6D/*' *+ 0*2>*' ,)6,'A-*+*25*†' =-*A;>A >*† S'*+ /' .=*69 25† S =*,, ' 65^ ,)*' 5A(X,62Q' 0 0' 21,' *?=/1 ' >6+6/- ' .' 0 >;/,',1' -*>12> /*' 8 ,)',)*' >- =,;-*' 6>>1;2,' 1 ',)*' =;-.; ,' 1 ' ,)*' .-6*/ ,*.' 8) >)' *L=-*../ '.=*69.' 1 ' ',)*')1-.*.' 620')6- 1,.' 1 ')6-61) '620') .')1-.*?*2J'M L10⅛L + RX⅜ :*25.,*2D*-5 '6 ,*-' 6'>- ,>6/*L6? 26, 12' 1 ',)*' ,*L,' .6 .' 2').' 6 %' '" ';+' 'M=⅜ KSX' ,)6,' <1.*.' 01*.' 21,' ?*2, 12' >6+6/- ' 6,' 6//†',)6,' 6>>1-0 25',1') ?',)*' 5 =, 62'6-?' .' >-18'2 1'=*- *>, 12'M ' 1-⅜L ' N CL ' NX' ',) .' 8*' 6-*',1';20*-.,620'21,'6'?*-*' 2>/ 26, 12'620'*?1, 12')18*+*-'=;-*' 1-' 26,;-6/')*-' 2*+1/*2>*' 620' =) /62,)-1= ')18*+*-' 0 .2,*-*.,*0†' D;,' 6'0 .=1. , 12'8-1;5),' D ',)*' : 1/ ' 4)1.,' .=- 25^ 25' -1?',)*' >12.>1;.2*..'1'-*>12> / 6, 12† 6'+ ,6/ .;^ =*-26,;-6/ *2*-5 ';2 , 25'6//',)*' =18*-.' 1 ',)*' .1;/ 8 ,)' 410',)*' *..*2>*' 1 ' 6// /1+*' 620' >12.*>-6, 25' ,)*?',1',)*' .-+ >*' 1 ') .' 9 2501?⅜ & ,)1;',) .' *+*2' .=*69 25'8 ,)',)*' ,125;*.' 1 ' 625*/.' 8*-*' D;', `.1;20 25' D-6..' 1-' 6' , 29/ 25' > ?D6/№' & ,)1;',) . ',)*' D1/0*.,' =-1=)*> 7',)*' ?1.,' >1?=-*)*2. +1' 9218/*05*' 620' 6' =18*-' 1' 6 ,)' 8) >)' >1;/0' >6// ,)1' ?=1.. D/*' 2,1' D* 25')6fW21' 6D 0 25' 81-,)' 1-' =-61-' , >6/ ?=1-,62>*⅜ & ,)1;',) . ',)*' 1,)*-' 5 ,.' 81;/0' .*=6-6,*' =6..' 2,1',)*' .*-+ >*' 1 ' 6?DI 12' 620',) ;.' -;2',)*?.*/+*.'620',)*' 8)1/*') ;->)⅜ & ,)1;',) . ',)*' 5 ,' 1 ' ,125;*.' 1..*-.' +62, '620' *2,) ;. 6.?' 9218/*05*' =;.' I;=M ' 1-⅜ + ' CNX 7620',)*' 5 ,' 1 ' 51+*-2?*2,' 0*5*2*-6,*.' ,1' 0*.=1, .?⅜ .' 6 ,)' /*.' 6,',)*' D1,,1?' 1 '6//',)*' >)6- .?.' 620' 1-?.',)*' -' 1?^ ?12' -11,' .1' 6/.1'/1+*' .' =-1=*-/ '21,' 6' 5 ,1' D ',,*/ ' D;,' ,)*' .1;/ 1 ' 6// 5 ,.' D 20 25',)*?',15*,)*-' / 9*' ,)*' ?*?D*-.' 1 '6' D10 '?69 25',)*?'C81-9' 2' 1-' *6>)' 1,)*-⅜ 620' 0 -*>, 25',)*?',1',)*' >1?212' 5110⅜ ,' ?6 2,6 2.',)*' ;2 , ' 1 ',)*' ?62 1/0'0 + 2*' =18*-⅜O' .;D1-0 26,*.'*+*- ',) 25' 20 + 0;6/620'=*-.126/,1',)*' 5*2*-6/' 620' ?69*.' ,' .;D.*-+ *2,',1',)*' 2,*-*.,.' 1 ' ,)*' D10 '1 ')- .,⅜

' 1-' 621,)*-' -*6.12' /1+*' ,-62.>*20.' 6//',)*' 1,)*-' 5 ,.⅜ ,' 2*+*-' >*6.*.⅜ 2',)*' ;,;-*' 81-/0',)*' 1,)^ *-' 5 ,.' 8 // 0 .6==*6-' 6,'/*6..' 2',)* -'=-*.*2,'26,;-*⅜ ()*' ? ..*- 1;.',125;*.' 8 // >*6.1' 2',)*' /620' 8)*-*' 6// ;20*-.,620',)*?⅜ -17A7)*>*.' 8 // D*' /1.,' 2',)* -' ;/ /?*2,'/ 9*',)*' 6;-1-6' ?',)*' ?112⅜ 218/*05*' 8) >)' 12' *6-,)' .'D;,'=6-, 6/' 8 // ?*-5*' 2' ??*0 6,*' =*- *>,' 2,;, 12⅜ 6A' 6 ,)' ,.*/' 8 // D*' *L>)625*0' 1-' .5),' 620')1=*' 1-' -;, 12⅜ ;,'/1+*' D ' 8) >)' *+*2')*-*' 8*')6+*' *//18.)='1'/ *' 8 ,)' 410',)-1;5)')-.,' -*?6 2.' /1+*⅜ ,' >)625*.' 21,⅜ ,' -.*.' 21,' 1;,' 1 ' ,.' */*?*2,⅜ ,'=6..*.' 21,' 2,1' 621,)*-' =)*-*⅜ ,' 12/ '0**=2.'620'*L=620.⅜ ,'>62'2*+*-'56 2') 5) ' 1-' 5-1;20.' 2*+*-' -*6>)' 621,)*-' 620' D*,,*-' 1-?' 1 ' ;2 12' 8 ,)' 410');,' 12/ ' >12, 2;*.',1' 5-18' .,-125*-' ;//*-' ?1-*' / +*/ ' 620' ?1-*' D/ .. ;/ M ' 1-⅜ L A' QC' NX⅜ ` )6-,A7 .6 .' .)1=' & 6-D;-,12' .1?*8)*-* `-*5;/6,*.'620'=*- *>,,' 6//,)*',)*' 1,)*-'+-,;*.' 620' .' 2' ,.*/' 2'21' 862,'1'6'-* 1-?*-⅜

' :*2>*' 6;/*L)1-.,',)*' 1- 2,) 62.' 8)1'8*-*' 2^ >/ 2*0',1'=/6>*' 62' ;20;*' *., ?6,*' 12',)*' ?1-*' .,- 9 25' 620.)18 '>)6-.?.',1',-+ '6 ,*-')6-, '6D1+*' 6//' 6]',)*' 5-*6,*.,'620'?1.,'=-*> 1;.'5 ,',)*' >6-0 26/ 620' ;2+*-.6/)-., 62'+-,;*' 1' 8) >)')*6,)*2.?')6D.' 1D.*-+*.' /.)6;.*2' I ' '=⅜ SRQX' '0 0' 21,' 5*,' D* 120' % ! ,' 92*8' 21,) 25' 1',)*')-., 62' *! 2 ,)*' /0' (*.,6?*2,' 21,) 25' D;',)*' ,'*-2')*-* 52.⅜ '-1.' *+*2' 2' ,.';=;-*.,' 21D/*.,' 1-?' .' D;,',)*' -*.;/,' 1' 862,',)*' /125 25' 1-'/1+*' .=- 25 25' -1?',)*' >12^ .>1;.2*..',)6,' 8*')6+*' 21,' 8)6,' .' 81-,)' /1+ 25⅜

.>6->*/ ' D*' ? .6==-*)*20*0'6 ,*-' 6' >6-* ;/=*-;.6/' 1 ',)6,' ?=1-,62,';)6=,*-⅜ 2' =1=;/6-';.65*' >)6-, ' ' 1 ,*2'-*.,-*,*0',1' '8) >)' .' 12/ ' 12*' 1 ' ,.'3 ?62 *.,6, 12.⅛I' **') f)-.,62' *,) >.' ,*6>)' ,)6,')6-, ' 2',) .' .*2.*' 1 '/1+*' .',1'D*',)*')6D ,;6/ 6 *>, 12'1 ',)*')*6-,' 2'6//1;-'-*/6, 12.',1'1;-' *//18C >-*6,;-*.⅜)6-, '>12. 0*-*0' ⅜ .',1',.' ' ?^ =/ *.' 6' -*5*2*-6,*0' .,6,*' 1 ' ? 20⅛O K⅜ .',1',.' 1' ' .)';.' 1;,' 6// ' '625*-T K' ?=/6>6D/, 7' N' 5-*.. 12.',)1;5)'/*56/† '6-, > 6/0 .,2>, 12.'6.',.' -*>12> /*' 8 ,)',)*' >- =,;-*' 6>>1;2,' 1 ',)*' =;-.; ,'1' ,)*' .-6*/ ,*.' 8) >)' *L=-*../ '.=*69.' 1 ' ',)*')1-.*.' 620')6- 1,.' 1 ')6-61) '620') .')1-.*?*2J'M L10⅛L + RX⅜ :*25.,*2D*-5 '6 ,*-' 6' >- ,>6/*L6? 26, 12' 1 ',)*' ,*L,' .6 .' 2').' 6 %' '" ';+' 'M=⅜ KSX' ,)6,' <1.*.' 01*.' 21,' ?*2, 12' >6+6/- ' 6,' 6//†',)6,' 6>>1-0 25',1') ?',)*' 5 =, 62' 6-?' .' >-18'2 1'=*- *>, 12'M ' 1-⅜L ' N CL ' NX' ',) .' 8*' 6-*',1';20*-.,620' 21,' 6' ?*-*' 2>/ 26, 12' 620' *?1, 12')18*+*-'=;-*' 1-' 26,;-6/')*-' 2*+1/*2>*' 620' =) /62,)-1= ')18*+*-' 0 .2,*-*.,*0†' D;,' 6'0 .=1. , 12'8-1;5),' D ',)*' : 1/ ' 4)1.,' .=- 25^ 25' -1?',)*' >12.>1;.2*..'1'-*>12> / 6, 12† 6'+ ,6/ .;^ =*-26,;-6/ *2*-5 ';2 , 25'6//',)*' =18*-.' 1 ',)*' .1;/ 8 ,)' 410',)*' *..*2>*' 1 ' 6// /1+*' 620' >12.*>-6, 25' ,)*?',1',)*' .-+ >*' 1 ') .' 9 2501?⅜ & ,)1;',) . ',)*' *+*2' .=*69 25'8 ,)',)*' ,125;*.' 1 ' 625*/.' 8*-*' D;', `.1;20 25' D-6..' 1-' 6' , 29/ 25' > ?D6/№' & ,)1;',) . ',)*' D1/0*.,' =-1=)*> 7',)*' ?1.,' >1?=-*)*2. +1' 9218/*05*' 620' 6' =18*-' 1' 6 ,)' 8) >)' >1;/0' >6// ,)1' ?=1.. D/*' 2,1' D* 25')6fW21' 6D 0 25' 81-,)' 1-' =-61-' , >6/ ?=1-,62>*⅜ & ,)1;',) . ',)*' 1,)*-' 5 ,.' 81;/0' .*=6-6,*' =6..' 2,1',)*' .*-+ >*' 1 ' 6?DI 12' 620',) ;.' -;2',)*?.*/+*.'620',)*' 8)1/*') ;->)⅜ & ,)1;',) . ',)*' 5 ,' 1 ' ,125;*.' 1..*-.' +62, '620' *2,) ;. 6.?' 9218/*05*' =;.' I;=M ' 1-⅜ + ' CNX 7620',)*' 5 ,' 1 ' 51+*-2?*2,' 0*5*2*-6,*.' ,1' 0*.=1, .?⅜ .' 6 ,)' /*.' 6,',)*' D1,,1?' 1 '6//',)*' >)6- .?.' 620' 1-?.',)*' -' 1?^ ?12' -11,' .1' 6/.1'/1+*' .' =-1=*-/ '21,' 6' 5 ,1' D ',,*/ ' D;,' ,)*' .1;/ 1 ' 6// 5 ,.' D 20 25',)*?',15*,)*-' / 9*' ,)*' ?*?D*-.' 1 '6' D10 '?69 25',)*?'C81-9' 2' 1-' *6>)' 1,)*-⅜ 620' 0 -*>, 25',)*?',1',)*' >1?212' 5110⅜ ,' ?6 2,6 2.',)*' ;2 , ' 1 ',)*' ?62 1/0'0 + 2*' =18*-⅜O' .;D1-0 26,*.'*+*- ',) 25' 20 + 0;6/620'=*-.126/,1',)*' 5*2*-6/' 620' ?69*.' ,' .;D.*-+ *2,',1',)*' 2,*-*.,.' 1 ' ,)*' D10 '1 ')- .,⅜

' 1-' 621,)*-' -*6.12' /1+*' ,-62.>*20.' 6//',)*' 1,)*-' 5 ,.⅜ ,' 2*+*-' >*6.*.⅜ 2',)*' ;,;-*' 81-/0',)*' 1,)^ *-' 5 ,.' 8 // 0 .6==*6-' 6,'/*6..' 2',)* -'=-*.*2,'26,;-*⅜ ()*' ? ..*- 1;.',125;*.' 8 // >*6.1' 2',)*' /620' 8)*-*' 6// ;20*-.,620',)*?⅜ -17A7)*>*.' 8 // D*' /1.,' 2',)* -' ;/ /?*2,'/ 9*',)*' 6;-1-6' ?',)*' ?112⅜ 218/*05*' 8) >)' 12' *6-,)' .'D;,'=6-, 6/' 8 // ?*-5*' 2' ??*0 6,*' =*- *>,' 2,;, 12⅜ 6A' 6 ,)' ,.*/' 8 // D*' *L>)625*0' 1-' .5),' 620')1=*' 1-' -;, 12⅜ ;,'/1+*' D ' 8) >)' *+*2')*-*' 8*')6+*' *//18.)='1'/ *' 8 ,)' 410',)-1;5)')-.,' -*?6 2.' /1+*⅜ ,' >)625*.' 21,⅜ ,' -.*.' 21,' 1;,' 1 ' ,.' */*?*2,⅜ ,'=6..*.' 21,' 2,1' 621,)*-' =)*-*⅜ ,' 12/ '0**=2.'620'*L=620.⅜ ,'>62'2*+*-'56 2') 5) ' 1-' 5-1;20.' 2*+*-' -*6>)' 621,)*-' 620' D*,,*-' 1-?' 1 ' ;2 12' 8 ,)' 410');,' 12/ ' >12, 2;*.',1' 5-18' .,-125*-' ;//*-' ?1-*' / +*/ ' 620' ?1-*' D/ .. ;/ M ' 1-⅜ L A' QC' NX⅜ ` )6-,A7 .6 .' .)1=' & 6-D;-,12' .1?*8)*-* `-*5;/6,*.'620'=*- *>,,' 6//,)*',)*' 1,)*-'+-,;*.' 620' .' 2' ,.*/' 2'21' 862,'1'6'-* 1-?*-⅜

' :*2>*' 6;/*L)1-.,',)*' 1- 2,) 62.' 8)1'8*-*' 2^ >/ 2*0',1'=/6>*' 62' ;20;*' *., ?6,*' 12',)*' ?1-*' .,- 9 25' 620.)18 '>)6-.?.',1',-+ '6 ,*-')6-, '6D1+*' 6//' 6]',)*' 5-*6,*.,'620'?1.,'=-*> 1;.'5 ,',)*' >6-0 26/ 620' ;2+*-.6/)-., 62'+-,;*' 1' 8) >)')*6,)*2.?')6D.' 1D.*-+*.' /.)6;.*2' I ' '=⅜ SRQX' '0 0' 21,' 5*,' D* 120' % ! ,' 92*8' 21,) 25' 1',)*')-., 62' *! 2 ,)*' /0' (*.,6?*2,' 21,) 25' D;',)*' ,'*-2')*-* 52.⅜ '-1.' *+*2' 2' ,.';=;-*.,' 21D/*.,' 1-?' .' D;,',)*' -*.;/,' 1' 862,',)*' /125 25' 1-'/1+*' .=- 25 25' -1?',)*' >12^ .>1;.2*..',)6,' 8*')6+*' 21,' 8)6,' .' 81-,)' /1+ 25⅜

But the Christian ἀγάπη is the streaming forth of positive love, God himself dwelling in the believer, so that streams of living water flow out of him (John iv, 14).' And he commends it, in the most glowing and attractive description ever uttered by tongue of man or angel, in language which comes to the heart with perpetual freshness, like music from the bowers of eternity, and is of itself enough to put beyond all doubt the divinity of Christianity and its infinite superiority to all other religions. 'And now (in the present earthly life of Christians) abideth faith, hope, charity, these three; but the greatest of these is charity'" (Schaff, *Apostolical Church*, § 120). See also Watson, *Theol. Institutes*, pt. iii, ch. iv; Fellowes, *Body of Theology*, ii, 64, etc.; Barrow, *Works*, vol. i, ser. 27, 28; Fletcher, *Works* (N.Y. ed.), iii, 156 sq.

Charity, Brothers of (called, in Italy, *Fate ben fratelli*; in France, *Frères de la Charité*; in Spain, *Brothers of Hospitality*), a Romanist order, founded in 1540 at Seville, by the Portuguese Johannes a Deo, for nursing the sick and reforming immoral females. In 1572 Pope Pius V confirmed it, under the rule of St. Augustine, and it then limited itself to serving hospitals for the sick of all nations and religions. In 1580 it had a number of institutions in France, Italy, Germany, Poland, both Indies, and other countries. In 1617 it was received into the number of regular orders by adopting the solemn vows. In 1619 the brethren were exempted from the jurisdiction of the diocesan bishops, and in 1624 they received all the privileges of the mendicant orders. Among the hospitals of the order, those of Milan, Paris, Rome, Naples, Vienna, Prague, are especially celebrated. The number of houses amounts at present to over a hundred, in Italy, France, Spain, Austria, Prussia, Bavaria, and North and South America. See Helyot, *Ordres Religieux*, vol. ii; Fehr, *Geschichte der Mönchsorden*, ii, 80 sq.

Charity, Sisters of, called also DAUGHTERS OF CHRISTIAN CHARITY (*Sœurs* or *Filles de la Charité*), or, from their dress, GRAY SISTERS (*Sœurs grises*), a community of women in the Roman Catholic Church for nursing the poor and the sick, founded in 1629 at Chatillon, in France, by Vincent de Paul, aided by Madame Louise de Marillac le Gras. The rule which Vincent gave to his community was confirmed by the pope in 1658, whereupon the community spread so rapidly that by 1635 two hundred and twenty-four houses were established. Until the end of the eighteenth century they remained almost entirely confined to France, where their labors were interrupted by the Revolution. After a few years they were permitted to take them up again, and in 1807 they were placed under the protection of the mother of Napoleon. Since that time they have enjoyed the patronage of all French governments. In 1827 they nursed in France 145,000 sick persons and 120,000 children, which number has since considerably increased. Since 1815 they have rapidly established themselves in all states in which monastic orders are not forbidden. Several states, as Prussia and Baden, which exclude most of the monastic orders, have made an exception in favor of the Sisters of Charity. Since 1848 they have been admitted into all the German states except Saxony. In all Germany they had, in 1858, establishments in 194 places, with about 2000 members. Spain promised to admit them in the Concordat of 1851. They established themselves in Portugal in 1857, but were there, as also in Brazil, severely attacked by the Liberal party, and mobbed by the populace. Large numbers of them were called to Russia by the government of Alexander II, and they have penetrated even into Denmark and Sweden. In Turkey they conduct several largely-attended schools. They are also found in many of the missions of Asia, Africa, and Australia, and in several of the states of Central and South America. In the United States they were established in 1809 by *Elizabeth Seton* (a pervert from Protestantism), with a distinct rule, which is still followed in the dioceses of New York, Brooklyn, Newark, and Halifax. The houses in the other dioceses have abandoned Mrs. Seton's rule, and have united with the French order. In 1852 there were 38 houses under the charge of the sisters in different parts of the United States, and the number of sisters was 420. This number has since considerably increased. In the diocese of New York alone there are now about 250 sisters, having under their care, besides the parish schools in the city of New York, a hospital, a male and female asylum, and an industrial school. Their mother-house is at Fonthill, on the Hudson River, near Yonkers.

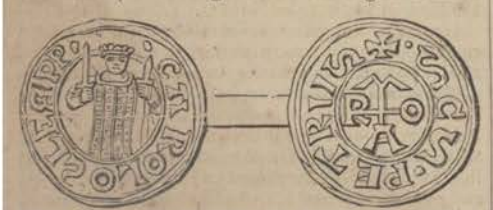
Sister of Charity.

Numerous other communities of women have been established on the same plan, and on nearly the same rule. The most important among them is the congregation of St. Carolus Borromæus, so called because they chose Borromeo as their patron. Their mother-house is at Nancy, France; and in 1845 they counted 70 houses, with about 700 members. Another was founded in 1808 in Westphalia, by baron Droste zu Vischering, who became afterwards archbishop of Cologne. It counted, in 1858, 41 establishments, with about 200 sisters. The United States have also a number of similar institutions, as Sisters of Charity of Montreal, Sisters of Charity of Nazareth, Sisters of our Lady of Mercy, Sisters of Mercy, Sisters of Charity of the Blessed Virgin, Sisters of Charity of St. Augustine, most of which have been founded during the present century.

No monastic institution has spread since the beginning of the present century with equal rapidity, and the increase is still going on in nearly every part of the world. In 1862, the number of establishments, as far as known, was 1064; namely, 947 in Europe, 80 in America, 17 in Asia, 17 in Africa, and 3 in Australia and Oceanica (P. Karl vom heil. Aloys, *Statis. Jahrbuch der Kirche*, Ratisbon, 1862). The number of members of the French order was estimated at 13,000, and that of all the Sisters of Charity at 28,000.

"Conscious that celibacy alone excites little admiration in modern times, Rome has sought, by her 'Sisters of Charity' and by her educational orders, to give her female aristocracy better claims on the gratitude of mankind. In England and America the female orders have attracted many to the Church of Rome, and softened many antipathies. The association of unmarried females for such purposes will ever have an attraction for romantic minds; yet the well-worked Protestant congregations in our cities send out more such sisters of charity and educators of the young than any of the sisterhoods of Rome. Without any bond but the law of love, and 'without observation,' because without the dress and separation of Rome's 'Sisters of Charity,' thousands now do the part of Priscilla or Dorcas, yet take part in all home duties and enjoyments, unconscious that they are better than others, or that they have attained a higher perfection than their fathers and mothers" (Lewis, *Bible, Missal, and Breviary*, i, 124). See also Fehr, *Geschichte der Mönchsorden*, ii, 328 sq.; Eremites, *Der Orden der barmherzigen Schwestern* (Schaffhausen, 1844); *Methodist Quarterly Review*, Jan. 1849, art. v.

Charlemagne (CHARLES I, or *the Great*), Emperor of the West, was born at Salzburg, in Bavaria, about 742, and, jointly with his brother Karloman, succeeded his father, Pepin-le-Bref, in 768. Karloman died in 771, and Charles became sole sovereign. By his wars against the Saxons, the Lombards, and the Saracens of Spain, he increased his empire until he was master of the best part of Europe. Pepin had granted the exarchate of Ravenna to the pope and his successors forever. After Pepin's death, Diedrich, the Lombard king, attacked the pope (Adrian I), who applied to Charlemagne for aid. He crossed the Alps (A.D. 774) with a formidable army, and terminated the contest between the bishops of Rome and the kings of Lombardy forever. The exarchate of Ravenna was overthrown, its vanquished prince was sent into France, and Charlemagne proclaimed himself king of the Lombards. The conqueror visited Rome, where it is said he not only confirmed the grants which Pepin had made to its bishops, but added to them new donations. By these acts he opened a way to the attainment of an object which Pepin had contemplated, but was unable to accomplish—he was enabled to gain the authority as well as to assume the title of Emperor of the West. In A.D. 800 he visited Rome, where Pope Leo III crowned him Emperor of the West, with the title of Carolus I, Cæsar Augustus. "Although this added



Denier of Charlemagne. Obverse: Figure of the Emperor, with the (Lat.) inscription, "Pope Leo to King Charles." Reverse: "St. Peter," and "Rome" in Monogram.

nothing directly to his power, yet it greatly confirmed and increased the respect entertained for him, such was still the lustre of a title with which were associated recollections of all the greatness of the Roman empire. Nicephorus I, emperor of Constantinople, also acknowledged him, and between them they fixed the limits of the Eastern and Western empires. A profound statesman and legislator, as well as a successful conqueror, he then devoted the remainder of his life to the internal improvement of his vast empire, and to the fortification of its frontiers against the invasions of the Normans and Danes. In 813 he named his third son, Louis (Louis le Débonnaire), his colleague in the empire, and died at Aix-la-Chapelle January 28, 814. "His last days, after the coronation of his son Louis, were occupied in correcting the text of the four Evangelists, in which he was assisted by Greeks and Syrians. Charlemagne had long shown a great zeal for religion; he never failed, while his health permitted, to attend divine service daily, morning and evening. He took great care that the service should be conducted with decorum and propriety, supplied his chapels with abundance of vestments and ornaments, and, being perfectly instructed in the best manner of reading and singing, he corrected the mode of performing both; but he himself never read publicly in church, but contented himself with singing in a low tone and with others. His alms were not only liberally bestowed in his own dominions, but on all the poor and distressed Christians in Syria, Egypt, Africa, Jerusalem, Alexandria, and Carthage; and he cultivated the friendship of unbelieving princes with a view to assuage the sufferings of the Christians under their dominion" (Palmer, *Church History*, ch. xv).

Charlemagne was throughout his reign the champion of Christianity. He never rested until the Saxons were not only subjected, but baptized, if not Christianized; his war against the Lombards, whose kingdom he finally annexed, was originally commenced at the instance of the pope, whose power was menaced by the inroads of these barbarians. It cannot be denied, however, that Charlemagne propagated Christianity by the use of "carnal weapons." His "wholesale and indiscriminate mode of administering baptism on the conclusion of his campaigns drew forth the indignant expostulations of Alcuin and men of a kindred spirit" (Mac Lear, *Missions in the Mid. Ages*, p. 449). "He did not confine his benefactions to the bishop of Rome, but distributed them among all the orders of the hierarchy. He augmented their wealth, he enlarged their privileges, he exalted their dignity, he confirmed and extended their immunities. But the motives of his liberality were such as became a magnanimous and a benevolent monarch. Superstition has never been accounted among them, nor any unfounded fears or undue reverence of the ecclesiastical order; from the former he was perhaps more nearly exempt than would have appeared possible in so rude an age; and in his transactions with the clergy, even with the pope himself, he never forgot, or allowed them to forget, his own supremacy. But he was desirous to civilize his barbarous subjects; he was anxious to influence their rude manners, and correct their vicious morals, by the more general diffusion and comprehension of the Christian truths; and he was willing also to sow the seeds of secular learning, and dispel the ignorance which oppressed his people" (Waddington, *Church History*, ch. v.). As a statesman he favored the Church because he considered it a school for the improvement of his people, and, while adding to the temporal power of the Church, was careful not to render it independent. He decided against image-worship, and in his *Libri Carolini* (A.D. 790, Elias Philyra, 1549; Heumann, Han. 1731), he set forth (in opposition to the decision of the second Synod of Nicæa of A.D. 787), that "God could be worshipped only in spirit," and his opinions were indorsed by the Synods of Frankfort (794) and of Paris (825), censuring Adrian's treatise in favor of image-worship. But, while Charlemagne condemned image-worship as idolatry, the Caroline books approve of the crucifix, and of reverence to the relics of saints, etc.—Hase, *Ch. History* (N. Y. ed.), p. 178; Chambers, *Encyclopædia*, s. v.; Herzog, *Real-Encyklopädie*, vii, 379 sq.; Gibbon, *Decline and Fall*, ch. xlix; Neander, *Church History*, iii, 235 sq.; *Studien u. Kritiken*, 1855, Heft 2; Dippold, *Leben Kaiser Karl des Grossen* (Tüb. 1810); Gaillard, *Hist. de Charlemagne* (Par. 1819, 2d ed. 4 vols.); Abel, *Jahrbücher des fränk. Reiches unter Karl dem Grossen* (Berlin, 1866, vol. i). See CAROLINE BOOKS.

Charles V, emperor of Germany and king of Spain (under the title of *Don Carlos I*), eldest son of Philip, archduke of Austria, and Joanna, second daughter of Ferdinand and Isabella of Spain, was born at Ghent, Feb. 24th, 1500, and died at the monastery of San Yuste, near Placencia, in Estramadura, Spain, Sept. 21st, 1558. His father died when he was only six years of age, and his grandfather Maximilian became his guardian, and placed him under the care of William de Croy, lord of Chièvres, as governor, and Adrian of Utrecht, afterwards Pope Adrian VI, as preceptor.

On the death of his grandfather Ferdinand, Charles, conjointly with his mother, was acknowledged as his successor, and visited Spain in 1517, where the conduct of his Flemish ministers gave rise to serious troubles. In the year 1519 his grandfather Maximilian died, and Charles became a competitor for the imperial crown. Through the efforts of Frederick the Wise, elector of Saxony and regent of the empire, he was chosen over Francis I of France, his principal rival, June 28th, 1519. This contest ripened the jealousy between these young and ambitious sovereigns into an enmity which gave rise to *four* wars, and ended only with the death of Francis.

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decidedly Calvinistic, a variety of opinions are entertained, yet it is universally admitted that they are distinguished by great originality and genius, and are well deserving of the widely-spread attention they have so long received. His reasonings are nervous and his appeals affecting. His judgment was sound, his taste correct, his imagination lively, his piety undissembled. He was grave without being dull, and perspicuous without being wearisome. His *Treatise on the Attributes of God* is acknowledged to be the best in the English language" (Jones). His *Works* were republished in 1815 (Lond. 9 vols. 8vo), with a life prefixed, by Edward Parsons. There is an American edition of the *Attributes*, with a life of Charnock, by Symington (N. Y. 2 vols. 8vo), and a new edition of his *Works* is now going on at Edinburgh (Nichols), 1866, vols. i-v, 8vo. See Jones, *Christian Biography*, p. 106; Symington, *Choice Works of Charnock, with his Life* (N.Y. 12mo); Middleton, *Eccles. Biography*, iii, 443; Calamy, *Non-conformist's Memorial* (Lond. 1778), i, 159 sq.

Char'ran (Χαρράν), another mode (Acts vii, 2, 4) of Anglicizing the name HARAN (q. v.).

Charter-house (a corruption of *Chartreuse*, i. e. Carthusian house) is a hospital, chapel, and school-house in London, established in 1611 by Sir Thomas Sutton. It had originally been a Carthusian monastery, but after the dissolution of monastic establishments by Henry VIII it fell into various hands, and was finally purchased from Lord Suffolk by Sir Thomas Sutton for £13,000, who endowed it with the revenues of upward of 20 manors, lordships, and other estates in various parts of England. This "masterpiece of Protestant English charity," as old Fuller calls it, serves three uses—it is an asylum for poor brethren, an educational, and a religious institution; hence Bacon terms it a "triple good." The Charter-house school is memorable as the place where Barrow, Addison, and John Wesley received their early education.—Chambers, *Encyclopædia*, s. v.

Chartom. See MAGICIAN.

Chartophylax. See CEIMELIARCHÆ.

Chartreux. See CARTHUSIANS.

Chartsan. See KERNELS.

Charul. See NETTLE.

Chase (צוּד, רָדַף, θώκω, etc.). The practice of hunting wild animals early prevailed among the nomade Hebrews (Gen. xxv, 28; xxvii, 3 sq.), and continued to later times to be a common employment (Lev. xvii, 13; Prov. xii, 27; Josephus, *War*, i, 21, 13), both for the sake of the flesh of the game (Sirach xxxvi, 21; but in the Sabbatical year it was allowed to multiply, Exod. xxiii, 11; Lev. xxv, 7; comp. Michaelis, *Mos. Recht*, iii, 178 sq.), and also for the extermination of noxious beasts (2 Sam. xxiii, 20), of both which there was no lack in Palestine (see Harmar, i, 328 sq.). The means employed in this pursuit were usually the bow (Gen. xxvii, 3), the spear or javelin (comp. Strabo, xv, 734), the net (מִכְמֹר, רֶשֶׁת, מָצוֹד; which was likewise used for the larger kinds of animals, as gazelles, Isa. li, 21, and even for lions, Ezek. xix, 8), the sling (צְפִים, פֶּחָ, טוֹקֵשׁ, Eccles. ix, 12; Psa. xci, 3), and the pitfall (פַּחַת, שַׁחַת, Plin. x, 54; comp. Ezek. xix, 4; 2 Sam. xxiii, 20), the last especially for the

Ancient Chase in the Desert of Thebaïd (Wilkinson).

To the left of A was the chasseur in his chariot shooting with the bow, *now defaced*. Figs. 1, 9, 15, 18. Gazelles. 2, 11. Hares. 3. Female hyæna with its young. 4, 13. Foxes. 5 Porcupine. 6. Hyæna arrived at the top of a hill and looking towards the chasseur. 7. The ibex. 8, 14. Hounds. 12. Ostriches (*defaced*). 16. The oryx. 19. Wild oxen.

/ 12'M)68 ' - !' K'._%XI' 1?=6-*' ,)*' 0*.>- =, 12' 2'B1D' L+ 'Q'. .'% ()* '01' 21,' 6==*6-',1')6+*')60') ; 2, 25' 015.'M *,' >1?=%B1.*=)%& !' + 'Q'RX' 620' ,' .' 01 ; D, ; /' 2') ; 2, 25'D -0.' ,)*EI7 ; ,.*0',-6 2*0' 6/^ >12.' 1-C1,)*-' .=*> *.' 1 'D -0.'MA / 62' + A'K X' 6/,)1 ; 5)')689.'M : 6-?6-' 'RX'*/ 9*')1 ; 20.' I*' !' L L' NQT ,-6D1 '+' K T) /1.-,%,)>12% 'KQT 1/ D% LLL 'KKT ;-,' L' 'N T / 2%+ 'S %T *>9*-' " = ' 'NQRX' 8*-*' 62> *2,/ '620' ., /' 6-*' ; 2 +*-.6// ' >1?2'D2' ?6/.' *+*2' 8 ,)1 ; ,' 8*6=12.'MB ; 05% L + '4T ' 6?% L+ 'N X% M **' B6)2 6' ; '& " !' g' SK%X ' ' & 2*-' ' N % >1' * ()*' 2.,-; ?*2,.' 620' ?10*.' 1 ',)*' >)6.*' 6-*' .1?*^ , ?*.' ; *.'0' 5 ; -6, +*/ ,'1' 20 >6,*' ,)*' 8 /*.' 1 '62' 60C ' +1-.6-AC' 5-*6,'0625*-' 1-' ?=*20 25'0*.,-; >, 12'M .6% L' ST' + 'ST' L> 'NT' L> +' NT' >L L'Q T -1+%LL+ ' K T .6% LL +' T L/ 'KKT' B*-% +' 'KST' + 'K T L+ ' KST' L+ 'KKT' L/+ ' T ?1.' L ' T ; 9*' LL 'N T 1?%L 'RT' ' 1-%L+' X% **' % $ L ! H)6.*' D2*-' 6' ? 2 .,*-' 1 ',)*' <*,)10 .,' = .^ >1=6/) ; ->) ' 86.' D1-2' 2' ,12 25,12 ' 122% *>% K Q '620' 0 *0' 2' *22' 62' % =-/ K Q % ,' ,)*' 651' 1 ' R')*' 86.' >12+*-,*0' 620' A1 2*0' ,)*' <*,)10 .,' = .>1=6/) ; ->) % &)*2' KK' *6-.' 1 '65*')*' 86.' / >*2.*0',1' *L)1-,' 620' .112' 6 ,*-' -*>* +*0' / ^ >*2.*',1' =-*6>) : *' >12, 2 ; *0' 6.' 62' *L)1-,*-' 620' /1>6/ =-*6>)*-' 6D1 ; ,' . L' *6-.' /6D1- 25' +*- ' .; >>*..^ ; // ' 2' 8 22 25' .1 ; /.',1')- .,% 2' Q ')*' 86.' 60^ ? ,,*0' 12',- 6/ 2',)*' % % 12 *-*2>*' 620' 6==1 2,*0' ,1',)*' */686-*' ->; ,% ()*' 2*L,' *6-' 6,')' 182 -*_ ; *.,')*' 86.',-62. *--*0',1',)*' 4*2*.**' 12 *-*2>*' 2' 8)1.*'-629.')*'-*?6 2*0'=6-,'1 ',)*', ?*' 6.' .; =*-^ 622 ; 6,*0' ; 2, /).' 0*6,)% *- ' *8' ?*2')6+*' .*-+*0' ,)*') ; ->)' ?1-*' 6 ,) ; // ' 6>>*=,6D/ '620' .,* ; // % T ' ' !+' RT' =-65 ; *' & '+ ' R %)6.*' : *2- '6' ? 2 .,*-' 1 ',)*' <*,)10 .,' = .^ >1=6/) ; ->) ' 86.' D1-2' 2' : 11. >9' % %' *=,% ' R % : .' 6,)*-' D* 25' ; 26D/*' ,1' .*20') ?',1' 6' >/ .C . >6/ %.>)11/')*' D*562' ; 26 0*0' 2' 1 ; ,)' 6' >1 ; -.*' 1 ' .,; 0 ' 8) >)' *20*0' 12/ ' 8 ,)') .' / *7620' 8) >)' 2^ >/ ; 0*0' 6, 2 ' 4-**9' : *D-*8 ' -*2>) ' 620' 4*-?62 ' D*. 0*.' 5*2*-6/ / ,*-6, ; -*' 620',)*1/15 % 2' Q R')*' *2,*-*0',)*' <*,)10 .,' ? 2 ,-' '620' .*-+*0' 2' .*+*-6/ D1- 1 ; .' > ->; ,. ; 2, /' QK '8)*2')*'-*?1+*0',1' *8' 1-9'620'D*>6?*6',*6>)*-' 2',)*' & *./* 62' *? 26- % 2' QKN')*' 0*+1,*0') ?.*/',1',)*' .*-f0>*' 1',)*' .*6^ ?*2'1' *8' 1-9'620'>12, 2 ; *0' 8 ,)' .)1-,' 2,*--; =-* , 12.',1' D*' =6.,1-' 1' ()*' <6- 2*-.'); ->)J' ; 2, / 3) .' 0*6,)'B ; / 'Q Q N% :*' 86.' 5-*6,/ 'D*/1+*0'620' *.,**?*0'CD1,)' D ') .' 182' /1>9'620' " ',)*' 5*2*-6/ = ; D/ >% ' =-65 ; *' & '+ ' Q%)6.*') /620*-' % %' 6'D .)1=' 1 ',)*' -1,*.^ ,62,' = .>1=6/) ; ->)' 86.' D1-2' 6,' 1-2 .)' %' *>% ,)' S' 620' 5-60 ; 6,*0' 6,' 6-,?1 ; ,)' 1//*5*' 2' R % ,*-' 1-0 26, 12')*' 86.' 1>>; =*0' 1-' 6D1 ; ,' 6' *6-' 620' 6')6/ '6.' 6' ? .. 126-A7' 2',)*' ,6,*' 1 ' *8' 1-9' *L,*20 25') .' .*-+ >*.',1' $, >6' ; D ; -2' 6262^ 06 5 ; 6' 620' 1,)*-' =/6>*.% 2' RR')*' 6>>*=,*0',)*' >)6-5*' 1 ',)*' -1,*.,62,' = .>1=6/ >) ; ->)*.' 6,' 1 ; A)C 9>*=.*' 620' ./ 9 //% :*' 86.' 2*L,' 6==1 2,*0',1')- .,') ; ->)' *8' -/*62.' D ; ,' -*, ; -2*0',1' *8' 25/620' 2' Q ',1' D*>1?*' -*>,1-' 1 ')- .,') ; ->)' : 6-, 1-0' '8)*-*')*/6D1-*0' 8 ,)' 5-*6,'6.. 0 ; , '6>^ >*=,62>*' 620' .; >>*..%J' : .',)1 ; 5),.')18*+*-'8*-*' 0 -*>,*0',1',)*' '4-*6,'& *., J' 620' 2' Q ')*'A1 ; -2* ^ *0',) ,)*-' =-*6>) 25'6.') *' 60+62>*0%C 2' <6 ' Q ')*' =-*. 0*0' 6,',)*' -.,' ?**, 25'1 ',)*' =6-.) 12*-.' 1)- .,') ; ->)' 2> 226, '620'D*>6?*'-*>,1-'6,'& 1-,)^ 25,12' 1/; ?D ; .'620' */686-*' 620' 6>>*=,*0' 6/.1' ,)*' >)6-5*' 1 '62' 6>60*? % 2' Q R')*' 86.' */*>,*0'7' D .)1=' 1 ') 1T' 2' QK 'D*' D*>6?*' -*. 0*2,' 1 ' 2^ > 226, ' 1//*5*% *. - 25' ,1' . ; ==/ ' P '*.,' 8 ,)' 62'* > *2,' ? 2 .,- ')*%+ . ,*0' 25/620 'g20'-*>*' +*0' /6-5*' >12,- D ; , 12.' 1-' *0 ; >6, 12% D1 ; ,' QKS'D1' *2^ 565*0' 2',)*' 1 ; 206, 12' 1 ' *2 12' 1//*5*' 620',)*' ()*1/15 >6/ *? 26- ' 1 ') 1% () .' 6.. 0 ; , ' 620' 3 *2*-5 ' 8*-*')18*+*-' // -*86-0*0' 1-' 6' ..620' 86.% ,69*2' D ',)*' =-1 *..1-.' 1 ' *2 12' 1//*5*' ',1',)*' *L,*2,'1 ') .' =18*-.' 1+*-',)*' 2.., ; , 12' 1 '8) >)')*' 86.',)*' 1- 5 26,1-T' 620' 12',)1' .6?*' 06 ' 2' *=,*?^ D*-' QN '8,)') .' ; .; 6/ ?65262 ? , '/>)*'-*. 52*0') .' 1 >*.' 1 '=-*. 0*2,'620' D .)1=' 1 ') 1%J' * 25'218' 2' .*6->)' 1 ',*?=1-6-E7-*=1.*')*' .*/*>,*0' 6.') .' -*. ^ 0*2>*' 6'=/6>*' 2' // 21 . ' 8) >)')1' 26?*0' ()*' 6/^ /* ' 1 ' *6>**25 6 5 *0') *-*' 620' 12',)*' ,%B1.*=) ' < >) 562' 2' ? .. 126- '/6D1-.' 620'=/622 25' 1-') ?^ .*/' 6' 8 0*' > ->/*' 1 '+ . ,6, 12' 8) >)' 2+60*0' 21' ?62 .' 0 1>*.*' =6- .)' 1-' /6D1-.%J' : ' QN ')*' 86.' */*>,*0'D .)1=' 1 ' // 21 . ' 620' ; ,*0' . ?/6-' *L=*0 *2<.. I' 1-',)*' 2,*-*.,' 1 ')' 0 1>*.*' 6.',)1.*' 8) >)')*' D6O' D* 1-*' 601=,*0' 1-') 1% : *' 656 2' + . ,*0' 25/620' 620' >1//*>,*0' 2*6-/ '] ' 1-',) .' = ; -=1.*% 2' QNQ')*' /6 0',)*' 1 ; 206, 12' 1 'B ; D /*' 1//*5*' 620' .)1-,/ ' 6 ,*-'+ . ,*0' < .. .. == ' 1 ; . 626' 4*1-5 6' 620' 1 ; ,)' 6-1/ 26' 8)*-*')*'-*>* +*0'/ D*-6/>12,- D ; , 12.% : .' >1//*5*.' 8*-*' .; D.*_ ; *2,/ ' D*,,*-' *2018*0' 620') .' 182' > ->; ? . ,62>*.' -*20*-*0' *6. ' '21,' >1? 1-,6D/*' 620' ,) ; . ' ,186-0.') .' /6,,*-' *20' ',)*' .? /*.' 1' -1+ 0*2>*' D*6?*0' 12') .' D-160' =) /62,)-1= '620' 2^ 01? ,6D/*' =*-.*+*-62>*%J' : *' 0 *0' *=,% ,)' Q K% : .' =; D/ .)*0' 81-9.' 6-*& ' ' " ' 'M QKSXT' (* $ ' ' " ' ' ' ') I ' ' M QKQXT' 9 ' ') ' ' " ' M QN XT' 5 %$ & '&' 1 %" ' % ' '# ' '" '% % ' 6 ' ' " '& " (' ' Q 'M Q Q' K +1/.% Q+1X% ' =-65 ; *' & '+' NT' =%)6.*.' 5 ' ' & %" ' '&!' !' Q 'MK' +1/.% Q+1' 1.,12' Q 7X%)0)6.*' _ ; -*' 6' <*,)10 .,' = .>1=6/ ? 2 .,*-' 620' ? .. 126-% : *' 86.' D1-2' 2' > = 1' 6 ; 56% 1% ' *8' 1-9' *D- ; 6- ' Q KT' 86.' >12+*-,*0' 6,' 6D1 ; ,' 1 ; -,**2'T' *2,*-*0',)*, -6+*// 25' ? 2 .,- ' 2',)*' 4*2^ *.**' 12 *-*2>*' 2' QKKT' 86.' .*,' 1 ' 8 ,)',)*' /6>9' +*-' 12 *-*2>*' 6,' ,' 1-562 [6, 12' 2' QNST' .6 /*0' 6.' ? .. 126- ',1' D*- 6' >,% QNST' -*, ; -2*0',1' ?*-^ >6' 2' ; 5 ; .,' QN T' 86.' 0*/*56,*' ,1' 4*2*-6/ 12 *-^ *2>*' 2' Q T .6 /*0' 656 2',1' - >0' 2' B62 ; 6- ' Q KT' -*, ; -2*0',1' ?*- >6' 2' < 6 ' Q NT' 620' 0 *0' 6, ' -6^ >; .*' % ' B ; / ' KS Q N% <-%)6.*' 86.' 1 '=-*^ =1..*.. 25' 6==*6-62>*' 26, ; -6/' 6? 6D / , ' 620' ; 26 ^ *>,*0' = *, % 2',)*' = ; /= , ') .' >1? ?620 25' 5 ; -*' 620' *6-2*.,' ?622*-' 56+*') ?' 5-*6,' 60+62,65*' 1+*-') .' 6 ; 0 *2>*' 620') .' .*-?12.' D*.=19*' 6' > ; /, +6,*0' ? 20' 620%0 / 5*2,'=-*=6-6, 12%J' :*' 86.' 6' 5110' .> ^ *2, >' 620' >/6.. >6/ .>)1/6-' 620' 6' + 51-1 ; .' 8- ,*-% .' =-*. 0 25' */0*-')*' 86.' *? 2*2,/ ' * > *2,% 2' Q ')*' = ; D/ .)*0' & '6 ' '" ' ' '# 9 ' - ' '5 ' " ' 9 % ' ' ; ' 5 ' ' ' =% T =-65 ; *' & '+ ' SS %)6.*D6' Md6Z(*VNO ; /5% " 8' 6' 26?*' 6?125' ,)*' / .,' 1 ',)*' .*-+62,.' 1 ',)*' (1?AO>J' M ' .0-%'+' % X' 8) >)')6.' 21,) 25' >1--*.=120 25',1' ,' 2' [-6' M ' QX' 1-' *)*? 6)' M+ ' X' 620' .' =-1D6D/ ' 6' ?*-*' >1-^ -; =, 12' 1 ',)6,' .; >>**0 25' , ' & - ' M_%+%X%)6.)2N6/% **' !)6. D/*% **' ' $!)6. 06)% **' !)6. 0 ?' % *% :' >1?=% ' <6>>%+ ' NX' 6' 26?*' 8) >)' 6?125',)*' 62> *2,' B*8.' 86.' 5 +*2',1' 6/ / 8)1' ?62 *.,*0',)*' <6,,6>)?*2/A71' ,)*' B*8 .)' >-**0' 2' .1?*' *L,-61-0 26- ' ?622*-% (2

6' ?1-*' .=*> 6/ .*2.*' ,' 86.' 5 +*2'W(6' .*>,' 8) >)' 86.' 1-562 [*0' 1-' ,) *' =; -=1.*' 1 ' 1==1. 25' : *//*2 . ,> 2(' 21+6, 12. '620' ; 2 , 25' ,) *' ,-; *' D*/ *+*-.' D '+1/ ; 2,6- ' ?=1. , 12' 1 ' 81-9.' 1 ' . ;=*-*-156, 12% 2' ,) *' , ?*' 1 'B ; 06.')/6>>6D6*; .' ,) *' .*>,' -*60 / 'A1 2*0' ,) *' 5-*6,' /*60*-' 1 ' ,) *' ,-; *H'B*8 .) ' 6 ,)% ( ) *' *. .*2, 6/ =- 2> ^ =/*.' S ' ,) *')6. 0 ?' 8*-*' 6.' 1//18 .d -61.' - 5 0/ ' ,1' 1D.*-+*' 6// ,) *' - , ; 6/ /68 .' 1 '=; - >6, 12T ,1' ?**' ,0C 56,) *=' -* _; *2, / ' 1-' 0*+1, 12 ' >6-* ;// ' =-*=6- 25' ,7*? . /+0=_ 1-' ,' D ' 6D/ ; , 12. '620' 8*6- 25' ,) * -'=) ^ /6>,*- *.' /125*-' ,) 62' 1,) *-. T ,1' .**9' 0 / 5*2, / ' 1-' 1=C =MF-, ; 2 , *.' 1 ' 1 *- 25' .6>- >*.' I7 1' ' 6XT ,1' -D= .*' ;=12' ,) *? .*/+*.' +1/ ; 2, 6- / ' 5-*6, '6>, .' 1 '. */ C 0*2 6/ 620' ?1-, >6, 12T ,1' 6D. ,6 2' -1?' 8 2*' 620' 6// 2,1L >6, 25' / _ ; 1-.' .1?*, ?*.' 1-' .*+*-6/ 8**9. ' 620' .1?*, ?*.' 1-' ,) * -' 8) 1/*' / +*.T 620' ,1' 1D.*-+*' / 9*' ,) *'=- *.. ' ,) *' *+ , >6/ =; - >6, 12.' 0 ; - 25' ,) *', ?*' 1 ',) * -' D* 25' 6[6- ,*. ' 620' .1?*, ?*.' /125*-% ,'6/.1' 6==*6-.' -1?',) *' < .) 26',) 6, ' ,) * ' -*_ ; *2, / ') 60' 6// 3',) 25.' 2' >1? ?12' I& &'+ ' XT ,) 6, ' ,) * ' .1?*, ?*.' 8 ,) 0-*8' 6/, 15*,) *-' -1?' 5*2*-6/ .1>*, '620' 0*+1, *0 I,) * -' 182' 8 +*. ' 620' 81 ; /0' 21, '6, ' 6// /119' 6, ' ., -625*' 81?*2% ( ) *' < .) 26' ..6, *.' I$ ' ' X' ,) 6, ' ,) *.*' =- 2> =/*.' 8*-*' >6-- *0' D ' .1?*' ,1' *L, -6+6562, ' *LC >1. .*% 2' ,) *' >1 ; -.*' 1 ' , ?*' ,) *' 6. .1> 6, 12' 86.' .=/ , ' ;=' 2, 1' =6-, *. ' ,) 1.*' 2. ., 25' ;=12' ,) *' - 5 0' 1D.*-+^ 62>*.' 1-? 25',) *?. /+*.' 2, 1' .*=6-6, *0*21? 26, 12. ' . >) ' 6.' ,) *% ..*2*. ' *, >% ' 8) /*' ,) *' ?10*-6, *' =6-, '-*^ ,6 2*0',) *' 26?*') 6. 0 ?% 2',) *' (6/?; 0 >' =*- 10' M % 'K C X',) *' ?*62 25' 1 ') 6. 0 ?' 86.' 12',) *' 8) 1/*' 656 2',) 6, ' 1 ',) *' 81-0' 2',) *' /0' (*. , 6? *2, ' 0*21, 25',) 1.*' 8) 1' 6->' = 1 ; . ', *? =*-6, *' ? /0' > -D*6-C 25' D*2*+1/*2, ' *, >% ( ) *-*' 8*-*') 18*+*-' 1>>6. 12^ 6// ' [*6/1, .' 6? 125',) *? 8) 2' 81 ; /0' 21, ' 1-' 2. , 62>*' *L, 25 ; .) ' 6' -*' 8) >) ' D-19*' 1 ; ' 12',) *' 6DD6,) T D ; ' ,) *' 8*-*' 62' *L>*=, 12 % 2',) *' =1. , C (6/?; 0 >' =*- ^ 10' 620' 2',) *' < 00/*' 5*. ' ,) *' =) /1.1=) >6/ .>) 11/ 6==*6-.' 1 ') 6+*' ; 20*-. , 110' D ' ,) *' , *-?' ;) 1.*' 8) 1' =1. . *. . *0' . ?=/*' =*, ' 2' >12, -60 ., 2>, 12', 1' .> *2, >' 9218/*05*% ( ) *' 6-6 , *. ' >/6 ?*0' ,) *' 26?*' 1-' ,) 1.*' 8) 1' *6-2*. , /A' .-, -1+*' , 1' 9218' 410' 6.') *' .' 620' 12/ ' 56+*' , ' , 1' ,) *' -'.= - . ; 6/) *60.% ( ) *' 4*-?62' 620' -*2>) ' .>) 11/.' 6/.1' L*0' .1') 5) ' 6' . , 6206-0' 1-' ,) *'_ ; 6/ >6^ , 12.' 1 ' 6') 6. 0' ,) 6, ' *8' *L>*=, ' ,) *' 6DD 2.' >1 ; /0' 6, , 6 2' , % 2' ,) *.*' .>) 11/.' , ' .1?*8) 6, ' 6==-16>) *.' ,) *' 6.>*, > . ?' 1 ' ,) *' 1/0' .*>, ' 620' ., //' ?1-*' 86.' ,) .' ,) *' >6.*' 2' ,) *' 6D6/ ., >' .>) 11/ -*=-*.*2, 25',) *' 1C) 6-' 2' 8) >) ' 6' - 51-1 ; .' 1D.*-+62>*' 1 ' *L, *-26/.' 620' ?1-, >6, 12.' .' 2. .,*0' ; =12%

 ( ) *') 6. 0 ?' 8*-*' -*1-562 [*0' 6.' 6' .=*> 6/ .*>,' 2' ,) *' * 5), **2,) ' >*2, ; - ' D ' 6DD ' .-6*/' D*2C / *[*-' A 6/C) *?' 2' /1-0' 1 ' ,) *' 26?*J b N 1 ; = 1> 6' ?62' 8) 1' X ' 81-0.' 1 ' >12A ; -6, 12' 620' 1,) *-' 1-? ; /6.' 9218.') 18' , 1' *L*-> . *' 7' =18*-' 1+*-' ,) *' + . D/*' 620' 2+ . D/*' 81-/OX' 6/.1' >6//*0' ; " ' -1?',) *' 2^ , 6/.' 1 ' /7 66/C) *?' ?60*') .' =; D/ > 6==*6-62>*' 6D1 ; ' 2' (/ ; . , ' 2' ,) *' 0 .,-> ,' 1 ' [6-, 918 ' -1?' 8) *2>*') *' .; D.*_ ; *2, / ' -*?1+*0', 1' <*-/[D1[*' 2' 101/ 6% : .' ? -6>; /1 ; .' >; -*.' 620' =-1=) *> *.' 6, , -6>, *0' 6, , *2, 12' 2' /6-51' > ->/*.T) .' ?10*' 1 '/ *' >12. ., 25' 1 ' >12, *?=/6, 12' . , ; 0 ' 1 ' ,) *' D119' 1) 6-' 5 + 25' 60+ >*' , 1' 6// 6==/ 25' 1-' , '620' -*_ ; *2, ' 86.) 25.' 2' - +*-. ' .112' .=-*60' 6') 6/1' -1 ; 20') ?' 8) /*') .' / D*-6/' + *8.' 12' ,) *' 5-6, >6, 12' 1' .*2. ; 6/ 862, . ' 8) >) ') *' 0*>/6-*0', 1' D*' ?1-*' >120 ; > +*' ,) 62' =-*&; 0 > 6/ , 1', -; *' 510/ 2*.. ' 0 .=1.*0' 6' /6-5*' 2 ; ?^ D*-', 1' D*>1?*') .' 0 .> =/*.' (1' =-1?1, *' ,) *' .*=6-6, *' 1-562 [6, 12' 1 ' 6' .*>, ') .' 0 .> =/*.' > ->; /6, *0' ?62 ' ? -6>; /1 ; .' -*=1-, .T 1-' 2., 62>*' ,) 6, ') .' 6,) *-') 60' D***2' + . , *0' D ' ,) *' =-1=) *, ' / A6) , 1' =-*0 >, ') . ' D -,) ' 6 , 0,) 6, ') . ' ?1,) *-' 76 . ' 6') ; 20-*0' *6-.' 1/0' 8) *2' .) *' 86.' 0*/ +*-*0' 1 ') ?T ,) 6, ' 8) *2' 6' +1 ; ,) %) *') 60' + >C I' % '

,1- 1 ; ./ ' .,-; 55/*0' 8 ,)' *+ / .= - ,. ' *, >% ' 6// 1 ' 8) >)' ?6 ' D*' 1 ; 20' 2',) *' D119', $ 2' =; D/ .) *0 2' Q ' D ' ,) *' 5-620.12' 1 ' 66/C) *?' 6-' 2[% 66/C) *?' 620') .' . ; >>*. .1-.' -*>* +*0',) *' 26?*' U6C 0 9' - " 8' 620') .' 6?*' 6, ,-6>, *0' ? ; /^ , ; 0*.' 1 'B*8 .' -1?' 6// =6-, .' 1 ' 1/620' 8) 1' 8*-*' 0*^ . -1 ; ' , 1' . ; D ? , ' ,) *? .*/+*.' , 1') .' 5 ; 062>*' 620' D*^ >1?*' ?*?D*-.' 1 ' ,) *' .*>, % ( ) *' 1//18 25' 6-*' ,) *') * '=- 2> =/*.' 620', *2*, .' 1 ' ,) *' . *>, d % ( ) *' 5-*6, ' 6 ?' 1 ' *+*- ') 6. 0' .' , 1' D*' 2' 2, ?6, *' >1? ?; 2 12' 8 ,) WI2 = 7X' 1-' 8*00*0', 1' ,) *' * , ' WI2 1 6' 8) 1' .' -*56-0*0' 6.' 6' D- 0*% ( ) .' >1? ?; 2 12' .' *^ *>, *0' ,) -1 ; 5) ' =-6 *-' 620' ?1-*' *.=*> 6// ' ,) -1 ; 5) ' -*_ ; *2, ' >12, 6>, ' 8 ,) ' ,) *' U60 9' 1-' .= - , ; 6/) *60' 8) 1' .' *.=1 ; .*0' , 1' 410' 620' 8) 1' 6.') .' 0*/*56, *' ; =12' *6-,) ' >62' 01' 6// ?622*-' 1 ' 8120*- ; /,) 25.% ( ) *' U60 9' .' ,) *-* 1-*' ,) *' 9 25' 620' . ; =-*?*' A ; 05*' 1 ',) *' >1? ?; 2 , T) 6.' 6D. 1/ ; , *' =18*-' 1+*-' ,) * -' ,) 1 ; 5) , . ' 81-0.' 620' 0**0.T .' - >) / ' . ; ==1-, *0' D ' ,) *' +1/ ; 2, 6- '>12, -D2, 16.' 1 ') .' 1//18*-.T ,) *EI'=*-^ 1-?' = /5- ?65*.' , 1') ?' , 1' .=*20' ,) *' 6DD6,) .' 620' *., +6/.' 8 ,) ') ?' 8) *2',) *' - >) ' . ' , 8 ,) ') ?' 6, ' ,) *' ,6D/*' 620',) *' =11-' *. , **?' , ' ,) *' 5-*6, *. ' =- + /*5*' , 1' , 1 ; >) ' ,) *') *?' 1 ') .' 56-?*2, ' 1-' *+*2', 1' >6, >) ' 6' 5/ ?=. *' 1 ') ?% K% *+*/6, 12' 620',) *' -*86-0' 1 ' 6// 5110' 81-9.' 0*=*20' ; =12' ' "1' 8) >) ' . ' 5-*6, ^ / ' 2, *- *-*0' 8 ,)' D ' -*.*6->) ' 620' =) /1.1=) % N% ' < -6>/*.' ? ; . , ' D*' ?=/ > , / ' D*/ *+*0' 2T ,) *' 5-*6, *. , ' 0*+1, 12' .' , 1' D*' ?62 *. , *0' 0 ; - 25' =-6 *-' 620') *2>*' .) 1 ; , 25 ' >/6== 25' 1 ') 620. ' . 25 25 ' 062> 25' D* 1-*' ,) *' 1-0 ' *, > ' ? ; . , ' D*' -*. 1-, *0' , 1 ' . 1' 6. ' , 1' =-*>/ ; 0*',) *' 2, -; . 12' 1 ' =-1 62*' ,) 1 ; 5) , . % % *=*2, 62>*' 620' >12+*-. 12' 6-*' *. . *2, 6/ , 1' . 6/+6, 12T 6' ?62' ? ; . , ' 6/^ 86 . ' =-*=6-*') ?. */ ' 1-',) *? ' 620' 2*+*-' 0*.=6 -% % ( ) *') 6. 0' ? ; . , ' 9**=' 6/11 ' -1?' =-1 62*' 9218/*05*' 620' -1?',) *' /1+%*' 1 ' ?6? ?12 ' 8) >) ' /*60.' , 1' ; 2D*^ / * ' D ; , ' 81-.) =' 410' *+*2' 2',) *' =*- 1-?62>*' 1 ' D ; . ^ 2*. . % 4% : *' ? ; . , ' D*' *L>**0 25/ ' >) **- ; /' >12, *2, *0' ; 2. *' / .) ' D*2*+1/*2, ' =*6>*6D/*' >) 6- , 6D/*' 2' A ; 05 25' 1,) *-. ' >1 ; -65*1 ; . ' , *?=*-6, *' 2' D . ' 0-*. . ' 620' ?10*' 1 ' / + 25' *, >% 2' *+*- . ' , 18 2' 1-' + //65*' 8) *-*' , *2') 6.^ 0 ?' 6-*' , 1' D*' 1 ; 20' ,) *' ? ; . , ' ?**' , ' .*=6-6, */ ' 1-' =-6 *-' 620' ?*0 , 6, 12' 620' ; . *' ,) *' =62 .) ' 1-?' 1 ' =-6A 7*-' 2, -10 ; > 25' 2, 1' , ' ,) *' 6D6/ . , >' */*?*2, . % ( ) *') 6. 0 ?' 0*- +*' ,) *' -' 01>, - 2*. ' -1?' ,) *' D/*' ,) *' (6/?; 0 ' 620' ?1-*' *.=*> 6// ' -1?' ,) *' 1) 6-' ; ,) *' 0*6,) ' 1 ' 66/C) *?') . ' ,) -*** 5-620.12. ' 6-' 1 ' <*.*-, [' <*20*/ 1 ' -[*? ./62 ' 620' < >) 6*/ 1 ' 1/9' >12, 2 ; *0', 1' 51+*-2',) *' .*>, ' 8) >) ' 6, ' ,) 6, ' , ?*' 2 ; ?^ D*-*0' 6D1 ; , ' ' ?*?D*-. ' 620' D*>6?*' -?/ ' *. , 6D^ / .) *0' 2' 1/620 ' 6//6>) 6 ' <1/06+ 6 ' 46// * 6 ' 620' 6/*. , 2* ' 2' 6// 1 ' 8) >) ' >1 ; 2, *. ' , ' . , // *L . , . ,) 1 ; 5) ' 0 + 0*0' 2, 1' . *+*-6/' =6-, *. % 2, 1' : ; 256- ' , ' 86.' 2, -10 ; >*0' 2' Q R ' D ' ' <1.*.' 6, , */D6 ; ? ' 12*' 1 ',) *' 6D/*. , ' ?*2',) 6, ') 6+*' ,) ; . ' 6-' D*/125*0', 1' ,) *' .*>, % ( ) *') 6. 0 ?') 6+*' = ; D/ .) *0' 6' 2 ; ?D*-' 1 ' 81-9.' 2' 0* *2>*' 1 ' ,) * -' 01>, - 2*.% ( ) *' 1//18 25' 6-*' .1?*' 1 ' ,) * ?d % ' . ?6// 81-9' >6//*0' I - 81' D *2 1-' 6/?62' 0 >-' Q ' -*=- 2, *0' 2' 02 5.D*-5 ' QKNT K% >? ' ' ' -)81' D ' % 6-12',) *' I *+ , *' 9/18 ' QK T Q% 6' D119' 1 ' *,) >. ' 6--625*0' 2' 6/=) 6^ D*, >6// 1-0*- X ' % 6>) ?62 ' QK % **' , , 1 ' 9 % 1' S' ._ %T : *-[15 ' 5 =6 4 %f 'SN ' ._ T B1. , ' ? " " ' 'D " ' ' ' 1' ' Q ' ._ %T ; ' " * 1' ' ' R RNT ; -. , ' ; O'D ' ' 1?=6-*' 6 !) 6. /% ** / ! !) 6. 9 ; 2 ' 4 ' ' 6' /*6-2*0' B*8 ' 8) 1' /1 ; - /A=0' 2' -62>*' 6D1 ; ' %C KS % : *' 8-1, *' 6' >1? ?*2, 6-E' 12' ,) *' *2, 6, *; >) ' ; . ; 6// ' . , /*0' 7 ' 2' 8) >) ') *' ?60*' /6-5*' ; . *' 1 ' ,) *' < 0-6.) >' / , *-6, ; -*T 20**0' , ' .' 6/?1. , '*2, -*/ ' 6' >1?=9, 12

-1?' .1?*',8*2, '1/0*-'6221,6,1-.% ,'86.'=- 2,*0'D f 1?D*-5'6,' *2 >*' 2' K ' 1/%' 620' 656 2' 6,' 6./*' 2' S S' 620' 2' R'6' >6-* ;// '-*+ .*0' *0 , 12 ' D ' (,,1C - 21' / 621 ' 6==*6-*0' 6,' -*?126 ' ,1% ,' ?6 ' D*' 1;20'6/.1' 2',)*' ; " ' ' 1 ' <1.*.' -629 ;-,*-' M_C' %X' ?.,% K CK % ' ,,1 ' % * ' QT ';-.,' ; !'D !' ' %

) 6 .. 0 ?% *>' ' !

) 6 . ,* 2 T " 1' !' M %X' (1' .,- 9*' 1-'6 />', 12*' 1-') .' 60+62,65*' 620' >1--*>, 12T 620',1' -* ; .*' 1-' 0*.= .*' " 1' 1-' >1--*>, 12 '% .',1' ;20*-LC6/ *' , ' 620'D*' 21,'-* 1-?*0'D ' ,'MB*-% 'N '620'+ 'KQT : *D% L ' X% (D*' 1+*-,)-18' 1 ',)*' B*8 .)' 26, 12' D ',)*')6/0,*62.' 86.' "1' " ' ' ' .' ,' 86.' +*- '.*+*-*' 620' 2 />,*0'D ' >-;*/ 2.,-; ?*2,.' MB*-% ddd' X% MK%X' (1' =;2 .)' 2' MA;.,' 8-6,)' M *+% LL+ KQX% ( ) ; .' ,)*' " 2' ' '% ' 86.' /6 0' 12')- .,T ',)6,'=;2 .)?*2,'D ',)*' D*6- 25'1 '8) >)'1 ;'-*>12> / 6, 12' 8 ,)' 410' .' */*>,*0' 86.' /6 0' 12') ?' 6.' 1 ;-' .;-*, 'M .6% / ' X% (1' " ' M ' ' ,' ,1' D*' *L*-> .*0' D* 1-*' 410' 2' .*/ C6D6.*?*2,' 6., 25' 620' =-6 *-'M 62% L ' KX% ( )*' >- =,;-*,'6-*' 1-' (' D ',)* -'=18*- ;/ 2 /;*2>*',)* ' = *->*' 6' ?62',1',)*')*6-,' 620' ?69*') ?'6?*20') .' *+ / >1;-.*.' MK' (?% ' SX% ' -182' ; ' ; '.% +%

) 6 . , 'M 6,% 8' 2',)*')- ., 62' .*2.*' 0*^ 21,*.' M %X' -**01?' -1?' ?=;-*',)1;5),.' 0*. -*.' 1-' ?65 26, 12.T 620' MK%X' 6D., 2*2>*' -1?' // > ;' .*L;6/ 2,*->1;-.*% ,'-* ; -*.'6' >12,-1/ 1',)*'=6.. 12.'620' 1 ',)*' ?65 26, 12' 1' 6' 0*5-*'* 8) >)' 21' . .,*? 1' ?1-6/.' *L>*=;',)*')- ., 62') 6.' 1+*-' .;>>**0*0' 2' .*^ >;- 25% ()*/1+*' 1 ' 410' 2' ,)*')*6-,' .',)*' 12/ ' .;-*' .6 *5;6-0'656 2..' *+ / ; ,..% ()*' D10 ' 2')- ., 62' *,) >.' .' ,)*',*?=/*' 1',)*' : 1/ %4) 1., J' ;','6=6-;' -1?' =;-*' -*/ 5 1;' / *' 6' ,-.>;' ?1-6/ ,' ?6 ' 01' 6' 5-*6,' 0*6/',186-0' .*>;- 25'=;- , ' '21,' 1 ')*6-,' 6,' /*6.' 1 '/ *% ()*' *+ / >12.*. ;*2>*.' 1 '.*L;6/ 0 .1-^ 0*-' .) 1;/0'D*',6;5),' 2' ?1-6/.' 6.') 20-62>*.' ,1' /;-.,% ?125',)*?' .',)*'>*-,6 2, ',)6,'01?*.,>')6== 2*.. ' 6.' 8*//6.' .)*=) . >6/ 620' ?*2,6/)*6/,)' 1 ',)*'>- ?^ 26/'6-*'*20625*-*0'D ',%)6.., ' .',)*'21D/*.',-*^ .;/,'1 '=;-*' ?1-6/, '1-'1 ',)*' -**' ?6.,*- '1 '.= - ,^ ;6/ */*+6, 12'620'=;- , '1+*-',)*'26,;-6/ 2., 2>,.T ', =-1,*>,.' / D*-, ' -1?' . 29 25' 2,1' .;DA*>, 12', 1' ,)*' /*.)' .1' 6-'12/ ')18*+*-'6.' ,' .',)*-*. :/,'1 '+ -,';*' 21,'1 '6'26,;-6/ 20 *-*2>*' 6- . 25'-1?',*?=*-6?*2,% ()*' D*.,' .1;->*.'1 ' >)6., , '6-*' -., ',)*',-;*' *6-' 1 '410' 8)>)'/*60.',1'6+1 0'1 *20 25'410' D '6' . 2 ;/ ? .;.*' 1 ',)*' 21D/*.,' 1->*' 1 '26,;-*' 620' 0 .,;-D 25' ,)*' 0 + 2*' /68' 1 ') ; ?62' -*=-10;>, 12' D ' D*6./ ' 2^ 0;/5*2>*.T .*>120/ ' *0;>6, 12' 2>;/>6, 25')12*..E ' ?10*., '620'?1-6/ , T ',) -0/ '6>, +*'1>>;=6, 12'D1,)' 1 ' ? 20' 620' D10 T 1;-,) ' ?10*-6, 12' 2' ,)*' ;.*' 1 ' 0- 29' 620' .= >*.%)6., , ' .') 5)/ 'D/*. .*0' 2' ,.'-*^ .;/,.' 1-' -1?' ,'-*. ;/',)*'=;- , '1',)*' .1;/',)*'/ D^ *-, '1',)*'8 //',)*'=-*.*-+6, 12'1')*6/,)'620'..-*25,) ' 620' -**01?' -1?' ,)*' 0 >;/,*.' 620' ? . 1-.;2*.' 8)>)' ;2>)6., , ' *2,6 /.' 12' ,' ;2 1-.;26,*' + >, ?.% ,' .' 6/.1' ,)*' .*6/ 1 '6') 5)' ? 20 '6' ,-;*' + -,-*' 620' 6'. 2>*-*' *6-' 1 '410' M<6-9' + 'K KKT 12 % L ' N' *,' ;'7 86/9')12*./ ' 6.' 2' ,)*' 06 a' 21,' 2' - 1, 25' 620' 0-;29*22*..' 21,' 2' >)6?D*- 25' 620' 862,122*..' 21,' 2' ,.- *' 620' *2+ 25T K 1-% + ' 'ST 46/% + ' RC KKT ' 1-' + ' ' * -6;0' *' 21,'12*',)*' 1,))*-' *L>*=;' ,'D*' 8 ,)' >12.*2,' 1-' 6', ?*' ,)6,' *' ?W' 5 +*' 1;-^ .*/+*.',1' 6., 25'620'=-6 *-T 620'>1?*%,15*,)*-'656 2' ,)6,' 6,62',*?=;' 1;'21,' 1-' 1;-' 2>12, 2*2> T) /% + 'QT ' (?% + ' KT + ' KT (,;.' 'QT ' T ' *,% ' KKT 'K' &) /*',)* 'D*)1/0' 1;-'>)6.,*' >12+*-.6, 12' >1;=/*0' 8 ,)' *6-' 1' 410' M<6-9' + 'K KKT 12 % L ' N' ?6 '.; >*';.',1')6+*' 8-1;5),',)*' 8 //' 1',)*' 4*2, /*.' 8)*2' 8*' 86/9*0' 2' /6.> + 1;.2*..'/;.,.' *L>*..' 1' 8 2*' -*+*// 25.' D62_2*, 25.' 620' 6D1? 26D/*' 01/6^ ,-*.T B6?*.' ' X% : *' 8)1' .' ;20*-',)*' 5; 062>*' 1' 0 + 2*' 8 .01?' .' *..*2, 6// '>)6.,*' MB6?*.' + 'QX% ()1.*' 8)1' 6-*' 1 * 8' 01;D/*C? 20*0' >/ 25' 12',)*

12*' . 0*' ,1',)*' *6-,) '620' 12',)*' 1,)*-' 6.= -*' 6 ,*-')*6+*2% &) *2',)*')*6-,' .' =;- *0'D ',)*' .= - ,' 1' 4_0',)F'MB;6/, '>*6.*.' 620' >)6., , ' .' *6. % ' -*)/' Y -!(D " ' .'% +%

) 6 . ; D/*' I ' 6') ; ,' ,)*' 26?*' 1',)*' -1>9' 81-2' D ',)*' 1?62' =*6.62,.' 2',)*' -6 2X',)*' 1;,*-' 0-*..' 81-2' D ',)*' =- *.,' 6,',)*' 6/,6-C.*-+ >*T >6//*0' 6/.1' % ! ,' .;>>**0*0',)*' 1/0' 1?62',156% ()*' % ' 86.' 6' > ->;/6-' >/1,)' 8 ,)' 12' 6=*-,;-*' ,1' 60^ ? ,',)*)*60' 2',)*' >*2,-*' 8) /*' ,' *// 0182' 1+*-',)*' D10 ' .1' 6.' >1?=/*,*/ ',1' >1+*-' ,% ,' 86.' 1,)*-8 .*' >6//*0' I% O N' %" " ' % ! ( ) .7-=C ' 81-2' -6,)*-'/125*-',)62'>1?2'12' 86.' 601=,*0'6,' 62' *6-/ '65*' 1-',)*' 1;,*-' 0-*..' 1 ',)*' >/*-5 % ()*' 1? .)');->)')6.' 6/,*-*0' ,'D ' >;,, 25', '68 1 ' 6,' ,)*' . 0*. ' .1' 6.',1' *L=1.*',)*' 6-?. ' 620' /*6+*' 12/ ' 6' .,-6 5),' = *>*' D* 1-*' 620' D*) 20% ()*' >1/1-' 1',)*' +*.,? *2,' +6- *.' 6>>1-0 25',1',)*' 0 *-*2,' *., +6/.' 1 ',)*');->)' 6,' 8) >)' ,' .' ;.*0% ()*' 4-**9%);->)' -*,6 2.' ,' 2' ,.' =- ? , +*' .)6=*% ,' 1 ,*2' 6==*6-.' 12' ,)*' 1/0*-'.>;/=,;-*.'620' ?1.6 >.' 620'6/.1' 2' 1/0'D-6..^ *.' 2' 25/620% 6/?*-' ' ! ! 'N RT : 119' " "' ' 1' .% + %T *5*/' & " ' ' SN' .-_%T <6-, 52 ' ' 2 ' '& 4 $' S%

) 6 , */ ' ;% **' ;' ' !!

) 6 ,/ ?' M 7762X' 1-') 6 , ; //?' M ` aa2X' 6' =/6>*' 2' 6/*., 2*' ?*2, 12*0'D ',)*' (6/?;0 .,' MBV>7' " "' QS DX' 620' ?60*'D ' >) 86-['I1 f=%/ QX',1' D*' ,)*' ?10*-2' + //65*'&2 " 2' *6.,' 1' <,% (6D1 I7 21,' 6-' -1?' B1-062 I' +)*-*' ,' .' ?6-9*0' 6.' 62 # ' 12' 62'0*' */0*.' %!

) 6 ,. -% **') !

) 6 ; 2> ') 6-/*. ' 6' 125-*56, 126/ ? 2 .,*- 86.' D1?' 2' 6-0/* D ;- ' /*-, 1-0.) -*7' 25% ' RK' : *' *2,*-*>H' 6.' .,;0*2,' ?' (- 2 , ' 1//*5*' 6?/A- 05*' 620' =6..*0' <% ' 2' S ' : *' 86.' >)1.*2' *//18' 620' 86.' ?60*' D6>)*/1-' 1 '0 + 2 , ' 2' SK ' 620' ., // /6,*-' 86.' *'/*>,*0' =-1 *..1-' 1 ' 4-**9% : *' /* ', ,)*' $2 +*-^ , ' 72,*-*0',)*' ? 2 .,- ' 620' 2' SK ' D*>6?*' + >6-' 1 ' & 6-*% : *' 86.' D-1;5),' D* 1-*' 6;0' 1-') .' 1==1^ . , 12',1',)*' 119' 1 ' =1-.,J' 2' SKR' 620' 2' SN ' / * 86.' 1;20' 5; /, ' 1 ' 0 .1D*0 *2>*' 620' >12,*?=,' 1 ');->)' 6;,)1-, ' D;,')*' ?60*' 6' -*>62,6, 12% : *' 86.' 6 ,*-86-0.' . /*2>*0' 620' >6?*',1' *8' 25/620' 2' SNQ% D1;',)-**' *6-.')*' / +*0' 6,' / ?1;,)' 620' ,)*2' D*>6?*' =6.,1-' 2' > ,;6,*% 2' 1+*?D*-' ')*' 86.' >)1.*2' =-*. 0*2,' 1' : 6-+6-0' 1//*5*' 2' 8) >)' .,6, 12')*' -*?6 2*0' 8 ,)')121-' ;2, /') .' 0*6,)' *D% R S K' : *' 86.' ,)*' 6;,)1-' 1' .*+*-6/ 6, 2' 620' 4-**9' =1*?.' 620' 6/.1' 1 '5 ' ' " ! " = ' 'D 1 " ' ' 6-*' ' " " ' =' ' "' " ' ' # ' '" ' ' '7 '6 ' ' SN ' M 120% S XT - = '$ ' 'D 9 ' M ,1' S RXT & '& '620' 6' *8' 1>>6. 126/ .*-?12.% ' =-65;*' & $' ' %) 6 ; 2> ') 6-/*. ' % %' 6' 0*.>*2062,' 1 '=-*. C 7 0*2,')6;2> ' 1 ' : 6-+6-0' $2 +*-. , ' M.** =-*>*0 25' 6-, >/*X' 86.' D1-2' 2' 1.,12' B62%' N' '5-60;6,*0' 6,' : 6-+6-0' 2' QK ' .,;0 *0' 0 + 2 , ' 620' 86.' 1-06 2*0' =6.,1-' 1 ',)*' -.,');->)' 2' 1.,12' 2' K % : *' 86.' 0 .,25; .)*0' 1-'/*6-2 25' 620' 20*=*20*2>*' 620' 86.' 12*' 1 ',)*' 1;20*-.' 1 ' $2 +*- 6/ .2% : *' 0 *0' *D% Q ' 2',)*' * 5), C,) -0' *6-' 1 ') .' 65*% : *' =;D^ / .)*0' & % ' N ' 6% % S' ' $ ' -" 1 " ' M1==1.*0',1' &) , */0X' S:T -" ' @ 2' ' 1' 4 ' Q a' ' -" ' ; ' ' ' ' ' 7 ' Q+1ST -" ' $ ' ' ' Q ' Q+1T' 62^ .8*-*0' D ' 086-0.' A;2% I1 + ' % % *0% ' +1/% ' CK RX%

) 6 ; 2> ' .6 6> ' 62' 25/ .)' 12>12 1-? .',0 ^ + 2*' M.12' 1 ')6-/*.')6;2> ' .,'\ +%hX' 86.' 12*' 1 ',)*' ? 2 .,*?' *A*>,*0' 2' SSK' 620' 6 ,*-86-0.' D*>6?*' =6.,1-' 1 ' 6' 125-*56, 126/) ; ->)' 6,' 201+*-% 2' NSQ ')*' D*>6?*' =6.,1-' 1 ',)*' 20*=*20*2,') ; ->)' 2' 12012' 8) >)')60' =-*+ 1 ;./ ' D**2' -%B1) 2' 8*2 .C

2' ')*' *, -*0' -1?', *' ? 2 .,- ' 620F86.'=-1 *..^ 1-'1 '0 + 2 , ' 1-' .*+*-6/ *6-.' 2',)*' ..*2,*-.I' >60C 3'*? ' 2' 12012% : 1'0 *0' *D% KQ K% ?127') .' 8-, 25.' 6-*' -"0' ' ' ' 1' " " S T -" ' ' ' ' ? ' M 2' >6,*>)*, >6/ 1-?↑ 12O% N K?18 S T 7 ' " 'M 12O% S XK% ' 6/6? ' 7 (' =' ' 1 ' %) 6[-% **' !) * D 6 -' M : 1D%) " (1' =*-)6=.' -1?' ,. ":' *=,% d1VNO=X'6'- +*-' 2',)*' /620'1',)1)6/C' O6*62.J' M [*9 ' ' NX' % *% 6==6-*2,/ ' 1 ' <*.1=1,6? 6' M>1?=%K 25.' LL + ' X' 12',)*' D629.' 1 '8) >)' .1?*' 1 ',)*' B*8 .' 8*-*' /1>6,*0' 6,',)*' , ?*' 1 ',)*' >6=, + , ' 620' 8)*-*' [*9 */ .68') .' *6-/ *-' + . 12.' M [*9% ' T' ' 'KNT L' 'K 'KNT L/ 'NX% ,' .' >1? ?12/ '-*^ 56-0*0' 6.' 0*2, >6/ 8 ,)',)*' % ' :X% 3' 1-' - +*-' 1 '41[62',1' 8) >)'.1?*'=1-, 12' 1',)*' .-6*/ ,*.' 8*-*' -*?1+*0' D ',)*' ..A(62.'MK' 25.' L+ ' SX% ; ',) , ' .' 6' ?*-*' >12A*>,;-*'-*., 25' 8)=// ' ;=12',)*' . ? /6-^ , ' 1 ' 26?*' 8) >)' 6 ,*-' 6//' .' 21,' +*- '>/1.*% ' , ' =*-)6=.' D*,,*-' ,1' .;==1.*' ,)*' ,81' .,-*6?.'0 ., 2>,T ?1-*' *.=*> 6// ' '8*' -*56-0',)*' : 6D1-' 6.',)*' 62> *2,')6D1-6.' M?10*-2')6D1;-X' 8) >)' */// 2,1',)*' ;^ =)-6,*.' 6,' ->*. ;?' 1-' 2' ,)*' /0' (*.,6?*2,',)*' 26?*' 1 ')6/0.*6' .' 2*+*-' *L,*20*0' .1' 6-' 21-,) 86-0% ()*')*D6-' 1 ' [*9 */ ?;.,' D*' /119*0' 1-' 2' 6D ^ /12 6% ,' .' 6' 26?*' 8) >)' ? 5),'=-1=*-/ ')6+*' D**2' 5 +*2',1' 62 ' .,-*6?'M>1?=% (8' *-^)6=.',)*' + *&A'8) >)' 20.' .1?F'.;==1-,' 2' / 2A'7MVV% 7!'+ 'KSX'620' .'601=,*0'D ' 1>)6-,'I1 " ' 'QX'62Z/ >//6-;.' I? %"!'>% KKX',)6,',)*')*D6-'1 ' [*9 */ .',)*'7 " ' "-1'1-' 1 6/ 626/1 ' *D;>)602*[[6-' ',)*' ' E',)*'>;,, 25.' 2' <*.1=1,6? 6 ' ?6 ' D*' -*56-0*0' 6.' D*.,' 0*.*-+ 25' 6>>*=,62>*% 2',)6,' 8*' ?6 '.;==1.*',)*'B*8 .)'>6=, +*.',1')6+*' D**2' *?=/1 *0' 2',)*' *L>6+6, 12' 1 ',/ *' >)622*/% ()6,')6/06*6' 21,' $==*-' <*.1=1,6? 6' 86.' B)*' .>*2*' 1 ' [*9 */.'=-*6>) 25' .' 20 >6,*0'D ',)*',-60 , 12' 8) >)' =/6>*.') .',1?D' 6,' * / M 1 ,;. .' " 1'=% N X% '' ? ,)' .%+% **' >- !) * D*/' M D62 ' " (" .' ;.;6//E' -*20*-*0' 2' ,)*' 1/0*-'+*-. 12.' % -% ' 8 = L8=1+T = ' (81'12*'1',)*' . 25;/6-',1=15-6=) >6/,*-?.' M_'+%X' 2'8) >)',)*'62> *2,' :*D-*8'/625;65*' 6D1;20^ *0'620'8) >)'600'.1' ?;>)' 1->*' 620'=-*> . 12',1',.' -*>1-0.% ()*' 1-0 26- ' ?*62 25' 1 ',)*' 81-0' .' 6' -1=*!'1-' '>1-0 6 2 0' 2',) .'.*2.*' ,' -*_;*2,/ '1>^ >;-.' D1,)' /,*-6// 'M6.' B1.)' ' >1-0T!' ' 25.' ddd'N ' -1=*.T!' .6'LLL KN' ',6*9/ 25. ?1.' + ' ' / 2*!X'620' ?*,6=)1- >6// 'M .' >>/>.%L ' ST' .6% ' QT' :1.% L ' X% -1?',) .' ,') 6.'=6..*0 ' 8 ,)' 6'

6/*., 2*'" ')*01-/61?*-'620') .'>12 *0*-6,*.' >6;.*0' ,)*' .')*=)*-0C9 25.',1' /*6+*' ,)*' 6.,' 620' .*,,/*' 2? 5 =,'>; 'D6 % '=%B X% ( ) *'26--6, +*' .' .,-625*C E' .;==1.*0' D ' : ,[5'> '0" 7' SX',1' D*' 6' /6,*' >, 12' -* *-- 25', 1' ,)*' *L=*0 , 12' 1 ' *226>)*- D' 656 2..' B*-;.6/*? '№>1?='4*2%L + ' S' 620' K 25.' L+ ' NX' **' 12',)*' 1,)*-'. 0*' (;>)'M4*2>.%=%N QX" *-,)*6;' > !' ? " " 1'=%K X' **' >

) * * 9' (',)*' * ' 6.' 1 ,*2' -*20*-*0† 1 8!' ? , 25'; =12',)*' >)**9' .' -* _;*2,/ '.=1^ 9*2' 1 ' 2',)*' >- =,;-*.' 6.' 6' ?1.,' 5- *+1;.' 2.;/,' 620' 2A;- 'MB1D'L+ ' 1' 6?% 'N 1' < >'+' 1' ;9*'+ ' KRX1' 620',)*' 2> 0*2,6/ 21, >*.' 1 '?10*-2',-6+*//*-.' 12' ,) . ' 6.' 12' 1,)*-' .;DA*>,.' *L) D ',)*' / ,*-6/ 6>>;-6> ' > ' V *'/625;65*' 1 ',)*' 2.= -*0' 8- ,*-.% 1-0' 6/*2C , 6 ' 2') .' - 1'6//;0 25',1'D2*' 1 ') .' .*-+62,. ' .6 . ' 6+65S' 86.' 0**=/ ' 2>*2.*0† 21-' >1;/0' ' 01' ?1-*' ,)62' 20;>*') ?' ,1' >1?*' ,1' ,)*' 6>,1- ' 12' D;. 2*.. ' 8) /*' ' 86.' ,)*-*' <-% - 25/*')6+ 25 ' 2' 12*' ') . ' ,.' .,-;>9') ?' 12',)*' >)**9' 8 ,)',)*' .1/*' 1 ') .' ./ =^ =*-%J l' -' & % ;.*/* ' .=*69 25' 1 ',)*' *-. 62' >1;-,. -*?6-9. ' &)*2',)*' + [-' 0*>/6-*0') ?.*/ ';26D/*',1' =-1>;-* ,)*' ?12* ' 6,))' / ')6)'-*=-16>)*0') ?' 1-') .' >- ?*. ' .,-;>9') ?' 12',)*' 6>*' 620' 8 ,)',)*') 5)' 8110*2)**/' 1 '6' ./ ==*-' 6/86 .' -12CD1;20 'D*6, 1;',.*+*-6/' 1 ') .',**,)%J' 1D*-,.' -*?6-9.',)6,',)*' : 2011' >62' D*6-' 6/?1.' 62 ',) 25' 8 ,)1;,' *?1, 12' *L>*=,'./ ==*-25 ',)6,'. '6' .,-19-*' 8 ,)',)*' .1/*' 1 '6' ./ ==*-' 1-' .6206/' 6 ,*-' 6' =*-.12')6.',69*2' ,' 1 ') .' 11,' 620' .= ,';=12',a' ,) .' .' 0-*60*0' 6D1+*' 6// 6 ^ -12,.' 620' >12. 0*-*0' 6.' 21' /*..' 521? 2 1;.',)62' . P ,, 25' 2',)*' 6>*' 1-' D*.=6,,*- 25' 8 ,)' 0 -,' 6?125' ;-1=*62.% 2' 625- ' ?62' 1 ,*2' .6 .' ' ' 8 // D*6,' ,)E7>)**9 ',)1;'/18C>6.,*' */*//18%J ( ) *',*-.?' ' + "" 1((2' .6 ' ' .' ;.*0' 5;-6^ ,+*/ '620'=-*.*2,.',)*' .6/? ..' .;--1;20*0' " ') .' *2^ *? *.' 6.' D ' 6') *-0' 1 ' 8 /0' D*6.,.' 620' 0*21,*.',)*-' >1?=/*,*' 0*=- +6, 12' 1 ',)*' =18* ' 1 ' .* [25';=12' 1-' 0*+1;- 25',)*-' =-* % 2' B1*/' ' 4',)*' " "= "](" , (81' ' 1 '/1>;.,.' 6-*' >1?^ =6-*0',1',)1.*' 1 '6' D*6.,' 1 '=-* %

) * * .*' M 2' ' 6?% L+ ' Q' + = 1'" = " N' ' ' " '\>;-0/*0h' +:' *=,' -=;'C I1 O ' ' O) - '< ! ' :' 2' K' 6?% L+ 'KR' ? /(' " %" "(' 6>>1-0 25',1',)*' 6DD 2.' .1' >6//*0' -1?' D* 25' ' -1?',D*' 8)* ' =*,% O O 1% :' 2' B1D' L ' ' 1 "(' 9 ' ? /9' *=,' -;=1 X% ,' .' 0 >;/,',1' 0*> 0*')18' 6-',)*.*' ,*-?.' >1--*.=120' 8 ,)' 1;-' 21, 12' 1 ' " ' 1-',)* ' . ?=/ '*L=-*..'+6- 1;.' 0*5-**.' 1 '>165;/6, 12' M.**' 4*.*2 ;.' -" !' ; !' =!' K 'SKSX% ,' ? 6 'D*' 1D^ .*-+*0',)6,')>)**.*' .' 21,' 6,',)*' =-*.*2,' 06 '>1?? 12' 6?125',)*' *01; 2' -6D.' D;,,*-'D* 25' 0*> 0*0/ '=-*^ *--*0' D;,',)*-*' .' 6'.;D.,62>*' >/1.*/ ' >1--*.=120 25' ,1',)1.*' ?*2, 12*0' 2' ' 6?% L+ 1' K 6?% L+ ' >12^ . ., 25' 1 ' >165;/6,*0' D;,,*-? /9' 8)>)' .' 0- *0' ;2, /' ,' D*>1?*.' _;,*')6-0 '620' .',)*2' 5-1;20a ,)*' -6D.' *6,',' ? L*0' 8 ,)' D;,,*-'M ;->9)6-0,' 7 ' " ' ; 9 ' ' S X% ,' .' 21, >*6D/*' ,)6,',)*' 62> *2,.' .**?' 5*2*-6// ' ,1')6+*' ;.*0' *,)*-' D;,,*-' 1-')**.*' D;,' 21,' D1,)a ,);.',)*' 4-**9.')60' 2' -*6/ ' D;,' 12*' *L=-*.^ . 12' 1-',)*' ,81' 1-'1 % T ' ' >)**.*' 1' 9 2*%J ()*' 1?62.' ;.*0' >)**.*' *L>/;. +*/ ' M.**' *-16/0' '&% *!' ' =% KSX' 8) *' 6// 21?60' ,- D*.'=-* *--*0' D;,,*-% ()*0 .,2>, 12' D*',8**2')**.*' =-1=*-' 620' >165;/6,*0' ? /9' .**?.7,1' D*' -* *--*0',1' 2' / 2 'L 'RS% **' 8$! 7 ()*' ?1.,' ?=1-,62,'=6..65*' 2' 8) >)',) .'=-*=6-6^ , 12' -1?' ? /9' .' ?*2, 12*0' 2' >- =,;-*' .',)6,' 8)*-*' B1D' ML' X' 5;-6, +*/E7' 0*.>- D 25',)*' 1-?6, 12' 1 ' ,)*' 1*,;.' 2',)*' 81?D' .6A7.a .',21,'/ 9*' ? /9',)12' 81;/06,'=1;-' ?*' 1;,% +*2'/ 9*')**.*' 81;/0.',>;-0/*' ?*H ()'.',*L,' 6//;0*.' ,1',)6,' =-15-*.. +*' .1/ 0 >6, 12' 8)>)' .'>1?k 12',1' 6//')**.*' 8)>)' .' 6/86 .' .1 , 8)*2' 2*8',)1;5)' ,')6-0*2.' 8)*2' ,' D*>1?*.' 1/0% $201;D,*0/ ' ,)*' - *2,6/.' 01' *6,' >;-0.' 1-' >;-0/*0' ? /9' D;,',)6,',)*-* 1-*',)*' -')**.*' >12. ..' 1 ' >;-^ 0/*0' ? /9' .' 21,',)*' >1--*>,' 2 *-*2>*% & *' 6/.1' *6,' >;-0.' D;,' 01' 21,' -*56-0' >;-0.' 6.' >)**.*' ?' 2* ,)*-' 01' ,)* % ()*' 1,)*-' =6..65*.' 0*.>- D*' >)**.*J' 2' ,)*' =/;-6/' 6.' =6-,.' 1 ' ? / ,6- ' =-1+ . 12' 1-' 8) >)' ,)*' ?1.,' .1/ 0' 620' >1?=6>,' .;D.,62>*.' 6-*' 6/86 .' =-* *-^ -*0% *-.12.' 12' 6' ?6->)' 81;/0' 21,' / 9*' ,1' *2>;?D*-' ,)*?.*/+*.' 8 ,)' >;-0/*0' ? /9' MK' 6?% L+ ' KRX% ** $! ()*-*' .' ?;>)' -*6.12' ,1' >12>/;0*' ,)6,',)*' >)**.*' ;.*0' D ',)*' B*8.' 0 *-*0' 2' 21' -*.=*>,' -1?',)6,', // >1?2?12' 2',)*' 6.,' 8)>)' .';.;6// ' *L) D ,*0' 2' .?6// >69*.' 6D1;',)*' .[*' 1 ' 6',*6C.6;>*-' 8),*' 2' >1/1-' 620' *L>*.. +*GE7' .6/,% ,')6.' 21' - 20 ' 620' .112' D*>1?*.' *L>**0 25/ ')6-0' 620' 0- ' D* 25' 20**0' 21,' ?60*' 1-'/125' 9**= 25% ,' .' D*.,' 8)*2' 2*8' 620' >1?^ =6-6, +*/ ' .1 ,' 620' 2',) .' ..,6,*' /6-5*' _;62, ,*.' 6-*' >12.;?*0' 2'/;?=.' 1-'>-;?D.' 21,' ?60*';=' 2,1' >69*.% // >)**.*' 2',)*' 6.,' 1 '+*-' 20 *-*2',_;6/, ' 620',)*' 26, +*.' 2 2 ,*/ ' =-* *-' 25/.)' 1-' ;,>)' >)**.*' 8)*2',)* ' >62' 1D,6 2' ,% 2' ?69 25' >)**.*' ,)*' >1?2?12' -*22*,' .' * ,)*-' D;,,*-? /9' 1-' 6' 0*>1>, 12' 1 ',)*' 5-*6,C)*60*0',) ../*' 1-' 8 /0' 6-, >)19*% (D*' >;-0.' 6-*' 6 ,*-86-0.' =;,' 2,1' .?6// D6.9*,.' ?60*' 1 ' -;.)*.' 1-' =6/?' /*6+*.' 8)>)' 6-*',)*2',*0' ;=' >/1.*' 620',)*' 2*>*..6- ' =-*..;-*' 6==/ *0% M **' ,,1' @ ' ' 21,*' 12' ' 6?% L+ ' 9 X' **' ! ()*-*' 6-*' .*+*-6/ 0*>. 12.' 2' ,)*' < .)26' -*/6, +*',1',)*'=-*..;-*' D '8)>)'>)**.*' 86.' ?60*'> " ' + KX% ()' .'=-1+*.',)6,1' 6.' 1D.*-+*0' D* 1-*' 21' =-*=6-6^ , 12' 1 ' ? /9' 86.' -*56-0*0' 6.' >)**.*' 8)/*' 2' 6' /;0' .,6,*' 1-' D* 1-*' D* 25' .;/AA*>,*0',1'=-*..;-*% 2' 621,)^ *-' =/6>*' >& ' $ ' ' X' ' .' 0*> 0*0',)6,' >)**.*' ?60*' D ' 1-* 52*-.' >1;-/0' 21,' D*' *6,*2 ' -1?',)*' *6-',)6,' ,' ? 5),'=1.. D/ 'D*' 0*- +*0' -1?',)*' ?/9 1 '.1?* 62 ?6/ 8)>)')60' D**2' 1 *-*0' 2' .6>- >*',1' 01/.% ' .',)*-* 1-*' >*-,6 2',)6,')>)**.*' 86.' 9218 2',1',)*' B*8.' M>1?=%)/1T ,%%' ' cN T ,)1' !' ; !'=% K X' 620',)*-*' 86.' *+*2' 6' +6//*' 6,' B*-;.6/*?' >6//*0' ,D*' - % ' M_% +%X' % *' " = " (+6//*' I 1' 8 ' - -- Y 8' 01;D,/*..' -1?',.' D* 25' 1>>;= *0' D ' =*-.12.' 1 ',) .' >-6 ,' MB1.*=);. ' +' ' X% ** 8 - f' 2' 2.,-;?*2,' 1-' >;,, 25' -?' >)**.*' .' *+*2' 26?*0' 2',)*' < .)26' I$" N !' L+ ' KX% M **' 5*2^ *-6// ' $51/2 ' ; ' ' ' ! D f' \ 2') .' -" =' ' LL Lh' ' %X' **' !

)*9*' '(' '86.' D1-2' 6,' 6?D- 05*' B;2*' S' '620' 86.'*0;>6,*0' 6,',)*' $2 +*-. , ',)*-*' 0*+1, 25') ?.*/' *.=*> 6// ',1',)*' .,;0 '1' 4-**9',)*2' ?;>/' 2*5/*>,*0' 25/620% &)*2',)*' -.,'=-1 *..1-.)=' 1' 4-**9' 86.' 1;20*0' 2' 6?D- 05*' D' 9 25' : *2- ' '6D1;,' ')*9*' 86.' 6==1 2,*0'=-1 *..1-% : *' 86.' ?60*',;,1-' 1',)*' =- 2>*' 6 ,*-86-0.' 08 6-0' ' D;,' 8)*2' _;**2' < 6- '>6?*',1',)*',)-12*') .' =-1=*-^ , ' 86.' >127.>6,*0% : *' /*0',1',)*' 12, 2*2,')';,' 86.' 6--*.,*0' 6,' -;..*/.' D ' 1-0*-' 1 ') / =' ' 620' .*2,' D6>9',1' 12012% : *' 6DA;-*0' -1,*.,62, .?' D;,',) .' 6>,'=-* *0' 12') .' ? 20' 620')*' 0*0' 2',)*' 1//18 25' *6-' *=,*?D*-' N % : .' 8-, 25.' 8*-*'+*- '2;^ ?*-1;.' 620'/*6-2*0' 6?125',)*?'6-*';',' ' ; ' M 120% ' ,1X' ; ' ' ' ' ? 'M 6./' XT' - ' ' " 'M-1?',)*' 4-**9' *0,*0' D' 41108 2' 6?D- 05*X% ''? !' ; !' ; !' 'N T , =*' ' ' " + ' M 120% 'Q+1XT' == .' ; !' ; ' ' Q %

)*/6/' M : *D%) N ' 77N' % :' *=,% O =' O O8' 12*' 1',)*' .12.J' 1' 6)6,)C<16D' 8)1' 0 +1->*0') .' 4*2,/*' 8 *' 6 ,*-',)*' -*,;-2' -1?' 6DA012' M [-6G d' N X% % % Q%

)*/D*26)% **' & $!

)*/>6.' IO O) ' % *% + D 8',)*' 26?S' 1' ,)-*' 1-' 1;-' ?*2%

?1-*' -1?' ,)*' 1->*' 1 '> ->; ? .,62>*.' ,)62' -1?') 6' 182' ,)*1/ A7>6/ ,*20*2> *.' ,)6,')*' 6==*6-*0' ,1' D*' 6' /*60*-' 1 ',)*' ;,)*-62' =6-, %J' 2') .')- .,1/15 ' .**' 1-2*-.' ' ' "(' 0 +% ' +1/% ' RQ' . % ** 6/.1' *2,[' ' !' ') (/' M41,)6' QSSXT' : 6>) */0' !' " /' M > =[% QS X%

) * ? 1 .)' M : *D%) 1 E' 0 , ' =*-)% 1' 1-' \6.' ;-.,' =-* *-.h' = :' *=,% d678>X' ,)*' 26^ , 126/0* , '1 ',)*' <16D ,*.'M ;; % LL 'KRT' B*-%L/+ ' N SX% 2' B ; 05% L 'K ' M.**' -6 ,' 2?1.' 'D %+A' " ' 1' -/625% SSX')*' 6/.1' 6==*6-.' 6.' ,)*' 510' 1 ',)*' ? ? 12 ,* . ' D ;' I21,' 1 ',)*' ?1- ,*.' M6.' 1' & *,,>' .,6,*. ' & " !' = ' NKQX% 1/1?12' 2,-10 ;>*0 ' 620' B1. 6)' 6D1/ .)*0',)*' 81-.) -' 1 ')*?1.)' 6,' B*-.;^ .6/*?' M ' 25.' L ' T' K' 25.' LL ' NX% ** ? 4' O [F:' & ,)' -*56-0',1',)*' ? *62 25' 1 ',)*' 26 2*' 620' ,)*' =1. , 12' 8)>)')*?1.)')*/0' 2' ? ,)1/15 ' 8*')6+*' 21,) 25',1' -*>1-0' D* 120' 01 ; D, ;/ 620' 0 .>1-0^ 62,' >12A*>, ;-*.% B*-1?*' I !' ' .6% L+ 'KX' 0*2, ^ *.') ?' 8 ,)' ; = ' M>1?=% */0*2' ' ' ('$!' =% S ' N XT' 1,)*-.' 8 ,)' ; ' . "' 12' *, ?1/15 >6/ 5-1 ; 20.' M : 0*' ' ' !' !' !' XT' 1,)*-.' 6.' 4*C .*6 ; .' I-" !' =% SRNX' 8 ,)' 1' 1-',)*' 510' 1 ' 86-' 12' . ? /6-' 5-1 ; 20.'7 620' 1,)*-.' M * *-' '$ 1' =% NKNX' 8 ,)' $ 1' 6.' ,)*' .,6-' 1 ' // 1?*2 ')*?1.)')6+ 25' D**2' 81-.) ==*0 ' 6>>1-0 25',1' 6' B*8 .)',-60 ^ , 12' M>1?=% 1>1>9*' $% !' =% N X' ; 20*-' ,)*' 1-?' 1 '6' D/6>9' .,12*T 620' /6 ?12 0*.' .,6,*.',)6,') .' 81-^ .) ==*-.' 8*2,' D6-*)*60*0 '620' 6D.,6 2*0' -1?',)*' ; .* 1 '56-?*2,.' .*82',15*,)*-' D ',)*' 2**0/*' M.** 6/?*.' ' ! 'K ' ._X% ( ) .'/6.,' 0*2,)*6, 12' .' 6+1-*0' D ',)*' >122*>, 12' 1 ',)*' 26?*')*?1.)' 8 ,)' ,)6,' 1 ' <1/1>)' 1-' < />1?' M ')-12% L ' T' K' 25.' LL ' NX' 620' D ',)*' .6>- >** 6==6-*2,/ ' 1 '>) /0-*2',1') ?' M.** K' 25.' 'K X% : 6>9?622 ')18*+*-' I1 ' ! ' " A' " 1' -*?% N T' 6/.1' 2' */- >) .' ?% !' " ! *8" !' " ' ! (' ' R' ._%X' ?69*.' ,)*' 2>?**,'1' D** *_ ; +6^ /*2,' ,1' ' B*-1?*' I !' %!(8' 21, >*.' D12' 6.' ,)*' >) * '.*6,'1 ') .' 81-.) =% ; .*D ; .' 656 2' I =' !' .% (& 1' % *' =,VXdX' 26?*.' & 'MH -*C510X' 6.',)*' >) * '0* , '1 ' -C<16D'M,)*2>*' >6//*0' -*1=1/ .X' 620' 2' ,) .' >)6-6>,*-')6' .'-*=-*.*2,*0' 12' >1 2.' M >9C')*/' ' !'O !' ' X% **' ! $.!

*26626)') "W *-2' 1-?1 ' E' ,)*' 26?*' 1 ',81' ?*2% ;-.,' MV * -% "f .% +H7X .;55*.,.' ,)6,' ,)*' =-*+6/*2>*' 1 ' .;>)' 26?*.' 6.',) .' 620' - "' 620' "' 6?125',)*' *2A6C' ? ,*.' 20 >6,*.' .=*> 6/ >122*>, 12' D ' 2,*-?6-- 65*' 8 ,)',)*' *6-/ *-' -6>*T ,)*' .,-6 ,.' ,1' 8)>)',) .' ,- D*' 86.' -*0;>*0' P' ,' > + /' 86-' MB ; 05% LL X' ?6 ')6+*' 0- +*2' ,.' ?*?D*-.',1' .=*> 6/ 6// 62>*.' 8 ,)',)*' -')1*^ 2 > 62' 2* 5)D1-.%

% M *=,% O ' +% -% O 8!' ()*' 1 ;-.,)' 26?*0' 1 ',)*' .*+*2' .12.J' 1 ' /)62 ' .12' 1 'B>0 6*/' 1 ',)*' ,- D*' 1 ' *2A6? 2 ' 6'/*60 25' 86-- 1-' 6==6-*2,/ ' 2',)*' ,?*' 1 ' 6+ 0' M ')-12% + ' X% % % * -% K % K% M *=,% O ' +% -% O ' 620' O 8!' ()*' 6,)*-' 1 ',)*' 6/.*' =-1=)*,' U*0*9 6)' 8)>)' /6,,*-' *2>1 ; -65*0')6D' 656 2.,' < >6 6)' M ' 25.' LL ' ' K T' K')-12% L+ ' 'KNX% % % 62,*' QRS%

) * 2 6 2 ' M : *D%) E' =-1D6D/ ' 6D- 05*0' -1?' 27HNG ' " ":' *=,% O ' +% -% O ' 8' 12*' 1 ',)*' *+ ,*.' 8)1' 1 *-*0',)*' =; D/ >' =-6 *-' 12' ,)*' 1>>6. 12' 1 ',)*' 6.',' 6,',)*' -*,;-2' -1?',)*' >6=, +^ , ' M *// ' . ' X% % % R% ',)*' *=, ',)*' 81-0' ' *2 J' (/X =-*>*0 25' .' -*60' ' M/ 9*' 1,)*-.' 60^ A1 2 25X' 6.' ' ?*62 25' '.12. &')*262 %J' ( ) .' -*60^ 25' .' +*- '=-1D6D/*' 1-',)*-*' .' 21,'12/ '621,)*-' ; 2',)*' ,?*' 1 ' *22 >1,, .' < ' M Q X' 620' . L' 1 ' *' 1.. .' -*60' NK' '.12.' 1 ')*262 J' 2.,*60' 1 ' IN 7NN' ' 62G')*26_ J' M 1-',)*-*' .'21' >12^ A ; 2>, 12' 2',)*' 1- 5 26/X% ()*' *.) ,1' +*-. 12' A' 1',)*' 26?*.' 1 ' +*-.1' ',1',)1.*' 1 ' +*-.*' ' ' " ' 6207 2' =/6>*' 1 ' ,' -160.' " + ' 2',)*'

1? .. 12' 1 ')*262 ' ,' .' .; ==1-,*0' D ' ,)*' !' @# !=' & ' 1 ',)*' *=,% 8)>)' 1? ,.' d 8- +V >% ' $8! ()*' ; /56,*' 620' % % 60)*- 25',1',)*' <6C' .1-*, >' =1 2, 25' 2.*-,' 60%J) * 2 6 ? 6)' M : *D') "(1' " D ' D " "T' ')-12% L+ ' K T' *=, ' O (' +% -% O * T' */.*8)*-*' 2',)*' /125*-' 1-?') " 1' T' ')-12% L+ ' KK' T' P ! -% 2' ')-12% LL+ 'KR' OJ 8 8' 6' *+ ,*' 1 ',)*' 6? / '1 ' [)6-,*.' M ')-12% LL+ 'KRX' 620' >) * '1 ',)*' ,*?=/*. 25*-.' M ')-12' L+ ' KKX' 8)1 >120 ; >,*0',)*' 5-620' ? ; . >6/ .*-^ + >*.' &)*2',)*' 6-9' 86.' -*?1+*0' -1?',)*')1 ; .*' 1 ' D*0C701?',1' B*-; .6/*?' M ')-12% L+ ' K X% % % N% **' 6/.1' . . ' !) * =) 6-C) 66? ?1 ; 6 ' I "!') %" @' " =& =' E' N NK /' ' " ' & :' 1-6.' ,)*' ?6-5 2' >1--*>,. ') %" (' " =& "E' cN' ' 'Q " (f' & "1' % *% & :' *=,% 1 % %% W3 !1D ; ' +% -% 1=670' >2,' ,7 10' 6' < 1- 'D/*20 25' 8 ,)' =)2' 1//18 25T ; /5% '6 =' 8'6'=/6>*' 2',)*' % % .*>, 12' 1 ',)*' ,- D*' 1 ' *2A6? 2' M_% %X' ?*2, 12*0' D*, 8**2' =)-6)' 620' =)2' MB1.)' L+ 'K % >)86-['I '=% KSX',) 29.' ,' .',)*' ?C (1' M.1')*' -*60.' 1-' ?? 6 ; .JX' -*=6 -*0' D ' 6-C >) 0*.' M ' <6>*' L ' X% 2',)*' , 'M.%+%X' ,' .' ?*-*/ '>6//*0' (`1& 'M ; .*D% M& % % T' B*-1?*' & 8' 2',)*' ,- D*' 1 ' *2A6? 2%J' 2',)*' 26?*' 1 ', .') 6?/*,' \.**' / 4 ;' .' 01 ; D, /*..' =-*.*-+*0',)*' ?*?1- ' 1 '62' 2>; -. 12' 1 ',)*' ? ?12 ,*.' ; =' ,)*' /125' -6+ 2*.' 8)>)' /*60' -1?',)*' B1-062' +6//*' ,1',)0') 5)^ /620.' 1 ' *2A6? 2% **' . ! 2>)' 6' =1. , 12' .' ,)*' ?10*-2' & '< 1' 6' /,,/*' *6.,' 1 'B ; 26' M 1D^ 2.12' 5 " 1' ' R' 21,*X%) * =) -6/ ' M : *D% 2' 71.)% 6/86 .' 8 ,)' ,)*' 6-,% " +=) %" D' ' -,B T' " ' 2 1' *=,% T' D ; , 2' [-6' 671=0' *)% 677=0' +% -% 67 =OX7' 12*' 1 ',)*' 1 ; -' > , *.' 1 ',)*' 4 D*12 , .D' : + ,*.' 8 ,)' ;')1?' B1.) ; 6' ?60** ,)*' /*65 ; *' MB1.) ' L ' T' >1?=% +>-% XT' 6.. 52*0',1' ,)*' ,- D*' 1 ' *2A6? 2' ML+ 'KSX' 620' 1>C > ; = 7' D ' ,)*' -*?262,' 1 ',)*' .6?*' ,- D*' 6 ,*-' ,)*' 6=^ , + , ' M [-6' 'K T' *)% + 'KRX% 7>D86-['I !' =% K X' ,) 29.' ,' .' 12** 1 ' ,)*' + //65*.' I) %+ ! : NX' 2' ,)*' =/6 2' 1 ' 21J' M *)% + 'KX% ()*' 6^ ?6-,62' *-. 12' 6,' 4*2% L 'N' -*20*-.' : 6 ' M X' D ') % " "' M (: CXT' D ; ' ,) .' >6221,' D*')*=) -6) ' . 2>*' D1,)' ' 620' ,' 6-*' ?*2, 12*0' ,15*,)*-' 2' B1.) ' L' M>1?=% N 8 ,)' X' 620' 2' ,)*' / ,.,' 1 ' [-6' 620' */ *C M>1?=% N 8 ,)' X' 620' 2' ,)*' / ,.,' 1 ' [-6' 620' */ *C 6/ 6/-*60 ' _ ; 1,*0% -% 1D 2.12' .**?.' ,1')6+*' 0 .>1+*-*0' ,' ; 20*-' ,)*' .>6->*/ ' 6/,*-*0' 26?*' 1 ') I ; "!' $ ' Q N' =% K f' 2' ,)*' ?1 ; 2,6 2' >M ; 2,-' 12' ,)*' 8*.,*-2' >12 2*.' 1 ' *2A6? 2' 6D1 ; ,' ,81' ?/*.' 8*.,' 1 ' A6/12' I ' ; !' 5 !' =% SX% ()*' '*L,*2^ . +*' . ,*' >6//*0') ' '.; 55*.,*0' D ' ()1?.12' I ' ; "' ' N X' .' ,11' 6-' % & % ()*' .6?*' 1DA*>^ , 12' 6==/*.' ,1' 621,)*-' ~ ; 2*0' + //65*' 2) ' /6 0' 0182' 2' ,A .' 0 -*>, 12' 12' 62' 01' */0*.' %!) * -62' M : *D') (' 6>>1-0 25',1' 4*.*2 ; .' ' D ; ,' 6>>1-0 25',1' ; -.,' :' *=,% d2=C' % 8' ,)*' /6.,' 26?*0' 1' ,)*' 1 ; -' .12.J' 1 ' .)12' MD ; ,' ,)*' : *D% 2' 4*2% / 6.' .)62X' ,)*' : 1- ,*' '0 ; 9*J' 0*.>*20*0' -1?' * -' M4*2% LLL+ 'KST' ')-12% ' KX% % 6==6-*2,/ '0-% RK %) * -*6.% *>' 5 $!) *-*?% ()*' +18',) ; .' >6//*0' 2' : *D-*8' M 7 : X' `7,)*' 6>>; -.*0',) 25 J' .' 218)*-*' *2A1 2*0' D ' <1.*.' 21-' 01*.')*.=*> '/F' 8)6,' .1/*?2 , *.' 1-' *L=-*.. 12.' ,' 86.' 0 .,25; .)*0' -1?' 1,)*-' +18. ' D ; ,' ,69*.' ,' *-' 5-62,*0' 6//' ,) .' 86.' ,)*2' 8*// 92182% ()*' .=*> *.' 1' " ' 8 ,)' 8)>)' 81' 6-*' ?1.,' 6? / 6-' 86.' ,) _' hX-*+ MX ; .' 0*+1, 25',1' 410' 1 ')' ,/*' > , *.' 656 2.,' 8)>)' ,)*' 2,*20*0',1' =-1>**0' 8 ,)' *L,-*?*' .*+*- , '920' ,)6,' 8 ,/' 6'+ *8',1' 2 /6? 25',)*' ? 20.' 1 ',)*' =*1=/*',1' 86-% 2' .;>)' >6.*.' 21,' 12/ ' 8*-*' 6// ,)*' 2)6D ,62,.' =; ',1' 0*6,)' D ; ,' 6/.1' 6>>1-0 25' 6.' ,)*' ,-*-?.' 1' ,)*

& 0*>/6-*0 ' 21' D11, ' 86.' ?60*' D ' 62 ' .-6*/ ,*1 ,)*' D*6.,.' 8*-*' ./ $21' 8)6,' 81;/0' 21,' D;-2 ' 6.' 51/0 ' . /+*-' 620' 1,)*-' ?*,6/. ' 86.' 600*0' ,1',)*',-*6.:- ' 1 ' ,)*' .62>,:6- 1' 620' 1+*-A,D 25' */.*' 8 ,)' ,)*' 8)1/*' > , 'D1-2,'8 ,)'62' ?=-*>6, 12' ;=12' 62 '6,,*?=',)6,' .)1;/0'*+*-'D*' ?60*',1'-*D; /0',' ',) . ',)*') .,1- ' 1 'B*- >)1' ;-2 .)*.' 62' *L6?=/*' MB1.)' + ' R ' K C' K ' 2' ,)*', ?*' 1 ' <1.*.' ,)*-*' 86.' 6' . ? /6-' +18' 656 2.,',)*' 9 25' 1 ' -607 ;?D' LL ' CNX' **I >C' >; ' ' !

)*-7*,) ?' M:*D') " E' D 7- N ',)1' -*5;^ /6-' =/;-6/' 1 ' " " 8' 1>>;-.' 2',/ .' 1-?' 12/ ' 2' c[>9' dd ' ST U*=)' ' K ' 2',)*' 1-?*-' 1 ' 8)>)' =6..65*.' ,' .'-*20*-*0')*-*,) ?. J' 620' 2',)*' /6,^ ,*-' ')*-*,) ,*.'J' ()*' 12/ ' 1,)*-'=6..65*' 8)*-*',)*')>-*,) ,*.' 6-*' ?*2, 12*0'. 25/ 'M6/,)1;5)' 2'6'./ 5),^ / ' 0 *-*2,' 1-?' 2',)*' 1- 26/X' .' ' 6?' LLL ' ' 2' 6/' ,)*' =6..65*.',)* ' 6-*' *L=-*../ '26?*0' 6.' 2^)6D,62,.' 1',)*' .1;,)*-2' D/.,6',)6,' .' " (!' ()*' *=,' 620' - 6>' -*20*-',)*' 81-0' 2',)*.*' =/6>*.' D ' .' -1?' 8)>)' 620',)*' =6..65*.' 2' ?1.' L' T B*-' L/+ ' T *;,' KN',)*' >12A*>,;-*' 81;/0' D*' .,-125',/6,',)*')/.,2*.' .=-625' -1?' -*.*' 8*-*' ,' >*-,6 2',)6,' 6=),1-' ?*62.' -*,*' *' + ' 'a / ! 1-',)*' 1,)*-'=6..65*.' 2' 8)>)',)*' 81-0' 1>>;-.' .*' ? !

)*-*,) ,*' M:*D') "(' ` :' 1>>;-.' 6/12* 12/ ' 2' 6?' LLL ' ' M ' ')*-*,) ,*.JX' 8)*-*' ,)*'=*1=/*' .1' 0*. 526,*0' 6-*' ?*62,' *' ' ' ! ()*' 271-0' .'*/.*8)*-*' 620' 6/86 .' 2',)*' .6?*' 1-?' 1;20' 12/ ' 2',)*' 1-?;/6' ' ' ' ' ' ' ' ' ' + ' ' M 7-D. /' 8,)1;,',)* 26/' 1',)*'=/;-6/T *=,' ') ' ' P dc7V'D;, ' -' 2' ')-12' 6' o % -'s ') ' ' ;/5' "' ' " " E' 6' >1//*>, +*' ,*-?' 1-',)*' / *^ 5;6-0.'MB1.*=);.' ;A=6-17;d>- >>a'&' '+ ' X' 1 '9 25' 6+ 0' MK' 6?' + ' QT' L+' QT' LL ' 'KNT' 25.' ' NQ' T ')-12' L+ ' X' -*+6 / 25' 1= 2 12'>- 9 '$!',' . +!=' Q' *O' 6D*T .**' 6-=[1+' 2' $51/2' -" !' LL+ ' NKX',-62./6,*.' ,)*-' 26?*.' ')*60.?*2'620' 11,C-;22*-.%J' ()*' 1-?*-' 81-0' M-1?' 2 N ' " "%',1' #' .';.*0' 1-' 'MK')-12' ' X' 620' ,'?5),'.**?'=-1D6D/*',)6',)*')*-*,) ,*.' / 9*' ,)*' / >,1-.' 1 ',)*' 1?62' 0>,6,1-' >6-- *0' 6L*.' D1,)' 6.' 6' D605*' 1 '1 >*' 620' 1-'=-1?=,';.*' 2',)*' /6,*-' 7*6-.' 1 ' 6+ 0',)* -' >6=,6 2' *26 6D' -1.*',1' 6' ?1-*' >1?7620 25' ?=1-,62>*',)62',)*' 5*2*-6/.' 1 ',)*' -*5;/6-',-11=.' A;.,' 6.' 2' ?=*- 6/' 1?*',)*'=-6A' *>,'1',)*'=-6A,1-62' 5;6-0.' D*>6?*',)*' .*>120'=*-.12' 2',)*' *?=-*' ,' .' *+ 0*2',),6,',1' =*-=*,-6,*' 62 ' .;?7 6-' 0**0' *26 ;)' 620',)*' 5;6-0.' 8*-*' >)*/' -*/ *0' 12' ()6,',)*A7' 8*-*' .,- >,GX' 6' D10 C5;6-0' .' 0 .,2>,/' .,6,*0' 2' K 6?' LL ' KN' ()*' 5-6?7 6,^ >6/' 1-?' 1',)*' :*D-*8' 81-0.' .' 2*+*-,)*/*.' 21,' _;,*>/*6-T' 620' 6.',)*')*-*,) ,*.' 6-*' 26?*0' 6.' 6' 26, 12'1',)*' .1;,)'M' 6?' LLL ' X' .1?*' 6-*' 0 .=1.*0' ,1' D*/*+*' -*,)' 620' /1,)',1' D*' 1-* 52' 4*2,/*' 26?*.' ;.*0' >1//*>,+*/' 1' .?6// >12 -?6,12' 1',) .' ?6 'D*' 0-682' -1?'K' 6?' L+' Qa' //,)*')*-C >,),*.'620' 6//,)*' */*,),*.'620' 6//,)*' 4,,,*.' .' L');20-*0' ?*2 J'*,>' ',)*' -.',81' 81-0.' 8*-*' 5-6?^ ?6,>6/=/;-6/.'/9*',)*',) -0' M4,,,*.X',' .' 0 >;/,' ,1' .**' 8) ' 26/' .)1;/0' D*' 600*0',1',)*',) -0' 620' 21,' 6/.1',1',)*' 1,/*-',81' M *.',**' 4*.*2;.' "' "f' =' SKSX' .',)*' 81-0' ' .'-*=*6,*0',)-**',?*.' 620' 4$' ?*2' .',)*' 2;?D*-' 2,*20*0',)*',) -0',?*',)*')*-*,) ,*.' 620' */*,),*.' ?;.,')6+*' D**2' -*>912*0' D',)*') ;20-*0T' 620' .2>*',)*' 4,,,*.I8*-*'>/*6-/ ' 1-* 52*-.')//',)*')'=-1-' ?=-1D6D/,' 8)>)'.1?*')6+*' .**2' 2' 6+ 0.' 0* *20 25') ?.*/' D ' 6' =' 5;6-0' 6//.',1',)*' 5-1;20' :.' 4,,,*' .6,*// ,*.' 6-*' 12*' ?1-*' =-71 '1',)*' 2,*2.,'1',)*',-622 >6/' =-2>=/*' 6/-*60 '>1?*' 2'.2>*' *_;6// ' 6?125' ,)*' 4-**9.' 620' 1?62.' M:*-10' ' KT' +' SS' T' +XW LLL+ ' X' 620' 2' ?10*-2' ;-1=*' 1-' 6' =-2>*' ,1 ,-;.,',)*' >6-*' >') .'=*-.12',1' 1-* 52' 5;6-0.')6.' *+*-' D**2' /119*0' 12' 6.',)*' ?1.,' *+ 0*2,' ?6-9',)6,' D*' .' 9**=25' 0182') .' 182' .;DA*>,.' D ' 1->*' ,' 81;/0' .**?',)6,',)*' 1 >*' 1',)*')*-*,) ' 86.' 1',)*' .6?*' 26,;-*' 6.',)6,' 1 ' % ' 6?125',)*' (;-9.' 620' 1,)*-' - *2,6/.' M.**' ;0*>9*' ; " !' ' +' $ + ' =' KRNX' 8)1' 6-*' D*6-*-.' 1',)*'.;/,62.' 1-0*-..V1-'=;2.)^ 25' 62 ' 12*' D ' 0*>6=,6,12' 1-' 1,)*-8.*' M *' - 2' N 1' ' Q ' ._%T ' K NXT' 62' 1 >*' 8)>)' .' +*-')121-6D/*' 2',)*' 6.,',)1;5)'>12. 0*-*0' 6.' 0*5-60 25' 6?125';.' ,' 6==*6-.',)6,' :*-10' ?60*' ;.*' 1 '62' 1 ^ >*-' 1',) .' 0*.>-=,12' 2' D*)*60 25' B1)2',)*' 6=,.,' ' 6' / 9*' 26,;-*C=-1D6D/ ' 8*-*' ,)*' 11,?*2J' 1' 6;/ M ' 6?' LL ' X' ,' 6' /6,*-' 06,*' ,)*' 8*-*' >6//*0' ,)*' >6=,6 2.' 620',)*' 5;6-0J' K 25.' L ' RT >1?=' ' 25.' L +' K X' ,' .' =/6 2',)6,',)*.*'-1 6/5;6-0.' 8*-*' *?=/1 *0' 6.' *L*>;, 12*-.' MK' 25.' L ' X' 620' 6.' >1;-*-.' M ' 25.' L +' K X' ? /6-/ ' 1, =)6-' 86.' >6=,6 2' 1',)*' 5;6-0' 1')6^ -61)' 620' 6/.1'>)*'1',) '*L*>;, 12*-.'M4*2' LLL+ KSX' 6.' 86.' -1>/' *D >)602*[[6-%.' 1 >*-' M 62% ' X' **' .2*-' 2',)*' ; (= "!' ; !' 7 !' ' S' ._%T >)86-[' 2',)*' 7 !' !' &% !' ' 'R' ._%T =',[' ' ' ' ! ' '$ ' 1' " ' ' ' MB*2% S KXT' 6/.1' 2' -*2 ' ' + !%" !I1 - !!' RKXT' 6/.1' 2' $51/21' LL+ T' 9*2' ' ' " ' ' ' 2') .' ' !' %D 2 !' " !=' K' 6_%T /./25' 2' & 2>9/*-.' & M' %" ! ' NQK' ._T ;20' ' + ' ' " ' M$=.6/' X T 6-=[1+' ' % ! !=' Q ' ._%' **' + ' 'T > . $!) * - ,)' M:*D') "E' 6' :' *=,% d1 7=6 J' 6' 'D-119J' M7:' ' "1 1' *=,' % *' ,1--*2,CD*0' M,)*' -6D >' 8' 1-' 8 2,*-C.,-*6?' 1' 6/*.,2*' 2' MN' 21,' D J' X' 8)>)' ' *' ;=12' 8)1.1' ./1=25' D629' ,)*' =-1=)*,' /A6)' M_' +%')' 0') ?.*/' 0;-25',)*' *6-/ '=6-,' 1',)*',)-**' *6-.' 0-1;5),' M' 25.' L+ ' N' X' ()*' 81-0.' 1',)*' =6..65*' 5 +*' 21' =-*>.*'>/*8',1',.'=1.,12' 4*,',)**')*2>*' \ >' 6=^ =6-*2,/ ' -1?',)*'.=1,' 8)*-*',)*' 2,*-+ *8' 8,)')6D')60',69*2'=/6>*h' 620',;-2',) ' 6>*' *6.,86-0' MG(6I/'7X' 620') 0*',)**' 2',)*',1--*2,'1 ')*-,)' 8)>)' .' 6> 25' M7NN' D7X',)*' B1-062%J' () ./6.,' *L=-*.. 12' 8)>)' 1>>;-.' 6/.1' 2' +*-.1' ' .**?.' ?=/ ',1' 20 >6,*',)6,',)*'.,-*6?' 2'_;*.,12'-62' 2,1',)6,'-+*-' 620' 21,' 2,1' *',)*-',)*' <*0,*--62*62' 1-' *60' *6T 1-' 6/,)1;5)' ,)*' 81-0.'.1?*,?*.'-_;-*',)*',-62./6,12' D* 120J' M6.' 2' 4*2% Ld+' QT' B1.)% L+I' QX',)*' ' ?6 '6/.1' D*' -*20*-*0' ,186-0.J' 1-' D* 1-*',)*' B1-062J' M>1?=% 4*2% L+ ' KKX',)6,' .' 2' >1? 25' -1?' 6?6-6% B1^ .*=);'>& !' + ' N KX' 01*.' 21,'26?*',)*',1--*2,'MLOZC % I8I I:' '<6;0')*.6 .',)6,' /A6)' 8*2,'21,' *6..,1' B1-062' 1' 8)>)'-*5 12' /A6)' 86.' 20**0'6'26, +*' D;,' 8)*-*')*' 81;/0'.>6->*/ 'D*' ?1-*' 1;,' 1')5D.' -*6>),)62' 2',)*'-*>*..*.'1',)*'?1;2,6 2.'1',)*'-+6/9 25C I01?1'B;06)% ()*'12/ '*L=/>',-60 ,12'12',)*'.;D^ A*>,' .' 12*' ?*2,12*0' D ' <6-2;.' 62;,;.' 2' NK' >? '% '@ '=% K X',)6,',-62' D ')6.6 /.' M_% +%X' :*-10.'>, ' 2I,)7' B1-062' +6//* ' M>1?=% */620' ' =% R NX% ()*' 81;/0' 7 69*' ,',)*' & '@ 1' 8)>)' 6//.'-1?',)*' ?1;2,6 2.'1' =)-6 ?' 2,1',)1' 4)S-'.1;,)'1' ;-2' ;-,6D*)' 620' 6D1;,' .**2' ?/*.' 6D1+*' B*-)1% ()*.'+*8'.';==1-,*0' D ' 6>)*2*' >% ' ?1 ' ' KSC N' 620' 62' 0*' */0*' 7 9 ' $' N ' N X% ()*'.=-25'1',)*' D-119' .' >12^ >*6/*0' ;20*-') 5)'>/ .' 620' ;20*-',)*'.)60*' 1' 6' 0*2.*' A625/*' M 62' 0*' */0*' ' '=% NNRX% I -% 1D 2.12

12',)*'1,)*-')620'81;/0' 20',)*'.,-*6?' 2',)*' ' 1) 1'D*) 20'B*->)1'>5 " 1' 'KQQX' ().'/6.,' 26?*' .')18*+*-'21,'5-*6,/ '/9*')*-.,)' *',)*'0*2^ , >6, 12' .'=*-)6=.',)*'D*.',) ,)*-,1'.;55*.,*0 () .' 860 ' .' 1-?*0'D ',)*' ;2 12'1 '?62 '.,-*6?.' 2',)*' ?1;2,6 2.'8*.',1'B*- >)1' . .; 25' -1?'6'0**='51-5*' 2'8) >)' ,'=6..*.'D ',)6,'+ //65*'6=0',)*2'6>-1..',)*' =/6 2',1',)*'B1-062 ,' .'0- ' 2' .;?? *-1' .=1,' 2' 6/*., 2*' .'D*,,*-' ,,*0',1'6 1-0'6'.*>;-*' 6. /;?' ,1',)*'=*-.*>;,*0',)62' & 60 '*/ */,' 2'*6>)' .0*' 1 ',*L,*20',)*'D6-*'0*.1/6,*') //.' 1',)*'8 /0*-2'..' 1 'B;0.*6' 2'8)1.*' 6.,2*..*.' 6+ 0'86.'6D/*',1'D 0' 0* 62>*',1' 6;/ ()*' */,' .'12*'1',)*'8 /0*.,'-6^ + 2*.' 2',) .'8 /0'-*5 12 2'.1?*=/6>*.',' .'21,'/*..' ,)62' +*' ;20-*0' **,'0*=' 620'A;..'8 0*' *21;5)'6,' ,)*'D1,,1?',1'5 +*' 6'=6..65*',1'6'..-*6?/*,'M' 25.' L+ 'SX'/9*'6'./+*-',)-*60'720',1'6 1-0'.=6>*' 1-'..' 26--18' - 25*' 1'1/*620*-. ()*'D629.'6-*' 6/?1.,' .)**-'=->=>*.'1'269*0'/?*.,12*'620'6-*')*-*' 620' ,)*-*' = *->*0' 8 ,)' ,)*' 06-9' 1=*2 25.' 1'>6+*.' 620' 5-1,,1*.'2'.1?*'12*'1'8)>)'=-1D6D/' /A6)'/6')0 ()*' 860 '1=*2.' 2,1',)*' 5-*6,'+6//* '620' -1?',.' 0*=.),.'..;*.'6'26--18'/2*'1'+*-0;-*' 2,1',)*'8),* =/6 21',)5-60;6// '.=-*60.'6.',60+62>*.';2,/',?2^ 5/*.'6,',)*'0..,62>*'1'6'?/*'1-'?1-*'8 ,)',)*',)>9^ *,.',)6,'*2>1?=6..')6',)*'?10*-2'-*=-*.*2,6,+*'1' B*->)1',1'B*-;.6/*?' ()..')*'0**?.' ,)*' '%',1' 0;??'?'8)>)'.'12" " ' "' ' ,"' 'ML+ X' ;.',) .'0*2, >6, 12'81;/0'>12 1;20',)*'26?*)*-.,)'8),)'*+*-'0 .. ?/6-'12*' >)1-'8)>)'/6,^ ,*-'8*'9218'86.'-*,6 2*0',1'6'/6,*'=*-10' 2'B*8 .)') .,1-AW **' ' !

)*-;D'\,)*'=-1=*-'26?*'.'=-121;2>*0')(Nf' M:*D*) "(' 1, 21/ 5';2>*-,6 2T *=,%dOC % '-%O % IC'620'O % T ;/5% " 81'6'=/6>*' 6==6-*2,/' 2',)*' 6D /12 62' 01? 2 12.'6..1>6,*0' 8,)'(*/C)6-.6' 0062'*,>%' -1?'8)>)'.1?*'B*8.)' *L/*.'-*,;-2*0'8,)'U*-;DD6D*/'8)1')60'/1..',)*-' =*0 5-*'M [-6' 'RT *)%+ 'S X% ()*',-;*'>12^ .,-;>,12'1',)*.*'26?*.')18*+*-'81;/0'-6,)*-'?69*' ,)',1'D*',)6,'1'6' !',);'2-*5..*-*0% % % NS% **' !

)*-;D'M:*D% " "(' 2',)*.25'12/'2 L10% dd ' R† K' 6?% LL '/ † ' 25.'+'K'K' K † K' -)12% ' KT .6% L+ ' T [*9% L'K' R' † LL+ ' ' ST *=,% Lc=1 VNX'=/;-% : $C' <'M:*D% + 2 (' .1?*, ?*.' T *=,' 1% % % '-% 1% _ % '620'.1' 2' >>/% L/ L'Q' 620' :*Da' L' † 25/% *-.' 2+6-6D/' >)*-;D?.JX' ,)*'6==*//6, 12'1'>*-,6 2'.?D1/>6/ 5;-*.' -*_;*2,^ / '?*2, 12*0' 2' >-=,;-*% **' /'! % % ' '" '7 !' ()*'1-5 2'620'.52 >6, 12' 1',)*'81-0' ,' .' ?=1.. D/*',1'0*,*-?2*'8,)'62 '>*-^ ,6 2, % ()1.*'8)1'.**9',' 2')*?,>'-11,'6-*' ,//' 0+0*0' 2' 1=2 12'.1?*'0*-+25',' -1?',)*')6/0' " "('% "1'.1',)6,'> *2 b =/1;5)*-J' % *% ';-5 25',)*'=6-6//*/D*,8**2' [*9% L' '620' ' † 1,)*-.'M6.'4;..*,;.' % 0*' *;' 620' 00 5*-% ,69*',' D '6',-62.=1.,12' 1'/*,,*-.' 1-' N7NIX' "(_% O% 0+2* D*6.,J'M .6% LL ' X' >1?='),)*' -6^. 0*.' N(N'-*20*-*0'D'1;-',-62./6,1-.' =/6>*0 J' D >' " ' 6' " % 1',-62.=1-,† 1,)*-.'M.**' : 0*' ' ! ! ! =% KSNX' ?69*' ,' % d + (2*6-J',1' 410' % *% 60? ,,*0',17 .'=-*.*2>*† 8 ,)' 1,)*-.'M.**' <6;-*-' ' 'N ! -6D >',)*'6?*X' ,1'D*' 21D/* J' ' *% >)1?=% %" 8E 26// ' ,1'6..'1+*-'1,)*-'/*..'=-1D6D/*'>12A*>,;-*.'M*% 1C .*2?;//*-'& " +! ' ' Q † 620' 6;/;.'6=% U;/C' N X',)*' (6/?;0.,.'-*56-0' ,' 6.',)*')6/0% + = " (' " + 'M.**' ;L,1-'A;2% 'a A' '=% † ,)1' ! 5 ! .% +% X% 4*.*2;.'6,' -.,' =-1=1.*0' 6' 0*-+6, 12' -1?',)*' -6>' + ' D;',6,*-86-0.'>12+ 2>*0',)6,')*' 86.' ? ./*0'D' 62' *--1-'1' 6.,*//M.**') .' & ' , ' ' SSX')*' =-1^ =1.*0' 6' 2*+.d*, ?1/15'6.b0 72' " (' M -6D >' ,)*'.6?*X' ',1'=-1) D ,' -1?'6'>1?7 12' ;.* J',1'>12^ .*>-6,*' >-" '=% X' >1?=6-*',)*' ,) 1=6' 9 2^ 0-*0' 81-0' 1-' .62>,;6- † .1',)6,',)*' .52 >6, 12' 81;/0'D*' + % '1-'5;6-0'.>% 1',)*' *' ,'656 2.',6,/ =-1 62*'6==-16>)% ,)*-.'M*% 5% >))1-2'6 ' &!-!' 'Q † 6,9*';!-" ' 'NK X',) 29',)*' >)*-;D ?' 8*-*',)*'.6?*' 8 ,)',)*' % 1' ' 1' ,)*' -*2,6/ ?65 26, 12' 5;6-0 62.' 1',)*' 51/0*2' ?1;2,6 2.† 620'.**9',)*' -11,' 2%,)*' *-.>'+ "'',1' % ' M(>).*2' 2' :**-*27.' ' 'NQSX% 1-.,*-' *+*2' .**9.' 62' 5 =, 62' 0*-+6, 12' 1',)*' 26?*' >' ' " '=% SX% :6+*?>9'>.'6/+!'=% X.;55*.,.'6' 0*-+6, 12' -1?'6'! -6>-11,'?*62 25',1' 1-'>6-+*' M */ 12' ' 25.'+'RX† .1' D*2' [-6'.6.',)6,' >)*-;DJ' .',)*'.6?*'6.' 620'?*62.' ' ' M >);/,*2.' !'$!'=% KX% 2'*6-/'*, ^ ?1/15'?69*.',' -1?'N 2N'+ = N' 2 = = _% O% / 9*' 6D* - b7>1' 'M.**' .6'>'K † -' % ' *,% 'KK† =)% 'K † .1' -1>1= ;. 12'4*2% † ()*101-;.' 2'4*2% L/+ X% ()*'1/0*.,'0*^ - +6, 12' 7 -1?'N!/' 620' N '6.',)1;5)',' ?*62,' 6D;2062>*' 1'9218/*05* J'6'?*62 25'12>*' ;2 +*-^ .6// '601=,*0'M)/1'N !' ! =% SQQ† /*?% /*L% $! 'K '*O% AOD% † - 5*2'@ !'# ! =% † B*-12A*' 12' .6% + 'K† 12 .% ' ' ! # ! + 'RS† =*2 *-'' ' ! // ' '*,>%X% :72>*',)*'-*?6-9' 1' _;26.' ()*'26?*' *-6=) ?'.'5 +*2' -1?',)*-' *-+1-'6.'D*/125 25',1'/1+*† D;',)*'26?*')*-;D ?' .'5 +*2' -1?'" '+ 1((M ' A D% Q ')% + X% -.,' > '=% X' 1//18*0'D ' */,[.>)'>? ! ' K QX'-*56-0.',)*'-11,'6.'=-1=*-/ ')*?,>'6// *0',1' ,)*'6D1+*'.*2.*'1' % '>1 <!' "'6 ! %8! % # ' ' ! ' % ()*' -.,'1>>6. 12' 12'8)>)',)*'6-*'?*2, 12*0'.' 12',)*'*L=;/. 12'1' 1;-' -.,'=6-*2,.' -1?' 0*2'M4*2% 'K X'8)*-*',)*' 1 >*1'=-*+*2, 25'?62.'6>>*..',1',)*'-*'=' *' .' 6.. 52*0',1'1#"' >)*-;D?'M IN N T'21,'6.'2' % % `>)*-;D?.X'8,)',)*' /6?*'1',)*' 86+ 25'.81-0%J' ()*'6-*',);.'6D-;=,/' 2,-10;>*0'8,)1;'62' 2, ^ ?6, 12'1',)*-'.)6=*'620'26,;-*'>1?7?*2,% ()6,'1?* ,11'8*$';20*-.,110',1'-*_;-*'>1?7?*2,% ()6,'.1?* ' 1'6-*' 2,*20*0'.'1D+1;.'620',)*'6,,*?=,.' ,1'-* *-',)*'=6..65*',1'+1/>62>'65*2>'M >9/*-' ' /' 'N + '=% SX'1-',1',)*' 2 /6?7 6D/*'D,;? ^ 21;.'-*5 12'2*6-' 6D /12'M :2% ' R'*,>%X'.'6'.=*>^ ?*2'1',)6,'+6/;*/*..' -6, 126/.?' 8)>)';28.*/' ,;-2.',)*' ,,*2, 12' -1?',)*' 22*-'.=-',1',)*' 26--6^ ,+*',1',.'?*-*'*L,*-26/' 1-?% & *' ? 5),'=*-)6=.' >12A*>,;-*' -1?',)*';*'1',)*' ,),6',)*-*' 8*-*' .;==1.*0',1'D*'6'0* 2,*'2;?D*-'1'>)*-;D?'620',' .>> =.',)6, D;-'.',)*'? .,>'2;?D*-'..;6// '6,,6>)*0' ,1',)*'>12>*=,12'1',)*?% .',)*'2;?D*-' 1;-')6.' .=*>6/.52 >62>*'2':*D*-'D'1-'12',)*'*05*'1 J' 2;?D*-',1'*L=-*..',)*'81-/0'620'0+2*'-*+*/6,12' ;.,)*'2;?D*-'1;-'.6?*'6' 0*-+6, 12' -1?'6'! -6>-11,'?*62 25',1' 1-'>6-+*' M */12' ' 25.'+'RX† .1' D*2' [-6'.6.',)6,' >)*-;DJ' .',)*'.6?*'6.' 620'?*62.' ' ' M >);/,*2.' !'$!'=% KX% 2'*6-/'*, ^ ?1/15'?69*.',' -1?'N 2N'+ = N' 2 = = _% O% / 9*' 6D* - b7>1' 'M.**' .6'>'K † -' % ' *,% 'KK† =)% 'K † .1' -1>1= ;. 12'4*2% † ()*101-;.' 2'4*2% L/+ X% ()*'1/0*.,'0*^ - +6, 12' 7 -1?'N!/' 620' N '6.',)1;5)',' ?*62,' 6D;2062>*' 1'9218/*05* J'6'?*62 25'12>*' ;2 +*-^ .6// '601=,*0'M)/1'N !' ! =% SQQ† /*?% /*L% $! 'K '*O% AOD% † - 5*2'@ !'# ! =% † B*-12A*' 12' .6% + 'K† 12 .% ' ' ! # ! + 'RS† =*2 *-'' ' ! // ' '*,>%X% :72>*',)*'-*?6-9' 1' _;26.' ()*'26?*' *-6=) ?'.'5 +*2' -1?',)*-' *-+1-'6.'D*/125 25',1'/1+*† D;',)*'26?*')*-;D ?' .'5 +*2' -1?'" '+ 1((M ' A D% Q ')% + X% -.,' > '=% X' 1//18*0'D ' */,[.>)'>? ! ' K QX'-*56-0.',)*'-11,'6.'=-1=*-/ ')*?,>'6// *0',1' ,)*'6D1+*'.*2.*'1' % '>1 <!' "'6 ! %8! % # ' ' ! ' % ()*' -.,'1>>6. 12' 12'8)>)',)*'6-*'?*2, 12*0'.' 12',)*'*L=;/. 12'1' 1;-' -.,'=6-*2,.' -1?' 0*2'M4*2% 'K X'8)*-*',)*' 1 >*1'=-*+*2, 25'?62.'6>>*..',1',)*'-*'=' *' .' 6.. 52*0',1'1#"' >)*-;D?'M IN N T'21,'6.'2' % % `>)*-;D?.X'8,)',)*' /6?*'1',)*' 86+ 25'.81-0%J' ()*'6-*',);.'6D-;=,/' 2,-10;>*0'8,)1;'62' 2, ^ ?6, 12'1',)*-'.)6=*'620'26,;-*'>1?7?*2,% ()6,'.1?* ,11'8*$';20*-.,110',1'-*_;-*'>1?7?*2,% ()6,'.1?* ' 1'6-*' 2,*20*0'.'1D+1;.'620',)*'6,,*?=,.

=-*.. 12' 8) >)' + *8*0' 2' >122*>, 12' 8 ,)' .1?*' 2> ^ 0*2,.' 2',)*'6 ,*-') .,1- '1 ',)*' =- ?*+6/' 6? / 'Ⅿ4*2' +' C SX' .**?.' 6' >12>/; . +*' *.,6D/ .) ?*2,' 1 ',)*' 1= 2 12',)6,',) .' 86.' 6'/1>6/',6D*-26>/*' 2' 8) >)',)*' . ?D1/.' 1 ',)*' + 2*'=-*.*2>*' 8*-*' ?62 *.,*0' .; .^ 6D/ ',1',)*' 6/,*-*0' > ->; ?.,62>*.' 2' 8) >)' ?62' 6 ,*-' ,)*' 6//' >6?*' D* 1-*' 410' 620',1',)*' 6>>*=,6D/*' ?10*' 1 '81-.) =')*' 86.',6;5),',1' 1D.*-+1⅝ ()6,'>12.*>-6^ ,*0'=/6>*' 8 ,)' ,' .,- 9 25' . ?D1/.' >6//*0' ,)*' =-*.^ *2>*' p',)*' 1-0 J',)*-*' .'-*6.12',1'D*/ *+*' >12, 2;*0' , //',)*' ?*' 1',)*' */;5*' 1,)*-8 .*',)*-*' 81;/0')6+*' D**2' 21,) 25',1'5;6-0',)*' 86 ',1',)*',-**' 1'/ *' 620' ,);',)*' 9218/*05*' 1',)*-' 1-?' -1?',)*' /125*+ , ' 1',)*' 62,*0 /;+ 62.' >1;/0')6+*' D**2' *6. / ',-62.?,^ ,*0',1',)*', ?*' 1' D-6)6?'Ⅿ 6D*-' # ' 1' D9⅝ ' >)⅝ + X⅛ <1-*1+*-' ,' .' 62' 6==-1+*0' 1= 2 12',)6,' -)*2',)1.*' *?D/*?.' 8*-*' -*?1+*0'6,',)*' >/1.*' 1',)*' =6,-6->)6/0 .=*2.6, 12' -1?',)*' =/6>*' 1 '=;D/ >' 81-^ .) =',)*' 62>*.,1-.'1',)6,'=6,-6->)' 1-?*0'. ?6// ?10^ */.' 1',)*?' 1-' 01?*.,>';.*' ;20*-',)*' 26?*' 1' *-6^ =) ?' 1-' (*-6=) ?' 6>>1-0 25',1',)*')6/0**' 0 6/*>,' Ⅿ 6D*-' , ' ' !' ' K SX⅛ 2' / 9*' ?622*-' 8*-*' / 12Ⅽ.)6=*0' 620' *65/*Ⅽ 1-?*0' 5- 2.' .;==1.*0'D ',)*' 6D1- 5 2*.' 1 ' 1-,)*-2' ;-1=*' Ⅿ:*-10' ' K SX' 620' 20 6' Ⅿ ,*. 6.' !'=⅛ KX' 6.' 5;6-0 62.' 1 ',)*' 51/0ⅭD*6- 25') //.'Ⅿ>1?=⅛ 4*2⅝ ' XT' 620' 2' 4-**9' ? ,)1/15 ' Ⅿ.**' -*;[*-' $ +' ' S X',)*' 8*-*'.6>-*0',1',)*' 0* , *.' M*⅝ 5⅝ =1//1' < ^ 2*-+6' 6>>);.X' ;',)*' >)*-;D' 86.' 621 2,*0' 6.' 6' 0 + 2*' *?D/*?' Ⅿ [*9⅝ LL+ ' T 8)*-*' .1?*')18^ *+*-',69*' 1- 2',)*' .*2.*' ?*-*/ '1 *L,*20*0JX' =-*. 0 25' 1+*-' .6>-*0' ?1;2,6 2.' D/6[^ 25' 8 ,)'=-*> 1;.' 1-*.' M+*-⅝ SXT 6,'/*6.',)*' 9 25' 1' (-*' .',)*-*' >1?=6-*0',1' .;>)' 6' D* 25' ;2/*..' 8 ,)' 1,)*-.' 8*'-* *-',)6,'8)1/*' 0*.>- =, 12',1',)*' >)*-;D >' 1-?.' 1',)*' B*8 .)' .62>,;6- 'Ⅿ.**' : *20*-.12' 9 ! 2'/1>⅛X⅝

K⅛ ()*'2*L,'1>>6. 12' 12' 8) >)',)*' >)*-;D ?'6-*' 21^ ,>*0' .' 8)*2' <1.*.' 86.' >1?620*0',1' =-1+0*',)*' ;-2 ,;-*' 1',)*',6D*-26>/*' IT 620'6/,)1;5)',)*'-*>*+*0' 2.-,>,12.' ,1' ?69*' 6//,) 25.' 6>>1-0 25',1',)*'=6,^ ,*-2'.)182')?' 2',)*' <1;2,'620'6/,)1;5)',' .' 26,^ ;-6/',1'.;==1.*',)6,')*' .68' 6' 5;-*' 1',)*' >)*-;D ?' *,' 8*' 20' 21' ? 2;,*' 620'.=*> 6/0*.>- =, 12' 1',)*?' 6.' .'5 +*2' 1'*+*- ,) 25'*/.*' 1-',)*' 0)*>, 12' 1',)*' 6-, >*-.'Ⅿ L10⅝ LL+ 'N X⅝ ()*'. ?=/*' ?*2, 12' 8) >)' ,)*' .6>-*0') .,1- 62' ?69*.' 2' D1,)',)*.*' =6..65*.' 1' ,)*' >)*-;D ?' >12+* .',)*' ?=-*.. 12',)6,',)*' . ?^ D1/>' 5;-*' 8) >)Ⅽ)60' D**2' 2,-10;>*0' 2,1',)*' *Ⅽ + , >6/',6D*-26>/*' 8*-*' .;D.,62, 6// ',)*' .6?*' 8 ,)' ,)1.*' *.,6D/ .)*0' 2',)*' =- ?*+6/'=/6>*' 1' 81-.) =' 12' ,)*' 1-,)6,'*L=-*.. 12'6.'6'0*.>- =, 12' 1',)*'0 + 2*' 6D10*' 620' =-*.*2>*'Ⅿ ;?D'+ 'QRT' / 6?⅛ + T' .6⅝ LLL- 7' ST' .6⅝ LLL' 'T' L* L' '*,> X⅝

N⅛)*-;D ?'6,*-',) .'6==*6-'/9*8 .*' 2',)*',)*1Ⅽ =)62,>0*.>- =, 12.'1',)*'=-1=)*,.'620' 2.= -*0'=1*,' ⅯK 6?⅝ LL ' X' *.=*> 6// ' 2',)*'-*?6-96D/*'+ . 12.' 1' [*9*/D ',)*'- +*-')*D6-'Ⅿ [*9⅝ LX⅝ *',)*-*' 86.' 21' ? .,*-' 6.',1',)1.*I'-*?6-96D/*' 5;-*.' 1-' [*9*/ 92*?'6,' 12>*' ML' K X',)*' / + 25' >-*6,;-.*' 8) >)' 6==*6-*0' 2') .' + . 12' .;==1-, 25',)*',)-12*' 1' 410' 620' D*6- 25',' 2' ?6A*.,' -1?'=/6>*',1' =/6>*',1' D ' >)*-;D ?' -1?I')6+ 25' -*7= *2,/' .**2',)*?' 2' >1? ?12' 8 ,)' 6// 1,)*-' 81-.) ==*-.' 2',)*' >6-+*0' 81-9' 1',)*' 1;,*-' .62>,;6- ⅛ <1-*1+*-' 6.' .',)*' 1=2 12' 1' ?62 '*? 2*2,' 0 + 2*.',)*' + . 126- '.>*2* 8 ,)' 8) >)',) .'=-1=)*,' 86.' 6+1-*0' *L) D ,*0' 6',-62^ .>- =,' 1',)*' (*?=/*' 8) >)' 86.' .)182' 2' =6,,*-2',1' 6+ 0' 620' 6 ,*-86-0.' *-*>,*0' ⅀7) .' .12' 620' .;>>*..^ 1-' T 620' 6.',)*' >) *' 0*. 52' 1',)6,'/6,*-' + . 12' 86.' ,1' 2.=-*',)*' : *D-*8' *L /*.' 2' 6D /12' 8 ,)',)*')1=*' 1' .** 25' 12',)*-',-2',1' B;0.*6' 621,)*-',*?=/*' ?1-*' 5/1-1;.',)62',)*' 12*',)*2' 2'-;2.' ,' .'-*6.12^ 6D/*',1' D*/ *+*',)6,'6.',)*' 8)1/*.,/*' 620' 6==6-6,;.' 1',)' .' ? .,>',*?=/*' D1-1' 62' *L6>,'-*.*?D/62>*' Ⅿ' 25.'+ ' K X',1',)6,'1' 1/1?12.' ?652 >*2,'*0 >*I' .1',)*>)*-;D.'6/.1',)6,'6==*6-*0',1',) .' 2>'=1-,-6 ^ *0' 12',)*' 86//.' 8 1;/0' D*' /6>C. ? /*.' 1',)1.*',)6,'D*^ /125*0',1',..'62> *2,'=-1,1, =*⅛ ** o / ! ,//,)*'_;*., 12'6-.*.'f 6.',)*'.)6=*'6/-*60 ' 6? /^ 6-'1-'9*=,'0*. 52*0/'? .,*-1;.IH -1?',)*' **',),6,' >)*-;D ?' 8*-*' D/6[12*0' 12',)*' 011-.' 86//.' >;-,6 2.' *,>⅛'1',)*')1;.*' 620' -1?',)*' 0*,6 /*0' 0*.>- =, 12' 1' .)6=*.' D' [*9*/',)*' /6,,*-' 0*6' ? 5),'.**?' 1;,' 1' =/6>*' ; ,' ',)*',*L,' 1' [*9*/' 620',)*' >6-+ 25⅝ ' ,>⅛'1',)*' (*?=/*')60' ?6I/*',)*?' =1=;/6-'B1.*=);.' >1;/0' 21,'=1.. D/ ')6+*' .6 0' I& !'+ ' N' NX' ' 1' 12*' >62' .6 ' 1-' >12A*>,;-*' 8)6,',)*' >)*-;D ?' MTS=1+VN ,,IX' 6>,,6// ' 8*-*⅝J' ,' .' 6/.1' -*?6-96D/*' ,)6,' [*9*/ M>)6=' X' .=*69.'!1',)*?'6.' '/ + 25'>-*6,;-*.J 786X ;20*-' ?*-*' 62 ?6/ 1-?.⅝ ,1',) .' 0*.>- =, 12' 2' >)6=' L' ' ,)*' -*?6-96D/*' *L=-*.. 12' ',)*' 6>*' 1'6' >)*-;D J' .' 2,-10;>*0'620',)*' =-1=)*,'>12>/;0*.' D '6'-* *-*2>*',1') .' 1-?*-' + . 12' 620' 62' 0*2, >6^ ,12'1',)1.*'>-*6,;-*.' 8 ,)',)*'>)*-;D ?'M+' K X⅝ 2' ,)*' 8)1/*' ,' .** ?.' / 9*/' ,)6,',)*' 81-0' -D1-;DJ ?*62,'21,'12/ ',)*'>1?=1. ,*' >-*6,;-*Ⅽ 1-?'1'8)>)' ,)*' ?62' / 12' 1L' 620' *65/*' 8*-*',)*' */*?*2,.' D;,' ;-,)*-' .1?*'=*>;/6-' 620' ? .,>6/ 1-?'8)>)' [*^ 9*/' D* 25'6'=-*.,'81;/0'9218'620'-*>152 .*'6.' ,)*' 6>*' 1'6' ⅛ $ ' D;,' 8) >)' 86.' 9*=,'.*>-*',-1?' 6//1,)*-.' 620' .;>)'=-1D6D/ ' 8*-*',)1.*' 12',)*' 6-9' 8) >)' 8)*2' ,' 86.' ?1+*0' 86.' 6/86A7.>1+*-*0' M.*** ' ' 3',)1;5)',)1.*' 12',)*')625 25.' 620' =62*/.' ? 5),' D*' 1',)*' =1=;/6-' 0*+ >*⅛ &)6,' ,) .'=*>;/6-')*-;D >' L1-?' 86.' .'6' ? .,*-' =*-)6=.' ?=*2*,-6D/*⅛ ,' 86.' =-1D6D/ ' D*/ *+*0' =1=;/6-/ ,1' D*' .1?*.,) 25' 1',)*' D1+2*' , =*' M,)1;5)' 2' .6⅝ L+ 'K ',)*' 21, 12'6==*6-.',1'D*' ?6-9*0'6.'0*5-60*0X' .1' =*2>*-' I ' !' & !' !' '0 ..⅛ 'KX',) 29.',)6,' ,)*' 1L' 86.',)*' '% % '620' _;1,*.' 4-1, ;.' 12' L10⅝ dd ' Q' Ⅿ 1>)6-,'# / !'=⅝ Q ' *0,⅛ SR X⅝ :*2>*' ,)*' 51/0*2' >6/ ⅓J' ()1' .?D1/.?' 1' ,)*' + . 12.' 1' [*9*/ .' ?1-*' >1?=/*L' $ 6 ' ,/ 6,' 1 ',)*' *6-/*-' >-=,;-*.' 620')*' >*-,6 2/ ' ?162.',)6,' *6>)' >1?=1. ,*' >-*6,;-*Ⅽ 1-?')60' 1;-' 6>*.' .1' 6.',1'/119' 1;-'86 .' 6,'12>*T 86.' 1;-Ⅽ. 0*0'620' 1;-Ⅽ8 25*0' .1' 6.',1' ?1+*' 8 ,)' 2.,62,'-6= 0 , ' 2' *+*- ' 0 -*>, 12' 8 ,)1;,;-2 25'8)*-*6.',)*' <1.6>' 0*6' 86.'=-1D6^ D/' . 25/*Ⅽ 6>*0'620' 8 ,)'D;,'12*'=6 -'1'8 25.⅝ [*^ 9*/ 600.' 6/.1',)*' ?65*-E7 1',)*' 8)**/.' 6' ?*>)62^ >6/',1',)*'=-*+ 1;.'62 ?6/ 1-?.⅝ () .'? 5),', = ' 262 ?6,*' 26,;-*'-*+1/+ 25' 2' 6' L*0'>1;-.*' 2 1-?*0' D ',)*' .= - ,;6/=18*-' 1' 410⅝ ()*' 600 , 126/' D1/1'D* 25' ;//1'* *.⅛ .'12*' 1'1D+ 1;.' ?*62 25⅝ ** $ ':) 3! ⅛ -" '@ ' ' " ⅛ ' '81'?6',-;.,',)*;262 ?1;.',*.,?12 '1'B*8 .)',-60 , 12'8*' ?;.,.;=^ =1.*',)6,',)* ')60',)*' 6>*.'1') ;?62'D* 25.'6>>1-0^ 25',1',)*'=1. ,+*' 6..*-,12' 1' <6 ?12 0>.' D6-D6C 2*/' D*2' [-6'*,>⅛ Ⅿ ,D1' !'5 8'.⅛ +' * ;D ?T ;L,1-'# !'& !'@ !'=⅝ X⅝ ;.,'.69 25' [*9*/.' 0*.>- =, 12' 1',)*'?',1'D*',)*'=-1=*-'6==*6-62>*' ,)6,' D*/125*0' 2'>1?12',1'6//) .')*-;D >'>-*6,;-*.'M>)⅝ ' d'L/ X' 8*'6-*'/*0',1'>12>/;0*',)6,',)* '8*-*'>1?^ =1;20' 5;-*.' ;2/9*'62 '/+25'62 ?6/.'1-'-*6/1D⅞*>,' '26,;-*'D;,'-6,)*-'6'>1?D 26, 12' 2' 12*' 2120*.>- =, 6-, >6/ ?65*' 1',)*' 0 .,25;.) 25' *6,;-*.' 620' =-1=*-,*.' 1' .*+*-6/⅛ ()*' 1L' 6.' >) *' 6?125',)*' ,6?*'620';.* ;/62 ?6/.',)*/12'6?125',)*'8 /0' 12*.' ,)*'*65/*'6?125',)*' *6,)*-',-D*.'620'?62'6.')*60' 1+*-' 6//' 8*-*',)1' 62 ?6/.' 8)>)' 1-' -6,.)*-'=6-,.' 1

A.

B.

C.

D.

D (continued).

D (continued).

Ancient Winged Symbols.

A. Egyptian.—1, Angelic; 2, Eagle; 3, Asp; 4, Abstract="eternity;" 5, Sphinx; 6, Griffin.
B. Persian.—1, Cyrus; 2, Royal or Divine.
C. Babylonian.—1, Male Sphinx; 2, Lion fighting; 3, Eagle; 4, Small Animal.
D. Assyrian.—1, Royal, female; 2, Royal, male; 3, Griffin; 4, Horse; 5, Lion; 6, Bull; 7, Sphinx.
E. Grecian.—Griffin.

which, composed the symbolical figures. Each cherub had four distinct faces on one neck—that of a man in front, that of a lion on the right side, and of an ox on the left, while behind was the face of an eagle. Each had four wings, the two under ones covering the lower extremities, or rather the centre of the person (Heb. the feet), in token of decency and humility, while the upper ones, spread out on a level with the head and shoulders, were so joined together, to the edge of his neighbors', as to form a canopy; and in this manner they soared rather than flew, without any vibratory motion with their wings, through the air. Each had straight feet (Heb. "their feet [were] a straight foot," Ezek. i, 7), and the probability is that the legs were destitute of any flexible joint at the knee, and so joined together that its locomotions must have been performed in some other way than by the ordinary process of walking, or lifting one foot after another. Bähr (whose entire remarks on this subject are valuable and often profound) inclines to think that the precise form varied within certain limits; e. g. the cherubic figure might have one, two, or four faces, two or four feet, one or two pair of wings, and might have the bôvine or leonine type as its basis; the imagery being modified to suit the prominently intended attribute, and the highest forms of creature-being expressing best the highest attributes of the Creator (*Symbolik*, i, 313 sq.). Thus, he thinks, the human form might indicate spirituality (p. 340). (Comp. Grotius on Exod. xxv, 18, and Heb. ix, 5.) Some useful hints as to the connection of cherubic with other mythological forms may be found in Creuzer (*Symbol.* i, 441, 540).

It has been sometimes disputed whether the colossal cherubim of olive wood, overlaid with gold, with outspread wings, touching in the centre of the oracle and reaching to either wall, placed by Solomon in the Holy of Holies, were substitutes for or additions to the original golden pair. The latter is probably the truth, for had the Mosaic cherubim been lost we should have been informed of the fact. All that we learn about these figures is that they each had *a body* ten cubits high (1 Kings v, 23), and stood on *their feet* (2 Chron. iii, 13), so that the monstrous conception of winged child-faces is an error which should long ago have been banished from Christian iconography (De Saulcy, *Hist. de l'Art Judaique*, p. 25). The expression "cherubims of *image work*," in 2 Chron, iii, 10 (מַעֲשֵׂה צַבָּתִים, Sept. ἔργον ἐκ ξύλων, Vulg. *opere statuario*, Marg., of *movable work*), is very obscure, but would probably give us no farther insight into the subject (Dorjen, *De opere Zaazyim* in Ugolini *Thes.* viii, No. 6); but in 1 Chron. xxviii, 18, 19, we learn that David had given to Solomon a model for these figures, which are there called "the *chariot of* the cherubim" (Vulg. *quadriga* cherubim). We are not to suppose from this that any wheels supported the figures, but we must take "cherubim" in apposition to "chariots" (Bertheau, ad loc.). The same phrase is found in Eccles. xlix, 8, and is in both cases an allusion to the poetical expression, "He rode upon a cherub, and did fly" (2 Sam. xxii, 11; Psa. xviii, 10), an image magnificently expanded in the subsequent vision of Ezekiel, which for that reason has received from the Rabbis the title of מרכבה, "the chariot." Although the mere word "cherub" is used in these passages, yet the simple human figure is so totally unadapted to perform the function of a chariot, that we are almost driven to the conclusion arrived at by De Saulcy on this ground alone, that the normal type of the cherub involved *the body of an ox*, as well

6.' .=-*60 25' 8 25.' 620' 6') ; ?62' 6>*' I$ ' 'N& ' D 4 1' =% KRX% ' ,) .' >12A*>,;-*' D*' >1--*>,' 8*' .)6//')6+*' 2',)*.*' . ?D1/.' 6'>1;2,*-=6-, '*L6>,' 2',)*' % 1',1',)*') ; ?62C)*60*0' 1L*2' " ' ' '"' " ' ' 8) >)')6+*' D**2'0 .>1+^ *-*0' 2',)*')>)6?D*-.'1 ' ?-;0'620')1-.6D60% & *' .)6//' 20' ;-,)*-'12',)*'.,-125*.,>12 -?6, 12.'1',) .' -*?6-96D/*' 2 *-*2>*% & *' ?6 ')*-*'?*2, 12',)*'.;.^ = > 12' 1 ' ,.' ,-;,) ' 8) >)' 8*' >6221,' D;,' 0*- +*' -1?' ,)*'.,-625*'-*, >*2>*' 1 'B1.*=);.' 12',)*'.;D A*>,' I& !' 'S' X% 18' ,' .')6-0/ '>12>*' +6D/*',)6,'62'*?D/*?' .**2' 06 / 'D ' ?;/, ;0*.' 1 '=- *.,. ' 620' 92182',1',)*' B*8.' -1?',)*'*6-/*.,'65*.'>1;/0'D*' .1'>1?=/*,*/ ' .*^ >-*,'620' 1-51,,*2'6.',) .% ',)*'>)*-;D ?'8*-*' . ?^ =/ ' 8 25*0' 5*2 ' ,)*-*' 81;/0')6+*' D**2' 21'=1.. D/*' -*6.12' 8) ' B1.*=);.' .)1;/0')6+*' D**2' 6.)6?*0',1' ?*2, 12',)*' 6>,' 620' 2',)6,' >6.*')1' 81;/0')6-0/ ')6+*' ;.*0',)*'6?D 5;1;.' 81-0' . !' '12',)*'1,)^ *-')620',)*' 8*-*' .*? CD1+ 2*' 2' .)6=*' B1.*=);. ' 8)1' 86.' 1 '>1;-.*' 6? / 6-' 8 ,)',)*'-*+1/, 25' 01/6,- ' 1 '8) >)') .'26, 12' 86.' 6>>;.*0'M(6> ,% # ' + ' T' B1^ .*=);.' &% ' ' X')60',)*'D*.',-*6.12',1' >12>*6/ ,)*-'-*6/ 1-?'M =*2>*-' ' ' !'# " !' !' // ' +'K' 60 2%' 620',1' 6+*-,' 6.' 6-'%6.' =1.. D/*' 6// ;-,)*-' 2^ _;-'6D1;',)*?% *' ..' " ' /' ! -9.' .;-?1;2,*0'D ' ? .,*-1;.' 8 25*0'5;6-0 62.' 8*-*';.*0' 2',)*'-*/ 5 1;.' .*-+ >*' 1 ' ?1.,' 62> *2,' 26^ , 12.'620'*.=*> 6// ' 2' 5 =,'M /;,6->)' ' ' !'LLL LT & /9 2.12 .' & !' 6 % ' + ' K T' .**' 3 'D;,' 212*' 1',)*'?' 2+1/+*0',)*'.;D/ ?*' 620'.= - .;6/. ?D1/ .?' 1',)*'>)*-;D ?'12',)*' ?*-> C.*6, ' 6,'12>*' 5;67 0 62.' 1',)*' 0 + 2*' 1-6>/*.' 620',7_ *.' 1 '410 .' =-*.*2>*' 1-' ,)*I*L= 6, 12'1 ' . 2% ;,'6'_;*., 12')*-*'6- .*.')18' ,)*=-1 ;.*' 2,-10;>, 12'1 ',)*.*' 5;-*.' 2,1',)*'(6D^ *-26>/*' 86.' -*>12> /6D/*' 8 ,)' 1D*0 *2>*',1',)*'.*>120' >1? ?620?*2,% ,' .'>*-,6 2',),6',)*-5 0'1D.*-+62>*' 1',) .' >1? ?620?*2,' 86.' 6.' .*- 1;.' 6') 20*-62>*',1' ,)*=/6., >%6-,.' 6?125',)*'B*8.' 6.',)*. ? /6-' 2A;2>^ , 12.' 1',)*' 1-62'6-*',1',)*'<1)6? ?*062.!' 620' *,' 21' 81-0' 1' >120*?26, 12' 86.' D-*6,)*0' 656 2.',)*' >)*-;D ?',)1;5)' B1.*=);.' *+*2'+*2,;-.*.' ,1' >)6-5*' 1/1?12'8,)'0 ., 2>,'0 .1D*0 *2>*',1',)*' 68' 1-'=/6^ > 25'1L*2';20*-',)*'D-6[*2'.*6'I& !'+ ' X' ()*' >)*-;D ?' 20**0' 8*-*'?60*' 2'1D*0 *2>*',1'6'0 ., 2>,' >1? ?620!' D;,')18' 86.' ,',)6,',)* '0 0 21,'1 *20',)*' >12.> *2>*.' 1-' .*0;>*',)*'6//*5 62>*' 1 ',)*',)*1>-6, >' : *D-*8.H' ()*'62.8*-' .**?.',1' D*'.,)6,',)*'.*>120' >1? ?620?*2,'12/ ' 1-D 0.',)*'=/6., >'6-,.' 8)*2'=-1.^ , ,;.*0',1',)*'0 -*>,'1DA*>,' 1 ' 01/6,-AW 620' (*-,;$ 62' .'-5),' 2'0* *20 25',)*' 2,-10;>, 12'1 '>)*-;D ?' 12' ,)*5-1;20',)6,',)* '8*-*' 6' % ' ! ' 'KKX7!*+*2',)*'(6/?;0 .,'6//18*0',)*';.*' 1 ' ?65*.' 1-' =;-*/ '0*>1-6, +*' =;-=1.*.'M 6/.>)' ' 6 !'=% N SX% *. 0*.',)* '-*=-*.*2,*0'>-*6,*0' D*^ 25.' '>-*6,*0' D* 25.' 620' 6/.1' 6.',)*?.*/+*.' 2' ,)*' 1-?' 620' 2' ,'1-26?*2,.'8 ,)' .1?*' 6,, ,;0*' 1');? / , '620' 601-6, 12'M L10% LL+' K T' * ,% ' KX' .1',)6,' 2..*60'1'+ 1/6, 25',)*'>1?? 620^ ?*2,',)* '*L=-*..*0',.') 5)*.',.=-,'2',);.'+ + 0/ ' . ?D1/ [25'410 .',;=-*?6>'1+*.',)*'>-*6;-*.'8)>)' .,110'12',)*') 5)*.',*=' 1 '/ *'620'8*-*' 2' 6>,',)* 0*6/ 1 '6D.1/;,*'620'=*- *>,'>-*6,*0'*L .,*2>*'M 6)-' $ ' N ' ._%% & *' ?6 '600',)6,',)* 0625*-' 86.'/*..'D*>6;.*' 2'6// =-1D6D/,',)* '8*-*'.**2'D ? 212*'D;,',)*'=- *.,.'M 1-2*/'6' 6= 0*' '6 !'LL+ QX' 620'8)*2' 2',)*'0*.*-,',)*'6-9'86.'?1+0' -1?' =/6>*',1'=/6>*' ,'86.' >1+*-*0' 1+*-' "' ' % ' ' M ;?% +'S'SX'D* 1-*' 8) >)' *+*2',)*' *+ ,.*.' 8*-*' 21,'.;*-*0',1'6==-16>)',M 1>)6-,'# /!' 'LLL+' 60' 2%% ,'?6 '*+*2'D*',)*'>6.*',)6,',)*.)6=*' 1' ,)*>)*-;D ?'86.' 0*. 52*0/A7>12. 0*-*0'6.' 20* 2,*' 620'+6- 6D/*',)6,',)*',*20*2> ',1'81-.)='.)*?'?5),' ., // ;-.,)*-'D*' 1D+ 6,*0% () .'86+*- 25'620' 20 .^ , 2>,' >12>*=, 12'1',)*?'86.'0;*',1',)*-'. ?D1/ >6/ >)6-6>,*-'6' 6>,'.1',)1-1;5)/ ';20*-.,110'6?125' - *2,6/ 26, 12.'6.'6,'12>*',1'.6+*',)*B*8I'-1?'62 .,-125',*?=,6, 12'620',1'-6 .*',)*?'6D1+*',)*D-*6,)' 1'.;.= > 12% 7 !&(*,)*-',)*51/0*2'>6/'>12.,-;>,*0'D' 6-12'?5),' D*'21,',)*' =.'1' 5 =,'D;,'6'-*=-*.*2,6, 12'1',)*' 62,*0/;+62')*-;D ?'6.'.1?*' .;==1.*' -1?' ,'D*^ 25'?60*' 12' 6' *6.,',1',)*' 1-0 J'620'>6//*0' ,)=' 1' .-6*/J'M L10% LLL ' X' 620'8)*,)*-'B*-17' D16?' 2',)*'*-*>, 12' 1').' ,81' >6/+*.' 2,*20*0' 6' .>) .?6, >' ?,6, 12'1',)*'.6>-*0'. ?D1/.' 2',)*'(*?^ =/*1'B*?.6/*?'-6,)*-',)62',)*'2,-10;>, 12'1'6'2*8' .=*>*.' 1' 01/6,-'M' 25.'L 'KQX' 8*'.)6//21,'.,1=' ,1'2_;-%' *' ;,'6.'=6562..?' .'6'>1--;=^ , 12'1'=6,-6->)6/81-.) =' *6>)'26, 12')6+25'600*0' .1?*,)25'6>>1-0 25',1' ,.'18 2',6.,*'620' 62>A' =*-^)6=.'8*'?6 ' 20'6'>12 -?6, 12'11',)*'+*8.'5+*2' 6D1+*'1',)*'>1?=1;20' 1-?'1',)*'>)*-;D ?' 2',)*' .,-625*' 5;-*.',)6,'6-*' 5-1;=*0',15*,)*-' 2',)*')*6^ ,)*2'0*,*.% ()*'2;?*-1;'1LC)*60.' 1-' 2.,62>*' 2% ,)*.,6,;*'1',)*' 62> *2,' 626'620'=6-,>;/6-/',)* .6,>'01/.'6/?1.,'6//'1'8)>)'*L) D ,'.*+*-6/')*60.' 620'6-?.'6,,6>)*0',1'12*'=*-.12'1-',)*')*60.'1'0 *-^ *2,'62?6/.'>1?D 2*0'6 1-0'6'>1//6,*-6/=-11 '. ? /6-' ,1',)*';2+*-.6/=-*+6/*2>*'1'.6>- >*',)6,',)*'1-?' 1',)*=- ? , +*')*-;D ?'.)6.'D**2',-60 , 126// '=-*^ .*-+*0'620'*L,*20*0'1+*-'6'/6-5*'=1-, 12'1',)*'81-/0% ()'.'?6 '20**0'D*'.)182'D ',)*6D1+*'6>,;6/ 5;-*.' >1= *0' -1?' 62> *2,' ?12;?*2,.'6//1'8)>)' //;.^ ,-6,*'.1?*'12*'1-'?1-*'1',)*'21, 12.'8)>)'8*'6,,6>)' ,1',)*')*-;D >' 1-?.'620'8)/*',)*'6 1-0'?6,*-6/ 6.. .,62>*',1'1;-'0*6.'12',)*'.;D A*>,',)*' .)_8',)6, 5;-*.'1',) .'9 20'6.'.6>-*0'. ?D1/.'8*-*'21,'=*>;^ /6-',1',)*':*D-*8.'620',)6,',)* -'=-*.*2>*'2',)*'.62>^ ,;6-'86.'21,'>6/>;/6,*0',1'*L>,*'62 '.;-=- .*'6?125' ,)*'2*5)D1-25'26, 12.'1-',1'/*60',1',)*'21, 12',)6, ,)*B*8.'6/.1'8*-*'81-.)==*-.'1' 01/.'1-'*+*2'2' ,)*=6562?12;?*2,',)* '2*+*-'6==*6-'6.'01/.'D;,' 6.'?D1/.T 620',' 86.' *-'=1.. D/ '.)6>,',)6, ,)*>)*-;D>' 5;-*.'8*-*'21,'/6D/*',1'D*' ?.;20*-^ .,110 '+D>)' 20;>*0',)*' + 2*' 8.01?',1' =*-?',)* -' 2,-10;>, 12' 2,1',)*'?1.,'D1/ '=/6>*% <-% 6A76-0',-6>*.' ?62 '.,-9 25'=1 2,.' 1 '626/15 ' D*,8**2',)*' 1-?' 620'=1., 12' 1',)*' D1+*' 5;-*.' *.=*> 6// 'D*,8**2',)*'/6.,'12*.'1',)*' .. - 62'5-1;=' 626',)*')*-;D ?'1',)*'(*?=/*d '& ,) 2',)*.6>-*0' 1-6>/*' ,.*/'8*-*',)*',81'>)*-;D ?'1 '1/+*C8110',*2' ;D,.') 5)'8 ,)'8 25.'*6>)' +*'>;D ,./'125'620' 1/^ 1?12'>6-+*0'6//',)*')1;.*'6-1;20'8 ,)' * ' " ' '% = '620'1=*2' /18*-.'8 ,) 2'620' 8 ,)1;% ()*')*-;D ?')6+*'D**2'0*.>-D*0'D' D/ ^ >6/>1?? *2,6,1-.'6.' ? ,) >' 5;-*.';2 , 25',)*')?6?')*60'8A,)',)*D10 '1'6/ *2'1-'62'1L'620',)*'8 2%50' 1'62'*65/*% ' 1-',)*'=6/?C,-**.'8*'.;D.,.;,*',)*' .6>-*0',-**'1',)* 2*+ .*.>;/=,;-*.'620'1-',)*' 1=*2' /18*-.',)*' .. - 62',;/=C.)6=*0'1-26?*2, '1D^ A*>,..'?1.,'=-1D6D/ '+*-A!'2*6-/ '-*.*?D/25'*6>)'1,)C' *-'8*' ?',)*'1-6>/*'1',)*'(*?=/*'86.'6/?1.,' 0*2^ ,>6/'2'5*2*-6/1-?'620'2',.'1-26?*2,.'8 ,)'.1?*' 1',)*')6-6>,*-.'1' ?-1;0'620')1-.6D60% 2',)*' .. - 62')6//.',11',)*8 25*0');?62C)*60*0'D;//.' 8*-*' Q2',)*'. 0*'1',)*' 86//'620',)*' -'8 25.'/9*' ,)1.*'1',)*')*-;D ?'C,-**.'8*'.;D.,.;,*',)*' 1',)*'>)6-6>,*-.'1' ?-1;0'620')1-.6D60% 2',)*' .. - 62'=6/6>*.'I7 "' ' ; 'KO'.*^ - *.'=% S NX% 0 ,'6==*6-.',)*-* 1-*',)6,',)*.A?)1/>' 5;-*'8)>)' *:*D-*8'5*2*-.>6// '0*.526,*.'6.'6' ' '86.'6' 1?=1.,*>-*6,;-*C 1-?',)6,' 20.'6'=6-6//*/2',)*-.^ /5 1;.' 2.52 6'1' ..E(6' 5 =,'620' *-.6'*%5%,)*.=) 2L',)*8 25*0'D;//.'620'/12.'1' 2*+)',)*>%'6' 5*2*-6/=-*+6/*2>*'8)>)I'=-*+*2,.' ,)*'2*>*.. ,'1' 1;'-*56-0 25',6.'6'?*-*'601=, 12'-1?',)*' 5 =, 62' -,;6/% 2'.;>)' 1-?.'M>1?=',)*')?6A-6'1'47**9' 620',)*'4- 2'U)'21-,)C*6..*-2'6D/*.X*+*-'?6726C' ,+*'=*1=/*')6.'.1;5),'1'*?D10 ',.'21, 12.'*,)*-'1' 1'.;.=>12%

of Nature which transcend that of man. Among the Greeks the *dragon* (Photius, *Cod.* 190, p. 250), and among the Indians the *griffin* (Pliny, vii, 2), were especially such creatures of mythological imagination. See DRAGON. In the various legends of Hercules the bull and the lion constantly appear as forms of hostile and evil power; and some of the Persian sculptures apparently represent evil genii under similar quasi-cherubic forms. The Hebrew idea seems to limit the number of the cherubim. A pair (Exod. xxv, 18, etc.) were placed on the mercy-seat of the ark; a pair of colossal size overshadowed it in Solomon's Temple with the canopy of their contiguously extended wings. Ezekiel, i, 4–14, speaks of four, and similarly the apocalyptic *living creatures*, ζῶα (Rev. iv, 6), are four. So at the front or east of Eden were posted "*the* cherubim," as though the whole of some recognized number. They utter no voice, though one is "heard from above them," nor have dealings with men save to awe and repel. A "man clothed in linen" is introduced as a medium of communication between them and the prophet, whereas for a similar office one of the seraphim personally officiates; and these latter also "cry one to another." The cherubim are placed beneath the actual presence of Jehovah, whose moving throne they appear to draw (Gen. iii, 24; Ezek. i, 5, 25, 26; x, 1, 2, 6, 7; Isa. vi, 2, 3, 6). The expression, however, "the chariot (מֶרְכָּבָה) of the cherubim" (1 Chron. xxviii, 18) does not imply wheels, but the whole apparatus of ark and cherubim is probably so called in reference to its being carried on staves, and the words "chariot" and "cherubim" are in apposition. So a sedan might be called a "carriage," and the masc. form מֶרְכָּב is used for the body of a litter. See, however, Dorjen, *De cherub. Sanct.* (ap. Ugolini, vol. viii), where the opposite opinion is ably supported. The glory symbolizing that presence which eye cannot see rests or rides on them, or one of them, thence dismounts to the temple threshold, and then departs and mounts again (Ezek. x, 4, 18; comp. ix, 3; Psa. xviii, 10). There is in them an entire absence of human sympathy, and even on the mercy-seat they probably appeared not merely as admiring and wondering (1 Pet. i, 12), but as guardians of the covenant and avengers of its breach. A single figure there would have suggested an idol, which two, especially when represented as regarding something greater than themselves, could not do. They thus became subordinate, like the supporters to a shield, and are repeated, as it were the distinctive bearings of divine heraldry — the mark, carved or wrought, everywhere on the house and furniture of God (Exod. xxv, 20; 1 Kings vi, 29, 35; vii, 29, 36). Those on the ark were to be placed with wings stretched forth, one at each end of the mercy-seat, and to be made "of the mercy-seat," which Abarbenel (Spencer, *De leg. Heb. ritual.* iii, diss. v) and others interpret of the same mass of gold with it, viz. wrought by hammering, not cast and then joined on. This seems doubtful; but from the word employed (מִקְשָׁה) the solidity of the metal may perhaps be inferred. They are called "cherubim of glory" (Heb ix, 5), as on them the glory, when visible, rested; but, whether thus visibly symbolized or not, a perpetual presence of God is attributed to the Holy of Holies. They were anointed with the holy oil, like the ark itself and the other sacred furniture. Their wings were to be stretched upwards, and their faces "towards each other and towards the mercy-seat." It is remarkable that with such precise directions as to their position, attitude, and material, nothing, save that they were winged, is said concerning their shape. See TABERNACLE.

Probable Form of the Cherubic Type.

IV. *Their Meaning.*—All, whether ancients or moderns, have agreed that the cherubim were symbolical, but they have greatly differed as to their figurative design; many regarding them as having a twofold significance, both physical and metaphysical. They were clearly intended, in a general sense, to represent divine existences in immediate contact with Jehovah. This was the view of Chrysostom, Ambrose, Augustine, and the fathers generally (Sixt. Senensis, *Bibl. Sanct.* p. 348), and the Pseudo Dionysius places them second (between seraphim and thrones) in the nine orders of the celestial hierarchy (Dionys. Areop. *de Cælest. Hier.* p. 5–9). The Cabalists, on the other hand, placed them ninth in their ten choirs of spirits (Buddæus, *Philos. Hebr.* p. 415). In a special sense, Philo regarded them as signifying the two hemispheres, and the flaming sword the motion of the planets, in which opinion he is joined by some moderns, who consider them to have been nothing more than astronomical emblems—the Lion and the Man being equivalent to Leo and Aquarius—the signs of the zodiac (Landseer, *Sab. Researr.* p. 315). Irenæus views them as emblematic of several things, such as the four elements, the four quarters of the globe, the four Gospels, the four universal covenants (*adv. Hæres.* iii, 11). Tertullian supposed that the cherubic figures, particularly the flaming sword, denoted the torrid zone (*Apol.* cap. 47). Justin Martyr imagined that the living creatures of Ezekiel were symbolical of Nebuchadnezzar, the Assyrian monarch, in his distress; when he ate grass like an ox, his hair was like a lion's, and his nails like a bird's claws (*Quæst.* xliv). Athanasius supposed that they were significant of the visible heavens (*Quæst. ad Antiocl.* cxxxv). The nature of the passages in which cherubim occur—passages poetical and highly wrought—the existence of exactly similar images among other nations, and the purely symbolic character of their form, has led not only Jewish allegorists like Philo, and Christian philosophers like Clemens of Alexandria, but even such writers as Hengstenberg, Keil, Neumann, etc., to deny them any personal reality; and in this way we may explain Zullich's definition of them as "mythical servants of Jehovah" (*Die Cherubim-Wagen*, Heidelberg, 1832). Thus, in the vision of Ezekiel, it is obvious that their animal shape and position implies subjection to the Almighty; that the four heads, uniting what were, according to the Jewish proverb, the four highest things in the world (Schoettgen's *Hor. Hebr.* ad Rev. iv), viz. the lion among beasts, the ox among cattle, the eagle among birds, and man among all, while God is the highest of all—constitute them the representative and quintessence of creation, placed in subordination to the great Creator (Leyrer, in Zeller's *Wörterb.* s. v.). The heads, too, represent not only creatures, perfect after their kind, but also perfect *qualities*, as love, constancy, magnanimity, sublimity, the free consciousness of man, the strong courage of the lion, the enduring strength of the ox, the rapid flight of the eagle (Hoffman); and possibly the number four may

20 >6,*',)*' , 2 +*-.*' 6.' >1 , =1.*0' 1 ' 1;-' */*?*2,.' 1-' ',)*' >)*-;D ? ' -1?',)* -' D* 25' 2., ,;,*0' ? ?*0 6,*/ ' 1;-' _;6-,*-.%' ()*' 1;-',-60 , 126/ MHX' .,6206-0.' 1 ' 6 ,*-',)*' 6// 6.')6+ 25' =6-, >;/6-' -* *-*2>*',1',)*' ,)*' _;60- /6,*-6/ .-6*/ ,*' *2>6?=?*2,' Md 2% X',)*' '-*0*?=, 12' 1 ' ?62 ' 620' 6.' . ?D1/ >6/ 1 ' ,)*' 5-*6,' / 12' 1 'B;06) ',)*' ?62' 1 ' *;D*2' ,)*' *65/*' 1 ' 62 ' 620' 6>, +*' -;/*-.' 1-' ? 2 .,*-.' 1 ',)*')*-;->)% ()=.1' ,)*' 1L' 1 ' =)-6 ? ' 6-*' 6-',11' ;2>*-,6 2',1' D*' -*/ *0' 8)1' 601=,' ,) .',)*1- ' 6-*' 6>>;.,1?*0',1' -* *-',0%,)* ;=12% ()* -' * *.'-*=-*.*2,' ;2 +*-.6/ 9218/*05*' 620' / + 25' >-*6,;-*. ' 1-' >)*-;D ? ' ?*2, 12*0' 2',)*' =1>0 2. 5),' M>1?=% + 0 ' ' #K ' 620',)*' . ? /6-' 6/ =, >' + . 12' M *+% + ' SX' ?=-1=*-/ ' -*20*-*0' 2' 1;-' 7?D1/ 1 ',)*')1*2 > 62' 510' (6;, ' ?*2, 12*0' D '' 25/ .)',-62./6, 12' *6.,.J' M 86X' 620' 8) >) ' , ' ' 62>)1; 6,)1' 6=% ;.*D% %!' 6 ' L ' NRX' 1-' >/*6-' 8*-*' 21,' 625*/. ' D;, ' -*0**?*0' ?*2' >122*>,*0' ,)*' 6-*' ,)*' ' '" ' ' 8) >)' -;2' ,1' 620' -1' 8 ,)',)*');->) ' 6A 0'0**=/ ' 2,*-*.,*0' 2',)*' D/*.. 25.' 3' -1;)-1;5)',)*' 8)1/*' *6-,)' MU*>)% +' X% ()*' 8 25.' 620' 5/1- ' =-1>;-*0' D ',)*' 6?D% (B*' .6?*')>)-6>^ ?=/ ' .=**0' 620' ;D _;,7J' ,)*' 8)**/.' 6-*' 2*>*..6- ' ,*-' ?6 'D*' 6.>- D*0',1',)1'/ + 25' >-*6,;-*.' 2' [*9 */ .' 1-' ,)*' ,)-12*C>)6- 1,' ,.*/ ' 6' =*- *>,' 620' -1 6/ *?^ + . 12. ' 620',1',)1' >)*-;D ?' 8)>)' .,110' 1+*-' 620' D/*?' 620' .1';.*0' D 1,)*-' 26, 12.' M)-A .1.,% , ' /119*0' 2,1',)*' ?*-> C.*6, '.=- 29/*0' 8 ,)',)1' D/110' ddd XT' 620',)*' .,-6 5),' **,' ?=/ ',)*' *- '5/ 0 25' 1',)*')*>) 26) '1-' 0 + 2*' 620' / 5),2 25C/ 9*' /6.)' 1',)*' -' 0 + 2*' ?1, 12' I + =' 5/1- ' 6- . 25' -1?' ,' 6.' 8*// 6.',)1' >)*-;D >' 5;-*.' B X% & *' =;-=1.*/ ' 6+1 0',)*' *--1-' 1 '=-*.. 25',)*' 8)>)' 8*-*' =/6>*0' 12',)*' *05*' 1 ' 0*2' 620',) ;',)1' ? 21-'=6-, >;/6-.' .;>)' 6.',)1.*' .;55*.,*0' D ' /*?*2.' >)*2 D ? '8)>)' 6-*' =-1? 2*2,GE' 2,-10;>*0' 2' 6//,)1' /*L620- 2;.'8)*2')*' .;==1.*.',)6,',)*',8*/+*' 8 25.' ,)-.*' .;>>*.. +*' 0 .=*2.6, 12.'1',)*' >1+*262,'1 '5-6>*') 2,' 6,',)*',8*/+*' . 52.' 1',)*' [10 6>' I1$ ' ' 6==*6-',1'D*' ?D1/.'1',)1.*' 8)1' 2'+*-' '65*' .)1;/0' >6=% + ' .*>% N ' =% K ' *0% /D%X% ()*;.' *L=/6 2*0' 1 >6// ' .,;0 ' 620' =-1>/6 ?' ,)*' 5/1- ' 620' ?62 1/0' ,)*' D*>1?*' 6' .,- 9 25') *-15/ =) >' 1',)*' 06[[/ 25' 8 .01?' 1 ' 410% ',) .'+ *8 ' / 9*8 .*' ,' ?6 'D*' .6 0' >12..;?? 6,*' D*6;,E' 1 ';2 +*-.6/ >-*6, 12' *? 626, 25' ,)6,' 8)/*' ,'6.. 52.' 62' 60*_;6,*' 620'=/6;. D/*' -*6.12' -1?' 620'.;DA*>,*0',1',)*' 0 + 2*' -*6,1-' 8)1.*' 6,,- ^ 1-',)*' 2.., ,;, 12' 1 .1?*' . ?D1/')6+ 25' 6' ?1-6/ ?^ D;,*.' 6-*' -* /*>,*0' 2') .' 81-9.% =1-,' ,'01*.' 21,' .)18' 8) ',)*' .=*06/ 1-?' 2' _;*., 12' ()*/*60 25' 1=2 12.' 1 '?10*-2.' ?6 'D*' -*0;>*0',1' .)1;/0')6+*' D**2' .*/*>,*0% 7 ,)-**' . .,*?.% M %X' :;,>) 2.12'620') .' 1//18*-.'>12^ ' .' *+ 0*2,',)6,',)*' 2,*-=-*,6, 12' 1 ',)*' . ?D1/ . 0*-',)*' >)*-;D ?' 6.' *?D/*?.' 1 ',)*' (-2, ' 8,)' ?; ,.;D*' 6.'+6- 6D/*' 6.',)*' . ?D1/ ,.*/ ' 620' 87' .)6// ?62' 2>1-=1-6,*0' 2,1',)*' 0 + 2*' *..*2>*d 2' =-11 '1' 6>>1-0 25/ ' 20',)6,' 21' '*L=/626, 12' 1 ',)*' >)*-^ 8)>)',)* '-*?6-9',)6,',)*' 81-0.'-*20*-*0' 6' /6?^ ;D ?' >62' D*' 6>>*=,*0' 6.' 60*_;6,*' D;,',)6,',)*' D*.,' 25' .81-0J M4*2% K X'. 52 '*,)*-' 6' /6? 25A *-' 1',D*' +6- 1;.'*L=/626, 12.' >12,6 2' */*?*2,'1',-;,)' .81-0' 6.',)*' 81-0.' 6-*' -*20*-*0' D ',)* *=,%' 1-' 8)>)',)* '?*/,' 620' 60*' 2,1' *6>)' 1,)*-' 620' 6-*' *6>)',-;*' -6,)*-' 6' /6?*' 1 ' -*' 620' 6' .81-0' 1-' 92 *' .1',)6,' 2' ;20*-' 12*' 6.=*>,% $2.6, .6>,1-E' 620' +65;*' 6.' .' ,) .' 5;-*',)*-*' 86.' *L) D ,*0' 2' + . D/*' 1-?',1',)*' ,)*-;D ?' 620' /6? 25' 81 0 J' ,')6.' 6,'/*6.-',)*' ?*-.',1'.* [25',).-;,)% ? 20.' 1';-' -.,' =6-*2,.' -* ',)*' ?D/*?' 1 '0 + 2*' 8-6,)' 6.' 8*// 6.' 62' 2.,-;?*2,' 1-' .6>- >*' 8)>)' 6.' ,'*2 1/0*0' 1-'-*+1/+*0' -1;20' ,.*/ ' >62' ?*62' 21,)^ 25' */.*',)62' 6' =>,,'-*' 1',)*' .6, .6>,12',1' D*' ?60*' D '0*' ,' ,.*/ % ' ;',)*' 5-620' 1DA*>,12',1',) .',)*1' 6.' *?D/*?' 1 '0 + 2*' =*- *>,12 '=*.12 >6^ - '8)*-*' ,' .' 6,'6// 2,*// 5 D/*' .',)6,'21,'12/ '6-*' , 12. ' 2' 6>,' 1 '26,;-6/ =18*-' *?=/1 *0' 2' 410 .' .*-^ ,)*' >)*-;D ?' 2' 6//,)*' =/6>%.' 1 ' >-=,;-*' 8)*-*',)*' +>*7 6.' * & *,*')1/0.! 620' *?D/*?.' 6/.1' 1',)*' 6-*' 2,-10;>*0' 0*.>- D*0' 6.' 0 ., 2>,' -1?' 410' 620' 21' 0 + 2*' 6,,- D;,*.') .' ./182*..',1' 625*-' / .' .=**0',1' ?1-*' 1',)62'),) .' 6,,*2062,. ' D;,' ,)6,' .' -*=-*.*2,.',)*' /1+*' M4-1, ;.' 12' L10# LL+' QT' 1)6-,' /! 0 + 2*' * 25' 8)1' .' 6'=;-*' .= - ,' 8 ,)1;,' =6-,. ' =6.^ QT' 1.*2?;//>-'$ " ' '6/ "! T')/1' ((=' . 12.' 1-' 62 ,) 25' ?6,*- 6/' ?69 25' 6' + . D/*' = >,;-*' d =1;AN%)' - *' 7d1 % % %! g CRT' ' 'N ' !' =% 1 ') ?.*/ ' 8)*2' 2' 6// 65*.' -1?',)*' D*5 22 25' 1' SQQX% 1,)' 1',)*.*' + *8.' 6-*' 60?.. D/*!',)*' >)*-;^ , ?*')*')6.' *L=-*../ ' =-1) D ,*0' ,)*' / 9*2*..' 1' D ?' -*=-*.*2,'6,'12>*',)*' .;D1-0 26, 12' 1',)*' ;2 +*-.*' 62 ,) 25' 2')*6+*2'6D1+*J' M.**' 6-9);-.,' # !' 9 ,1' 410' > + ' ' / *[6' >% NT' $+ "' 5' " ' g KN' .!% X% MK%X' 21,)*-' . .,*?' -*56-0.' ,)*' >)*-;^ 6=' >/ *,,5*2' D !' 2 !' 60' =1>% L' S' -W>' I$ D ?' 6.' .?D1/ >6/ 1',)*' >) * '-;/ 25' =18*-.' D ' 8)>)' E ' - ' % C E :' ' / D% +' >=% !' /^ 410' >6-- *.' 12',)*' 1=*-6, 12.' 1 '26,;-*% .',)*')*6+C 1-0' 12' *+% +' QX' 620',)*' 5/1- ' 1 ') ?' 8)1.*' .*-^ 7*2' 1 ')*6+*2.' 86.', = *0' D ',)*')1/ ' 1 ')1/*.' 2',)*' +62,.' ,)*' 6-*' IO % $ %' 1 D ' :*D% L' SXT' 6.' *+ , >6/ ,6D*-26>/*' M :*D% L' NC K' K CKQX',) .' . .^ .,620 25' 12',)*') 5)*.',..*=' 1 '>-*6,*0' / *' 620' ;2 ,^ ,*?' >12. 0*-.',)6,',)*' + . D/*')*6+*2.' ?6 ' D*', = *0' 25' 2',)*?.*/+*.',)*' ?1.,' =*- *>,>-*6,*0' / *' ,)*' D ',)*' / 1/ '=/6>*' 1-',)*' 1;*.' 62>;6- ' 620' 6>>1-0^ 6-*',)*' ?1.,' =*- *>,' -*+*/6, 12' 1 ' 410' 620',)*' 25/ ' 20 25' 6.' ,.' .;==1-,*-.' ?65 2*',)*' '01',)*' / * ,)*' 12' 620',)*' : 1/ ' = - ,' M : ;/.*X! ,)*',81' 26,;-*.' >)*-;D ?' 0*2, *0' 8 ,)',)*' 6*- 6/ -?6?*2,' 620',.' .' +*- ' ?622*-' 1 Z)- .,M 5), 11,X! ,)*' 1;-'65*.' 1',)*' 81-/0' M 6^)*' ?62 *.,*0').' 0 + 2*' 5/1- ' 2',)*',6D*-26>/*' 620' .*-' ' ' ' " " ' '" 4 ' 9 ,*?=/*' ',)*' 2,*-=-*,',)*' >)*-;D ?' 12' 8)>)',)* ' -/% QK X! 1-' 410 .' 1;-1/0' >1+*262,' 8 ,)' ?62' 2' 1-0' .' 0*.>- D*0' 6.' - 0 25' .1' D*' ?D1/ >6/ 1',)*')- .,' 6.' ?62' 6.' .6>- >*0' 6.' - .*2' 620' 6.>*20*0' 8 20',D*' >/1;0.',)*' -*' ',)*' / 5),!' 2' .)1-,',)*' M -20,' " ' " " ' +' ' SX% & *' ?6 ' >1?^)6+*2.',)*' 6,?1.=)*-*',)*' 5-*6,'=) .>6/=18*-.' D' =6-*'6/.1',)*' 6D.;-0' *L=/626, 12' 1 ' /*-?12,',)6,',)*E7 8)>)',)*' -*6,1-' 620' =-*.*-+*-' 1 ',)*;2 +*-.*' >6-^ 6-*',)*' 21-,)*-2' 6-?' 1 ')6/06A62.! 620' 1 ' 6,9*',A 2,' - *.' 12',)*' 1=*-6, 12.' 1 '26,;-*% ' () .' + *8 ')18*+*-' ,)*' .E(2,X1/ [*',)*' 0*.,-;>, +*' =18*-.' 1 ',)*')*",)*2' 6/,)1;5)' 01;D,/*..',-;/ '-*=-*.*2, 25',)*' '1 ',)*' 510.% ()*' +*- ' 8 0*C.=-*60' 620' *6-/ ' 62> ' 8)>)' >)*-;D >' . ?D1/ ' 6/.' D '-*6.12' 1 ' .' +6A7;*' 620' %L^ 6,,6>)*0',)*' >)*-;D >' 5;-*.',1',)*' 1;-'*+625*/ .,.' .' ,*2,6, 12' 601=,*0% MN%X' ',) -0' . .,*?' >12. 0*-. *_;6// ';2,*26D/*',)1;5)' ,' -.,'6==*6-.' 2',)*' 6.,1-

: *-?6.' 620' 86.' 601=,*0' D ' ,)*' ,>)11/ 1 ' ,%B1)2' M -*2 ' /' ' K'QT ,)626.% ,*%# + ' K' =% T ;5; .,' ' !6 !' 'ST B*-1?*' !' '6 !:' %!' ' ' !:' 4-*5% # !' ' '6/ %T 06?' 0*' ,% *,% # ' '$!'6 !' *,> X% ()*' 1;-' 2',)* -' ;2 12' 8*-*' -*56-0*0'6.'6' . ?D1/1',)*' *0**?*-'M.**' (-*2*) .' 1 ' ' !' & !' =% N X% ()*' /6.,' ,1' ?6 2,6 2' ,) .' + *8' .' -% &1-0.81-,)' M12' *+% +X' 8)1' .' I-5),/ '62=8*-*0'D ' *62' / 1-0'M60'/1>%X%

% ()*' 17>*' 6.>- D*0',1' ,)*.*' . ?D1/ >' D* 25.' .' F ?6 2/ ',81 1/0 ' ' 6'=-1,*>, +*' +*25* ;/ ;2>, 12' 2 5;6-0 25' -1?' ?62.' ,11' >/1.*' 2,-;. 12' ,)*' =) . >6/ 620' ?1-6/ .=/*201-.'1 '6'/1.,'=6-60 .*' 620'6' .6>-*0'-*+^ */6, 12'1 620 ' K',1' 1-?',)*' ,)-12*' 620' >)6- 1,' 1 ',)*' 0 + 2*'D* 25' 2'D .'*6-.,)/ ' <62 *.,6, 12.' 620',1'5;6-0' ,)*' 1;,.9 -,.' 1 ') .' ;26==-16>)6D/*' 5/1- ' M >))1-2' 6 ! 'g Q X% ()*' >)*-;D ?' *25-6+*0' 620' 81+*2' % 2',)*' (*?=/*' 0*>1-6, 12. ' 8) /*',)*' . ?D1/ [*',) .' ;2>, 12' .*-+*' 6/.1' 6.' 6' .*6/ 1 ' . ? / ,;0* J' % 1% 6.')*-6/0 >' 2. 52 6' 1 ',)*' 0 + 2*' 6,,- D;,*.' ,1' ?6-9'B*^)1+6) .' =-*.*2>*' D ',)* -' 5;6-0 62' ? 2 .,-*.' M . 01-% +' *=% NX% ',),)*' .6?*' ,?*' -1?' " '=1 2,' 1 ' + *8' ,)* ' 8*-*' 21' /*..' . 52$ >62,' 1 ',)*' ;/2*..' 1 ' / *' .;D1-0 26,*0',1') ?' 8)1' >-*6,*0' ,% '-* *-*2>*' ,1',)*' =1>6) =.*' (6D/*.' ;.',1' >1?D 2*',)*.*' >12>*=^ ,12.' 8,)'6' 6-' .;D//?*-',-;,) '620',1'*L=/6 2',)*' >12^ 2*>, 12' 1 ',)*' >)*-;D ?' 8 ,)',)*' ?*-> C.*6,'6',=*' 21,' 12/E' 1 ' +*25*62>*' D;,' 1 ' *L= 6, 12' 620' 1-5 +*^ 2*..% 1-' 2',)*' + . 12' 1 'B1)2',)*.*' ? ?1-,6/ , *.' 6==*6-' 2',)*' .6?*' >)1 -' 8 ,)',)*' -*0**?*0' 22;?*-^ 6D/*' ?;/, ,;0*' 1 ',)*' ;2 +*-.6/ >);->)' M + ' T +' NXT 21' /125*-' 6-?*0' 8 ,)' /6? 25' .81-0.' 8 ,)' 8-6,) ;/ 6.=*>,' 620' -*=*//62,' ./*2>*' D;,' ? 25/ 25' 8 ,)',)*'*/^ 0*-.' 620'A1 2 25' 2',)*' 2*8' .125% 20')*-*' ,11' 8*' 20',)*' -*>1+*-*0' 0*2',)*' 86,*-' 1 '/ *' /18 25' -**^ / '620',)*',-**' 1 '/ *' 8 ,)' 21' /6?*',1')*05*' ,'-1;20% ();.' ,' .' 2',)*' =1*6/E =.*',)6,',)*' ;//*.;'620' 0 + 2C *.,' . 52 >62>*' .' 6,,6>)*0',1',) .' =-1 1;20' *?D/*?% 2',)*' >)*-;D ?' 1',)*'/6.,' D119' 1',)*' D/*' 8*' 20' ,)*') 5)*.,' *L=/626, 12' 1',)*' >)*-;D ?' 2',)*' -.,% ()*' 6==6-*2,' 8-6,)' 8) >)' *L>/;0*0' ?62' -1?',)*' 1-^ *.,*0' =6-60 .*' 86.' D;,',)*' ?*-> ' 2' 0 .5;.*' 8)>)' .*>;-*0' 1-') ?' ,.' 26/ -;, 12' 2' 6' 21D/*-' 1-?' 1 ' / *% ();.' 1'5 +*',)*%/6.,' ,1;>)' 1 ' ?*62 25',1',) .' >)625* ;/. ?D1/'8*' >6,>)' 2' ,'6' 5/*6?'0 ?'6,' -.,' D;,' 5-18 25' 2,1' .,*60 'D-5),2*..' 1',)6,'-*0**?*0' >-*6,*0' =*- *>, 12' ,)6,' *L6/,*0' .= - .,;6/ D10 ' 1-' 8) >)' .'-*.*-+*0')*-*6 ,*-',)*'=6-60 .*' 1'410% *^ 120',) .' 8*' >6221,'51' D;,' 8*')6+*' .6 0*'21;5)',1' .)18',)*' ?62 C.0*0'6==/ >6D/ , '1',) .' 2.= -*0'>12^ >*=, 12' 6'?62 C.0*02*..'8) >)' .',)*'.,-125*.,'=-11' 1 ' ,.' +6/;*' 620' 5-*6,2*..%

% ,' .' ?=1-,62,',1'1D.*-+*',)*'*L,-61-0 26- '-*^ .*?D/62>*' 1',)*' >)*-;D ?' 6.' 0*.>-' 2' 0 .5;.*' 8)>)' ,1',)*' . ?D1/ >6/ -*/ 5 1;.' 62> *.' 1')*6,)*2' 26, 12.% $' .' 21,' .-;*' 2' ' ,1' .6 '8 ,)' ;-['),6,',)*' (')6-6>,*-' .' 6-' ?1-*' =-*01? 262,' 2' ,)*'%*?^ D/*?.' !1' ')*6,)*2' =62,)* .?% +*2' '8*' >12>*0*' M8)>)' .' ?1-*' ,)62'01;D, ;/X',)6,',)*' . ?=/*.,' >12^ >*=, 12' 1 ' >)*-;D ?' 86.'-*=-*.*2,*0' D '8 25*0' ?*2' 8*' 20' 1;-C8 25*0' 620' . LC8 25*0');?62' 5;-*.' 2' ,)*' .>;/=,;-*.' 1 ' 2*+*)'M 6 6-0' ' K X% 2' 6>,' " ' ' ' ' ' ' 8)*,)*-' 1 'D;//' *65/*' 620' ?62' M 6 6-0' 7 "' ' K XT ?62' /12' 620' *65/*' ID !'==% 'NI RXT ?62' 620' *65/*' I1 2 !' S XT ?62' 620' / 12' ID !' 'SNXT 1-',1',69*',)*' ?1.,' =-*+6/*2,'MD1,)' 2' >-=,;-*' 620' 2',)*' .. - 62'.>;/=^ ,;-*.X' ?62' 620' D;//>' X' 8)>)' ?6 '21,' D*' =-1^ ;.*/ '=6-6//*/*0% 2' 6>,' " ' A " ' ' ' '1' [*9*/' '.**9 25',1', = '>*-,6 2'0 + 2*' 6,,- D;,*.' >)1.*' 1-?.' 6?/6-'21,'12/A7',1') ?.*/ 'D;',1',)*'=*1=1-=/1' 8)=?') *' 600-*..*0J' M O% !' .**',11' 7 " ' ; ' 'S NXT 1-'6.' 8*' .)1;/0' 5-*6,/ '=-* *-' ,1'.**' ,'*L=-*..*0',)*' 6? /6-'0*>1-6, 12.'1',)*' .^ . -62',*?=/*.' ?1;/0*0',)*' 1-?.'1') .' ?65 26, 12' *+*2'6, ,.' ?1.,'*L6/,*0' ?1?*2,.% ;,'6.' 8*')6+*' 6/-*60 '.**2' [*9*/86.' 6-'?1-*'/9*/ ',1')6+*' D**2' .;==/ *0' 8,)' ,) .' ?65*-A7' D ',)*' .6>*-01,6/ . ?=6^ ,)*.' 8)>)' ?=-*..*0') .' ?*?1-'8,)',)*' ?2;,*.' 0*,6/.'1',)*',*?=/*'6,'B*-;.6/*?'T 620',)*' .6?*.' ?^ D1/.' 8*-*' 2_,' *L>/;.+*/ ' .. -62' D;,' 8*-*' 21' /*..' 6?/6-',1',)*' 5 =, 62.'M 1-=)A(% '&'" ! + 'RT ,,*-' 6 + ' + 'R T ,,.;.' 16 % ' ' SX' ,)*' *-. 62.' M : 0,% ' T ,*.% ! L T / 2% + ' KKT & /9 2.12 .' & ! 6 %!' =6.. ?T)6-0 2 .' 620' *D;)-.' - (8',)*' 4-**9.' M 6;.62% 'K 'SX',)*' -6D 62.' M : *-D*/1,' ; " 4 ' ,' % +% C ?1-5X'620' ?62 '1,)*-' 26, 12.' M / 2 'L' R'SRT 6-9C);-.,.' C! '.'+%X% 2',) .' .;DA*>,'5*2*-6// ' .**' -*;[*-'$! R T)10*' # !'$ '=% K T 620' 10 5*-' 2' -.>)' 620' #-;D*-..' 6 % .% +%)*-;D% ()*' .? /6-, ',1',)*' .=) 2L' .' ..;>)' 6.',1')6+*' /*0' *+*2' 2' *6-/ ', ?*.',1' 6'+*-E7.,-125' D*/ * ',),)',)*' 0*6'1 ',)*' <1.6 >)*-;D ?' 86.' 2' .1?*' 86 ' 0*-+*0' -1?',)*?' M /*-6% /*L% $! >6=% + ' g N ' *O% /D% =% K T - 5% !'1 ! ' =% K T 6.*D% %!' 6 !' ' KX' D-'6'2;?D*-'1 '8* 5),'6-5;^ ?*2,.',1',) .' * *>,' .** 1>)6-,' # /! ' L+ ' LLL + '620' L/ T =*2>*-' ' %!'D9% // ')6=' +T 620' *.=*> 6// ' : *25.,*2D*-5' ' ' ; ;!' !' !'*6 % !' =% ' ._% *. 0*.' ,)*.*' *L,*-26/ >1 2>0*2>*.' ., // ?1-*',-9 25' =*-)6=.'6-*',)*' >) * - ; D > 6 . ^ >- D*0' 2'4-**9' ? ,)1/15A7,1',)*' *- CD-*6,) 25' D;//.' 8)>)' 5;6-0*0',)*' 51/0*2' /**>*' M + 0' ! + ' X' ,1',)*' 8 25*0' 0-6512' 1',)*' : *.=*- 0*.',1',)*'-*.;.^ >,6,*0')1*2 L',1',)*' 427=)12.' M/ 12C*65/*.X' 8)1' 9*=',)*' - ?6.=62.'-1?',)*' -'5;6-0*0' 51/0'MA .>)% ! 'Q NT <*/0' ' T >1?=% < /,12' ! ' ' R NX'620',1',)*',);20*- 25C)1-.*.',)6,'0-68',)*')6-^ 1,'1'B;=,*-'M:1-6>*' , ! 'N X' 2/;*2>*0'D ',11' *L>/;.+*' 62' 6.,*2, 12',1',)*.* . 25/*' -*.*?D/62>*.' : *-0*-' 0*2, *.',)*')*-;D ?' 8 ,)',)*' ? ,) >' 51/0C 5;6-0 25'?12.,*-.' 1 '62, _;, 'I , ! '# ! ! ' SNX' 620' B% % < >)6*/.' 8 ,)',)*' _;' (1262,*. I1' Y " " .' >1?=6-*' */,);.*2' N " ' " ! 1 >)/*;.2*-' ! 7 1' - ! .% !O % $(8! ? /6-GE! B;-, 2' <6-,-' >12. 0*-.',)6,' /6,1'/1--18*0' -1?',)* >-=,;-*.') .' - 1 ' %% ' 1-' 8 25*0' >)6-1,J' 1' U*;.' I % P6EE f ('=% > X% ->?',)*.*' >12>/;. 12.' 8*'0 ..*2,% ,'.**?.' 6-'?1-*/9*/ ',)6,',)*' : *D-*8.' 8*-*' 2',)*'?1.;'62> *2,', ?*.'6>_;6 2,*0'8 ,)'6. ?^ D1/ 6?/6-',1'.1'?62 '26, 12.',)62',1'.;==1.*' >,)*-',)6,',)* 'D1- 18*0',' -1?',)*' 5A=, 62.'1-',)6,'62 1,)*-' 26, 12.' 601=,*0',' -1?',)*?% 2' 6>, ' " '>12C % ' ' ' ' ' ' ' ' ' -65?*2,.'1'8) >)'8*-*' -**/ '601=,*0')E!,)*' : *D-*8' 8-.*-.'8)1'6/86.' 2 ;.*0' 2,1',)*?' 6' 21D/*-?*62^ 25' 620' 62' ;2812,*0',-;,)6' ' ' ,,1 % ' .% +%?

% 1-' ;-,)*-' 2 1-?6, 12' 12',)*' .;DA*>,'.**'M 2' 600, 12',1'81-9.'620'?1215-6=).'>,*0'6D1+*X' :; 26C 5*/' ; ' " " ' 'M -62* ;-;'6% < % QK' \ 62> ;/hXT 46D/*-' 2' >))1-2.' 2 " " ' ' K S'._%T <* *-' ; " !=% '._%T 6-=[1+'&%% S' =% KSQ._%T *-2*-' ? ! 'NS'._%T 4-;2* .*2' 2',)*' $!') " ' QN' 1% CST D !'$! >,% Q S'=% '._%T 6 ,>'$ ' ' K T *12*' ' ' " 'M ?.,% S T% 6/.1' :*/?.,% SS '620' 2' =62.)' ?.,*-0' S XT &*=/*-' ' ' " 'M<6-)% XT 4* ../*-' *' " 'M ,*?D% SS XT : *20>C 8*-9' ' ' " ' '$ %"!'M *5 1?% QN XT B6>% 0*' ' '& ' '+' N._%T * / 25', !'$! 8)-,' # /!!'% !' 'D9% ' >)% T 6D-;2'6 ' ' KT <>)6*/.' 2',)*' !' $!' ? !' ' ._%T */,); .*2' N >-8S,2*2M -6;2.>)8% S X' : ;,>) 2.12'6 % ' ' " 'M 2') .' ' 620% RXT -6*/'6 '=,% '=% S C T 1^ 8)6-,' # /!!'% !' 'D9% ' >)% T 6D-;2'6 ' K K'._%T 4% ?',)' ' !' ' '" ' " 'M 120% k XT

M'Leod, *Cherubim and the Apocalypse* (London, 1856); Anon. *Angels, Cherubim*, etc. (Lond. 1861). See SERAPHIM.

Ches'alon (Heb. *Kesalon'*, כְּסָלוֹן, place of *confidence;* Sept. Χασαλών v. r. Χασλών), a place named as one of the landmarks on the west part of the north boundary of Judah, beyond Mt. Seir, and apparently situated on the shoulder (A. V. "side") of Mt. Jearim (*Josh.* xv, 10). This last, the "Mount of Forests," has not necessarily any connection with Kirjath-Jearim, though the two were evidently, from their proximity in this statement of the boundary, not far apart. See JEARIM. Chesalon was the next landmark to Bethshemesh, and it is quite in accordance with this that Dr. Robinson has observed a modern village named *Kesla*, about six miles to the N.E. of Ainshems, on the western mountains of Judah (*Researches*, ii, 364, note; *Later Res.* p. 154). Eusebius and Jerome, in the *Onomasticon* (s. v. Χαλασών, *Chasion*), mention a place of a similar name, but they differ as to its situation, the former placing it in Benjamin, the latter in Judah; both agree that it was a very large village in the neighborhood of Jerusalem. The position of the border-line at this point determines that it lay within Judah. See TRIBE.

Che'sed (Heb. *Ke'sed*, כֶּסֶד, of uncertain signif.; Sept. Χαζάδ, Vulg. *Cased*, Josephus Χάζαδος, *Ant.* i, 6, 5), the fourth of the eight sons of Nahor by Milcah (Gen. xxii, 22). B.C. cir. 2088. The name is the same as would be the sing. form of the Heb. for *Chaldæans;* but it is doubtful whether there is any connection. See CHALDÆA.

Che'sil (Heb. *Kesil'*, כְּסִיל, a *fool*, i. e. profane, as in Psa. xlix, 11, and elsewhere; Sept. Χεσίλ v. r. Χασειρ and Βαιθήλ; Vulg. *Cesil*), a town in the extreme south of Palestine, named between Eltolad and Hormah (Josh. xv, 30). In the list of towns given out of Judah to Simeon, the name BETHUL (q. v.) occurs in place of it (xix, 4), as if the one were identical with, or a corruption of, the other. This is confirmed by the reading of 1 Chron. iv, 30, BETHUEL; by that of the Sept. as given above, and by the mention in 1 Sam. xxx, 27, of a BETHEL among the cities of the extreme south. It is merely mentioned by Eusebius and Jerome in the *Onomasticon* (s. v. Χοιλή, *Chisil*). See also URION.

Chesnut. See CHESTNUT.

Chest is the rendering in certain passages in the Auth. Vers. of two distinct Hebrew terms: 1. אָרוֹן or אָרֹן, *aron'* (from אָרַר, to *gather;* Sept. κιβωτός, Vulg. *gazophylacium*), invariably used for the Ark (q. v.) of the Covenant, and, with two exceptions, for that only. (It is instructive to be reminded that there is no connection whatever between this word and that for the "ark" of Noah, and for the "ark" in which Moses was hid among the flags [both תֵּבָה, *tebah*]). The two exceptions alluded to are (*a*) the "coffin" or mummy-case in which the bones of Joseph were carried from Egypt (Gen. i, 26; rendered in the Targum of Ps.-Jon. by γλώσσοκομον—compare John xii, 6—in Hebrew letters: the reading of the whole passage is very singular); and (*b*) the "chest" in which Jehoiada the priest collected the alms for the repairs of the Temple (2 Kings xii, 9, 10; 2 Chron. xxiv, 8-11). See COFFIN. 2. גְּנָזִים, *genazim'* (only in the plur.; from גָּנַז, to *hoard*, "chests," Ezek. xxvii, 24; "*treasures*," Esth. iii, 9; iv, 7).

Many boxes of various forms have been discovered among the Egyptian monuments. Some of these had lids resembling the curved summit of a royal canopy, and were ornamented with the usual cornice; others had a simple flat cover, and some few a pointed summit, resembling the shelving roof of a house. The sides were secured with wooden nails and glue, and dovetailed together. This last kind of lid was divided into two parts, one of which alone opened, turning on two small pins at the base, on the principle of the doors of their houses and temples; and, when necessary, the two knobs at the top could be tied together and sealed. These boxes were frequently of costly materials, veneered with rare woods, or made of ebony inlaid with ivory, painted with various devices, or stained to imitate materials of a valuable nature; and the mode of fastening the lid, and the curious substitute for a hinge given to some of them, show that the former was entirely removed, and that the box remained open while used. When not veneered, or inlaid with rare wood, the sides and lid were painted, and those intended for the tombs, to be deposited there in honor of the deceased, had usually funereal inscriptions or religious subjects painted upon them, among which were offerings presented by members of their family. (See Wilkinson, *Anc. Eg.* i, 163; ii, 116, abridgment.) See BOX.

Ancient Egyptian Chest.

Chester, an ancient city of England, on the river Dee, founded by the Romans. In the 13th century it had several monasteries, a college, and the hospitals of St. Anne and of St. John Baptist, the latter of which remains to this day. Under Henry VIII the Church of the monastery of St. Wesburgh became the Cathedral for the new see of Chester, which took in Cheshire (from the diocese of Litchfield) and Lancashire (from the diocese of York). The revenues of the dissolved monasteries were made a provision for the bishop, dean, and chapter. The present (1867) bishop is William Jacobson, DD., consecrated in 1865.

Chestnut-TREE (עַרְמוֹן, *armon'*; Chald. חַלְגּוֹב, Sept. πλάτανος [but in Ezek. ἰλάτη], Vulg. *platanus*), mentioned among the "speckled rods" which Jacob placed in the watering-troughs before the sheep (Gen xxx, 37); its grandeur is indicated in Ezek. xxxi, 8 (as well as in Ecclus. xxiv, 19), as one of the trees to which the Assyrian empire in its strength and beauty is likened, it being there noted for its magnificence, shooting its high boughs aloft. This description agrees well with the *plane-tree* (*Platanus Orientalis*), which is adopted by the above ancient translators, to which modern critical opinion inclines, and which actually grows in Palestine (see Ritter, *Erdk.* xi, 511 sq.). The *beech*, the *maple*, and the *chestnut* have been adopted, in different modern versions, as representing the Hebrew *armon*, but scarcely any one now doubts that it means the *plane-tree*. It may be remarked that this tree is in Genesis associated with others—the willow and the poplar—whose habits agree with it; they are all trees of the low grounds, and love to grow where the soil is rich and humid. This is strikingly illustrated by the fact that Russel (*N. H. of Aleppo*, i, 47) expressly names the plane, the willow, and the poplar (along with the ash) as trees which grow in the same situations near Aleppo. But this congruity would be lost if the chestnut were understood, as that tree prefers dry and hilly situations. There is a latent beauty also in the passage in Ezekiel, where, in describing the greatness and glory of Assyria, the prophet says, "The *armon*-trees were

not like his boughs, nor any tree in the garden of God like unto him for beauty." This not only expresses the grandeur of the tree, but is singularly appropriate, from the fact that the plane-trees (*chenors*, as they are called) in the plains of Assyria are of extraordinary size and beauty, in both respects exceeding even those of Palestine (comp. Plin. xii, 3; xvii, 18; Virg. *Georg.* iv, 146; Cicero, *Orat.* i, 7; Statius, *Sylv.* ii, 3, 29 sq.; Martial, ix, 61, 5). Moreover, the etymology of the word connects it with עָרֹם, *aram'*, "*to be naked*," and with Arab. '*aram*, "*to strip off bark*," the shedding of its bark yearly being characteristic of the plane-tree (see Hiller in *Hierophyt.* i, 402). The account here given is chiefly from Kitto's *Cyclop.* s. v. Armon.

Oriental Plane-tree (*Platanus Orientalis*).

The Oriental plane-tree ranks in the Linnæan class and order *Monœcia Polyandria*, and in the natural order among the *Platanaceæ*. Westernmost Asia is its native country, although, according to Prof. Royle, it extends as far eastward as Cashmere. The stem is tall, erect, and covered with a smooth bark which annually falls off. The flowers are small and scarcely distinguishable: they come out a little before the leaves. The wood of the plane-tree is fine-grained, hard, and rather brittle than tough; when old, it is said to acquire dark veins, and to take the appearance of walnut-wood. In those situations which are favorable to its growth, huge branches spread out in all directions from the massive trunk, invested with broad, deeply-divided, and glossy green leaves. This body of rich foliage, joined to the smoothness of the stem and the symmetry of the general growth, renders the plane-tree one of the noblest objects in the vegetable kingdom. It has now, and had also of old (Plin. *Nat. Hist.* xii, 1), the reputation of being the tree which most effectually excludes the sun's beams in summer and most readily admits them in winter, thus affording the best shelter from the extremes of both seasons. For this reason it was planted near public buildings and palaces, a practice which the Greeks and Romans adopted; and the former delighted to adorn with it their academic walks and places of public exercise. In the East the plane seems to have been considered sacred, as the oak was formerly in Britain. This distinction is in most countries awarded to the most magnificent species of tree which it produces (see Kitto, *Nat. Hist. of Palest.* p. ccxlix). In Palestine, for instance, where the plane does not appear to have been very common, the terebinth seems to have possessed pre-eminence. See OAK. In the celebrated story of Xerxes arresting the march of his grand army before a noble plane-tree in Lydia, that he might render honor to it, and adorn its boughs with golden chains, bracelets, and other rich ornaments, the action was misunderstood and egregiously misrepresented by Ælian (*Var. Hist.* ii, 14). The Oriental plane endures more northern climates well, and grows to a fine tree, but not to the enormous size which it sometimes attains in the East. Pausanias (l. viii, c. 23) notices a noble plane in Arcadia, the planting of which was ascribed, by tradition, to Menelaus. Pliny (*Nat. Hist.* xii, 1) mentions one in Lycia, in the trunk of which had gradually been formed an immense cavern, eighty feet in circumference. L. Mutianus, thrice consul and governor of the province, with eighteen other persons, often dined and supped commodiously within it. Caligula also had a tree of this sort at his villa, near Velitræ, the hollow of which accommodated fifteen persons at dinner, with a proper suite of attendants. The emperor called it "*his nest*;" and it is highly probable that his friend, Herod Agrippa, may occasionally have been one of the fifteen birds who nestled there along with him. A fine specimen of the plane-tree was growing a few years ago (1844) at Vostitza, on the Gulf of Lepanto: it measured forty-six feet in circumference, according to the Rev. S. Clark, of Battersea, who has given an interesting account of it in John's *Forest Trees of Britain* (ii, 206). The plane-trees of Palestine in ancient days were probably more numerous than they are now, though modern travellers occasionally refer to them. Belon (*Obs. Sing.* ii, 105), La Roque (*Voy. de Syrie*, p. 197–199), and others, mention the groves of noble planes which adorn the plain of Antioch; and the last-named traveller records a night's rest which he enjoyed under planes of great beauty in a valley of Lebanon (p. 76). Buckingham names them among the trees which line the Jabbok (*Travels in Palestine*, ii, 108). Evelyn (in his *Sylva*) seems to ascribe the introduction of the plane-tree into England to the great Lord Bacon, who planted some which were still flourishing at Verulam in 1706. This was, perhaps, the first plantation of any note; but it appears from Turner's *Herbal* (published in 1551)

Branch of the Plane-tree.

that the tree was known and cultivated in that country before the chancellor was born. The *Platanus Orientalis*, or plane of Palestine and of classical antiquity, must not be confounded with the plane-tree commonly so called in Scotland and England. This last is a maple, *Acer pseudo-platanus*, and, like the rest of its saccharine family, it contains a sweet sap in the liburnum or under bark, for the sake of which it is often tapped by school-boys in spring. Even by those least familiar with plants, the false plane or sycamore may

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8,)2',)*'86//.'1',)*-'=6/6>*.'620'2'?,6,12'1'
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D6//%

shown in the following cut, in which fig. 1 represents a Nestorian woman bearing her child bundled at her back, and fig. 2, an Egyptian female bearing her child

Oriental Mothers carrying their Children.

on her shoulder. The former mode appears to be alluded to in several places, and the latter in Isa. xlix, 22. (See Hackett's *Illustrations of Script.* p. 57.)

In Scripture the word "child," or "children," has considerable latitude: disciples are often called children or sons. Solomon, in his Proverbs, says to his disciple, "Hear, my son;" so also our Saviour (John xxi, 5). The descendants of a man, how remote soever, are denominated his sons or children, as "the children of Edom," "the children of Moab," "the children of Israel." Such expressions as "the children of light," "the children of darkness," "the children of the kingdom," signify those who follow truth, those who remain in error, and those who belong to the Church. Persons arrived almost at the age of maturity are sometimes called children. Thus Joseph is termed "the child," though he was at least sixteen years old (Gen. xxxvii, 30), and Benjamin, even when above thirty, was so denominated (Gen. xliv, 20). Solomon called himself a little child when he came to the kingdom of his father (1 Kings iii, 7). See ADOPTION; BIRTH; SON; INHERITANCE; EDUCATION, etc.; and comp. OFFSPRING.

CHILD OF GOD. The terms "child," "children," "babe," etc., are used in the N. T. in the following senses:

I. *Psychologically* these terms are used to denote a state of ignorance and of intellectual narrowness or darkness (Matt. xi, 16; Luke vii, 32; 1 Cor. xiii, 11: "When I was a child, I spake as a child, I understood as a child, I thought as a child;" xiv, 20: "Brethren, be not children in understanding;" Eph. iv, 14: "That we *henceforth* be no more children, tossed to and fro," etc.; Heb. v, 13: "For every one that useth milk, is unskilful in the word of righteousness: for he is a babe").

II. In the *ethical* sense, they are used, in the abstract, to designate a state of innocence, and, in the concrete, to signify the totality of children, towards whom holy duties are to be fulfilled by the community, and particularly by parents. We see even that the appellation "children" is used by the Lord as an expression of his greatest love (Mark x, 24). Children are then distinguished by moral preference; yet from this it does not follow that they are holy, but merely that they are yet uncontaminated by actual contact with the world. They are, therefore, partly to be imitated, partly to be restrained, and in all cases to be the objects of the greatest moral solicitude. As duties of parents towards children, the N. T. names the providing for their wants, giving them good examples, and bringing them up in the fear and knowledge of the Lord. Children, on the other hand, are to be obedient to their parents. That the N. T. does not give a more systematic view of the relative moral duties of parents and children is to be accounted for on the ground that where faith and love are found, all the rest follows naturally (Matt. vii, 9–11; Luke xi, 11: "What man is there of you, whom if his son ask bread, will he give him a stone? Or if he ask a fish, will he give him a serpent? If ye, then, being evil, know how to give good gifts unto your children, how much more shall your Father which is in heaven give good things to them that ask him?" xviii, 1–5; Mark ix, 34; Luke ix, 47, 48: "At the same time came the disciples unto Jesus, saying, Who is the greatest in the kingdom of heaven? And Jesus called a little child unto him, and set him in the midst of them, and said, Verily I say unto you, Except ye be converted, and become as little children, ye shall not enter into the kingdom of heaven. Whosoever, therefore, shall humble himself as this little child, the same is greatest in the kingdom of heaven; and whoso shall receive one such little child in my name, receiveth me"). See also Mark x, 13–16; Matt. xix, 13–15; Luke xviii, 15–17; 2 Cor. xii, 14; Eph. vi, 1–4; Col. iii, 20, 21.

III. In the *spiritual* sense, the expression "children" designates those who have become children of God through Christ. To be a child of God through Christ is to have attained the highest (moral) perfection, and the greatest degree of holiness of which human nature is susceptible. This consciousness of its holy purity is one of the characteristics of Christianity (Matt. xi, 19; Luke vii, 33–35: "The Son of man came eating and drinking, and they say, Behold, a man gluttonous, and a wine-bibber, a friend of publicans and sinners. But Wisdom is justified of her children;" i. e. those whom Christ recognises as his prove by words and deeds that they are the children of wisdom. See also Matt. v, 9; xv, 26; John i, 12; Rom. viii, 14–17: "For as many as are led by the Spirit of God, they are the sons of God. For ye have not received the spirit of bondage again to fear; but ye have received the Spirit of adoption, whereby we cry, Abba, Father. The Spirit itself beareth witness with our spirit that we are the children of God. And if children, then heirs; heirs of God, and joint heirs with Christ, if so be that we suffer with him, that we may be also glorified together;" Rom. ix, 8; Gal. iii, 26; iv, 5, 6; Eph. i, 5; Phil. ii, 15; 1 John iii, 1, 2, 9, 10; v, 1, 2; Eph. iii, 15; Luke xx, 36; Rom. viii, 23, etc.). —Krehl, *Handwörterb. d. N. T.* s. v. See ADOPTION.

Childbirth (τεκνογονία, "child-bearing"). The throes of accouchement appear in Gen. iii, 16, to be part of the doom incurred by woman for her agency in the fall in Eden. Her passive lot in thus continuing the race is aptly expressed in that primeval sentence: "Unto the woman he said, I will greatly multiply thy sorrow and thy conception; in sorrow thou shalt bring forth children; and thy desire shall be to thy husband, and he shall rule over thee." See COHABITATION. The language of the apostle in 1 Tim. ii, 15, implies that a patient endurance of this penalty shall contribute to woman's spiritual benefit. The Prayer-book of the Church of England prescribes a form of public thanksgiving to be offered for women after safe delivery in childbed. See BIRTH; CHURCHING.

Childermas. See INNOCENTS' DAY.

Children, CHURCH MEMBERSHIP OF. See INFANT CHURCH MEMBERSHIP.

Children, COMMUNION OF. See INFANT COMMUNION.

Childs, JOHN WESLEY, a minister of the Methodist Episcopal Church South, was born in Calvert Co., Md., in 1800. In 1814 he went to Richmond, Va., where he was employed as a clerk. In 1826 he received license as a local preacher; in 1827 he entered the Baltimore Conference on probation; and in 1829 he was admitted into full connection. In 1844, when the Methodist Episcopal Church was divided on the slavery question, he adhered to the Southern Church, and continued to serve in important appointments up to the year of his death. He died May 9, 1850, at Norfolk, Va., in great peace. "His highest distinction lay in his extraordinary spirituality, his deadness to the world, his devotion to Christ; and in this respect it may reasonably be doubted whether he has had his superior in modern times."—Sprague, *Annals*, vii, 729.

) / * 6 D ' M : *D) 2 I&(% 'D ' ,) *' =J' 1,6' ? 2*. ' D '6' >12,-6>,' . 52*0' ,1' ,) 6,' * *>,' 6,' ,) *' " 1' *' ? .' *=,) O $' +' -' 6I 1 6X' ,) *' . *>^ >1 ? =62 .' 1 >*' 2' 6' = ; D/ >' ? **, 25 '620' 8 ,) 1 ; , ' 6' 0 ..*2, 25' +1 >*' ()*' ? .^ 120' .12' 1 '9 25' 6+ 0' D ' D 56 / ' 6D6/ .' 8 018' MK' / >' ? **, 25 '620' 8 ,) 1 ; , ' 6' 0 ..*2, 25' +1 >*' ()*' ? .^ 6?' 'NX' >6//*0' 2' ,) *' =6-6//*/ =6..65*' M ') -12' ' . 126-.*.' 6/.1' ,119' >6-*' 1 ' ,) *' .= - . ; 6/ 2,*-*.,.' 1 ' ,) *' (· D ' ,) *' *_ ; +6/*2, '26 ?*' & '45 '3 · ()*' -*6^ .6 /1-.' + . , 25' -6 ; >1' 6 '620' =-1+ 0*0' ,) *' 4*-? 62' .12' 1 ' ,) . ' , 81 1/0' 26 ?*' .' ; 2 >*-, 6 21' D ; , ' 1-' ,) *' -6D^ .*,,/*-.' 2' ,) *' 2* 5) D1-) 110' 8 ,) ' 1==1-. ; 2 , *.' 1 ' D 2 >6/) 1, 12.' >12>*-2 25' , '620' .1 ? *' .=*>; /6, 12.' 1 ') - ., 62' &1-.) =' : + 6+ 25' 2' ,) *' ? *628) /*' 6>^) .' 182' .**' 1>)6-, ' # + / ' 'S N _ ; -*0' 620' =*- *>,*0' ,) * ? . * / + *.' 2' ,) *' =62 .) ' /62^ 5 ; 65*' ,) * ' 2' QS ' 620' QSS' ? 60*' .*+*-6/' , 2*-62, ' + . ,.' 2,1' ,) *' ' 1 ' ,) *' 20 62 . ' 620' ,119' ,) *' =-*/ ? 26- ' .,*=.' 1-' *. ,6D/ .) 25',) *' 20 62' ? .. 12.' ; =12' 6' -?' D6. .' 2' Q S ',) *' .1> *, ') 60' ..6, 12.' 6, ' 1,6' 620' 1_ ; ? D1 '%6, ' / 6-? *6' 2' 1-,) *-2' 6,6^ 512 6 ' *==*/' ./620' M 6/9/620X ' D*. 0*.' 12*' 1-' ,81' ..6, 12.' 6 ? 125',) *' -6 ; >62 62' 20 62.' 2' *>' QSS' ,) *' .1> *, .' .) = ',) *' //*2' 46-0 2*- J' / *, ' 25/620' 8 ,) ' 1 ; -' 26, +*.' 1 ',) *' (*--6' 0*/ ; *51 ' 8) 1') 60' -*^ >* +*0' 6') - ., 62' *0 ; >6, 12' 2' 25/620' ()*' -. , ' 4*-? 62' ? . . 126- ' 86.' .*2 ' ,1' 1 ; ,) *-2') / ' 2' Q44' D ' ,) *' 4 ; ., 6+ ; .' 01/=) ; .' 1> *, ' 1 ' 4*-? 62 ' : *' D*562' =-*6>) 25') 6/ ' 1 ' ,) *' , ?*' 6, ' -.121 ' 620' ,) *' 1,) *-') 6/ '6, ' ; *-, 1' < 12, *' 6' M ? 1 ../ ' 4*-? 62X' , 182' 1 ' 2) 6D , 62, . ' 2' 6' -*5 12' 8) >) ' 6.' /6, *' 6.' Q ' 7*6: =*1=/*0' 12/ ' D ' . ? 6//' D10 *.' 1 ' .6+65*.' ()*' ' 4*-? 62' -1, *. , 62, . ' 1 ' ,) .' , 182') 6+*' D1 ; 5) , '6') 1 ; . *' 2' ,) *' =- 2> =6/' ._ ; 6-*' 620' =-1=1. *' , 1' D ; /0' 6' >) 6=*/%) / 6->) ' ML, dV6=71>' % ' ' ' " :' ') 5) ' >6=, 6 2 J' < 6-9' + ' K T' >6=, 6 2 J' B1) 2' L+ ' KT' *+' L L ' QT' */. *8) *-*' >) * ' >6=, 6 2JX ' 6' ? / , 6- ' , ,/*' 1>>; -- 25' -*_ ; *2, / ' 2' ,) *' M4-**9X' *8' (*. , ' 2' ,) *' 1//18 25' .*2.*' *>' #!' ' 6' 5*2*-6/' . , 6, *' 1 ' M < 6-9' + ' K T' >, .' LL+ ' KNT' *+' + ' T' L L ' QT' c1?=' B1.*=) ; . ' & !' + ' K' KX% K' =*> >6/) ' 6' '1 ' ,) *' .1/0 *-.' 6?125',) *' 1^ ?62. ' . L' 1 ' 8) 1?' 1-?*0' ,) *' */0' 1 >*-. ' 1 ' *+*- ' /*5 12J' M_' ' >1--*.=120 25' 2' -629' 2*6-/ ' , 1' 1 ; -' M.**' ? ,) ' ' ' ' !' & 4!' , +' L*-> C' , ; . X' 2' ,) *' (.=19*2' 20 + 0 ; 6// ' 1 ' /6 ; 0 ; .' ^ . 6.' 8) 1 ' 6.' ? / , 6- ' , - D ; 2*' 2' ,) *' >6=6> , ' 1 ' 6' ?10^ *-2' * ' >1? ?620*0' ,) *' 56-- .12' 1 ' 1-, 2,12 6' 6, B*-, .6/*?' M >, .' LL ' N ' . ' >1?=' : *-10 62' ' K' QT' 12' : 6/' & !' + ' X' _ N' 6-, > ; /6-/ ' 6==/ *0' , 1 ,) *' % % ' 1-' M *+ , >6/X' . ; =*- 2,*20*2, ' 1 ' 1-0*-' Y ; ' ,) *' (*?=/*' MB1) 2' L+ ' KX' / !) / 6. ? ' **' $!) / 6. , ' **' 'T !) /1 ; ' M : *D) "* (' % :' *=, d>C -' dcd6M8+X' ,) *' 1 ; 25*-' .12' 1 ' / ?*/*>) 620' 61? ' 1 ' *,) /*) *? ' 620') ; .D620' 1 ' =6) ' ; ,) . ' . , *-'T) *' 0 *0' >) /0*.' 2' ,) *' >1 ; 2, - ' 1 ' <16D' M ; ,) 'KT' + ' RX' % ' NS) // 2581-,) ' " ' 62' *? 2*2, ' 25/ .) ' 0 + 2*' 620' >12, -1+*-, . , ' 86.' D1-2' 6, ' L 1-0 ' >, 1^ D*-' S K' M ( ) *' 1//18 25' 6>>1 ; 2, ' 1 ') ?' .' ?10^ *0' -1?' 62' 6-, >/*' 2' ,) *' 6 "' % ' 8) >) ' .' D6.*0' 12' ,) *' ; " %" ' ; + !(8' 2 (S Q') *' 86.' 6' .>) 1/6-' 620' 2' SKQ' 6' */18!' 1 ' (- 2 , ' 1//*5*' 2' ,) 6, ' $2 +*-. , ' *?*' >; - 1 ; ' ?*?1 -.' 1 ') ?' 6-*' =-*.*-+*0' D ' 2,) ' & 110' M ' ,) *2' L12' J' K X' 8) 1' .6 .' ') *' 81 ; /0' 1 , *2' 8 6/9' 2' ,) W >1//*5*' 5-1+*' 620' 0 .=; , *' 8 ,) ' 62 ' .>) 1/6-') *' ?*, '=; -=1.*/ ' , 1' 6> / * , 6, *' 620' ?69*',) *' 86 '1 ' '>1?? 12' 8 ,) ') ?' 8) >) ' 86.' 6' 6.) 12' ; .*0' 2' ,) 1.*' 06 .' *.=*> 6// ' 6? 125',) *' 0 .=; , 25' ,) *1/15 . , H' 1-' ,) 1.*' 8) 1' . *,) *? .*/+>. 6=6-, '=; -=1.*/ ' 1-' 0 + 2 , 'J' ()*' >1?^ =6-6, +*' ?*- . ' 1 ' ,) *' 25/ .) ' 620' 1? .) ' >) ; ->) *. ' 8*-*' 6, ' ,) 6, ' , ?*' 6' . ; DA*>, ' 1 ' [*6/1 ; ' 620' 2>*. . 62, ' 0 .=; . , 6, 12' 6? 125',) *' $2 +*-. , ' . ; 0*2*=' 620' . *+^ *-6/ /*6-2*0' B*. ; , ' . ; >>**0*0' 2' ? 69 25' 0 . , 25 ; .) ^ *0' =-1.*/ , *. ' 6? 125',) *' -1.*. 62, ' >/*-5 620' 21D /* , ') // 2581-,) ' D* 25' 62' 6D/*' 0 .=; , 62, ' !86.' . 2^ 5/*0' 1 ; , ' D ' ,) *' 6? 1 ; , ' B*. ; , ' .) *-' 6/ 6.' B1) 622*. ' *-. *; . ' I1 ; " "!' $!' D 8' D ' 8) 1? ') *' 86.' >12^ + 2>*0' 1 ' ,) *' 2*>*. . , ' 1-' 62' 2 6// D/*' / + 25' ; /*' 1 ' 6 ,) J' 2' ,) .') *' 6, ' 12*' 601=, *0' ,) *' 1? 62' 6,) 1/ >' . . , *? ' +-. , >' 1 ; , ') .' -*6.12.' 1-' 6/A ; - 25

-1,*.,62, . ? ' 620'A1 2*0',) *' B*. ; ,.' 2',) * -' >1//*'T*' 6,' 1;6 ' ,*-',) *' /6=.*' 1 '6' *8' ?12,) . ' ,) *' 6-5 ;^ ? *2,.' 600-*..*0',1') ?' D ') .' 510 6,) *-' 6;0',) *2' D .) 1=' 1 ' 12012 ' 20;>*0') ?' ,1' 6D62012') .' 2*8' 6 ,) ' 620') *' -*,; -2*0' ,1' L 1-0' 2' SN ' 8) *-*') *' =6..*0'6D1 ;,' 1;-' *6-.' 2' -*>12. 0*- 25',) *' -1,*.,62,' ,*2*,.' () *' -*60 25' 1 ' 6 //*' 12',) *' 5 " ' 2 ' ' " ' @ " ' .' .6 0',1')6+*' 26// ' 0*,*-? 2*0') ?' 2' SN ') *' =;D/ .) *0') .' 5-*6,' 81-9' -" ' 5 ' ' ' ' ' ' $! ' ' =6..*0' ,) -1;5) ',81' *0 , 12.' 2' /*..' ,) 62' +*' ?12,) .' () *' =- 2> =/*' 1 ') // 2581-,) ' .',) 6,',) *' +1/; ? *' 1 ' + 2*' >- =,;-*.' 6.>*-,6 2*0' ,1' D*' ._>) ' D ' ,) *' 1-0 26- ' -;/*.' 1 ') .,1- >6/' 620' >- , >6/' 2+*.,, 56, 12 ' .' ,1' D*' >12. 0*-*0',) *' .1/*' 6;,) 1- , ' 1 ')- ., 62. ' ,1',) *' ; ,^ ,*-' *L>/;, 12' 1 ' *>>/*. 6., >6/' ,-60 , 12' () *' B*. ; ' ' 21,,' 6/ 6.' <6,,) 6.' & /.12' >; " "!' ' $ D 1'=' Q X' >12,*20*0',) 6,') *' !0*.,-1 *0',) *' 26, ; -*' 1 ' 6 ,) ' D ' -*.1/+ 25' ,' 2,1' -*6.12%J') * 2*// M_%' \x' 6/.1' 1==1.*'0') // 2581-,) ' -1?',) *' ; -,62' . 0*%') // 2581-,) ' 2' ,) *' ?*62' , ?*' ; 26D/*' ,1' 6==-1 *' *+*- ' .,6,*?*2,' 2' ,) *' ( ) -, C2 2*' -, >/*.' -* ; .*0' ,1' 6>>*=,' 62 ' =-* *-?*2,' 2' ,) *') ;->) % ' : 18*+^ *-' 2' 6' +*- ' .) 1-,' , ?*') *' 86.' =*-. ; 60*0' D ',) *' 6-^ 5; ?*2,.' 1 ') */012' 620' 6;0',) 6,' =*6>*' 620' ; 2 12' 6-*',) *' -*6/' 1DA*>,' 1 ' . ; D.>- =, 12 ' 21,' D*/ * '1-' 6..*2,' ' 6' 01>,- 2*') */0' D ' ->) D .) 1=' 62>-1 ,' 620' ?62 ' 1,) *-' *? 2*2,' 0 + 2*.% >>1-0 25/ ') *' 6>>*=,*0',) *' >)62>*//6-. 6 =' 1 ' 6/ .D; ' 8 ,)',) *' =-*D*20' 1 ' - LC' 81-,) ' 1-,)6?=,12.) -*' 622*L*O%) // 2581-,) ' 2' S '86.' 0*=:,*0' D ',) *' >)6=,*-' 1 ' 6/ .D;- ' 6.' ,) * -' =-1>,1-',1',) *' 12+1>6, 12' 2' 12012% : *' 86.' 6,,6>) *0' +*- ' [*6/1;./ ',1',) *' 1 6/ =6-, ' 620' 8-1,*' 6',-*6, .*' M;2=;D/ .) *0X' 12' -" ' 2 ' ! 2' ' " ' ' 1' " "' ' % 1' 9 1' ' !(((* 25' =-*. *2,' 2',) *' 6-? ' 1 ')6-/*.' ' 6,',) *' . *5*' 1 ' 4/1;>*.,*-' ;5;.,' S N ') *' 6>,*0' 6.' *25 2**-' 620' 0*+ .*0',) *' >12.,-;>, 12' 1 ' *2^ 5 2*.' 2' ?,6, 12' 1',) *' 1?6 f ' ,*.,;0 2*.' >;?' =/;C' ,* . J',1' 6..6;/,',) *' -*D*/.' 620',69*',) *' >, ' D ' .,1-?% : 6+ 25' 6>>1?=62 *0',) *' 9 25 .' 1->*.' ;20*-' 1-0' : 1=,12',1' -;20*/ 6.,/*') *' 86.',) *-*' 8 ',)') .' >1?C' -7*. ' ,69*2' =- .12*-' D ',) *' 6-/ 6?*2,' 6-? ' ;20*-' -' & // 6?' & 6//*-' 620' 6// 25' // ') *' 86.' ,) *2>*' >12^ +* *0',1',) *' D .) 1= .' =6/6>*' 6,') >) *.,*-' 8) *-*') *' 0 *0' 620' 86.' D;- *0' 2' B62;6- ' NS % M() *' =-*> .*' 06 ' .' 21,' 6.>*-,6 2*0' D;,' ,' 86.' =-1D6D/ ' B62;6- ' N %X -%) *A?*//',) *2' -*>,1-' 1 ' *,81-,) ' 8) 1') 60' .) 182') // 2581-,) ' 5-*6,' 9 202*..' 0;- 25') .' //2*..' 6==*6-*0' 6,',) *' 5-6+*' 8,' ,) *' 81-9' 1 ') // 2581-,) ' I5 N ' ' (8' 2') .') 620' 620' 6 ,*-' 62' 60^ ? 12 ,1- ' 1-6, 12' 12',) *' 0625*-1;.' ,*20*2> ' 1 ' ,'..' -6^ , 126/ . ? ') *' /;25' ,' 2,1',) *' 5-6+*' *L>/6 ? 25' ' 4*,' ,) **' 512*' ,) 1;' >;-.*0' D119' 8) >)') 6.' .*0;>*0' .1' ? 62 ' =-*> 1;.' .1;/.T 5*,',) **' 512*' ,) 1;' >1--;=,' -1,^ ,*2' D119' *6-,)',1' *6-,) ' 0;..',1' 0;., ' 51'-1,' 8 ,)',) ' 6;,) 1-hJ' **' # $ ()*' -*. ;/,' 1 ') .' -* ? 6-96D/*' =-1 > *2>A' 2' ' 8-62^ 5/ 25J' .' ..6,*0' D ') .' - *20' 1-0' /6-*2012' ># 9 ' ' " ' 5 8',1') 6+*' D**2',) 6,') // 2581-,) ') 60' >12,-6>,*0' .;>)' 2' --*.1/;, 12' 620') 6D ,' 1 '01;D,^ 25',) 6,' 6,'/6..',) *' 86.' >12 0*2,' 1 ' 21,) 25%J' (/C' /1,.12' ., /*0') ?' ',) *' ?>1?=6-6D/>') // 2581-,) ' 620' 1>9*' .6 .' M12' 0;>6, 12J%' ' 1;' 81;/0') 6+*' 1;-' .12',1' -*6.12' 8*//'/*,') ?' -*60') // 25^ 81-,) ' 620' 656 2' M12' ,;0 J%' 1-' 6,,6 2 25' - 5),' -*6.12 25' ' =-1=1.*' ,) *' >12..62,' -*60 25' 1 ') // 2581-,) ' 1-',) .' =;-=1.*') *' 0*.*-+*.',1') *' -*60' 1+*-' 620' 1+*-' 656 2TJ' D;,' 2,) % & 110 .' 1= 2 12' .' 21,' 1;,012*' D ' 62 Q-') *' 0*>/6-*.',) 6,') // 25^ 81-,) ') 60' .;>) ' *L,-61-0 26- ' >/*6-' -*6.12',) 6,' ',) *' 5-*6,' (;-9' 1-',) *' 0*+ >1;/0' D*' >12+*-,*0 ' " ' 86.' 6D/*' ,1' 01' ,%J' 2',) *1/15 ') *' .' >/6..*0' 8 ,)',) *' 6, C' , 0 26- 62.J' M_%+%X% ()*' D*.,' *0 , 12' 1 ' -" ' 5 ' ' ' ' .',) 6,' 2' 1D' K' 8 ,)' .*-?12.' *,>%' ' 620' 6' / *' 1 ',) *' 6;,) 1-' D ' -*>) % ,') 6.' D**2' 1 ^ ,*2' -*=- 2,*0% ' *.' <6 [*6;L' ' ' " "% 6/ -*. 0*0% ;>)' 6==*6-.' ,D' D*' -* *--*0' ,1' D ',) *

M K Q+1X' == .' ; %" ' ; 1' ' Q' . %' : 119' 6 !' ; %" 1' +' % ()*' D*.,' ?10*?' *0 ^ , 12' 1 ') .' 81-9.' .',) 6,' 1 ' L 1-0' QNQ' MN' +1/.% Q+1X% ()*-*' .'6/.1' 6' >)*6=' ?*- >62' *0 , 12' MQ+1X' 8 ,)' ' D ' ->)' M) /60*/=) 6' Q QX%

? 60' M /*D%') (' *, ?1/15 ' ;2^ 92182' *=,% O %% ' +% -% O O% ' 620' O O% $':' ;/5% " 81' 62' . 6, >' =/6>*' 1-' >1;2,- ' ?*2, 12C I' *0' 2' >12A;2>, 12' 8 ,)') *D6' 620' ..) ;-' 6.' 6',-60 25' *?=1- ;?' 8 ,)',) *' (- 62.' M [*9% LL+ ' KNX% ()*' 12/ ' 26?*' D*6- 25' 62 ' . ? /6-, ' ,1',' ,' " (' Md6=V 0+B AX' 6' /6-5*' 620' /1;- .) 25J',182' F*6-',) *' ;=)-6,*.' D*,8**2',) *' <6.>6.' 620',) *' 6D /12 62' -12, *-' Md*2% & 8f ' ' 1' >1?=% ,I=) % [% =% X' 62' 0*2, >6, 12' 5*2*-6// ' 601=,*0' . 2>*' 1*D6-,' M 62662' ' Q'=% Q X' : ,[5'> f'=F'6/ "!' % >%X' =-1=1.*.',1'6/,*-',) *' =;2>,;6, 12',1') b E 5 + 25',) *' .*2.*' ..) ;-' 86.' ' ,) ' % % ' 2' >1?^ ?*->* 76.' -.',.;55*..,*0' D ' ?>) ' M 2' /1>%X% ()*')6/0**' (6-5;?') 6.' f' 1-' 1,) *-' >12A*>,^ ;-*.' .**' 1.*2? //*-' 2' /1>% **' ' '=% RQ%

) ?*% **' 8 'T # !

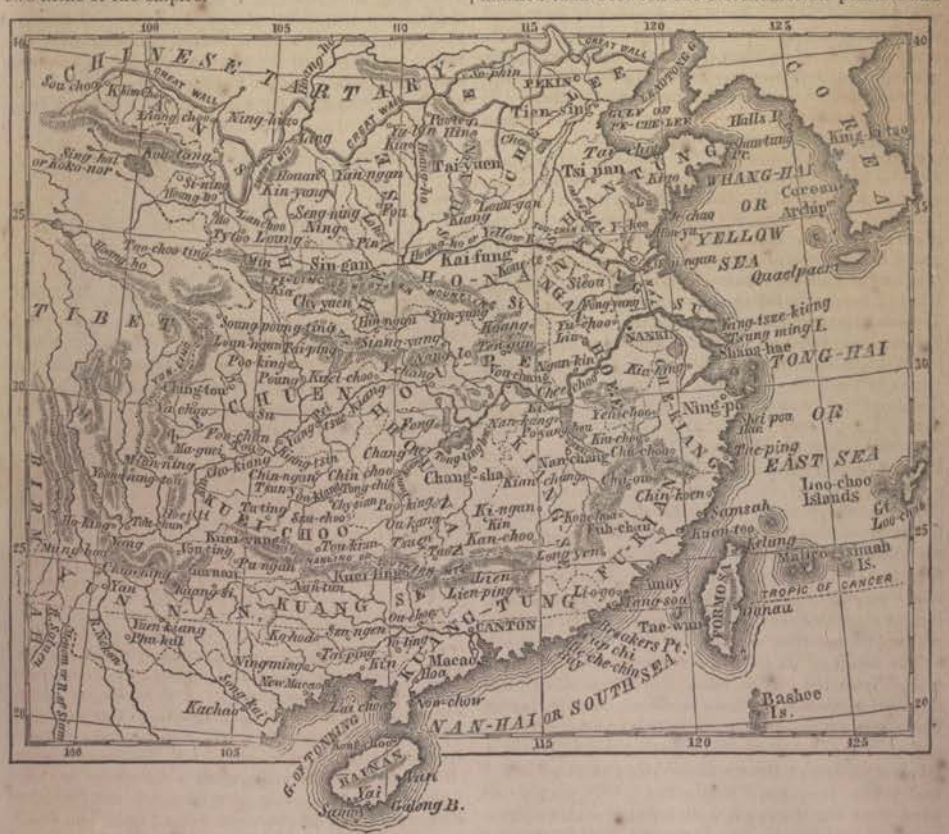
) ?*-*' M -% " "(1' -1?',) *' ,6/ 62' / 8f ()*' ;==*-' -1D*' 81-2' D ' 6' D .) 1=' ,1' 8) >)' ,) *' /68 2' ./**+*.' 6-*' 5*2*-6// ' 6,,6>) *0% * 1-*' / [6D*,) .' , ?*' ,) *' D .) 1=.' 81-*' 6' .>6-/*,' >) ?*-*' 1+*-' ,) *' -1>) *,' 6.' ,) *A' ., // 01' 8) *2' 6..*?D/*0' 2' >12+1>6^ , 12' T D;,' D .) 1=' : 11=*-') 6+ 25' .>-;=/*0' 6,',) *' .>6-^ /*,' ,' 86.' >) 625*0' 1-' D/6>9' .6, 2% ' ' 6/?*-' , f ' N R%

) ?7) 6?' > "!') " (' ((1($!% :' *=,% O % ' +% -% O 8' 6' 1A/18*-' 620' =-1D6D/ ' 6' .12' MB1.*=) %(& % '& ! +' T' 620' =1?=% ' 5 ' X1' 67-[//6',) *' 4 /*60 ,*' 8) 1'-*,;-2*0' 2') A.' .,*60' -1?' D* 120' B1-062' 8 ,)' 6+ 0' 12') .'-*.,1-6, 12' 6 ,*-' D.6/1? .' -*D*// 12' MK' 6?% L L ' N NQ' ' 8) >)' /6.,' +*-.*' 5 +*.',) *' 26?*' 6.' ` / # ') " (8!' % % KN% 6+ / 6==*6-.',1') 6+*' D*.,18*0' 12') ?' 6.' 6' -*86-0' 1-') .' /1 6/, ' 6' =1..*.. 12' 6,I *,) /=) *?' 12' 8) >)' 2' /6,*-', ?*.' 62' 22' 1-' "" ' M2 G X' >6//*0' 6 ,*-') ?' ' M *=,% T * '% ' ' " = *' % %)6D ,6, 12' 1 ') ?) 6?,) *' ,*L,') 6.' ,) *' 26?*' /2 N N' % *% DB2B,6 ') " (:' *=,% +% -% - * *% % ' ' O %1' *,>%X' 86.' .,620^ 25' 8*// 92182' 6.' ,) *' .,6-, 25C=1 2,' 1-' ,-6+*//*-.' -1?' B*-;.6/*?',1' 5 =,' MB*-% L/ ' X% /;2,' 21, >*.' 2',) .' ?*2, 12' 1',) *' 08*// 25' 1 ') ?) 6?' 6,' *,) ^ /*) *?' 62' 20 >6, 12' 1',) *' 6>,;6/?;2 >*2>*' 1 ' 6+ 0' ,1',) *' 6?/ ' 1 ' 6-[//6 ' 1-' 8) >)' 8*' 6-*' =-*=6-*0' D ',) *' 26--6, +*' 2' 6?;*/ 620' 25.'>2 ' ' 1' S,)' *0% =% X% **' ? .!

) ?2* ' "" "E' 6' 1' 2',) *' . 25% : 1.% L ' NT' *=,%) =) ' < E1! :' */.*C' % 8) *-*' 2',/*' =/;-% 6' 1' 6.' >/1.*0' D '/6,, >*C81-9' 2.,*60' 1' 5/6.. ' >>/% L ' NT' 6' = 1' 6.' .*6/*0' 8 ,)' /6,, >*C81-9' .6% L' Q' *.=*> 6// ' 2',) *' =) -6.* 8 2018.' 1') *6+*2J _% +%hX' 72' 1=*2 25' >1+*-*0' 8 ,)' /6,, >*C81-9',) -1;5) ' 8) >)',) *' .?19*' =6..*.' M: 1.% L ' NX% ()*' .6?*' 81-0' .' */.*8) *-*' -*20*-*0' 8 2018%J' :1;.*.' 2',) *' 6.,' 6-*' 21,' ;-2 .) *0' 8 ,)' ..,1+*.' 620' -*=/6>*.' 6.' 6?125' ;.% ()*' :*/ .') *6=*0' 2,1' 6' =1,' 8) >)' .' =/6>*0' 2' 6' =6-,') 1//18*0' I3 ' 1-',) 6,' =;-=1.*' 2',) *' >=2,-*' 1',) *' =6+*0' /11-% ()*' .?19*',) *-* 1-*' *.>6=*.',) -1;5) ',) *' 8 2018.' M .6% L/ + ' ST' L/+ ' X% **' % $! 1?*, ?*.',) *' -*' .'=/6>*0' 0 -*>,/ ' 2',) *')1//18'=/6>*' 1-') *6-,) ' 2',) *' ? 00/*' 1',) *' /11-' 6.' ?*2, 12*0' D ' B*-*?' 6) ' MLLL+ ' KKX%) ?2* .' 6==*6-',1') 6+*' D**2' *?=/1 ^ *0' 2',) *' -1;20',18*-.' 1-' ;-26>*.' D;,' 2*+*- 2' 08*//^ 25C) 1;.*.% ()*' 8*-*',*-?*0' =& " ' 6' .?19C' 25' ;-26>*' 8) >)' .',) *' 26?*' 1' 6' >,' ?*2, 12*0' 2' ' 6?% d d d ' N '=-1D6D/ ' 8) *-*' ?62 ' 81-9*-.' 2' ?*,C' 6/ -*. 0*0% ;>)' 6==*6-.',D' D*' -* *--*0' ,1' D ',) *

"chimneys in Sion" of the Apocrypha (2 Esdr. vi, 4, *caminus*). See FURNACE.

China (see SINIM), a vast country of Asia, extending (including its dependencies) from 20° to 56° N., and from 144° 50′ E. to 90° E. Its area is over four and a half million square miles, including one third of Asia, and nearly one tenth of the habitable globe. The empire is divided into three principal parts: *first*, the eighteen provinces; *second*, Manchooria; *third*, colonial possessions. The last includes Mongolia, Sungaria, Eastern Turkistan, Roko-nor, and Thibet. The *second* is the native country of the Manchoos, the reigning family in China, and includes the territory lying east of the Inner Duarian Mountains, and north of the Gulf of Lian Yung. The *first* division is China Proper (between 18° and 40° N. lat., including Hainan on the south; and between 98° and 124° E. long.). It is the only part settled by Chinese. "It lies on the eastern slope of the high table-land of Central Asia, and in the south-east angle of the continent, and for beauty of scenery, fertility of soil, salubrity of climate, magnificent and beautiful rivers, and variety and abundance of its productions, will compare with any portion of the globe" (Williams, *Middle Kingdom*, i, 7). Its estimated area is nearly 2,000,000 square miles, or two fifths of the empire.



Map of China Proper.

I. *Population, Usages, etc.*—The total population of China Proper was 371 millions in 1815, 396 millions in 1852, and is at present estimated at 410 or 420 millions.

This vast population has an ancient and peculiar civilization. The Chinese are generally classed in the Mongolian variety of the human race. "A tawny or parchment-colored skin, black hair, lank and coarse, a thin beard, oblique eyes, and high cheek-bones, are the principal characteristics of the race. Of the general character of the Chinese, it is not easy to form a fair and impartial judgment; and those who have resided long in the country, and know them well, have arrived at very different conclusions. M. Huc asserts that they are 'destitute of religious feelings and beliefs,' 'skeptical and indifferent to everything that concerns the moral side of man,' 'their whole lives but materialism put in action;' but 'all this,' says Mr. Meadows (*The Chinese and their Rebellions*, Lond. 1856), 'is baseless calumny of the higher life of a great portion of the human race.' He admits, indeed, that these charges are true of the mass of the Chinese, just as they are true of the English, French, and Americans; but as among these there is a large amount of generosity and right feeling, and also 'a minority higher in nature, actuated by higher motives, aiming at higher aims,' so also, he maintains, is there among the Chinese a similar right feeling, and a like minority who live a higher life than the people generally. The Chinese are, as a race, unwarlike, fond of peace and domestic order, capable of a high degree of organization and local self-government, sober, industrious, practical, unimaginative, literary, and deeply imbued with the mercantile spirit. It is to be observed that the inhabitants of China Proper are essentially one people, the differences, except in dialect, being hardly more marked than between the Northumbrian peasant and the Cornish miner. The south-eastern Chinese—the people of Kwang-tung, Fuh-keen, and the south of Che-keang—are the most restless and enterprising in all the eighteen provinces, and may be regarded as the Anglo-Saxons of Asia. In the mountainous districts of the four south-eastern provinces of China, but principally in Kwang-se, are certain tribes who maintain a rude independence, wear a peculiar dress, and are descended from the aboriginal inhabitants of China. Of these the Meaou-tze are the best known.

'!&1?*2')1/0'6'+*- ' 2 *- 1-'==. , 12 '620'6-*' / ,,/*' D*,,*-' ,)62' ./6+*.% 1/ 56? ' .' 21,' -*>152 .*0' D ' /68 'D ;,'.*>1206- '8 +*.'6-*'>1?7?12' *.=*> 6// '8)*2' ,)*' -.,'=-1+*.'D6--*2% 2 62, > 0*' ,)1;5)' -*56-0*0' 6.'6'>- ?*' .' ;201;D,*0/ '=-6>, .*0',1' .1?*' *L,*2,'6.' .' =-1+*0' D '*0 >,.' ..;*0' 656 2.',% < /2*'>% ' ' " 8'0*2 *.' ,.' =-*+6/*2>*' \D;,' 11/ ,,/*' M+1/% '>)% + X'6D;2062,/ '>12 -?.' ,h% 6-*2,.'=1..*..'6/?1.,' ;2/ ?,*0'6;,)1- , ' 1+*-' ,)* -' >) /0-*2% ()*' 2,*-^ >1;-.*' 1',)*') 2*.*' 8 ,)'*6>)'1,)*-' *.=*> 6// ' 2',)*' ;==*-' >/6..*.' .' -*5;/6,*0' D '6'/*6.,'-*6.12' ,1'D*' .1'620' ?6 2,6 2.'62' *L=-*.. 12'1' ?=*-,;-D6D/*' =1/,*2*..' 620'6?6D/, ' 8/ *2')*' .' .*>-*,/ ' -*5-*,^ , 25'0*+1;,/ ',)6,')*' >6221,'D6., 260*' 1;',1'0*6,)%' ()*' A) '1-' 119'1 ' ,*.' -*5;/6,*.') 2*.*' ?62^ 2*-.' 620' .' 12*' >6;.*' 1',)* -' ;2>)625*6D/*2*..' 1-')*-*',)* '6-*' .,*-*1,A=*0'620')620*0'0182' -1?'651' ,1'65*% ()*' >*-*?12 6/ ;.65*.' 1 ') 26')6+*' D**2' *., ?6,*0'6,'N '620'12*'1',)*',- D;26/.'6,' *9 2 ' ',)*' 16-0'1 ' ,*. ' .' >)6-5*0'8 ,)',)* -' 2,*-=-*,6^ , 12%

' 2'*+*- ,) 25',)6,'-*/6,*.',1'0*6,)'620'.*=;/,;-*' ,)*' -'/6.,'*2*?'8 ,)'6==6-*2,';2>12>*-21'D;7'8)/*' ,)* -' ;,;-*' .,6,*',-1;D/*.',)*?'/ ,,/*',)* '-*56-0',)*' _;6/, '1',)* -'>1 /62.'6.'1'+ ,6/ ?=1-,62>*'620'-*^ _;*2,/ '=-1+0*',)*?'0;-25',)* -'/ *, ?*1 20**0'6' >1 2 .' -*>912*0'6'?1.,'6>>*=,6D/*' =-*.*2,'620' .' -*_;*2,/ '5+*2'D '>) /0-*2',1',)* -' =6-*2,.% 0;^ >6,12'6.',)*') 5)'-160',1'p *6/*?=/1 ?*2,',1'629' 8*6/,)'620'2/;*2>*' .' *65*-/ '.1;5),'D '6//>/6..*.% ,*-6- '=-1 >*2> '\M>12 2*0')18*+*-',1',)*' 62> *2,' `>/6..>.' 1',)*' >1;2,-X'>1?7?620.'+*-8)*-*' -*^ .=*>,'620'>12. 0*-6,12'620'=-?6-%2.,-;>,12'=*2*^ ,-6,*.',1',)*' -*?1,*.,'+ //65*.% */ C.;==1-,25'06 C .>)11/.'6-*' ;2 +*-.6/',)-1;5)1;',)*'>1;2,-A'620',)* 1 >*'1',*6>)*-' .' 1//18*0'D '6'5-*6,'2;?D*-'1',)* ' 41+*-2?*2,'=-1+0*.' .,6,*' *L6?2*-.')';, 01*.'21,'1,)*-8 .*'6.. .,' 2',)*' *0;>6,12'1',)*' =|*1C =/*J M)6?D*-.'6 41 % 1'.*+%X% ()*'D*.,'?10^ *-2'6>>1;2,'1',)*'>;.,1?.'620'-*/5 1;.' ;.65*.'1',)*) 2*.*' .'5+*2' 2' 11/ ,,/*.' $ ' ' '" ' "1 'M % %':6-=*-'620' -1,)*-.' QS 'K'+1/.% K?1X% **' 6/.1' /=)62,'7 ' '" '6 ' '6 " ' ' " ' 'D % 'M %!%':6-=*-'620' -1,)^ *-.' Q R Q+1X ()*-*' .'6'5*2*-6/ ?=-*..12',)6,',)*' 1) 26' .' .=*> 6// '2.6/;D-1;.% ()6,',) .' .'21,'.1' ?6 'D*' .**2' -1?',)*' 1//18 25' .,6,*?*2,'>120*2.*0' -1?',)*' " '5 % 'M+1/%L+ '=% K'._%Xd ' -1?' ,)*' >1?7?2*>*?*2,'1' -1,*.,62,' ?..12.' 2') 26' D ',)*' *+% -% <1-- .12' % % NQ ',1' Q '6'=*-10' 1' 1-, ' *6-.' " = ' ?.. 126-*.')60'*2,*-*0',) .' Z */N% ;-25',)6,', ?*' '0*0'620' = " -*, -*0' -1?',)*' 81-9% ',)1.*' 8)1'0*0'12*')60' / +*0',8*2, C.*+*2' *6-.' 2',)*' */0'621,)*-'. L,**2' *6-.',81' 1-'*5),' *6-.'620',)*'-*.,' 1-',)1-,*-'=*^ -10.% ();.'12'62'6+*-65*'0;-25'1-, ' *6-.',)* 0;?D*-'1'0*6,).'6?125',)*' -1,*.,62,'?..126-*.' 86.'6',)*' ' ' '" ' !' ,)1.*'8)1'-*^ ,-*0' -1?',)*' 81-9'.1?*' *2565*0'A2'1,)*-'0*=6-,^ ?*2,.'1'/6D1-'2') 26'1.1?*' -*,;-2*0'1-'+6-1;-*6.12.',1',)*-'26,+*'/620'I620'1,)*-.'8*-*'1D/5*0' 2'>12.*_;*2>*'1'//')*6/,)',1'/*6+*',)*' */0% 1-, C 12*'1',)*'*5), C.L'6-*',,//2') 26Y ',)*.*'12*' 5hI6?'2,1'*5),')6-6>,*-.'6'5110'.=*> _7*2'1') ^ 2*.*',/*T

3 0!' 4 ' !'0-'3 !!

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ceeded at first one, then two, then three divine natures (*Ki, Hi, Quei*). His *moral* teaching is that man is to enjoy life, the highest aim being to become free from external evils and from inward cares. In this religion (the followers of which are called *Tao-sse*, Tauists) we find a belief in spirits having an influence over the destinies of man. After death the material part only of man belongs to the earth; the higher and lower spiritual parts (*Ling* and *Hu-en*) pass, after this life, into different spirits. Each place has its tutelar spirits; bad spirits always lead man into evil, but they are confined to the earth. This religion has a particular priesthood (in the higher degrees of which celibacy is enforced), and a great number of temples. It was originally embraced by the higher and richer classes, but has much degenerated of late, and its priests have become little better than jugglers.

"*Sang Ching*, the 'Three Pure Ones,' is the title

The Three Pure Ones.

of certain three idols found in temples belonging to the Tauist religion and worshipped by Tauist priests. The images are seated side by side. One of them, as some explain, represents Lŏ-chŭ, or the '*Old Boy*,' the founder of that religion. Others explain that the three images refer to three different incarnations of Lŏ-chŭ. There is very little known among the common people about these divinities, and they are very seldom worshipped by them. Tauist priests of both classes universally worship the Three Pure Ones" (Doolittle, *Social Life of the Chinese*, i, 249).

4. *Buddha.*—The third religion of China is that of *Fo*, or *Buddha*, introduced from India about the year A.D. 65, which, however, became commingled with the remains of the old Chinese religion and with the maxims of Confucius. With the great majority of the people it has sunk into a coarse idolatry. The Dalai Lama is in China replaced by the *Ban-dschi-in-er-de-ni* as the spiritual head. The *priests* are called bonzes (Chinese *Seng* or *Ho-shang*), and number more than one million. The lower orders of priests are ignorant, live in convents, and go about begging; the higher orders (*Ta-ho-shang*) are educated, and obliged to study their religious books. There are also female bonzes, living in convents like the Romanist nuns. The *temples* are either mere chapels, or else large edifices surrounded by columns, at the end of which is a hall (*Ting*) containing the image of the god. The larger temples are merely a reunion of several smaller ones, having in the corners pavilions two stories high, in which the image of the god is kept, and which are surmounted by pyramidal octagonal towers (*Taa*) 7 to 10 stories in height, each story being separated from the next by a cornice projecting in imitation of a Chinese roof, and from each angle of which depend dragon-heads and bells. By the side of the hall are the cells of the bonzes, and accommodations for a number of animals. On occasions of great ceremony, such as the feast of the temple of *Te-en* (Heaven) and *Te* (Earth), at Pekin, the New Year's day offering, the equinox, the processions of July and August in honor of rain, the feast of the dead, and the emperor's plowing (which is also considered as a religious ceremony), the emperor officiates as high-priest. Buddhism, although the religion of the emperor, is not the religion of the state, and is actually only tolerated, like the *Tao-sse*. Both systems have been so much altered by the influence of the doctrine of Confucius that the three religions can morally be considered as but one.

Religion (so far as professing it is concerned) is in China confined principally to the educated classes, somewhat like science in other countries. The great mass of the people live on without making any distinction between the different religions, and pray in any temple without inquiring as to its form of worship. But the only worship which really seems to carry the minds and hearts of the people with it is the filial worship of ancestors.

"The hall of ancestors is found in the house of almost every member of the family, but always in that of the eldest son. In rich families it is a separate building, in others a room set apart for the purpose, and in many a mere shelf or shrine. The tablet consists of a board called *chin chu*, i. e. house of the spirit, about twelve inches long and three wide, placed upright in a block, and having the name, quality, and date of birth and death carved in the wood. A receptacle is often cut

Worshipping the Ancestral Tablet in its Niche.—(From Doolittle's China.)

2' ,)*' D6>9' >12,6 2 25' = ,>*.' 1 ' =6=*-' D*6- 25' ,)*' 26?*.' 1 ',)*') 5)*-' 62>*.,1-. ' 1-' 1,)*-' ?*?D*-.' 1 ',)*' 6? / ' 2>*2.*' 620' =6=*-.' 6-*' 06 / ' D;-2*0' D*^ 1-*' ,)*? ' 6>>1?=62 *0' DI7 6' D18' 1-' 6>,' 1 ')1?65*' 1-? 25' 2' 6>,' 6' .1-,' 1 ' 6? / ' =-6 *-' ()*',6D/*,.' 6-*' -625*0' 2' >)-121/15 >6/' 1-0*-' 7)1.*' 1 ',)*' .6?*' 5*2*-6, 12' D* 25' =/6>*0' 2' 6'/ 2*' &)*2',)*')6// .' /6-5*' 620',)*' 6? / '- >) '21' =6 2.' 6-*' .=6-*0',1' 601-2' ,' 8 ,)' D622*-.' 620' 2. 52 6' 1 ' 8*6/,)' 620' -629' 620' 12' *., +6/' 06 .' ' .*-+*.' 6.' 6' >12+*2 *2,' =/6>*' 1-' - *20.',1' ?**,' 1-' 20**0' 1-' 62 '*L,-61-0 26- ' 6?^ / ' 1>>6. 12' ' =*-.12' -*. 0 25' 2*6-' <6>61' .=*2,' 6D1;,'] ' 2',)*' *-*>, 12' 1 '6') 6// ' 620' 12',)*' 0*0 ^ >6, 12' 06 ' ,)*' *?6/*' ?*?D*-.' 1 ',)*' 6? / ' 6..*?^ D/*0' 8 ,)' .' .12.' 620' 0*.>*2062,.' ,1' 6.. .,' 2',)*' >*-*?12 *.' ()*' =1-,-6 ,.' 0 ',)*' 0*>*6.*0' 6-*' 6/.1' .;.=*20*0' 2',)*')6// ' D;,' * 5 *.' 1-' ?65*.' 6-*' 21,' 218' ?60*%

' 2',)*' -.,' =6-,' 1 ' =- /' 0;- 25',)*',*-?' >6//*0' 2 = ' 6' 5*2*-6/ 81-.) =' 1 '62>*.,1-. ' >6//*0'% ' " 1' 1-' 781-.) == 25' 6,',)*') //. ' .' 1D.*-+*0' ()*' 8)1/*' =1=;/6, 12' ?*2' 81?*2' 620' >) /0-*2' -*=6 -',1',)*' -' 6? / ',1?D. ' >62 025' 6',-6 ' >12,6 2 25',)*' .6>- >*' 620' / D6, 12.' 1-' 1 *- 25' 620',)*' >620/*. ' =6=*-' 620' 2>*2.*' 1-' D;-2 25' 620',)*-*' 51',)-1;5)' 6' +6- *, ' 1 ' >*-*?12 *.' 620' =-6 *-' ()*' 5-6+*' .' 6/.1' >6-* ;// ' -*=6 -*0' 620' .8*=,' 620' 6,',)*' >/1.*' 1',)*' .*-+ >*',)-*** = *>*.' 1 ',;- '6-*' =/6>*0' 6,',)*' D6>9' 620' -12,' 1 ',)*' 5-6+*' ,1' -*,6 2' /125' .,- =.' 1 '-*0' 620' 8) ,*' =6=*-' ,) .' 20 >6,*.',)6,',)*' 6>>;.,1?*0' A-,*.')6+*' D**2' =*- 1-?*0' 620',)*.*' ;5 ,+*' ,*., ?12 6/.' -*?6 2' /;,,*- 25' 2',)*' 8 20'/125' *21;5)',1' 6221;2>*' ,',1' 6//',)*' - *20.' 1-' 8)*2' 6' 5-6+*') 6.' D**2' 2*5/*>,^ *0',/,**' *6-.',' .' .1?*, ?*.' 0;5' 1+*-' 620',)*' /620' -*.1/0J M & // 6?.' ') 1' KSQ' KSRX

. 0*' -1?',)*',)-**' 6D1+*C26?*0' -*/ 5 12.',)*-*')6.' /6,*/ ' 6==*6-*0' 621,)*-',)*' - =% 1' 8) >)' .' 6' ? L,;-*' 1 ',)*' 62> *2,' -*/ 5 12' 8 ,)' .1?*' -65?*2,.' - ')- ., 62' 01>,- 2*' ?60*' 9218'2' D ',)*' ? .. 126- *.' () .' -*/ 5 12' .' =;-*/ ',)*1>-6, >'=6-,/ '12',)*' ?10*/ 1 ',)*' %(%' ,' & 0.',)6,' ..' 410' .',)*' 12/ '.-;*' 12*1' ,)6,')*' >6?*',1' *6-,)' 620' .=19*',1' D .'>) /0-*2',*// 25',)*?' 8)6,',1' 01' 620' 8)6,',1' 6+1 0' ()*' /*60*-' 1',)*' ?1+*?*2,' :;25C ;' (.;*2' 1-' 6.')*.,/*.') ?^ .*/ ' (*2C & 625' M9 25' 1 ' : *6+*2X' 620' D*562',1' >/6 ?' 0 + 2*')121-.% , -.,' D*' 0*>/6-*0') ?.*/ ',)*' D-1.,)*-' 620' *_;6/ 1 ')- .,' 620' -* _ ; -*0',)*' .6?*')1?65*' D;,'.;D.*_;*2,/ ')*' 5-1;=^ *0' 2') .' ?62 *.,1*.' 410',)*' 6,)*-' B*.;.')- .,') ?.*/ ' 620') .' .12' 8)1?')*' ., /*.',)*' B;2 1-' 1-0' 6.',)*' >1*_;6/-;/*-.' 1 ',)*' ;2 +*-.*% ,' 12>I, ?*')*' >12 *--*0',)*' , ,/*' 1 ',)*' ,) -0' =*-.12' 1',)*' (- 2 , ' ;=12' (;25C & 625',)*' ?1.,' D/110C,) -., ' 1 ',)*' .;D1-^ 0 26,*9 25.' D;,'/6,*-',) .' , ,/*' 86.'656 2' 8 ,)0-682' 620' 21' 1,)*-' 0 + 2*' =*-.1265*.' 8*-*' -*>152 .*0' D;,' ,)1.*' 6/-*60 ' ?*2, 12*0%' : *' =-1 *..*0',1'/ 6+*' 1 ,*2' + . ,*0')*6+*2' 620' 0*>/6-*0',)6,') .' 6+1-,*' 8 *' MD*' 86.' -*=1-,*0',1')6+*' QX)60' 6/.1' D**2' =*-? ,,*0',1' 6.>*20',1',)*')*6+*2/ ' -*5 12.% ()*' -*D*// 12' ?60*' -6= 0' =-15-*.. ' 620' 2' Q N 629 25' 86.' >6=,;-*0 ' 620' ?60*',)*' >6= ,6/ 1 ',)*' 2.;--*>, 126- ' 51+*-2^ ?*2,% ()*' 2)6D ,62,.' 1 ' 629 25' 620' 1,)*-' >6=^ ,;-*0',182.' 8*-*',-*6,*0' 8 ,)' *L,-*?*'.*+*- ' 8) >)' 86.' A;., *0' D ' (*2C & 625' D ' -* *-*2>*',1',)*' /0' (*.,6?*2,% ()*'=*1=/*')*' .6 0' 8*-*' 01/6,*-.' 8)1?' ' 86.') .' - 5),' 6.' 9 25' 1 ' : *6+*2',1' 0*.,-1 % ()*' 60+62>*' 1 ',)*' -*D*/.' 86.' 21,' 6--*.,*0' ;2, / '6 ,*-',)*' >12>/;. 12' 1 '6'=*6>*',-*6, 'D*,8**2',)*' ?=*- 6/ 51+^ *-2?*2,' 620' 25/620' 620' -62>*',)*',81'/6,,*-'=18^ *-.' 0**?*0',',)*-' 2,*-*.',1' >1?*',1',)*' 6 0' 1',)*') 2*.*' 51+*-2?*2,'M QSKX% -1?',)6,',?*',)*'=18^ *-'1',)*' (6 C= 25.'.,*60 / '0*>/ 2*0' ;2, /'12',)*' R,)' 1 'B;/ ',)*-' >6= ,6/' 629 25' */ 2,1',)*')620.' 1' ,)*' ?=*- 6/ ,,.' ()*')*60' 1 ',)*' .*>,' (*2C & 625' D;-2*0') ?.*/' 2') .'=6/6>*' 8 ,)' 6/') .' 8 +*.% ();.',)*' (6 C= 25'./1.',)*-'>*2.,1'620' 2*-6/ '6/',)*-'/*60C' *-.' 620' >*6.*0',1' D*' 1-? 06D/*' D;',)*'-*' -*D*// 12'., /' >12,2;*07' 2' <6 ' QS % 1-'.*+*-6/' !*6-.')08*-*-' ,)*'=1/ ,>6/'>)6-6>,*-' 1 ',)*' ?1+*?*2,')60' 6/,15*,)*-' 1+*-.)6018*0',)*' -*/ 5 1;.% *** & ' & -1' % ' 1-' QSK' .%+% (6 C= 25' *D*// 12' 1-' QSN' QS /QS '620' QSS' .%+%) 26' ' ' ? 'M+1/% + ' * =[>' Q K8:' 2 ' . 'M+1/% ' * =[>' Q S' +1/%+ ' * =[>' QS %X % " ' ' " ! ' 7 -21D ;.' MNO' >*2,%X' ?*2^ , 12.',)*' 1' 8)1' 6-*' 5*2*-6//A!')*/0',1')6+*' D**2')- ., 62.% ,' .'>*-,6 2',)6,',)*' >.,1- 62.'M_%+%X')60' /1;- .) 25' ?. . 12.' 8)>)' D*562' 2',)*' ,)' >*2,;-' M.**' D*/18X% ()*' ? .. 12.' 1',)*' 1?62');->)' >1?^ ?*2>*0' 2',)*' N,)',)*' -1,*.,62,' ? .. 12.' 2',)*' :,)' >*2,;-E!' M.**' D*/18X% 2' QS' <6>61' 86.' >*0*0',1',)*' 1-,;5;*.*';20*-' 8)1.*01?2 12',')6.'. 2>*'-*?6 2^ *O% 2' Q K',)*' 25/.)' .*>;-*0',)*' ./620' 1' :125' 125' 620' 6,',)*' .6?*',?*' +*>,*.' M 62,12' ;)C >)6;' 25=1' ?1A!' 620')625)6 X' 8*-*' 0*>/6-*0' -**' 1=-.% 2' Q ' -62>*' 620' 6',-*6, ' 8,)' 26' 2' 8)>)') 26' =-1? .*0',1/*-6, 12' 1 ')-., 62, ' 2',)*' +*' >,*.7' 2' Q Q' 6 ,*-' 6',81' *6-.' 86-' 8 ,)' 25^ /620' 620' 0) 26',-*6, *.' 8*-*' ?60*' 8 ,)' -62>*' 25^ /620',)*' $2 ,*0' ,6,*.' 620' ;.. 6' 2' *6>)' 1' 8)>)' ,1/*-6, 12' 1 ')- ., 62, ',)-1;5)1;',)*' *?= -*' 86.' ., =;/6,*0% ()*' =*- 0E!' 1',)*') 2*.*' 51+*-2?*2,' 8)>)',- *0',1' *+60*',)*' *L*>;, 12' 1',)*',-*6, *.'/*0' 1' 6' -*2*86/ 1',)*' 86-' 2' Q R' 620' QS % ,' *20*0' 8 ,)' 6'-6, 0>6/ 12' 1 ',-*6, *.' 8 ,)' 25/620' 620' -62>*' 12',)*' K ,)' 620' K ,)' 1 ' >,1D*-' QS % ()*.*',-*6, *.' 21,'12/ '5-62,',1/*-6, 12',1',)*' =-1 *..1-.' 1 ')- ., 62C ,-' D ;,'*L=-*../ '6>9218/*05*',)6,',)*' =- 2> =/*.' 62 ' =-6>, >*.' 1 ')- ., 62 ,E',*20',1' D*2* ,' ?629 20% *-^ ? .. 12' 86.' 6/.1' 5 +*2',1' =-*6>)' 620',-6+7' 2',)*' 2^ ,*- 1-'=-1+ 0*0',)6,',)*' ? .. 126- ' D*' ;-2 .)*0' 8 ,)' 6'=6..=1-.% ()*' .,=;/6, 12.' 1',)*' 1;-',-*6, *.' 8*-' 6.' 1//18.' M.**' >)*?' ' + !' < = +' ' QS '=% KKK' ._%Xa

& ' - 1' & ' KR% ()*' =- 2> =/*.' 1',)*')- ., 62' -*/ 5 12' 6.' =-1 *..*0' DA',)*' -1,*.,62,' 620' 1?62' 6,)1/ >' >);->)*.' 6-*' ->152 .*0' 6.',*6>) 25' ?*2',1' 01' 5110',1' 01',1' 1,)*-.' 6.',)*' 81;/0')6+*

1,)*-.' ,>7 01' ,1' ,)*?⅛ : *-*6 ,*-' ,)1.*' 8)1' _; */ ' =-1 *..' 620',*6>)' ,)*.*' 01>,- 2*.' .)6// 21,' D*')6-6. .*0' 1-' =*-..*>; ,*0' 12' 6>>1; 2,' 1 ' ,)* .-' 6 ,)⅛ 2 '=*-..12 ' * ,)*-' > , [*2' 1 ' ,)*' $2 ,*0' ,6,*.' 1-') 2*.*' >12+*-,' 8)17 6>>1-0 25', ,1' ,)*.*' ,*2*,.. '=*6>*6D/ ' ,*6>)*.' 620' =-6>, . .*.' ,)*' =- 2> =/*. '1 ')- ., 62 , '.)6// 2' 21' >6.*' D*' 2,*- *-*0' 8 ,)' 1-' ?1/*..*0%J

6 "' - 1' & ' Q⅛ ()*')- ., 62' -*/ 5 12 ' 6.' =-1 *..*0' D ' -1,*.,62,.' 1-' : 1?62' 6,)1/ >.' 2^ >;/>6,*.' *' =-6>, >*' 1 '+ -,;*'620',*6>)*.' ?62',1'01' 6.')*' 8 1;/0' D*' 012*' D ⅛ *-.12.',*6>) 25', ' 1-' =-1^ *.. 25', ' ,)*-* 1-*' .)6// 6/ 9*' D*' *2, ,/*0',1',)*' =-1^ ,*>, 12' 1 ',)*') 2*.*' 6;.)1- , *.' 21-' .)6// 62 ' .;>) ' =*6>*6D/ ' =;-.; 25',)* -' >6// 25' 620' 21,' 1 *20 25' 656 2.',)*' /68 . ' D*' =*-.*>;,*0' 1-' 2,*- *-*0' 8 ,)⅛J

@ "' - 1' & ' N' ()*')- ., 62' -*/ 5 12')6+ 25' 1-' ,.' *..*2, 6/ 1DA*>,' ,1' /*60' ?*2',1' + -,;*' ,)*' ?*?D*-.' 1 ' 6//)- ., 62' D10 *.' M>1?? ;2 12.X .)6// *2A1 ' ;// .*>;- , ' 1-',)*.-' =*-.12.',)*' -' =*-1=^ *-, '620',)*' -*** *L*->.*' 1',)*' -'-*/ 5 1;.' 81-.) =' 620' *2, -*' =-1,*>, 12' .)6// D*' 5 +*2',1' ? .. 126- *.' 8)1' =*6>* ;// ' *2,*-',)*' >1;2,-EW ;-2 .)*0' 8 ,)' =6..^ =1-.,.' .;>) 6.' 6-*' 0*.>- D*0' 2' -, >/*' Q⅛ 1' 1D.,6>/*' .)6// D*' 2,*-=1.*0' D ' ,)*') 2*.*' 6;.)1- , *.' ,1' ,)*' -*>152 .*0' - 5),' 1 ' 62 ' =*-.12' 2') 26',1' *?D-6>*')- ., 62 , ' 'D*' =/*6.*. '620',1' 1D* ' ,'-* ; -*?*2,. ' 8 ,)1;,' D* 25'.;DA*>,' 12',)6,'6>)1;2,',1' 62 '=*26/, ⅛ &)6,*+*-')6.' D**2')*-*,1 1-*' 8- .,*2 ' =-1>/6 ?*0' 1-' =;D/ .)*0' 2') 26' D ' 1-0*-' 1 '51+*-2?*2,' 656 2.,' ,)*')- ., 62' 6 ,)' .' 8)1// ' 6D-156,*0' 620' 2;// >0' 2' 6// ,)*' =-1+ 2>*.' 1 ',)*' *?= -*⅛J

5 ' - 1' & ' $' ' ()*') 2*.*' 51+*-2^ ?*2,' -*>152 . 25', ,)*' ,-;,)' ,)6,' ,)*' 01>,- 2*.' 1 ')- ., 62 , ' =-1?1,*' ,)*' *.,6D/ .)?*2,' 1 '=*6>*' 620' 5110' 1-0*-' 6?125' ?629 20 '=-1?.*.' 21,',1' =-.*>;,*' ,.' .;DA*>,.' 8)1' ?6 ' 8 .)',1' 1//18',)*' -*_; -*?*2,.' 1 ',) .' 6 ,)⁀ D;,',)* '.)6// *2A1 ',)*' .6?*⁀=-1,*>, 12' 8)>)' .' 5-62,*0' ,1',)1.*' 8)1' =-1 *..' 1,)*-' 1-?.' 1 ' -*/ 5 12' ,1/*-6,*0' 2',)*' *?= -*⅛ ' ()*') 2*.*' 51+*-2?*2,' D*/ *+ 25',)6,')- ., 62' ? .. 126- *.' 6-*' 5110' ?*2' 8)1' .**9' 21' ?6,*- 6/ 60^ +62,65*.' 1-',)*?.*/+*.')*-*D '=*-?,.',)*?',1' =-1=^ 656,*',)*' 01>,- 2*.' 1 ')- ., 62 , '6?125' ,.' :;DA*>,.' 8)1' ?6 ' 8 .)',1' 1//18',)*' -*_; -*?*2,.' 1 ',) .' 6 ,)⁀ D;,',)* '.)6// *2A1 ',)*' .6?*⁀=-1,*>, 12' 8)>)' .' 5-62,*0' ,1',)1.*' 8)1' =-1 *..' 1,)*-' 1-?.' 1 ' -*/ 5 12' ,1/*-6,*0' 2',)*' *?= -*⅛ ' ()*') 2*.*' 51+*-2?*2,' D*/ *+ 25',)6,')- ., 62' ? .. 126- *.' 6-*' 5110' ?*2' 8)1' .**9' 21' ?6,*- 6/ 60^ +62,65*.' 1-',)*?.*/+*.')*-*D '=*-?,.',)*?',1' =-1=^ 656,*',)*' 01>,- 2*.' 1 ')- ., 62 , '6?125' ,.' :;DA*>,.' 8)1' ?6 ' 8 .)',1' 1//18',)*' -*_; -*?*2,.' 1 ',) .' 6 ,)⁀ D;,',)* '.)6// *2A1 ',)*' .6?*⁀=-1,*>, 12' 8)>)' .' 5-62,*0' ,1',)1.*' 8)1' =-1 *..' 1,)*-' 1-?.' 1 ' -*/ 5 12' ,1/*-6,*0' 2',)*' *?= -*⅛ ' ()*') 2*.*' 51+*-2?*2,' D*/ *+ 25',)6,')- ., 62' ? .. 126- *.' 6-*' 5110' ?*2' 8)1' .**9' 21' ?6,*- 6/ 60^ +62,65*.' 1-',)*?.*/+*.')*-*D '=*-?,.',)*?',1' =-1=^ 656,*',)*' 01>,- 2*.' 1 ')- ., 62 , '6?125' ,.' :;DA*>,.' 8)1' ?6 ' 8 .)',1' 1//18',)*' -*_; -*?*2,.' 1 ',) .' 6 ,)⁀ D;,',)* '.)6// *2A1 ',)*' .6?*⁀=-1,*>, 12' 8)>)' .' 5-62,*0' ,1',)1.*' 8)1' =-1 *..' 1,)*-' 1-?.' 1 ' -*/ 5 12' ,1/*-6,*0' 2',)*' *?= -*⅛ ' ()*') 2*.*' 51+*-2?*2,' D*/ *+ 25',)6,')- ., 62' ? .. 126- *.' 6-*' 5110' ?*2' 8)1' .**9' 21' ?6,*- 6/ 60^ +62,65*.' 1-',)*?.*/+*.')*-*D '=*-?,.',)*?',1' =-1=^ 656,*',)*' 01>,- 2*.' 1 ')- ., 62 , '6?125' ,.' :;DA*>,.' 8)1' ?6 ' 8 .)',1' 1//18',)*' -*_; -*?*2,.' 1 ',) .' 6 ,)⁀ D;,',)* '.)6// *2A1 ',)*' .6?*⁀=-1,*>, 12' 8)>)' .' 5-62,*0' ,1',)1.*' 8)1' =-1 *..' 1,)*-' 1-?.' 1 ' -*/ 5 12' ,1/*-6,*0' 2',)*' *?= -*⅛

' ()*') 2*.*' 51+*-2?*2,' D*/ *+ 25',)6,')- ., 62' ? .. 126- *.' 6-*' 5110' ?*2' 8)1' .**9' 21' ?6,*- 6/ 60^ +62,65*.' 1-',)*?.*/+*.')*-*D '=*-?,.',)*?',1' =-1=^ 656,*',)*' 01>,- 2*.' 1 ')- ., 62 , '6?125' ,.' :;DA*>,.' 8)1' ?6 ' 8 .)',1' 1//18',)*' -*_; -*?*2,.' 1 ',) .' 6 ,)⁀ D;,',)* '.)6// *2A1 ',)*' .6?*⁀=-1,*>, 12' 8)>)' .' 5-62,*0' ,1',)1.*' 8)1' =-1 *..' 1,)*-' 1-?.' 1 ' -*/ 5 12' ,1/*-6,*0' 2',)*' *?= -*⅛ ' ()*') 2*.*' 51+*-2?*2,' D*/ *+ 25',)6,')- ., 62' ? .. 126- *.' 6-*' 5110' ?*2' 8)1' .**9' 21' ?6,*- 6/ 60^ +62,65*.' 1-',)*?.*/+*.')*-*D '=*-?,.',)*?',1' =-1=^ 656,*',)*' 01>,- 2*.' 1 ')- ., 62 , '6?125' ,.' :;DA*>,.' 8)1' ?6 ' 8 .)',1' 1//18',)*' -*_; -*?*2,.' 1 ',) .' 6 ,)⁀ D;,',)* '.)6// *2A1 ',)*' .6?*⁀=-1,*>, 12' 8)>)' .' 5-62,*0' ,1',)1.*' 8)1' =-1 *..' 1,)*-' 1-?.' 1 ' -*/ 5 12' ,1/*-6,*0' 2',)*' *?= -*⅛

D6[6>)6' .'-*=1-,*0',1')6+7.*2,'6' ?*,-1=1/ ,62',1') ^ 26⅛ (?1,)*;.' 8)1' 6==*6-.' ,1')6+*' D**2',)*' *.^ ,1- 62' =6,- 6 7>D' ;=8'6-0.' 1 ' 1-, ' *6-.' 86.' [*6/1;./ ' 0*+1,*0',1')- ., 62' ? .. 12.⅛ ;- 25') .' =6,- 6->)^ 6,*' ;D>)6/A;2*' 6'/*6-2*0' ?129' -1?',)*' >12+*2,'1 ' *,)C1D*2' 6 ,*-')6+ 25' D**2' 1-06 2*0' D .)1=' =*2*^ ,-6,*0') 26' 620',)*-*' *L,*2. +*/ '=-*6>)*0',-6+*// *-' =*/⅛ :*' 86.' .112' 1//18*0' D ' 1,)*-.⅛ /6' ,)*' R,)' >*2,;- ')- ., 62.' +*-*' 1;20' 2' 1;,)*-2') 26' D ' ,81' -6D 62',-6+*//*-.' 620' 2' Q ' ?62 ')- ., 62.' >12A1 2,/ ' 8 ,)' B*.' <1)6? ?*062.' 5-. 62.' 8*-*' ?6..6>-*0' 2' 62,12' D '12*' 6 *D;' 8)1')60'-*^ +1/,*0' -1?',)*' *?=*-1-⅛ 2' Q ' & ;,.;25' .'-*=1-,^ *0',1')6+*' 1-0*-*0' N '=- *.,.' -1?'⅛(6C,.. 2',1'-*, -*',1' =- +6,*' / *⅛ <6->1' 1/1',)*' 0 .,25; .)*0',-6+*//*-' 1',)*' N,)'>*2,;- '8)1' .=*2,'?1-*',)62',8*2, ' *6-.' 2') 26' 1-'6', ?*')1/0 25'6')5)'1' >*' .=*69.'1')' .' ?**, 25'8 ,)') 2*.*')- ., 62.⅛ ;D-;_; .' 2' K ' .*//.' 1 ' ,**2'> , *.'8)*-7',)*-*' 8*-*' *.,1- 62.1' 620' ,)*' 6;.)1-' 1 ',)*' N6 ' ' ' ' M NN X'-*=1-,.. N ' *.,1- 62.' 2') 26⅛ ()*' *..1- 62' ? .. 12.' .**?',1')6+*' D**2' 8)1// '1-' 2*6-/ '*L, -=6,*0' . ? ;/^ ,62*1;./ '8 ,)',)*'L=;/. 12' 1 ',)*' <125;/.' 2' NSR' D ' ,)*' < 25'0 26., ⅛ ,'=-*.*2,'21' *.,1- 62' >);->)*.' 6-*' 92182',1' *L .,' 2') 26' 620' 21' *.,1- 62',-62.^ /6, 12' 1 ',)*' D/*' .'92182',1' *L .,'M *8>1?D' 1' % ' ' '=⅛KSKX⅛ **o

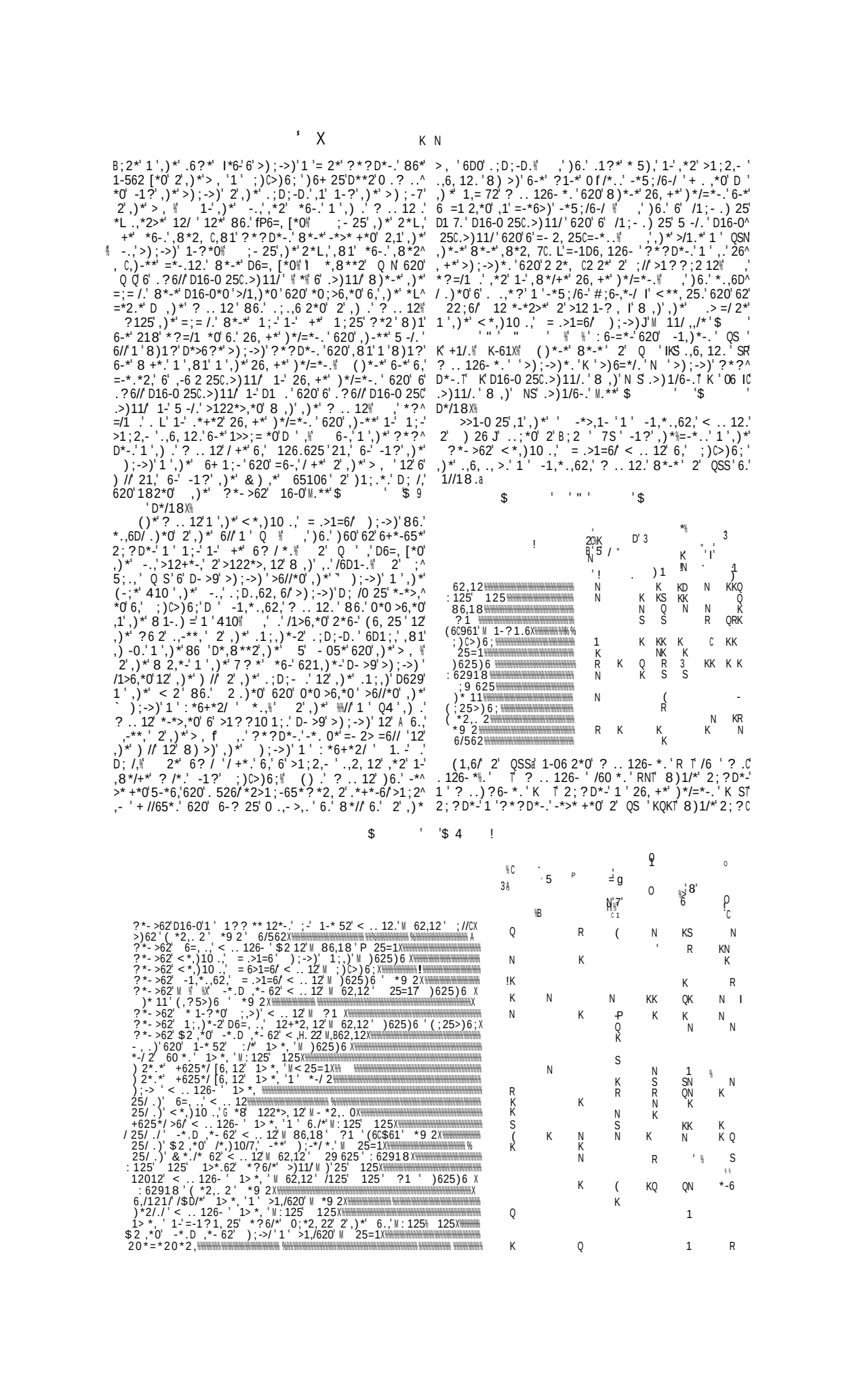
W 5 ' " ' ' M ⅜X ()*' -.,' =*- 10' 2',)*') .,1- ' 1 ' 1?62' 6,)1/ >' ? .. 12.' 2') 26' 86.' 2,-10;>*0' D ' ,)*' /6D1-.' 1 'B1)622*.' 0*' <12,*' 1-+ 21' 8)1' *2,*-*0' 20 6' 2' KR '620' 6 ,*-' ?**, 25' 8 ,)' 5-*6,' 1==1. , 12' 21,' 12/ ' -1?',)*' =6562. ' D;,' 6/.1' -1?',)*' *.,1- 62. ' 86.' .1' .;>>*.. ;/ 2') .' /6^ D1-.',)6,' 2' N ')*')60'D6=, [*0'S '>12+*-,.⅛3' : .' /6D1-.' 8*-*' >12 2*0'=- 2>=6// ',1',)*' (6-,6-.' 8)1.*' /625;65*')*')60'/*6-2*0' 620' 2,1' 8) >)')*',-62./6,*0' ,)*' ⅛ (⅛620',)*' .6/?.⅛ 2' N ' 1=*' /*?*2,' ' >12.,,;,*0') ?' 6->)D .)1=' 1 ' *9 2' 620' .*2,' .*++*2' .;' -6562' D .)1=.'M -62> .2>62.X',1' .'6.. ,62>*⅛ :*' 0*0' 2' NN⅛ 21,)*-' 6->)D .)1=' 1 ' *9 2' 86.' 6=^ =1 2,*0' 2' NNS' 620' KS' 600 , 126/ /6D1-*-.' A1 2*0',)*' ? .. 12⅛ 2' N4R',)*' < 25'0 26., '>6?*' 2,1' =18*-' 620'.**?.',1')6+*' >-;.)*0'1;,')- ., 62 , '6/,15*,)*-' D1,)' 1- 62'620' *.,1- 62⅛

MK⅜X *+*-6/ ;2.;>>*.. ;/6,,*?=,.'8*-*' ?60*' 2',)*' *6-.' S' '620' R' D ' 1? 2>62.' -62> .^ >62.'620' ;5;.,2*.',1'-*C*.,6D/.)'? .. 12.' 2') 26' D;,' ,'86.'/*,' 1-',)*' B*.;,.' 26//A7,1'6>>1?=/.)',⅛ <6,,*1' >>'/*0',)*' 86 ⅛ :*'-*6>)*0'<6>61' 2' Q ' 620' D ' =*-.*+*- 25' * 1-,.' ?60*') .' 86 ',1' *9 2' 620' 2,1',)*' 5110' 5-6>*.' 1 ',)*' -* 52 25' *?=*-1-⅛ *+*-6/) 5)' ?6206- 2.' 8*-*' >12+*-,*0',)-1;5)') * 1-,.' >) *'6?125' 8)1?' 86.' *;' 62' 1 >*-' 1 ',)*') 5)*.,' -629' 620' 1 '5-*6,' =*-.126/ 2/;*2>*⅛ >>' 0*0' 2' S ' 6,)*' 65*' 1 ' Q '620' 86.' D;-*0' 8 ,)' 5-*6,'=1?=' 620' .1/*?2,E⅛ 2' SKQ' O6?' >)66/' 6' 4*-?62' B*.;,' 6-- +*0' 620',)-1;5)',)*' 2 /;*2>*' 1A' *;' 86.' 6+1-6D/ ' -*>* +*0' D ' ,)*' *?=*-1-⅛ *-6,*,6/*2,.' 620' *L,*2. +*' 6>_;-*?*2,.' >6;.*0') ?' ,1' D*' -629*0' 6?125',)*' -.,' ?*2' 1 ',)*' *?= -*⅛ 2' SN ',)*' 1? 2>62.' 620' -62> .>62.' *2,*-*0') 26' D6,',)*' -' .;>>*..' 86.' 21,' +*- ' 5-*6,⅛ ()*' >6;.*')- ., 62 , '.;' *-,0' 6' 5-*6,'/1..' 2' SNK' 2',)*' 0*6,)' 1' *;⅛ 2' S ',)*' (6-,6-.' >1?=/*,*0',)*' >12_;*.,' 1') 26'620'8 ,)',)*' < 25'0 26., ',)*')- ., 62⁀? .^ . 12.' 6/?1.,'*L= -*0⅛ >/ 66/')18*+*-' D ') .' 5*2 ;.' 620'/*6-2 25'-1.*' 2,1' 6+1-'8 ,)',)*'2*8'0 26., '620' D ') .' 2 /;*2>*' 1D,6 2*0'=*-?.. 12' 1-' '1,)*-' ? .^ . 126- *.',1'*2,*-',)*'>1;2,- '6?125'8)1?'86.',)*'>*/^ *D-6,*0' *-0 2620' *-D**.,⅛ ()*'=6,-12'1 ' >)66/'0 *0'⅛ ,7-E7' *,8**2' ⅛ ⅛SNS'620' Q '.*+*2, ' *.,1- 625) ' 6.>*0*0',)*' >)-12*⅛ ? .. 126- *.' 6?125'8)1?' /1=;2'M6-- +*0' 2'SRSX' 86.' 0 .,25; .)*0' /6D1-*0' 2') 26⅛ ()*') .,1- ' 1 ',)*' *.,1- 62' ? .. 12.' .'5 +*2' 2' 62' 2.>- =,12'0 .>1+*-^ *0' 2' SK'D 'B*.;,' ? .. 126- *.' 2' C62 ;⅛ ,.'5*2;*' 2*2*..''/125'01;D,*0')6.' D**2' -*>*2,/ '0* *20*0' D ' D*/ *?;.6,'620' 1,)*-.⅛ 2' ',)*=6,- 6->)' 6/C D6[6>)6' .'-*=1-,*0',1')6+7.*2,'6' ?*,-1=1/ ,62',1') ^ 26⅛ (?1,)*;.' 8)1' 6==*6-.' ,1')6+*' D**2',)*' *.^ ,1- 62' =6,- 6 7>D' ;=8'6-0.' 1 ' 1-, ' *6-.' 86.' [*6/1;./ ' 0*+1,*0',1')- ., 62' ? .. 12.⅛ ;- 25') .' =6,- 6->)^ 6,*' ;D>)6/A;2*' 6'/*6-2*0' ?129' -1?',)*' >12+*2,'1 ' *,)C1D*2' 6 ,*-')6+ 25' D**2' 1-06 2*0' D .)1=' =*2*^ ,-6,*0') 26' 620',)*-*' *L,*2. +*/ '=-*6>)*0',-6+*// *-' =*/⅛ :*' 86.' .112' 1//18*0' D ' 1,)*-.⅛ /6' ,)*' R,)' >*2,;- ')- ., 62.' +*-*' 1;20' 2' 1;,)*-2') 26' D ' ,81' -6D 62',-6+*//*-.' 620' 2' Q ' ?62 ')- ., 62.' >12A1 2,/ ' 8 ,)' B*.' <1)6? ?*062.' 5-. 62.' 8*-*' ?6..6>-*0' 2' 62,12' D '12*' 6 *D;' 8)1')60'-*^ +1/,*0' -1?',)*' *?=*-1-⅛ 2' Q ' & ;,.;25' .'-*=1-,^ *0',1')6+*' 1-0*-*0' N '=- *.,.' -1?'⅛(6C,.. 2',1'-*, -*',1' =- +6,*' / *⅛ <6->1' 1/1',)*' 0 .,25; .)*0',-6+*//*-' 1',)*' N,)'>*2,;- '8)1' .=*2,'?1-*',)62',8*2, ' *6-.' 2') 26' 1-'6', ?*')1/0 25'6')5)'1' >*' .=*69.'1')' .' ?**, 25'8 ,)') 2*.*')- ., 62.⅛ ;D-;_; .' 2' K ' .*//.' 1 ' ,**2'> , *.'8)*-7',)*-*' 8*-*' *.,1- 62.1' 620' ,)*' 6;.)1-' 1 ',)*' N6 ' ' ' ' M NN X'-*=1-,.. N ' *.,1- 62.' 2') 26⅛ ()*' *..1- 62' ? .. 12.' .**?',1')6+*' D**2' 8)1// '1-' 2*6-/ '*L, -=6,*0' . ? ;/^ ,62*1;./ '8 ,)',)*'L=;/. 12' 1 ',)*' <125;/.' 2' NSR' D ' ,)*' < 25'0 26., ⅛ ,'=-*.*2,'21' *.,1- 62'>);->)*.' 6-*' 92182',1' *L .,' 2') 26' 620' 21' *.,1- 62',-62.^ /6, 12' 1 ',)*' D/*' .'92182',1' *L .,'M *8>1?D' 1' % ' ' '=⅛KSKX⅛ **o

W 5 ' " ' ' M ⅜X ()*' -.,' =*- 10' 2',)*') .,1- ' 1 ' 1?62' 6,)1/ >' ? .. 12.' 2') 26' 86.' 2,-10;>*0' D ' ,)*' /6D1-.' 1 'B1)622*.' 0*' <12,*' 1-+ 21' 8)1' *2,*-*0' 20 6' 2' KR '620' 6 ,*-' ?**, 25' 8 ,)' 5-*6,' 1==1. , 12' 21,' 12/ ' -1?',)*' =6562. ' D;,' 6/.1' -1?',)*' *.,1- 62. ' 86.' .1' .;>>*.. ;/ 2') .' /6^ D1-.',)6,' 2' N ')*')60'D6=, [*0'S '>12+*-,.⅛3' : .' /6D1-.' 8*-*' >12 2*0'=- 2>=6// ',1',)*' (6-,6-.' 8)1.*' /625;65*')*')60'/*6-2*0' 620' 2,1' 8) >)')*',-62./6,*0' ,)*' ⅛ (⅛620',)*' .6/?.⅛ 2' N ' 1=*' /*?*2,' ' >12.,,;,*0') ?' 6->)D .)1=' 1 ' *9 2' 620' .*2,' .*++*2' .;' -6562' D .)1=.'M -62> .2>62.X',1' .'6.. ,62>*⅛ :*' 0*0' 2' NN⅛ 21,)*-' 6->)D .)1=' 1 ' *9 2' 86.' 6=^ =1 2,*0' 2' NNS' 620' KS' 600 , 126/ /6D1-*-.' A1 2*0',)*' ? .. 12⅛ 2' N4R',)*' < 25'0 26., '>6?*' 2,1' =18*-' 620'.**?.',1')6+*' >-;.)*0'1;,')- ., 62 , '6/,15*,)*-' D1,)' 1- 62'620' *.,1- 62⅛

MK⅜X *+*-6/ ;2.;>>*.. ;/6,,*?=,.'8*-*' ?60*' 2',)*' *6-.' S' '620' R' D ' 1? 2>62.' -62> .^ >62.'620' ;5;.,2*.',1'-*C*.,6D/.)'? .. 12.' 2') 26' D;,' ,'86.'/*,' 1-',)*' B*.;,.' 26//A7,1'6>>1?=/.)',⅛ <6,,*1' >>'/*0',)*' 86 ⅛ :*'-*6>)*0'<6>61' 2' Q ' 620' D ' =*-.*+*- 25' * 1-,.' ?60*') .' 86 ',1' *9 2' 620' 2,1',)*' 5110' 5-6>*.' 1 ',)*' -* 52 25' *?=*-1-⅛ *+*-6/) 5)' ?6206- 2.' 8*-*' >12+*-,*0',)-1;5)') * 1-,.' >) *'6?125' 8)1?' 86.' *;' 62' 1 >*-' 1 ',)*') 5)*.,' -629' 620' 1 '5-*6,' =*-.126/ 2/;*2>*⅛ >>' 0*0' 2' S ' 6,)*' 65*' 1 ' Q '620' 86.' D;-*0' 8 ,)' 5-*6,'=1?=' 620' .1/*?2,E⅛ 2' SKQ' O6?' >)66/' 6' 4*-?62' B*.;,' 6-- +*0' 620',)-1;5)',)*' 2 /;*2>*' 1A' *;' 86.' 6+1-6D/ ' -*>* +*0' D ' ,)*' *?=*-1-⅛ *-6,*,6/*2,.' 620' *L,*2. +*' 6>_;-*?*2,.' >6;.*0') ?' ,1' D*' -629*0' 6?125',)*' -.,' ?*2' 1 ',)*' *?= -*⅛ 2' SN ',)*' 1? 2>62.' 620' -62> .>62.' *2,*-*0') 26' D6,',)*' -' .;>>*..' 86.' 21,' +*- ' 5-*6,⅛ ()*' >6;.*')- ., 62 , '.;' *-,0' 6' 5-*6,'/1..' 2' SNK' 2',)*' 0*6,)' 1' *;⅛ 2' S ',)*' (6-,6-.' >1?=/*,*0',)*' >12_;*.,' 1') 26'620'8 ,)',)*' < 25'0 26., ',)*')- ., 62⁀? .^ . 12.' 6/?1.,'*L= -*0⅛ >/ 66/')18*+*-' D ') .' 5*2 ;.' 620'/*6-2 25'-1.*' 2,1' 6+1-'8 ,)',)*'2*8'0 26., '620' D ') .' 2 /;*2>*' 1D,6 2*0'=*-?.. 12' 1-' '1,)*-' ? .^ . 126- *.',1'*2,*-',)*'>1;2,- '6?125'8)1?'86.',)*'>*/^ *D-6,*0' *-0 2620' *-D**.,⅛ ()*'=6,-12'1 ' >)66/'0 *0'⅛ ,7-E7' *,8**2' ⅛ ⅛SNS'620' Q '.*+*2, ' *.,1- 625) ' 6.>*0*0',)*' >)-12*⅛ ? .. 126- *.' 6?125'8)1?' /1=;2'M6-- +*0' 2'SRSX' 86.' 0 .,25; .)*0' /6D1-*0' 2') 26⅛ ()*') .,1- ' 1 ',)*' *.,1- 62' ? .. 12.' .'5 +*2' 2' 62' 2.>- =,12'0 .>1+*-^ *0' 2' SK'D 'B*.;,' ? .. 126- *.' 2' C62 ;⅛ ,.'5*2;*' 2*2*..''/125'01;D,*0')6.' D**2' -*>*2,/ '0* *20*0' D ' D*/ *?;.6,'620' 1,)*-.⅛ 2' ',)*=6,- 6->)' 6/C *-6/ -62> .>62.'620'K 'B*.;,.' 8*-*'D62 .)*0',1' 62C

,12% *-D**.,'D*>6?*'6' 6 1-,*'1',)*'*?=*-1-' 62%''*, .% ;20% 2' Q N')*'86.'A1 2*0'D ',)*'[*6/1;.'620'/*k-2>0'<-%< /2*% ()*',-62./6, 12' 1',)*' *8'(*.^,6?*2,'86.'>1?=/*,*0' 2' Q 1'1',)*'8)1/*' D/*' 2' Q Q% 2' Q ',)*' -.,') 2*.*'>12+*-,'86.'D6=, [*0%' '+6/;6D/*'6.. .,62,',)*'? .. 126-*.' 1;20'6 ,*-86-0.' 2' *625C 6'MD6=, [*0'D ' < /2*' 2' Q 4X'8)1'0 .., 2^5; .)*0') ?.*/'6.',)*'6;,)1-'1'.*+*-6/+6/;6D/*',-6>,%I'620'D ') .' [*6/ 2' =-*6>) 25',)*' 41.=*/'620C 2' 0 .^,- D;, 25'D119.';,',)*'/,*-6- '*L6? 26, 12.% 2*' 1',)*'D119.'0 .,-D;,*0' 12',) .' 1>>6. 12' *// 2,1',)*')620.' 1',)*'/*60*-' 1',)*' 2.;-5*2,.' 620'86.',)*'1;206, 12'1') .' *6-/*.,')-., 62' ?=-*.. 12.% ()*' ?*- >62' ?.. 12.' %>1??*2>*0' 2' QKR' 8)*2',)*' ?*- >62' *6?*2.' -*20' 1> *, C.*2,'1;',81'0 .^. 126-*.'12*'1'8)1?'2'QN ',-62. *--*0',) .'.*-+>*.',1',)*' ?*- >62' 16-0' 1' 1?? .. 12*-.' 1' 1-* 52'< .. 12.' 8) >)' -1?',)6,', ?*')6.')60' 6' ? .. 12%6,' 62,12% ()*')*2 .)' < .. 126-' 1> *, '.*2,'1;,'6D1;,' QN '<-% 4;,[/6 '8)1'.112' D*>6?*'=*-*>,/'?6.,*-' 1',)*'/625;65*'620' ?60*' -*_;*2,'A1;-2*.'.',)-1;5)',)*'>16.,'>1;2,-*.' 1') 26% :*'86.'*.=*^>6// '6>,+*'2' >-;/6, 25',)*' >-=,;-*.'8)>)'8*-*'-*>* +*0'8 ,)'5-*6,'*65*-2*..% 2' QN ',)*' ?*- >62' -1,*.,62,' =.>1=6/);-_)'*.,6D/.)*0'6'?.. 12' 2' 6,6+ 6'8)>)' 2' Q K'86.'-*?1+*0',1'<6>61% ;-^ 25',) .' -.,'=*- 10',)*'>12, 2;6/')1.,/,'1',)*') ^2*.*'>1?=*//*0',)*' 25/.)' ?*- >62'620'4*-?62'? .. 126-*.',1'-*.,- >,' ,/*-'/6D1-.'?1.,/'.1',)*'=-2,^ 25'620'> ->;/6, 25'1')-., 62'D119.%I' *-?62*2,'.*,,/*?*2.,'8*-*'12/'?60*'6,'62,12'D;,'6,'<6/6>>66'6/.1'62' 25/1C)2*.*'>1//*5*'86.'1;20*0% ()*'=*6>*'1' 629 2' 2' Q K',)*'>*.. 12'1':125' 125',1',)*' 25/.)'620',)*'1=*2 25'1',)*' +*'=1-,.',1' ;-1=*62'620' ?*- >62')-.,62.'56+*'6'2*8' ?^=;/.*',1'?.. 126-A7'[*6/% ()*' 12012'<..126-A!' 1^>*.'56+*' 2.,-;>,12.',1',)*-')2*.*'?..126-*.',1'?**,' 2\':125' 125',1'>12.0*-',)*'=/62' 1-' ;,:-*'1=*-6,12.% 5-**6D/',1',)*-*>1?*?206,12.'1',).'?**,25'M ;5;.,'Q NX',)*' 25/1C)2*.*'>1//*5*' 2'<6/6>>6'86.'>)625*0'2,1'6',)*1/15>6/.*?26-'1-',)*7,26 2 25'1'6'26,+*'%? 2.,-% /.1',)*'=-2, 25'6==6-6,;.'1',)*'?..12'86.',-62. *--*0'-1?'<6/6>>6',1':125' 125'620'6'?*0>6/*.,6D/.)?*2,'1=*2*0'2'>122*>,12'8,)',)*'?..12% 2' Q N)625)6'86.'1>>;=*0'620'2' Q '?1% ()*' ?*- >62' 16-0'.,6,12*0'?..126-*.'6,' ?1' 2' Q K'620'6,' ;)C'>)6;'2' Q % ()*' ?*- >62' =.>1=6/ 16-0'7/1.>'?..126-A7' -% 112*'8)/*'12'6'+%.',,1',)*'$2,*0' ,6,*.')60'D**2'>12.*>-6,*0'?..126-A7'D.)1=' L*0'12')625)6'6.',)*'?1.,'.;,6D/*'.,6, 12% ,)*-'?.^. 126-'.1>*,*.')6.,*2*0',1'1>>;=',)*'2,*-*., 25' */0% ()*'1=*-6, 12.'1',)*' ?*- >62' 6=,.,'$2 12'>1??*2>*0'7(' Q KT',)1.*'1',)*' 1;,)*-2' 6=,.,' 12+*2, 12'M1' ?*- >6X'620'1',/A*'M ?*- >62X' -*.^ D ,*- 62' 16-0'2' Q ',)1.*'1',)*');->)< ..12^6-' 1>*,E'12*'1'8)1.*'?..126-*.' *+% 4*1-5*' ?,)'86.'6==1 2,*0'D.)1='1' >,1-6'2' Q RT'1',)*'4*2*-6/ 6=,.,'<..126-' 1>*,'M 25/620X'2' Q T',)1.*'1',)*'<*,)10..,' =.>1=6/);->)'2' ST',)1.*'1',)*'M ?*- >62X' *+*2,)C06' 6=,.,'2' Q T',)1.*'1',)*'<*,)10.,' =.>1=6/);->)' 10,)'2' Q QT',)1.*'1',)*' 25/.)' *./*62.'620',)*' -**');->)'1' >1,/620'2' Q % '()*' -.,' -1,*.,62,'?..12'6,' ;)C>)6;'86.'*.,6D^/.)*0'D'6'?..126-'1',)*' ?*- >62' 16-0'1' 1?^?..12*-.'1-' 1-* 52'<..12.'2'B62;6-' Q % ()*' = 7 12')6.'6+*-65*0',)-**'1-' 1;-' 6?/*.'.2>**,.'_1?7*2>*?*2,% 2' =-/'Q '1>>;--*0',)*' -.,'D6=^,.?'1'6')26?62'6,',) .'>,' 2' >122*>,12'8,)' -1,*.,62,'?.%.12.% 2'<6 'Q '6'D-,9'>);->)'7>6//*0',)*' ');->)'1',)*' 6+1;-J'D;/,'12',)*'?6.;'.,-**,' 2',)*' .1;,)*-2' .;D;-D.'620'6D1;,'12*'?/*'-1?',)*' 5' -05*'86.'0*0>6,*0',1',)*'81-.)='1'410% ,.' -.,'26,+*')>);->)'12. .,25'1'1;-'?*?^D*-.'86.'1-562[*0'2' >,1D*-'1',)*' *6-% 2'<6%C' QSN'6')>);->)'1'.*+1;'?*?D*-.'86.'1-?*0'6,')625C/1)'0.,62,'.*+*2,**2'?/*.'-1?',)*>,% 2



In the account of Herod's voyage to join Marcus Agrippa in the Black Sea, we are told (Josephus, *Ant.* xvi, 2, 2) that, after passing by Rhodes and Cos, he was detained some time by north winds at Chios, and sailed on to Mitylene when the winds became more favorable. It appears that during this stay at Chios Herod gave very liberal sums towards the restoration of some public works which had suffered in the Mithridatic war. This island does not appear to have any other association with the Jews, nor is it specially mentioned in connection with the first spread of Christianity by the apostles. When Paul was there, on the occasion referred to, he did not land, but only passed the night at anchor (Conybeare and Howson, *St. Paul*, ii, 211). At that time Chios enjoyed the privilege of freedom (Plin. v, 38; comp. xvi, 6), and it is not certain that it ever was politically a part of the Roman proconsular Asia. No record exists of its connection with Christianity in apostolic times; but after the lapse of ages we read of a bishop of Chios, showing that the Gospel had obtained a footing on the shores. Its length is about 32 miles, and in breadth it varies from 8 to 18 (having a periphery of 900 stadia, Strabo, xiv, 645, or 120 Italian miles, Tournefort, *Voy.* ii, 84). Its outline is mountainous and bold, and it has always been celebrated for its beauty and fruitfulness (Arvieux, *Voy.* vi, 169; Schubert, *Reis.* i, 414). It is very fertile in cotton, silk, and fruit, and was anciently celebrated for its wine (Pliny, xiv, 9; xvii, 34, 22; Strabo, xiv, 637; Horace, *Od.* iii, 19, 5; Virg. *Ecl.* v, 7; Athen. iv, 167; i, 32) and mastic (Pliny, xii, 36; xxiv, 74; Dioscor. i, 90). The principal town was also called Chios, and had the advantage of a good harbor (Strabo, xiv, p. 645). The island is now called by the Greeks *Khio*, and by the Italians *Scio* (Hamilton, *Researches*, ii, 5; Thevenot, *Travels*, i, 93; Chandler, *Asia Minor*, c. 16; Clarke, *Trav.* iii, 236; Sonnini, *Trav.* c. 37; Olivier, *Voy.* ii, 103). The wholesale massacre and enslavement of the inhabitants by the Turks in 1822 forms one of the most shocking incidents of the Greek war of independence (Hughes, *Tract on Gr. Revolution*, Lond. 1822). See also Malte Brun, *Geography*, ii, 86 sq.; Mannert, *Geogr.* VI, iii, 323 sq.; Hassel, *Erdbeschr.* xiii, 161 sq.; Cellarii *Notit.* ii, 19; Smith's *Dict. of Class. Geogr.* s. v.; M'Culloch's *Gazetteer*, s. v. Scio. See ASIA MINOR.

Coin of Chios.

Chis'leu (Heb. *Kislev'*, כִּסְלֵו, according to some, from Arabic, i. q. *lethargic;* according to others [Benfey, *Monatsnamen*, Berl. 1836], of Persic origin; and as it appears on the Palmyrene Inscription [ed. Swinton, *Philos. Transactions*, xlviii, tab. 29] in the form כסלול, i. e. *Kislul*, it probably represents the name of the third of the Amshaspands or celestial genii [Bournouf, *Commentaire sur le Yasna*, p. 146, 151, 174]; Sept. Χασελεῦ, Anglicized "Casleu" in 1 Macc. i, 54; iv, 59; Chaldee כִּסְלֵיו, Targ. on Eccl. xi, 3; Josephus Χασλεῦ or Χασλεβ, *Ant.* iii, 5, 4; 7, 6), the name adopted from the Babylonians, after the Captivity, by the Jews for the third civil or ninth ecclesiastical month (Neh. i, 1; Zech. vii, 1), corresponding to the Macedonian month *Apellæus* (Ἀπελλαῖος; see Spanheim in Havercamp's *Josephus*, ii, 407), and answering mainly to the moon of November. See MONTH. The following were the days specially memorable for religious exercises: On the 3d, a fast in memory of the idols which the Asmonæans cast out of the Temple; on the 7th, a fast instituted because king Jehoiakim burned the prophecy of Jeremiah, which Baruch had written (Jer. xxxvi, 23). Scaliger believes that it was instituted on account of Zedekiah's having his eyes put out, after his children had been slain in his sight. This fast Prideaux places on the 29th of the month; but Calmet, with the modern Jews, makes it the 6th, and places on the 7th a festival in memory of the death of Herod the Great, the son of Antipater. There is also some dispute whether this fast was not observed on the 28th of the month. It is an argument in favor of the earlier day that the other would fall in the middle of the eight days' Festival of the Dedication.

On the 25th, the *Chanuca*, or feast of Dedication (q. v.), so called (John x, 22), and kept as a minor festival in commemoration of the dedication of the altar after the cleansing of the Temple from the pollution of Antiochus by Judas Maccabæus, by whom it was ordered to be observed (1 Macc. iv, 59). This feast lasted eight days. A prayer for the world in general is offered up on the eighth day of the feast. In this month the winter prayer for rain commences; the precise day is sixty days after the autumnal equinox, by the calculations of Rab Samuel, which varies from the 2d to the 6th, but is generally on the 4th of December. See CALENDAR.

Chis'lon (Heb. *Kislon'*, כִּסְלֹן, *confidence;* Sept. Χασλών), the father of Elidad, which latter was one of the princes of Benjamin, selected on the part of that tribe by Jehovah to divide Canaan (Num. xxxiv, 21). B.C. ante 1618.

Chis'loth-ta'bor (Hebrew *Kisloth' Tabor'*, כִּסְלֹת תָּבֹר, *flanks of Tabor;* Sept. Χασαλωθθαβώρ v. r. Χασελωθαίθ and Χασαλὼθ-βαθώρ, Vulg. *Ceseleth-thabor*), a place to the "border" (גְּבוּל), of which the "border" (גְּבוּל) of Zebulon extended eastward from Sarid on the southern boundary (Josh. xix, 12), apparently outside its territory, at the western foot of Mt. Tabor. See TRIBE. It is probably the same elsewhere called simply CHESULLOTH (Josh. xix, 18) and TABOR (1 Chron. vi, 7), and seems to be identical with the *Chesalus* (Χιαλοῦς, Chasalus) of the *Onomasticon* (s. v. Ἀχισελώθ, Achaseluth; comp. s. vv. Χισελαθθαβώρ, Chaselatabor; Χασελοῦς τοῦ Θαβώρ, Chaselath), near Mt. Tabor, in the plain [of Esdraelon], 8 R. miles E. of Diocæsarea; also with the *Xaloth* (Ξαλώθ) mentioned by Josephus (*War*, iii, 3, 1; comp. *Life*, 44) as a village in the great plain, and one of the landmarks of lower Galilee (comp. Zunz, *On the Geography of Palestine from Jewish Sources* in Asher's Benj. of Tudela, ii, 432; and Seetzen's *Reisen durch Syrien*, iv, 311). See AZNOTH-TABOR. It is doubtless the modern *Iksal*, seen by Dr. Robinson on his way from Nablous to Nazareth, "in the plain toward Sahor, on a low rocky ridge or mound, not far from the foot of the northern hills, described as containing many excavated sepulchres" (*Researches*, iii, 182). It was also observed by De Saulcy, while passing through the plain of Esdraelon towards Nain, "to the left, and distant a little more than a league, built at the foot of the mountains of Nazareth" (*Narrative*, i, 74). Pococke (ii, 65) mentions a village which he calls *Zal*, about three miles from Tabor.

Chittah. See WHEAT.

Chit'tim (Heb. *Kittim'*, כִּתִּים, a Gentile plur. form of foreign origin, Gen. x, 4; Sept. Κίτιοι, A. V. "Kittim;" Num. xxiv, 24, Κιτιαῖοι; 1 Chron. i, 7 ["Kittim"], and Dan. xi, 30, Κίτιοι v. r. Ῥωμαῖοι; Isa. xxiii, 1, Κητιαῖοι v. r. Κιτιαῖοι; or in the longer and more properly national form *Kittiyim'*, כִּתִּיִּם, Jer. ii, 10, Κεττιείμ; מִכִּתִּים, Isa. xxiii, 12, Κητιείμ v. r. Κιτιεῖς; בִּכִּתִּים, Ezek. xxvii, 6, Χεττιείμ v. r. Χιτιείμ), a branch of the descendants of Javan, the son of Japheth (Gen. x, 4; 1 Chron. i, 7), closely related to

,) .' 1062 ? '620'-* ? 1,*/ 'M6.' ' ? 6 '>12>/;0*' -1?' ,) *' 6D.*2 >*' 1 ',) *' >12A;2>, 12' D* 1-*' ,X' ,1',) *' 1,)*-' 0*.>*2062,.' 1 'B6+62' M.**' : //*-' $ '+ f' =% N X% 6/66?' 1-*,1/0' ,) 6,' .) =.' .)1;/0' >1?*' -1?' ,) *' >16.,' 1 ') ,, ? ' 620' .)1;/0' 6 / >,' ..) ;-' \,) *' . . - 62.h ' 620' 6 / >,' D*-J' \,) *' :*D-*8 .h' M ; ?% LL + 'K X' ,) ; .' 1-*,*// 25' ,) *' 4-*> 62' 620' 1^ ?62' 2+6. 12.% 62 */ =-1=)*. *0' M. ' NX' ,) 6,' ,) *' .) =.' 1 ') ,, ?' .)1;/0' >1?*' 656 2.,' ,) *' 9 25' 1 ' ,) *' 1-,) '620' ,) 6,') *' .)1;/0' ,)*-* 1-*' D*' 5- *+*0' 620' -*^ , ;-2 ' 8) >)' 86.' ;/ //*0' 8)*2' 2, 1>) ; .' = =)62*.' I,)*' 9 25' 1 ' - 6 ') 6+A25' 2+60*0' 5 =, ' 86.' D ' ,) *' 1?62' 6?D6..601-.' >1?? 620*0' ,1' 0*. .,' 620' 8 ,)^ 0-*8' ,1') .' 182' >1;2,-EIC M + 'L/ + 'KR'A L/+ ' X% 2' .6% LL ' K ' ,' 6==*6-.' 6.' 6' -*.1-,' 1 ',) *' /**,.' 1 ' (A -*T' 2' B*-% ' ' ,) *' .A*.' M ` GZ' % *% ' 8' 1 ') ,, ? 16-*' ,1' ,) *' 6-' 8*.,' 6.' *06-' ,1' ,) *' *6.,' 1 ' 6/*., 2*' ' ,) *' (- 62.' =-1>;-*0' ,) *2>*' ,) *' >*06-' 1-' D1LC8110' 8) >)',) * ' 2/6 0' 8 ,)' +1- ' 1-',) *' 0*>9.' 1 ',) * -' +*..*/.' M [*9 ' LL+ ' ' % % ,) *' >1?=62 ' 1 ',) *' .) ; -, *. J' D ; ,' -6,) *-' \ +1- h' " ' " ' = 1' % *% 2>/1.*0' 2' ,X% ,' 6' /6,*-' =*- 10' ,) *' 26?*' 86.' 6==/ *0' ,1' ,) *' < 6>*012 62.' ; 20*-' /*L620*-' ,) *' 4-*6,' M ' <6>>' ' ' d -- ,>> ' % %) *,, ?JX' 620' *-.*; .' M+ ' ' ,-, 8-' , ? .JX% 2' ,) *' 6 ; ,) 1- , ' 1 'B1.*=) ; . ' 8) 1' .' 1//18*0' D ' = C =) 62 ; .' >#' LLL 'K '=% X' 620' B*-1?*' >D1 f' ' ? 'LX' , ') 6.' 5*2*-6// ' D**2' 60? ,,*0' ,) 6,' ,) *') , ^ , ?' ? 5-6,*0' -1?') 1*2 > 6' ,1' A =-; . ' 620' 1; 20*0' ,) *-*' , 182' 1 ' ' ,) *' ?10*-2' " S ' ,*,) C ? ; .' =1..*..*0' ,) *' ./620' 1 ') *,) ?6 ' 8) >)' .' 218' >6//*0' =-; . ' 620' -1?' ,) .' 6//' ./620.' 620' ?6- , ?*' =/ >*.%6->' >6//*0') *,) ?' Md*7V=X' D ' ,) *' : *D-*8 .J' MB1.*=) ; .' & f' ' XT' ,) *-' 62> *2,' 8- , *-.' , ' ?6 ' D*' -*?6-9*0' .=*69' 1 ' ,) *' , 62.' 6.' 6') >*2 > 62' >1/^ 12 'M / 2 ' 'N T' LLL 'NRT' ,-6D1 ' L+ ' 4QKT' >*-1' ' '@ ' +' K X% 1>1>9*' >1= *0' 6,' , ; ?' ,) -, C ,/ ->>' 2.>- =, 12.' 2') >*2 > 62' >)>6-6>,*-. '1 '8) >)' 62' *25-6+ 25' .' 5 +*2' 2') .' ' % ' '" ' 6 ' M ' K NX' 620' 8) >)') 6+*' ?1-*' -*>*2,/ 'D**2' *L=/6 2*0' D ' 4*.*2 ;.' 2') .' ! f' M=% K C NNX% -1?' ,) *' ,182' ,) *' 26?*' *L,*20*0' ,1' ,) *' 8) 1/*' ./620' 1 ' =-; . ' 8) >)' 86.' 1>>;= *0' D ') 1*2 > 62' >1/12 *. ' 620' -*?6 2*0' ; 20*-' (-*' >*-,6 2/ ' ; 2, /' 6D1 ; ,' % % K 'MB1.*=) ; . ' & ! ' L ' KX% ! & ,) ' ,) *' 0*>6 ' 1 ' ,) *') >*2 > 62' =18*-' M> ->% % % S X' ,) *' 4-**9.' D*562' ,1' 1 ; 20' /1 ; - .) 25' .*, , /*?*2, .' 12' , .' >16.,.' 6.' ,) *') 60' 6/.1' 012*' 2' -*, *') 10*.' 620' ,) *' ./620.' 1 ' ,) *' %75.*62' *6% ( ) *' 26?*') ,, ? ' 8) >)' 2' ,) *' -.,' 2^ .,62>*' ; 0' 6==/ *0' ,=') 1*2 > 62.' 12/ ' M 1-' 0 ,2 ' ba' # ' 6' D-62>)' 1 ' ,) *' 62662 , .)' -6>* ' 4*^ .*2 ; .' '/ 'D 1 f' ' K ' ._ %X' =6..*0' 1+*-' ,1' ,) *' ./620.' 8) >)' ,) * ') 60' 1>>; = *0' 620' ,) *2>*' , 1' ,) *' =*1=/*' 8) 1' .; >>**0*0' ,) *') 1*2 > 62.' 2' ,) *' 1>>; =6^ , 12' 1 ' ,) *?% % ( ) *' ; .*' 1 ' ,) *', *-?' 86.' *L,*20*0' *, ' 6-,) *-' .1' 6.' , 1' *?D-6>*' ,6/ 'M 1>)6-,' " ' ' >1?=6-*.' ,) *' ' >-\6' 2' 6, ; ?' ?*2, 12*0' D ' 12 .% : 6/% + '>% NSX' 6>>1-0 25' , 1' ,) *' *=, % M 62%' 620' ,) *' ;/56, *' M ; ?% 620' 62%X' 8) >)' 8*' ?6 ' 600' ,) *' -*20*- 25' 1 ' ,) *') 6/0*' (6-5; ?' 8) >)' 5 +*.' 'MA 70 ZX' 2' ') -12% ' '620' &% ' 2' [*9% LL+ ' % 2' 62' *,) 21/15 >6/' =1 2, ' 1 ' + *8 ') ,, ?' 6..1> 6, *0' 6.',) *' 26?*' .' 8 ,) ' B6+62' 620' / C .)6)' ?; .,' D*' -*56-0*0' 6.' 6==/ 25' 21,' , 1' ,) *' 1- 5 26/) 1*2 > 62' .*,,/*-.' 1 ' =-; . ' D ; .' , 1' ,) *' -6>*' 8) >)' . ; >>**0*0' ,) *?' + [% ,) *' 6- 62. ' 8) 1' 8*-*' 8 0*/ ' 0 .^ =*-.*0' 1+*-' ,) *' < *0 ,*--62*62' >16.,.' 620' 8*-*' .*,,/*0' 2' ,) *' >/60*.' M ( ) ; > O% ' X' -*, *' M : *-10 ' ' X' 620' // ,) *' ./620.' >6//*0' <6>6- 6.' 2. ; /-1 ' =*-)6=.' 6.' D* 25' ,) *' -*. 0*2>*' 1 ' ,) *' 6- 62.% -1?' ,) *.*' ./^ 620.' ,) * ' 8*-*' 0 .=/6>*0' D ' ,) *' 1- 62.' 620' /12 62.' M : *-10% R' >%X' 620' *? 5-6, *0' , 1' ,) *' ?6 2' /620' 8) *-*' ,) * '1>>; = *0' ,) *' 0 .,- *D26?*0' 6 , *-',) *?% ( ) *' 5> ' 6? / ' ,) 1; 5) - 62.' 8*-*' >122*>, *0' 8 ,) ' ,) *' */*5*.' 620' ? ; .,' D1' >12. 0*-*0' 6.' -*/6, *0' , 1' ,) *' */6.5 >' 6? / ' ,) 1; 5) _ ; , *' 0 ., 2>,' -1?' ,) 1' : *//*2 >' D-62>)' M 21D*/' (B' + 3' =% R ' ._ %X% : *25.,*2D*-5') 6.' /6,*/ ' *20*6+^ 1-*0' MVV. % ' ; ' ' =% X' , 1' =-1+*' ,) 6,' 2' *+*-' =6..65*' 2' , / *' /0' (*.,6?*2,' 8) *-*' ,) *' 81-0' 1>>; .-' ,' ?*62.' =-; . ' 1-' ,) *' =-62.% ( ) *' ?1.,' =-1D6D/*' + *8 ') 18*+*-' .' ,) 6,' *L=-*..*0' D ' ,,1a' 7) ,, ?' .**?.' , 1' D*' 6' 26?*' 1 ' /6-5*' .5^ 2 >6, 12' M.; >) ' 6.' 1 ; -' *+62, X' 6==/ *0' , 1' ,) *' ./620.' 620' >16.,.' 1 ' ,) *' < *0 , *--62*62' 2' 6' /11.*' .*2.*' 8 ,) ^ 1 ; ' L 25' ,) *' =6-, >; /6-' =6-, ' ,) 1; 5) ' =6-, >; /6-' 620' 0 >-*2,' =6-, .' 1 ' ,) *' 8) 1/*' 6-*' =-1D6D/ ' 2' ?1..' >6.*.' , 1' D*' ; 20*-.,110J' > f' ; '21,*' 12' [*9% LL+ ' X% M 1-' ; -,) *-' 0 .>; .. 12' .**' < >) 6*/ .' $% ' ' C ' NC ' 6/.1' $ %% f' =% NQ' N C NQ ' 4*^ .*2 ; .' -" f' =% K%4' 8,12' , ' " ' % " ' +' 1.*2?; //*-' ; f' ? ' 'N Q%X ** > ' #!) ; 2' M : *D%) (' 6' 81-0' ,) 6,' 1>>; -. 12/ ' 12>*' 2' ,) *' >- =, ; -*. ' 620' ,) 6,' 2' 62' 1D.>; -*' 620' +6- 1; ./ C 2,*-=-*,*0' =6..65*' M ?1.' + ' KSX' ; ,' *') 6+*' D1-2*' ,) *' , 6D*-26>/*' 1 ' 1 ; -' ' 620' " = 'E?; -' ?65*. ' ,) *' , 6-' 1 ' 1 ; -' 510' 8) >)' *' ?60*' ,1' 1 ; -. */+*. % J' ( ) *' *=, ' , -62./6, *. ' , ' 6.' 6' =-1=*-' 26?*' " %" ' M 6 7B 7' 1-' 8) >)' D*>6?*' ., // ; -,) *-' >1--; =, *0' 2, 1' (N % % 8' 620' , ' ._ ; 1, *0' 2' ,) 6, ' 1-?' D ' , *=) *2' M >, ' + ' NX% *' ' / ' f' ( ) *' - 6>' , -62./6, *. ' , ' D ' $ ' 8) 1?' ,) *') *? , >' 26^ , 12.' 6-*' 92182' , 1') 6+*' 81-.) ==*0% ; ,' ,' 6==6-^ *2, /' .' ' 6' =-1=*-' 26?*' 6, ' 6// ' D* 25' 0*- +*0' -1?' ,) *' -11, ' " ' , 1' ; =-5) , ' 620' ,) *-* 1-*' . 5^ 2 *.' . ?=/ ' 6' ' 1-' 01/ ' 6.' ,) *' , 156, *' -*20*-.' , M 2' >122*>, 12' 8 ,) ' ,) *' 1//18 25' 81-0X' 01/1-; ?' +*.,-; ?% J' ( ) *' .6?*' .' =-1D6D/ ' , -; *' 1 ' ,) *' 81-0' -*20*-*0' <1/1>) J' 2' ,) *' .6?*' =6..65*' .1' ,) 6, ' *' 8) 1/*' ?6 'D*' , -62./6, *7' M8 ,) ' 4*.*2 ; .X' *' D1-*' ,) *' , 6D*-26>/*' 1 ' A?; -' " ' 620' ,) *' ., 6, ; *' 1 ' 1 ; -' ' ,) > ' ., 6-' 0 ' 1 ; -' 510' 8) >)' *' ?60*' At 1 ; -^ .*/+*.' TJ' -* *-- 25' 21, ' , 1' 62 ' .=*> >' 0*, ' D ' 26?*' =1 ' , 1' ,) *' .*>-*, % 01/6, -1 ; .' =-6>, >*.' 8) >)' ,) *' 8*.' 9*=, ' ; =' 6/125' 8 ,) ' ,) *' 81-.) =' >122*>, *0' 8 ,) ' ,) *' 0 + =*' 6-9' 2' ,) *' 8 /0*-2*.. ' 620' 8) >)' -*6==*6-*0' 2' 0 *-*2, ' 1-?.' -1?' , ?*' , 1' , ?*' 2' ,) *-06, *-') .,1- % *' ! f' *, ' 6.' 6' .,6-J' .' ?*2, 12*0' , ') 6.' 26, ^ ; -6// ' D**2' 2 *--*0' ,) 6, ' , 2*' &1-.) =' 1 ' % ' .' 6//; 0*0' , 1' 620' ,) .' B*-1?*' .; ==1.*0' , 1' D*' ; > *-' 1-' *2; .' % 6 6-0' ,) 29.' , /*' 26?*' 0*2, >6/' 8 ,) ' ,) 6, ' 1' ,) *' 5 =, 62' 5100*..') ' 5 ; -*0' 12' ,) *' 5 =, 62' 620' .. - 62' ?12; ?*2, .' 2' ,) *' >) 6-6>, *-' 1 ' .,6-, *' 1-' *2; .' I7 "' ' SRX' D ; , ') *' 60?, .' ,) 6, ') *-' 81-.) =' 86.' D1--18*0' -1?' .. - 6' 2, 1' 5 =, ' 6, ' 6' =*- 10' /6, *-' ,) 62' ,) *' L10; .' M=% X% 2' ,) *' 8) =/*' ,) *' 6D1+*' .; ==1. , 12' ,) 6, ' ,) *' =/62*, ' 6, ; -2' .' 2, *20^ *0' .' ,) *' 271..' =/6; . D/*' 6/,) 1; 5) ' ,) .' 2, *-=-*, 6, 12' >6221, ' D*' .; >>*.. ; // '0* *20*0' ?*-*/ ' -1?' ,) *' 26= *' *,) *-' 2' ,) *' 1-?') ; ?' 1-' *?=) 62% M *>' <6 ; .' 2') .' $ f' 6 2f' ' SN' ._ %T' B6) - ' ' ' D '\ C' ,*D% hT' : 6-*2D*-5' ' ' ' " ' ' 5 %" ' \ -; 2.8% KNhT' <*-' ' ' ' ' " ' & f' *, % \60' /1>%h ' \ /*/?..% KShT' & 1/ ' ' ' ' #' 5I A' %" ' \ =.% hT' -6; 2' $ ' $ ' =% ' ._ %X' ** % ($ %) /1 *' IOO *' '6' >/6.%. >6/ 26?*X' 6' *?6/*')-., 62' ?*2, 12*0' I 2 ' 1-% ' ' .1?*' 1 ' 8) 1.1') 1; .*) 1/0' : $ ' * ' 77 @ '8) *-*',) *-*' .' 01; D, /*.' 62' *// =. .' 1 ') DN' >1?=% 1?% L+ ' X') 60' 2 1-?^ *0' ,) *' 6=1.. /*' 6; / 1 ' ,) *' 6>, ' ,) 6, ' ,) *-*' 8*-*' 0 + ^ . 12.' 2' ,) *' 1- 2,) 62') ; ->) % % %) *' .' . ; =^ =1.*0' D ' ( ) *1=) /6>, ' 620' 1,) *-.' , 1') 6+*' D**2' 62' 2^) 6D, 62, ' 1 ' 1- 2,) T' D ' ., ; . ' .1?*')- ., 62' 81?^ 62' 92182' , 1' ,) *' 1- 2,) 62.' */.*8) *-*T' D ' < >) 6*/ .' 620' < * *-' 62' =) *. 62') 6+ 25' - *20.' 6, ' 1- 2,) % ** ' ' > / ' !) 16>) % **W : %) 1 D 6' Md 8 VNOT' ; /5' 1? ,..X' 6' =/6>*' ? *2, 12*0' 2' B ; 0 ,) ' + ' 6==6-*2, /' . ; ; 6 & ' 2' ,) *' >*2, -6/ =6-,' 1 ' 6/*., 2*% ,' .' =-1D6D/ ' ,) * (6? *' =/6>*' 6. I

) 1 D 6 ’ MdOPA -, X’ 8) >)’ 1>>; -.’ 2’ B ; 0 ,)’ L - ’ ’ ’ M 2’ ,)*’ /6,,*-’ +*-.* d6PWNOX% ( ) *’ 26 ? *’ . ; 55* . .. ’ ,)*’ % ·’ M_’ %X’ 1 ’ 4 *2% L + ’ ’ 8) >)’ 65-**. 8 ,)’ ,)*’ -*60 25’ 1 ’ ,)*’ - 6>X ’ *.=*> 6// ’ 2’ >122*>^ , 12’ 8 ,)’ ,)*’ ? *2, 12’ 1 ’ 6 ? 6. > ; .’ 2’ +*-.* ’ ’ ,)*’ 0 .,62>*’ -1 ? ’ ,)*’ =-1D6D/* ’ . ,*’ 1 ’ *,) ; / 6’M_%’+%X’8 *-*’ 21,’ ,11 5 -*6,% 62’ 0*’ */0*’ . ; 55* . .. ’ MBV, 81 ’ =% N X’ ,) 6, ’ , ’ .’ =-1D6D/ ’ ,)*’ ? 10 * ? ’) " ’ 6’ + /^ /65*’) 1 ; -’ % 1 ’B*2 2 ’ 12’ ,)*’) 5) 8 6 ’ ,1’ *D ; . , C *)’ 1-’ 6226-/6’ I17 1’ ’ NSQT’ >1 ? =% ,* 8 6-, ’ - ’ ’) " 1’=% K T’ 1D 2.12 ’ ’ 5 " 1’=% K K X%

) > * 2 [’ -*20*-*0’ ’ ? *6. ; -*J’ 2’ 1 ; -’ +*-^ . 12’ *+%’+ ’ X’ 6’ 4 -**9’ ? *6. ; -*’ 1 ’ >6=6> , ’ * _ ; 6/ 2’ 0- ’ >1 ? 10 , *.’ ,1’ 12*’ * 5) ,)’ ,)*’ ? 10 ; . ’ M. **’ 8 $ ’ 3’D ; ’ ,+6- 25’ 6>>1-0 25’ , 1’ 0 *-*2, ’ 62> *2, ’ 6 ; ,)1-. ’ -1 ? C 12*’ 620’ 6’) 6/ ’ ,1’ , 81’ = 2, .’ 25/ .) % **’ #!

) 1 -’ M 4 -% ( ) *’ 4 -**9. ’ 6==/ *0’ ,)*’ , *-? >)1-; . ’ , 1’ 6’ > -> ; /6-’ 062>*’ =*- 1-? *0’ 0 ; - 25’ .6>- >*.’ D ’ 6’ >1 ? =62 ’ 1 ’ . 25*-.’ 6-1 ; 20’ ,)*’ 6/, 6-’ 1 ’ 6’ 0* , F% 6, *-’ , ’ 86. ’ 6==/ *0’ , 1’ ,) . ’ D10 ’ 1 ’ . 25 25’ 062>*-.% >, 1-.’ 6 , *-86-0. ’ 8 *-*’ 2, -10 ; >*0 ’ 8) 1’ -*/6, *0’ .1 ? *’ ? ,)’ 1-’ /*5*20’ 1 ’ ,)*’ 0* , ’ D*, 8 **2’ ,)*’ .125. ’ 1 ’ ,)*’ >)1-; . ’ ,) ; . ’ /6 25’ ,)*’ 1 ; 206, 12’ 1 ’ ,)*’ 4 -**9’ 0-6 ? 6% 2’ ,)*’ =*- *>, *0’ 0-6 ? 6 ’ ,)*’ >)1-; . ’ M>1 ? =1. *0’ 1 ’ , ’ =*-.12. ’ 2’ ,)*’ , -65*0 ’ 620’ 1 ’ , 8 *2, C 1 ; -’ 2’ ,)*’ >1 ? ^ *0 X’ 1>>; = *0’ 6’ =1. , 12’ 2, *-? *0 6, *’ D*, 8 **2’ ,)*’ 6>, ^ 1-.’ 620’ ,)*’ 6 ; 0 *2>*’ 5 + 25’ 2’ 6’ -*> , 6, +*’ ? 622*-’ -6,) *-’ ,) 62’ 2’ 6’ .125’ >1 ; 2. */’ 86-2 25 ’ *2>1 ; -65*^ ? *2, ’ 1-’ >12. 1/6, 12’ , 1’ ,)*’ 6>, 1-. %

? /6-’ D10 *.’ 1 ’ . 25*-.’ 6, , *20*0’ ,)*’ -*/ 5 1 ; .’ 1D^ .*-+62>*.’ 1 ’ 2*6-/E ’ 6// 26, 12. ’ 1 ’ 62, _ ; , % 2’ ,)*’ B*8 .)’ 81-.) =’ ,)*’ ’ 8 *-*’ .=*> 6// ’ =-1 ? 2*2, ’ 6 , *-’ ,)*’ , ? *’ 1 ’ 6+ 0 ’ D* 25’ >1 ? =1. *0’ 6, ’ , ? *. ’ 1 ’ ’ . 25*-.’ 620’ KQQ’ /*60*-.% P

% 2’ ,)*’ 0*+*/1=? *2, ’ 1 ’ ,)*’ - , ; 6/ 2’ ,)*’)- ., 62’ >) ; ->)*. ’ ,)*’ D10 ’ 1 ’ . 25*-.’ -*>* +*0’ ,)*’ .6 ? *’ 26 ? *’ 1 ’ " ! ( )*’ -*2>)’ ? 10 >6, 12’ 1 ’ ,)*’ 81-0 ’ " 1’=6. .*0’ 2, 1’ ,)*’ 1-? 62’ 620’ *6-/ ’ 25/ .)’ 6. ’ 4 1-’ " ! C()*’ 1- 5 26/’ , *-?’ " ’ .’ 218’ 6=^ =/ *0’ , 1’ 6’ D10 ’ 1 ’ . 25*-.’ >6-- 25’ 6//’ ,)*’ =6-, . ’ 1 ’ ? ; ^ . >’ // 0 ., 2>, 12’ -1 ? ’ .1/1 ’ 0 ; *, ’ 1-’ _ ; 6-, *, ’ . 25*-.’ 6/.1’ , 1’ ,)*’ =1-, 12’ 1 ’ ? ; . >’ . ; 25’ D ’ ,) .’ >)1-; .% ( )1’ , 81’ ? 1.’ 21, *0’ " ’ 1 ’ ,)*’ =-*. *2, ’ 06 ’ 6-*’ ,)6, ’ 1 ’ ,)*’ 6, >62’ 2’ 8) >)’ ,)*’ .1=-621’ 620’ 6/, 1’ 6-*’ . ; 25’ D ’ *; 2; >) . ’ 620’ ,)*’ >)1-’ 1 ’ ,)*’ 6,)*0-6/’ 1 ’ *-/ 2 ’ 2’ 8) >)’ ,)*’ .1=-621’ 620’ 6/, 1’ 6-*’ . ; 25’ D ’ D1 .% 2’ ,)*’ 25/ .)’) ; ->) ’ ., - >, /AW’ ,)*’ , *-? ’ 0*21, *. ’ 6’ D10 ’ 1 ’ ? *2’ . *, ’ 6=6-, ’ 1-’ ,)*’ =*- 1-? 62>*’ 1 ’ 6/’ ,)*’ .*-+ >*. ’ 1 ’ ,)*’) ; ->)’ 2’ ,)*’ ? 1. , ’ .1/*? 2’ 1-? % -1=^ *-/ ’ .=*69 25 ’ ,)*’ 8) 1/*’ >1-=1-6, *’ D10 ’ 1 ’ 6’ >6,) *0-6/ ’ 2>/ ; 0 25’ >6= , ; /6-’ 620’ /6 ’ ? *? D*-. ’ 1-? . ’ ,)*’ >)1 - ’ 620’ 2’ ,) . ’ *L, *20*0’ .72. *’ 62> *2, ’ 8 - , *-. ’ -* _ ; *2, / ’ ; . *’ ,) *’ 81-0% ; , ’ 2’ , .’ ? 1-*’ -*. , - > , *0’ .*2. *’ 8*’ 6-*’ , 1’ ; 20* C. , 620’ ,) 6, ’ D10 ’ 1 ’ ? *2’ 620’ D1A7’ 8) 1’ 1-? ’ 6’ =6-, ’ 1 ’ ,)*’ 1 ; 206, 12’ 1 ’ ,)*’ =/6>*. ’ 620’ 8) 1. *’ .=*> 6/ 0 ; , ’ , ’ .’ , 1’ =*- 1-? ’ ,)*’ .*-+ >*’ , 1’ ? ; . >% ( )*’ >)1 -’ =-1=*-/ ’ >12. .. , ’ 1 ’ >’ /*-5 ? *2 ’ /6A22*2 ’ 620’ >)1-^ . , *-’ D1 . ’ 620’ .) 1 ; /0’) 6+*’ 6, ’ /*6. , ’ . L’ ? *2’ 620’ . L’ D1 . ’ ,) . *’ D* 25’ *. . *2, 6/ , 1’ ,)*’ 0 ; *’ =*- 1-? 62>*’ 1 ’ ,)*’ >)62, . ’ .*-+ >*. ’ 620’ 62,) *? . % +*- ’ >)1 -’ . ’ 0 + 0*0’ 0’ 2, 1’ , 81’ =6-, . ’ ., 6, 12*0’ 12’ *6>)’ . 0*’ 1 ’ ,)*’ >)621*/’ 2’ 1-0*-’ , 1’ . 25’ 6/, *-26, */ ’ ,)*’ +*-. *.’ 1 ’ ,)*’ =. 6/? . ’ 620’) ? 2. ’ 12*’ . 0*’ 62. 8 *- 25’ ,)*’ 1,) *-%

K% ( )*’ , *-? ’ " ’ .’ 6/. 1’ 6==/ *0’ 2’ 1 ? 62’ >) ; ->)^ *. ’ . 1’ ,) 6, ’ =1-, 12’ 1 ’ ,)*’ >) ; ->)’ *0 >*’ 6//1, *0’ , 1’ ,)*’ . 25*-.’ 2*6-/ ’ 626/151 ; ’ . 1’ ,) *’ >)62>*/ M_%’+%X’1 ’ -1, ^ *. , 62, ’ >) ; ->) *.% ( )*’ >)1 -’ . ’ ; . ; 6// ’ 2’ ,)*’ 6=. .’ M_% %X’ D*) 20’ ,)*’) 5)’ 6/, 6-’ 6, ’ ,)*’ *6. , ’ M 2’ ,)*’ *6-/ *-’ >) ; ->) *.’ 2’ ,)*’ 8*. , X’ *20’ 1 ’ ,)*’ >) ; ->) % ’ . ’ 5*2*-^ 6// ’ 5/*+6, *0’ 12*’ . , *=’ 6D1+*’ ,)*7 7+*/ 1 ’ ,)*’ -*. , ’ 1 ’ ,)*’ *0 >*% . ’)6. ’ 6. , ’ /*6. , ’ 12*’ -18’ 1 ’ . *6, . ’ 1-’ . , 6// . % ! &) *2 ,)*-*’ . ’ ? 1-*’ ,) 62’ 12*’ -18 ’ *6>)’ -18’ . ’ 6’ . , *=’ 6D1+*’ 7) 6, ’ D* 1-*’ , 7 2’ ,) . ’ - , I ; 6/ . *2. *’ % ’ ’ " ’ 1’ ,)*’ >)1 -’ . ’ .1-2*, ? _ . ’ *. =*> 6// ’ 2’ >-; >C 2 %C

1-? ’ >) ; ->)*. ’ ; 20*-’ ,)*’ , 18*-’ 1-’ 2’ -12, ’ 1 ’ ,)*’) 5)’ 6/, 6-% 6-5*’ >6,) *0-6/. ’ 6/. 1’ 1 , *2’) 6+*’ .*+*-6/ >)1 -.’ 1-’ >)6=*/. ’ 1-’ . 25 25’ ? 6. . % 2’ 4 -**9’ 620’ -’ ? *2 62’ >) ; ->)*. ’ ,)*’ ., 6//. ’ 1-’ ,)*’ . 25*-. ’ 6-*’ ; . ; 6/^ / ’ 2’ ,)*’ 26+*’ 1 ’ ,)*’ >) ; ->) ’ , 1’ ,)*’ -5) , ’ 620’ /* , ’ 1 ’ ,)*’ -12, ’ 1 ’ ,)*’ 6/, 6-% 2’ 2 ; 22*- * .’ ,)*’ >)1 -’ .’ 6 =6-, ’ 1 ’ ,)*’ >) ; ->) ’ .*=6-6, *0’ -1 ? ’ ,)*’ -*. , ’ D ’ 6’ .>-**2 ’ 8)*-*’ ,)*’ 2 ; 2. ’ >) 62’ ,) *’ .*-+ >*%

N% 2’ -1, *. , 62, ’ >) ; ->)*. ’ 5*2*-6// ’ ,)*’ 81-0’ 0*. 5^ 26, *. ’ ,)*’ D10 ’ 1 ’ . 25*-. ’ >1 ? =1. *0’ D1,)’ 1 ’ ? 6/*. ’ 620’ *? 6/*. ’ 8) 1’ >120 ; >’ , ,)*’ >125-*56, 126/ . 25 25’ 8 ,)’ 1-’ 8 ,) 1 ; ’ ,)*’ 6 0’ 1 ’ 62’ 1-562% ( )*’ 26 ? *’ .’ 6/. 1’ 5 +*2’ , 1’ ,)*’ =/6>*’ 2’ ,) 1’ >) ; ->)’ 1>>; = *0’ D ’ ,)*’ . 25^ *-% **’ 25) 6 ? ’ , ! 6 ! D >% + ’ >)% + ’ g’ T’ *-5 *-P’ ’ ’ -" 1’ ’ S %

) 1 -C 8 6// ’ 1-’) 1 -C . >-**2 ’ . ’ ,)*’ 8 6/! 1-’ .>-**2’ 1 ’ 8110 ’ ? *, 6/ ’ 1-’ .,12*’ 8) >)’ 0 + 0*. ’ ,)*’ >)1 -’ 1-’ =-*. D . ,*- ’ -1 ? ’ ,)*’ -*. , ’ 1 ’ ,)*’ >) ; ->)% ’ , ’ . ; 6// ’ 1-26 ? *2, *0’ 1 , *A/ 8 .)’ 5-*6, ’ D*6 ; , %

) 1 % **’ !

) 1/*0% **’ " !

) 1/ 2% **’ 0 $

) 1 ? * % **’ % !

) 1 ? *, % **’ !

) 11. *% **’ · !

) 1-% *1’) !

) 1-6/% M %X’ ( ) . ’ , *-? ’ . ’ 6==/ *0’ , 1’ ,) 6, ’ =1-, 12’ 1 ’ ,)*’ .; -5 ’ 1 ’ ,)*’ 1? 62’ 620’ 1,) *-’ >) ; ->)*. ’ . ’ ; ’ 8) >)’ . ? =/*’ ? *10 *. ’ ; . ; 6// ’ >12. ., 25’ 1 ’ D ; ’ , 1 ; -’ 1-’ +*’ 21, *. ’ 6-*’ . ; 25’ D ’ ,)*’ 1 > 6, 25’ =- *. ’ , 8 ,)’ -*. =12. *. ’ -1 ? ’ ,)*’ >)1 -’ 1-’ ,)*’ >125-*56, 12% ( )*. *’ 06, *’ ,) * -’ 1- 5 2’ -1 ? ’ ,)*’ *6-/ *. ’ , ’ =*- 10’ 1 ’ ,)*’)- .^ , 62’) ; ->) ’ 620’ 6-*’ ,)1 ; 5), ’ D ’ .1 ? *’ , 1’) 6+*’ D**2’ 1- 5 26// ’62> *2, ’ =6562’ ? *10 *. ’ 606=, *0’ , 1’)- ., 62’ 81-.) =%

M %X’ , ’ .’ 6/. 1’ 620’ ? 1-*’ ; . ; 6// ’ 6==/ *0’ , 1’) ? 2’ , ; 2*. ’ 1 ’ 6’ ./18’ 620’ ? 6A*. , >’ 1-’ =6,) *, >’ ? 1+*? *2, ’ 6. ’ 1(P, ’ # 1’ ,)*’ 1(1D ’ # 1P’ 620’ ()*’ 4 *-? 62. ’ >6// 6// =. 6/? ’ . ; 2*. ’ >)1-6/. ’ D ; ’ ,)*’ ’ 6/86 . ’ -*, 6 2’ ,)*’ 1- 5 26/’ ./18’ ? 1+*? *2, ’ 620’ 6//’ ,)*’ +1 >*. ’ A1 2’ 2’ ,)*’ ? *10 ’ ,)*’ 1-562’ 5 + 25’ ,)*’ 6>>1 ? ^ =62 ? *2, % 2’ ? 62 ’ -1, *. , 62, ’ >1 ; 2, - *. ’ 6// ’ ,)e’ 1 ; -’ =6-, . ’ 6-*’ . ; 25’ 2’ >)1-6/. ’ 6. ’ 8*// 6. ’ 2’ 1,)*-’) ? 2’ , ; 2*. % 1-’ 6’) ., 1- >6/ 0*+*/1=? *2, ’ 1 ’ >)1-6/ . 25^ 25’ . **’ $ R : % #’ 3!

) 1-C 6 .) 62’ M : *D%) =& " ’ L ’ $ g *=, % (% ’ + ’ -% 620 *+*2’ ; **% $2’ % *% **-C .) *D6T ; /5% ’ & " :’ .1’ ,) 6, ’ D1,)’ 6==*6-’ , 1’) 6+*’ -*60’ ! 7 X’ 12*’ 1 ’ ,)*’ =/6>*. ’ M26 ? *0’ D*, 8 **2’ : 1-? 6) ’ 620’ ,) 6>) X’ 2’ 8) >)’ ’ 6+ 0’ 620’) . ’ ? *2’ 8 *-*’ 812, ’ , 1’) 6 ; 2, J’ 620’ , 1’) . ’ - *20. ’ 2’ 8) >)’) *’ . *2, ’ =-*. *2, . ’ 1 ’ ,) *’ =/ ; 20*-’ , 69*2’ -1 ? ’ ,)*’ ? 6/*9 , *. ’ 8) 1’) 60’ -1DD*0’ U 9/65’ M ’ 6 ? % ddd’ N X% ( )*’ , 182. ’ 26 ? *0’ 2’ ,) . ’ >6, 6/15 ; *’ 6-*’ 6 / .1 ; ,)’ 1 ’ : *D-12T 620’) 1-6.) 62 ’ ,) *-* 1-*’ . ’ =-1D6^ D/ ’ 0*2, >6/ 8 ,)’ ,) *’ . ? =/*’ ^ ’ ’ M_%’+%X’ 1 ’ ? *12’ MB1.) % d ’ KT’ L L ’ X%

) 1-6 [2’ Md1=17, ’ + ’ -% O % 1’ 620 d 8=67VAVX ’ 12*’ 1 ’ ,)*’ > , *. ’ I O 8’ 2’ 8) >)’ 1 ; -’ 1-0’ . ’ ? 5) , ’ 81-9. ’ 8 *-*’ 012*’ D ; , ’ 26 ? *0’ 12/ ’ 2’) . ’ 0*^ 2 ; 2> 6, 12’ M < 6, , ’ L T’ K T’ ; 9*’ L ’ QT’ . **’ >)*-[*-’ $’ ’ /N ’ + / # =. % X’ 2’ >122*>, 12’ 8 ,)’ *,) . 6 06’ 620’ 6=*-26 ; ? ’ 21, ’ -’ -1 ? ’ 8) >)’ 2’ 46/ /** ’ , ’ 6==*6-. ’ , 1’) 6+*’ D**2’ . , ; 6^ , *0% , ’ 86. ’ 9218 2’ , 1’ B*-1 ? *’ 8) 1’ 0*. >- D*. ’ . ’ 5 ’ ’ ’ " ’ L X’ 6. ’ 12’ ,)*’ .) 1-*’ 1 ’ ,)*’ /69*’ ’ ? /*. ’ -1 ? ’ 6=*-26 ; ? ’ 1-’ K’ ? /*. ’ 6>>1-0 25’ , 1’ ; . *D ; . ’ : < 4’ . ’ %)1-1[6 2X% 1 ? *’ >1 ? =6-*’ ,)* (6/ ? ; 0 >6/ 1 / ’ ’ _%’+%h’ M7MI (N’ " "#1/’ Q ’ X’ ? *2, 12*0’ 6. ’ D* 25’ 6 ? 1 ; .’ 1-’ 8) *6, ’ M */620’ 6C’ # ’ =% KKT’ >) 86-[’ ’ QRXT’ 8) /* 1,) *-. ’ >1 ? =6-*’ x % $ ·’ M_ ’ +%X’ 1 ’ ,)*’ 4 *2, /*. J’ M2, A /)

B ; 7 % ('KXT 620' ., //1,) *-.' >12. 0*-' ,) *' 26?*' 6.')6+ 25' D**2' 2' ,) *' +*?6>;/6 (' + " % * ' `% 'M 5), 11, '=% S '._%X% - 5*2' 620', S1?*' < % 8-, *' ,) *' 26?*' 1 =. `Md8=6' UM ' :% -2*., ' , !' ?.,% SNS' 'SX' % *% , . :' D ; ,' ,) .' .' =-1D6D/ ' ?*-*' >12A*>, ; -*% ,% & $/ C D6/0' M6D1 ; ' % % X' + . ,*0' ,) *' +6- 1 ; .' =/6>*.' 6/125' ,) *' /69*' 2' ,) *' 1//18 25' 1-0*- ' (D*- 6. ' <6506/ ; ? ' 6=*-26 ; ? ' *,) .6 06 ') 1-6[2' I6 ' - ! 1) 2 ' =% X' D* 25' 01 ; D, /*..' 5 ; 0*0' D ' /1>6/' ,-60 , 12 ' 1-' ,) *' 9218/*05*' 1 ' ,) *' . ,*') 6.' D*>1?*' ; ,*-/ ' *L, 2>' M 1D 2.12 ' 5 " (1' 'K X% 1?*' 8-, *-.' 6,' 12*' , ?*' . ; ==1.*0' , ' ,1' D*' ,) *' .6?*' 8 ,) ') ' =# ' 6 =/6>*' 12' ,) *' *6., *-2' .) 1-*' 1 ' ,) *' *6' 1 ' 4*22*.6-*, D ' 8) *-*' **, [*2' I5 1' 'N7 7 620' ; ->9) 6-0, ' I - ! =% KS X' 0*.>- D*' .1?*' -; 2.† & , ' ,) . ' .' 8-,, *2') ! ' 2' # ' 12' /6, *-' ?6=.% ' ?1-*' -*>*2, ' 8-, *-' M 2' ,) *' # ! ' !A. ! Q C 1% KNNX' -*56-0.' , '6.' 6' =/6>*' 2' ' =D .' D ; ' ,) . ' 6/.1' /6>9.' 6 ; ,) 1-, % 1C' >1>9*' I6 1' ' KX' .=*69.' 1 ' 6' + //65*' >6//*0' ? ' 6?125' ,) *') //.' 8*.-,' 1 ' (*//C : 1 ; ?' ' 1-' K' ? /*.' 21-,) C21-,) C*6.; ' 1 ' (D*- 6. ' 620' >/1.*' ,1' 6=*-26 ; ?% ( ) *' 26, +*. ' 6>>1-0 25', 1' -% >)6-0.12 ' >6/' , ' WUC ! ' , ' .'6==6-*2, / ',) .' =/6>*' 8) >)' * ,)' 620' 62' 0*' */0*' I 1' =% N X' >6//') / "1' 620' 0*.>- D*' 6.' >12, 6 2 25' .*+*-6/ =*0*.,6/.' 1 ' >1/; ?2. ' 8 ,)' /*+^ *//*0' .) 6 , .' 620' ,) *' -*?6 2.' 1 '6' D ; /0 25' 1-?*0' 1 ' /6-5*') *82' .,12*.† 8) /*' -% 1D 2.12' I ' ; , 5 ! =% NS X' -*A*>, .' ,) *' 0*2, >6, 12' 8 ,)' 0 .=6-65*C ? *=, ' 1 ' ,) *' 62, _ ; , *.' M=% N X' 6/,) 1 ; 5)' *' 0 // 21, ' + . ' ,) *' . , *' I ; "!' $ 1' Q N ' =% N X' 8) >)' -% ( ) 1? .12' 2*+*-,) */*. . ' >12 0*2, / ' 601=, . ' ' ; +1' 'QX' 6==6-*2, /A7' 8 ,)' 5110' -*6.12% <% *' 6 ; /C > ' .' 0 .=1.*0' , 1' 0*2, ') 1-6[2' 8 ,) ',) *' 1 ; 2, 6 2' & ' =- 1' 2*6-' ,) *' 21-,) *-2' *L, -*? , ' 1 ' ,) *' =/6 2' 1 '4*22*.6-*,) ' D ; , ') .'6-5 ; ? *2, . '*L>*=, ,) *'+ > 2 , ' 1 ' ,) *' .=1, .' , 1' ,) *' /69*' 6-*' - +1/1 ; .' I7 1' /' N X% ( ) *' _ ; *., 12' .' 2, ?6, */ ' >122*>, *0' 8 ,) ',) 6, ' 1 ' ,) *' =1. , 12' 1 ' 6=*-26 ; ?' M_% +%X% ..*-, 6, 12.' 12' ,) *' >; -.*' =-121 ; 2>*0' D ') - .' , 656 2. ; ,) .' 620' ,) *' 2* 5) D1- 25' =/6>*.' M < 6, , 'L 'K X') 6+*' D**2' 8 - , , *2' 2' 6, 2' D ' >) *-[*-' M =. % SSSX' : 1-2D*>9' I 2! $! $/, -6A% SQ ' 'N '._%X' >)1, ' M (D% SSX%

) 1-*= . >1= 'ML8= (-?+181 ' ' % 81' 62' 1-0*-' 1 ' ? 2 . , *-.' 1 '62> *2, '1- 5 2% 1?*' M*% 5%) 6C D62 ; .' < 6 ; -; .X' 0*- +*' ,) *' 26?*' -1?' ,) *' 6>, ' ,) 6, ' ,) *' D .) 1=' 86.' >) 1.*2' ' " ' .' 1,) *-.' -1?' % % 'M) *6-, '1 ',) *' D .) 1=X' 6.' ,) * -' ; 2>, 12' 86.' ,1' 6.. , ' ,) *' > , ' D .) 1=' 2' -; -6/' 0 .-> , .' 1-' + //65*.' -*?1, *' -1?') .' -*. 0*2>*% ( ) *' ?1., '. ?=/*' 620' / 9*^ / ' 0*- +6, 12' .' -1?' ! 1?*' 8-, *-.) 1/0' ,) 6, ' ,) * ' 8*-*' 12/ ' =-*. D , *-.' D ; ' , ' 6==*6-.' >*-, 6 2' M. **' ,) *' ; // 0 .>; . . 12' 2' 25) 6?X' ,) 6, ' ,) * ' 0 .>) 6-5*0' *= .>1=6/ ; 2>, 12.% ( ) *' 6>, *0') 18*+*-' 2' 6' . ; D1-0 26, *' >6=6> , ' 620' =1. .*. .*0I' / ? , *0' =18^ *-.' D* 25' . ; DA*>', ,1' 6' > , CD .) 1=' 620' 6>, 25' 6.') .' >1//*65 ; *.' 1-' + >6-.% ( ) *') */0' 6' 0 *-*2, '-629 ' D ; , ' =1. .*. .*0' 6' . ? /6-' 1 >*') ,) *' 8*-*' 6 ; .) 1- [*0' , 1' 5 +*' /*, , *-.' 1 '=*6>*' 620', *., ?12 6/.† , 1' . ; =*- 2, *20' ,) *' 6 6 -.' 1 ' ,) *') ; ->) ' 2' ,) *' -' 0 . , - >, † , 1' 6==1 2, ' *>>/*. 6., >6/' 1 >*-. ' -*60*-. ' . ; DO*6>12. ' 620' *L1-^ > . , ,' † 620' , 1' 1-06 2' =-*. D , *-.' 620' 0*6>12. ' D ; , ' 21, ' 8 ,) 1 ; , .) *' =*-? .. 12' 620' >1C1=*-6, 12' 1 ' ,) *' . ; =*^ - 1-' 1-' >, CD .) 1=% ( ) *' =1. .*. .*0' ,) *' =- + /*5*' 1 ' 6, , *20 25' >1 ; 2> / .' 2' ,) * -' 182' - 5) , ' 620' 21, ' ?*-*/ ' 6.' . ; D. , , ; .*.' 1-' -*=-*. *2, 6, +*.' 1 ' ,) *' D .) 1=% (/ 0' >6212.' 1 ' ,) *' 1 ; 2> / 1 ' > *6 ' % ' % 1 6, , 6>) *0' , 1' 0 1>*.*.' 1 ' 8) >)' ,) *' D .) 1=.' 6/.1' 8*-*' =-*.*2, % ( ) *.*' 1 >*-.' 8*-*' 6, ' -, ' >12 2*0' , 1' ,) *' 6. , *-2') ; ->) † 2' ,) *' & *. , *-2' ,) * ' D*562' , 1' D*' 9218 2' 6D1 ; ,) *' ,) ' >*2' ^ , ; - % ( ) *' 8*-*' 2*+*-' 2 ; ?*-1 ; .' 2' =6 2' 620' , 6/ ' D ; , ' 6D1 ; 20*0' 2' ->6' 620' 4*-?62 % 2',) *' & *. , ^ *-2') ; ->) ' 1=*' >)1/6.' 'M % % QS X' 1-06 2*0',) 6%,) *' .) 1 ; /0' 6D. , 6 2' -1?' 6/ /*=. >1=6/ ; 2>, 12.' M /62C 1 ' ! ' d ' NQRXT' 620' *1' ' . . ; *0' 6' . ? /6-' -*^ .>- =, ' 6D1 ; , ' % % RN ' M < 62. ' L+ ' N QXT' D ; , ' 6>>1-0^ 25', 1' . 1?*' 8-, *-. ' ,) *' >12, 2 ; *0' 2' -62>*' , / / ,) *' , 8*/ ,) ' 620' 2' -*/620', / / ,) *' ,) -, **2,) % ( ) * ' 8*-1' . ; >>**0*0' D ' 6->) 0*6>12. ' -; -6/' 0*62. ' 620' + >6-. C 5*2*-6/% 2' ,) *' 6. , ' ,) *' 1-0*-' 86. ' 6D1/ .) *0' 1-' ,) *' .6?*' -*6.12 ' D ' ,) *I' 1 ; 2> / 1 ' 610 >*6 ' 6D1 ; , ' % % N4 ' 8) >) ' 0*>-**0' M>6212' X' ,) 6, ' , 2*-62, '=-*. D , *-. ' ((5=, 17 -6 ' .) 1 ; /0' + . ' ,) *' >1 ; 2, - ' + //65*.' 1-' ,) *' ; , ; -*' 2' / *, ' 1 '-*. 0*2, ' >) 1-*= .>1= † D ; ' ,) *' 1-0*-' >12, ? ; *0' ; 2, / ' ,) *' , *2,) ' >*2, ; - % ( ) *' 2*>*.. , ' 1 ' . ; -6562' D .) 1=.%5-*6, / ' 2>-*6.*0' 6 , *-',) *' >*..6, 12' 1 ' ,) *' " % % ! ' 25) 6? ' , # ! ' 6 + ! D9% ' >/ % L + ' g KT' <1.) * ?' # ' 1' ' ' M620' -* *-*2>*.' ,) *-*XT' *5*/ ' &2 " ' ' NQ ' ._%

) 12 .% *** ' !

) 1.6? 6*7 ; .' Md1>6 76, 17X' 6' 26?*' 5 +*2' 2' ,) *' =1>- =) 6' M ' .0-% L ' NKX' 6==6-*2, / ' 6.' 6' .; -26? *' 1-' *= ,) *, ' 1 ' 12*' ?12' 2' ,) *' / . , %1 ' (*?=/*' .*-^ +62, . J'-*, ; -2*0' -1?' ,) *' 6=, + , † D ; , ' 21,) 25' >1-^ -*.=120 25', 1' * ,) *-' 26?*' 6==*6-.' 2' ,) *' : *D-*8', *L, ' M [-6' ' X%) 1.*2' M=-1=' " (:' 9d -0>X' '. 25/*0' 1 ; ' -1?' 1,) *-.' , 1' .1?*') 121-6D/*' .*-+ >*' 1-' ., 6, >Y% ') 1.*2I' 86-- 1-.' 6-*' .; >)' 6.' 6-*' = >9*0' 1 ; ,' 6.' ,) *' ?1..' +6/ 62, ' 620' .9 / ; /' 2' 62' 6-? '1-' 6.' D*.' 6O6=, ^ *0' , 1' .1?*' .=*> 6/ 620' ?1?*2, 1 ; .' *2, *-=- .*' M L10% d ' aI' B ; 05% d d ' SX% ( ) *' : *D-*8' 26, 12' 86.' 6' '>) 1.^ *2' =*1=/*' 410') 6+ 25' .*, ' ,) *?' 6=6-, ' , 1' -*>* +*') .' 81-0' 620' =-*.*-+*I) .' 81-.) =' M .6% >+' NT' *; % + X% B*-; .6/*?' 86.' `>) 1.*2', 1' D*' , ) *' .*6, 1 ' ) .', *?^ =/*' M ' 25.' L ' NX% ) - .' , ' , ) *' I>) 1.*2' 1 ' 410T -1?' *, *-2 , ' ) *' 86.' .*, 6=6-, ' 2' , ) *' + 2*' ? 20' 6.' , ) *' 12/ ' , '=*-.12', 1' D*' 1 ; -' ?*0 6, 1-' 620' .; -*, 'M .6% L/ ' X% ( ) *' 6=1., /*.' 8*-*' `>) 1.*2 ' L*0' ; =12' 620' .*, '6=6-, ' -1?' 1,) *-.', 1' D*6-' 8 , 2*.., ' ; 2, 1') - ., , ' -*.^ ; --*>, 12I 'M >, .' d ' X% ( ) *-*' .' 62' *--1-' 2' .; ==1. 25' 6' >*-, 6 2' L*0' , *>) 2 >6/' ?*62 25' 1 ' ,) *' 81-0' --*^ .=*>, +*' 1 ' ,) 6, ' " '"*6>) ' .' `>) 1.*2% ( ) *' ) - .C ' , 62' ) ; ->) ' M, ) 6, ' . ' `6// 2' *+*- ' =/6>*' , 1' 8) 1?' ,) *' 41.=*/) 6.' D**2' 6221 ; 2>*0X') 9.' D**2' >) 1.*2', 1' ,) *' *2A1 ?*2, ' 1 ' ,) *' D*2* , .' 620' =- + /*5*.' =/6>*0' 8 ,) 2' ,) *' -*6>) ' 1 ' 6// , 1' 8) 1?' . ; >) ' 6221 ; 2>*?*2, ') 6.' D**2' ?60*† 8) /*' 1,) *-.' 8) 1I-*?6 2' 2' 521-62>*' 1 ') - .^ , 62 , ' >6221, ' D*' .6 0' , 1') 6+*' D**2' ,) ; .' `>) 1.*2% ( ) *2' 656 2 ' `?62 '6-> ' >6//*0' D ' , ' *8' >) 1.*2 ' + [% '6.') 6+ 25' .1' =-1 , *0' D ' ,) *-' 1==1-, ; 2 , *.' 6.' , 1' D*' 6>^ >*=, *0' 26// %J ' 0*2' " "' ' 1' .% +% *** 3 > !

) 1, /*. ' B1 : d' % '6' 6=, . , ' ? 2 . , *-' 86.' D1?' 2' - . , 1/' 25/620' *D% Q % : *' 86.' D6=, [*0' D ' -% /620' 2' QK ' 620' *? 5-6, *0', 1' ?*- >6' 2' QK ' , *-', *6>) 25',) -**' *6-.' 6, ' *0' : 119') *' D*>6?*' =6., 1-' 1 ' ,) *' *>120' 6=, . , ') ; ->) ' *8=1-, ' % % ' 2' QK 'D ; ' , -*?1+*0' 2' QNN', 1' ; 6/1% . *-' . *-+ 25' 6.' =6., 1-',) *-*' 620' 2' *8' 1-9') *' -*, ; -2*0', 1' *8^ =1-, ' 8) *7*') *-*?6 , *0' 6.' =6. , 1-' 1 ' ,) *' *>120') ; ->) ' 0 ; - 25',) *' -*. , ' 1 ') .' / *% : *' 0 *0' 8) /*' 12' 6' + . , ' , 1' *8' 1-9 'B62% Q S% : *' 86.' 6' -* _ ; *2, ' >12^ , - D ; , 1-', 1' =*- 10 >6/. ' 620' 6, ' 12*' , ?*' *0 , *0' ,) *' 1.^ , 12') - ., 62' (?*. ' *. 0*.' , ? 6// *-' 81-9. ') *' = ; D^ / .) *0' -" ' , ' , ' # ' ' 1' D ' B% ' %) 1 ; /*. ' 620' ( ) 1?6.' ? ,) ' M 1. , 12' QN ' K' +1/. ' , 1X% ** : 65 ; *' '] ' , ' ' ! ' " ' M % Q SX% ' ; >9 2>9 ' % ' & 'D& = * 1' 'N † " '5 1' Q S' =% N %

) 1 [*7D6' M : >D%) / "(1' *=, % d8C 7-WN6' ; /5% 8!' 6' =/6>*' 8) 1.*' 2) 6D , 62, .' M ?*2' 1 ') 1[*D6JX' 6-*' 26?*0' M ') -12% +' KKX' 6?125',) *' 0*.>*2062, .' 1 ') *6) ' ,) *' .12' 1 ' B ; 06) % ( ) *' 26?*' .' . ; > *2, / ' / 9*' ,) *' - ' M620' *.=*> : /C / ' ,) *' -*60 25' 1 ' , 7 ' 6?6-, 62' 10*L' 1 ' ,) 6, ' 276?* 8) *-*') *6/ ' 86.' D1?' M4*2% LLL+ ' X' , 1' 7 . ; 55*.' ,) 6, ' ,) *' , 81' -* *-' , 1' ,) *' .6?*' =/6>*† ,) 6, ' 26?*/ ' */.*8) *-*' MB1.) ' L+ ' X" 7$*0' ' - ' I4!' +%X' 2' B ; 06) %

) -* . , 6 2 . %' ( )*')*6,)*2' ?60*' 6' ? .,69*' 2' ,)*' ħ (*-, ; // 62 .' , ?*' M % %' KK X' 1286-0' 8*' 20' - *2, 12' ,6?*' 1 '1 ;-' 6+ 1 ;-' 8)1?',)* '5*2*-6// '>6//*0' + VA' 1 '6' 01 ; D/*' 621 2, 25' 6, ' D6=, . ?'' 12*' D* 1-*' ,)*' 1,) *-' 620') .' 1//18*-.' " ' M ' ;*,12 ; . ' ' ' 6 ,*-%' ( )*' /6,,*-' .' >6//*0' D ' 8 6 ' 1 ' 0 ., 2>, 12 ' K1X%' ( ) .' .' 21,*0' D 'B ; . , 2' <6-,E(' I1&% 'KX' (*-, ; /C' O% % !' ( )*' -.,' I O 8' 86.' =-*=6-6,1- ' 620',119' >%' NX ' 620' 6>,62, ; .' M + ' X' " ' .' ,)*' =/6>*' ? ?*0 6,*/ '6 ,*-' *L1-> . ?' 620',)*' . 526, ; -*' 1 ' .6?*' 8 ,)',)*' : *D-*8' <*.. 6. '620' . 52 *.' 6' =*-.12' ,)*' >-1..%' ',)*' 0*. 52' 1 ' >)- . ?' - /' 1 'B*-; . 6^ 621 2,*0' 8) /*' " $ ' ?*62.' ! (*-C ' /*?' I " !' ! KX' .6 . ' <*2' 8*-*' 621 2,*0' ,; //A ; 2' ,*//.' ,)*')*6,)*2' ,)6,' ,)* ' 8*-*' ; 2=6-0126D/*' -1?')*60' ,1' 11,' 8 ,)' ,) . ' >12.*>-6,*0' 1 /' 620' ,) . ' 1-' =*-.*>; , 25')- . , 62.' ?*-*/ ' 1-' ,)*' .-' 26?*' 1-' ?60*' ,)*?' =6-,69*-.' 1 ' ,)*' ,-; *' 1/ +*C,-*-*' B*. ; . ' D1,)' 26?D*' 8*-*' 221>*2,' 620' *L>*//*2,% ' 25)6?')- .,%' 1-' ,)* ' D* 25' >; ' 1 ; ' 1 '6' 8 /0' 1/ +*C,-*5 ' , !'6 'D9' '>)%' g %' 620' 25-6 ,*0' 2,1' 6' 5110' 1/ +*C,-**' 8*-*' ?60*' =6-^ ,69*-.' 1 ',)*' 6,2*. ' 1 ',)*' 5110' 1/ +*C,-**%J' ?D-1.*') -*Q , ; . %6' =*-.12' 26?*0' D ' ; *,12 ; .' I ' I ' '$ '/D%' '>%' KX' >1?=6-*.' ' ,1',)*' 621 2, 25' K X' 6.')6+ 25' 2> ,*0' 6' .*0 , 12' 6?125' ,)*' B*8 .' 6, ' 1 ' ,)*' 8-*. ,/*-.' D* 1-*' ,)*' >1?D6, ; ' ( )1 ; ' *6-2*. ; ,1' 1?*' 8) >)' /*0' ,1' ,)*' -' *L=; /. 12' ` -1?' ,)*' > , ' ,)*' 12, '620' 86. ,'621 2, *0' 6.' 6' " % ' 1 ')- . ,' ,1' M>1?=% >,.' L+ ' KX% 1?=% $! ( )*-*')6+*' 5), ' ,)*' 5), ' 1 ' ,) . ' 81-/0%J' ' 0 ., 2>, 12' D*, 8**2' D**2' ,81' 0 *-*2,' 1= 2 12.' 6.' ,1' 8)1?' ; *,12 ; .' ,)*' ,81' 621 2, 25 k%.' ?60*% < *2' 8*-*' -.,' 621 2,^ ? *62, ' D ' " ' M.**' ; 21/ ' & ' 2' /1>%XT' *0' 8 ,)' ,)*' 62> *2, ' 1 /' ,)6, ' ,)* ' ?6 ' D*')- ., .T' 8)*,)*-' .1?*' : */!*2 . ., ' 8)1')60' *L> , *0' =1/ , >6/ 0 .^ ,)6, ' . ' ,)*' 621 2, *0' 1 ' 41MM' / ; ' ,)* ' 8*-*' 621 2, *0' ,; -D62>*.' M6.' < * *-' 620' *' & *,,*' . ; ==1.*T .**' 12 C' 8' ,)' ,)*' =-*> 1 ; .' 1 2, ? *2, ' 6 ,*-' D6=, . ?' 2' -*?*?^ D*6-*' 620' : 18.12' $ ' ' ' QQSX' ,)*' 26?*')-*.^ D-62>*' 1 ') ?' 8)1' -*=:, *0' ,)*' 621 2, 25' 1 ') ?. */ ' ; ; ' M4-% - -, ' 8' -*_ ; *2, / '1>>; -- 25' 6.' D1-2*' 8 ,)' 1 2, ? *2, ' , 1' D*') .' D ; - 6/' 'MB ; . , 2' < 6-,% % ! D ' ?62 ; ? ,,*0' ./6+*.T 1-' 8)*,)*-' 6.' ,)*-* .' 5110' K ' " ' _ ; % N X% ( )*' &% !' ' ?69*' /*6.12' ,1' ,) 29' M =. ; .' 12' (6> ,%' & ' L+ ' T' 4-1C' ,)*' .6?*' 0 ., 2>, 12' MD9%' + ' >) ' KKX%)-A%.1.,1?' , ; .' ' &$' L+ ' KT' *620*-' ' - =' .6 .' +*- ' =*-.12' D* 1-*')*' 86.' D6=, [*0' 86.' ' KN X' ; *,12 ; .' 01*.' 21,' -* *-' ,1' .1?*' 6>, ; 6/' 621 2, *0' 6.' 8-*./*-.' *2, *- 25',)*' */0T' 620',) .' 21,' 0 . . *2. 12' D*, 8**2' B*8 .' 620')- . , 62. ' D ; ' >12 1 ; 20. ' 6.') 5) C=- *.' 86.' 621 2, *0' 1 ' 1/0 ' 12/ ' 12,)*' ,)*' 26?*' " ' 8) >)' 86.' ?1.' ; 2 ; . ; 6/ 6.' 6' =-1=*-')*60' 1-' - 5),')620' 1-' *6-' D ; ' 6/' 1+*-') .' D10 ' D*^ 26?*' 8 ,)' ,)*' ? ; >)' ?1-*' -* _ ; *2, ' 6==*//6, 12' 1 ' >6; . *')*>6?*' 21,' 12/ ' ,1' D*' ,6 ; 5), ' D ; ,' ,1' *L*-> . *' " ' M.**' (*-, ; // 62 ' &% ' N 6>, 62, ; . ' 2!') ? . */ ' 2' 6' 5),' >-' >1?D6, J' I# ' ' ' !8 +' ' T' < /?62' # ' ' " ' ' N X% -1C' K ' " ' 5 ' ' ? "' " " ! ' MNX ; ' D6=^ . ; . ' I# '+ ' SX=/6>*.' /6 ; 0 ; . .' *0 >,' 1 'D62 .) ? *2, ' , .?' ,)*' >6, *>) ; ?*2' .' 621 2, *0' 8 ,)')1/ ' 1 /J' 12' 2',)*' 2 2,)' *6-' 1 ') .' -* 52' M%*' % % R' 1-' X' 620' ,) *' D-*6 . ,' 620' D*, 8**2' ,)*' .)1 ; /0*-.' D ' ,)*' =- *. , ')*' -* *-.' ,1' B1.*=) ; . ' 8)1')18*+*-' .6 .' 21,) 25' 8 ,)' ,)*' =- *. , ' 620' D*, 8**2' ,)*' .)1 ; /0*-.' D ' ,)*' D6=, . ? ' ,)*' 6D1 ; ' ,)*' ?6, ,*-% 2' 25' / -*0 .' 25/1C 6L12')- . ?' .' 7=/ >0' ,1' ,)*' >-182' 1 ' ,)*')*60' , 6, ' ,)*' +*-. 12' 1 ' , ')18*+*-' ,) .'-* *-*2>*' ,1' B1.*=) ; . ' =*-.12' D6=, [*0' ?6 ' 9218' ,)6, ')*' .' >6//*0' 6')- .^ 01*.' 21, ' 1>>; -T' ,)*' -*5 . , *-' . ?=/ ' >122*>, ' ,)*' *L^ , 62' -1?')- ., ' 6. ')- . , ' .' .1' >6//*0' -1?' >)- . ?J' =/. 12' 8 ,)' 6' 6? 2*d ' 2' ,)*' 2 2,)' *6-' 1 ') .' 51+C' I " ' ' ' - ' =% N ' QS' 6/, % *O%% MKX' 2' *-2?*2, ' ,)*-*' 86.' 6' 5-*6, ' 6? 2*' 2' 1?*' 620' /6 ; ^ >12 -?6, 12' ,)*' >)- . ?' M?60*' 1 '1/ +*' 1 / 620' 6/.6?' 0 ; ' 1-0*-*0' 6//' ,)*' B*8 .' ,)6, ' 8*-*' ,)*-* 2' , 1' D*' 0- +*2' 620' >12.*>-6, *0' D ' ,)*' ' .)1=X' >12. , ; , .*. ' ,)*' 1 ; , J' M 1.81-,) .' , 1' =% R' 1 ' ,)*' 6L12' 620' R' 1 ' ,)*' , -62.% **' ,) . ' ., 6, *?*2, ' 1 ' -1. ; ' >1?7*2, ^ 1 ' ,)*' 1-5*0' 0*>-*, 6/.' M_% +%X' 620' .' 6==/ *0' , 1' ,)*' 1-*^ *0' 12' D ' >6/ 5*-' & ! 12' ; .*D% " ! =% RKX%)*60' 1 ' ,)*' =*-.12' >12 -?*0' I = ' - ' =% 2' ,)*' >12, -6- ' *6-.12' I& ! (8' 620' 15*/ 7 ' _ %X% MNX' 2' *L, -*?*' ; 2>, 12' 1/ +*' 1 / 6/12*' >62 M 2' 46D/*- .' D 8 ' 8,)1 ; ')18*+*-' 5 + 25' 0*>^)*' ; .*0' M8 ,)1 ; ' D6/.6?X' 620' ' .' 6==/ *0' , 1' ,)*' 1-^ . +*' 5-1 ; 20.' 1-' ,)*' -' 1= 2 12' . ; ==1.*' /6 ; 0 ; . ' 562.' 1 ' ,)*' +*' .*2.*. ' 620' 6/.1' , 1' ,)*' /1 2.' 620' **, % ,8*/ ,)' *6-' M%*>%' % % KX' , 1' D*' ,)*' ?1-*' / 9*/ ' 12*% ( )*' 4-**9') ; ->)' 65-**.' 8 ,)' ,)*' 1?62' 6.' , 1%' ,)*' !& ,)' 25*-' I ' % ' '& !'&% '=% QX' .= - , ; 6/' +6/ ; *' 1 ' >)- . ?' D ; ' ,)*-*' 6-*' .1?*' 0 *-^ 12*' ? 5), ' 12' 2*56, +*' 5-1 ; 20. ' 6. . *-, ') 6, ' .1' /125' 6.' *2>*.' 1 ' ; .65*% 1,)' -*_ ; -*' ,)6, ' ,)*' >)- . ?' .)6// D*' : *-10' 5- ==6' 86.' 6, 1?*' 8 ,)' /6 ; 0 ; . ' ,)*' *0 >, ' >12.*>-6, *0' D ; ' *+*- ' ' .)1=')6 . ' ,)*' - 5), ' , 1' >12.*^ 1 '*L=; /. 12' 81 ; /0')6-0/ ' D*' = ; D/ .) *0' % *' =-*+ 1 ; ' >-6, *' ' 2' ,)*' 1?62') ; ->) ' 8) /*' ,)*' 4-**9' >12^ ,1' ,)*' *6-' % % R% -% ; -, 12') 18*+*-' I , ' " ' 2*. ' ,) . ' =18*-, 1' ,)*' =6, -6->) . % ( )*' 4-**9') ; ->) ' " ' ' " ' & $ ' =% KSX' = ; , . ' ,)*' 06, *' 1 ' ,)*' *0 >, ')18*+*-') 18*+*-' ; . *. ' 6' >)- . ?' >1?=1 ; 20*0' 1 ' .1?*' 1-, ' 2^ .1?*' , ?*' D*, 8**2' % % ' 620' S' . ; ==1-, 25') . ' 5-*0 *2, . ' D*. 0*. ' 1 / M. **' / . , ' 1 ' ,)*' ?' ' 2' *5*/ ' 'QR X' 1= 2 12' D ' ,)*' 6>, ' ,) 6, ' 21' ?*2, 12' . ' ?60*' 1 ' /6 ; C' ** ' 'g > . ' [! 0 ; . ' 0*>-**' 2' ,)*' -1, *. , 62, ' >) ; ->) *. ' >)- . ?' . ' 21, ' ; .*0% ' ' >1?*' 0182' , 1' ; . ' 620' ,) 6, ' . 2>*' ,)*' /1. ' D119. ' 1 ' ,)*' 2' 5) 6?' , ! 6 ! D9% L ' >)% R T' *5*/ ' & =' 226/. ' 1>> ; = ' ,)*' -. ' L' *6-.' 1 ' ,)*' -* 52' 1 ' /6 ; ^ " ' ' NRS' . _ % T // 1 , , ' ' ' 5 ' 0 ; . ' . ' . ' =-1D6D/*' ,) 6, ' (6> , ; . ' ?*2, 12*0' ,) . ' 0*>-**' D9% ' >)% K' NT' ; -2*, ' , ' " ' & $ ' 6-, % LL+% 2' 12*' 1 ' ,)1. *' D119. % J' ( )*' *6-' -* *--*0' , 1' 2' >, . ')- . 1 ? *' I " 8! 2' ,)*' 1?62') ; ->)' ,)*' L+ ' K' . ' % % R% ' , , 1 ' . % +% ' ** $ $! =- *. ' =; , . ' 12' ,)*' D6=, [*0' =*-.12' 6 , *-' ,)*')- . ?' 6' 8) , *' -1D*' . 6 25' *>* +*' ,) . ' 8) , *' 56-?*2, ' 8) >)' ?6 *. ' ,) 1 ; ' >6--E' ; 2. , 6 2*0' *, >%J' 2' ,)*' D6=^ , . ?' 1 ' 2 62, . ' 6' 8) , *' 9*>-) * ' . ' 5 +*2' 2. , *60' 1 ' ,)*' 56-?*2, ' 8 ,)' ,)*' . 6?*' 81-0. % ' 6' >12. , ; , 12' 1 ' 0? ; 20' 6->)D .) 1=' 1 ' 62, *-C' D ; -E ' % % ' NS' ,)*' >)- . 1?*. ' 6 , *-') 6+ 25' . *-+*0' ,)*' =; -=1. *. ' 1 ' D6=, . ? ' 8*-*' , 1' D*' ?60*' ; . *' 1 ' 12/ ' 1-' ,)*' ?69 25' 1-' ?*20 25' 1 ' . ; -=/ >*. ' *, >% ' 1-' 1-' ,)*' 8-6== 25' 1 ' >)6/ >*. % ' ' >)- . 1?*' >) /0 J' 2' 1/0' 25^ / .)' ; .65*' 86.' 6' >) /0' 2' , ' >)- . 1?*' >/1,)% ' 2' ,)*' D6=^ B*-*?' (6 /1-T ( ) . ' 06 ' . ' ? 2*' 620' 1 ; -. ' D ; ' *' 9218' 21, ' 8) 6, ' .)6// D*' 12' ,)*' ?1--18T' 620' *+*- ' 62' 521-62>*' 620' . /*2>*' 0**=' 6. ' ? 02 5), ' 620' ; 20 . C' A*-210' 6. ' 6-*' ,)*' =)62, 6. ? . ' ,)6, ' ?69*' 6' >)- . 1?*' >) /0' , 1' . ? /*J I# ' ' ' >)6=' ' . *>' KX%

( )F' -.,' 1?? 12' -6 *-CD119' 1 ' 25' 086-0' 1-C' 06-.',) 6,',)*' 81? 62' .) 6// 1 *-',) *' >)- .1? *' 8) *2' .) *' >1? *.' ,1' D*' >) ; ->) *0' D ; , ' ',) *' >) /0') 6== *2.', ,1' 0 *' D* 1-*') *-' >) ; ->) 25' .) *' 86.' *L> ; . ,*0' -1? ' 1 *- 25' , 'I 620' ,' 86.' > ; ., 1? 6- ' ,1' ; .*' ,' 6.' 6' .) -1 ; 0 ' 620' ,1' 8-6=' ,) *' >) /0' 2' ,' 8) *2' . ' 86.' D ; - *0% : *2>*' DAJ 62' 6D ; .*' 1 ' 81-0. ' ,) *' ,*-? ' .' 21& ' ; .*0' 2' 25/620' 21, ' ,1' 0*21, *' >) /0-*2' 8) 1' 0 7' D*, 8**2' ,) *' , ? *' 1 ' ,) * -' D6=, . ?' 620' ,) *' >) ; ->) 25' 1 ' ,) *' ? 1,) *-' D ; , ' ,1' 0*21, *' >) /0-*2' 8) 1' 0 *' D* 1-*' ,) * ' 6-*' D6=, [*0' 620' .1' 6-*' 2>6=6D/*' 1 ') - . , 62 D ; - 6/% ' ' " ' ' - ' M 6/, ' *O% ' =% NS' : 119 ' " "' ' 1' .% % -1>, *-' , ' ' 1' N N%

) - . ,' Md=,1(1 A 1' 6' 4-**9', -62 ./6, 12' 1 ' ,) *' : *D% "1' 620' .1' ; .*0' 2',) *' *=,%X ,) *' 1 > 6/ , ,/*' 1 ' 1 ; -' 6+ 1 ; -' M1>>; -- 25' -.,' 2' K' .0,% + 'KR' 620' >12. ,62,/ ' 2',) *' *8' (*. ,%X ' 6. ') 6+^ 25' D**2' >12. *>-6,*0', 1') . ' -*0* ? =, +*' 81-9' D ',) *' D6=, . ?' 6, ' B1-062 ' ,) *' 0*. >*2, ' 1 ',) *' : 1/ ' = - ,' 620') . ' =/*26- ' ; 2>, 12 ' 6. ' ,) *' =-1=) *, ' =- *. , ' 620' 9 25' 1 ') . ' =*1=/*% **' ' < ' 'I ' ,') ; ' 6/. 1' 0 ., 25 ; .) *. ' ,) *' 20 + 0 ; 6/ ($ ' M_% + %X ' 8) >)' . ') . ') ; ? 62' 6==*//6, 12 ' -1?' 1,) *-. ' 1 ' ,) *' .6? *' 26? *'I 8) /*') . '-*/6, 12. ', 1',) *' 410) *60' 6-*' *L^ =-*. . *0' DX ' ,) *' ,*-?' ,) *' & 1-0J' 1-') ' M_% + %X ' ' ,) *-* 1-*' . ' 21, ' . ,- > ,/ ' .=*69 25 ' 6' =-1=*-' 26? *' D ; ,' 6' 0*. 526, 12' 1 '1 >*7 B*. ; . ') - ., J' 1-' -6,) *-' B*. ; . ' " ') - ., J' .' 6' ? 10*' 1 ' *L=-*. . 12' 1 ' ,) *' .6? *' 9 20' 6. ' B1) 2' ,) *' 6=, . , J' 1-' 6=, [*-% 2' >12. *_ ; *2>*' 1 '21, ' 60+*-, 25', 1',) . ' ,) *' ? =0-, ' 1 ' ? 62 ' =6. . 65*. ' 1 ' >- =, ; -*' .' ? .6===-*) *20*0' ' *% 5% >, .L + ' NI' L + ' I' < 6, , ' LL ' K% ; , .) *' 81-0 ' ,) 1 ; 5) ' 62' 6==*//6, + *' 2, *20*0', 1' 0*21, *' 6' =6-, > ; /6-' 1 > 6/' >) 6-6>, *-' >6? *', 1' D*' ; .*0' 6. ' 6' . , - >, / ' =*-. 126/ 0*. 526, 12' 1 ' ,) *' 1-0' B*. ; . % +*2',) . ', *-?' % < *.^ . 6) ', 186-0. ',) *' >/1. *' 1 ',) *' % (% >6? *', 1' D*' ; .*0' 1 ' ,) *' *L=*>, *0' *0** ? *-' ? ; >) ' 6. ' 6' =-1=*-' 26? *' M8 ,) ^ 1 ; ', ,) *' 6-, >/*' =-* L*0X A 620' d=,1-0*' .' 1 , *2' . ?^ /6-/ ' ; . *0' 2',) *' % (% M*% 5% ; 9*' I' B1) 2' + ' K I' *. =*> 6// ' D ')- . ,') ?. */ ' B1) 2' L + ' NX% ; ' 6. ' , ' 86. ' 21, ' . *, /*0' 2' ?*2 . ' ? 20. ' 8) *2' B*. ; . ' -, ' 6=^ =*6-*0 ' ,) 6, ') *' 86. ' -*6// ' < *.. 6) ' 8*' ; . ; 6// ' 20' ,) *' 6-, >/*' =-* L*0' ,1' d=,1-1>' ' ; 2, / 6 , -*-' ,) *' -*. ; -^ -*>, 12 ' 8) *2' 6// 01 ; D, ' +62 .) *0' -1?' ,) *' ? 20. ' 1 ') . ' ' 1//18*-. % 1' 8) /*' 2',) *' 41. =*/. ',) *' 26? *' . ' -6-*^ / ' 1 ; 20' 8 ,) 1 ; ',) *' 6-, >/*' , ' . ' 6/? 1. , ' 6. ' -6-*/ ' 1 ; 20' 8 ,) ' ,) *' 6-, >/*' 2' ,) *' = . , /*. J' M 6 -D6 -2 ' # ' 1' =% KNSX%

% # ' ' " ' - ! ' M %X' $2>, 12 ' -1?' 6' +*-A1' *6-/ ' 65*' . **? . ', 1') 6+*' D**2',) *' *?D/*?' 1 ' >12. *^ >-6, 12 ' 1-' . *., 25' 6=6-, ', 1' 6' =6-, > ; /6- ' 620' *. =*> 6// ' , 1' 6' -*/ 5 1 ; ' =; -=1. *% ( ) ; . ' B6>1D' . ' . 6 0' , 1') 6+*' ' ,) *' = //6-' 1 ' . , 12*' 8) >)') *' *->, *0' 620' . *, ' 6=6-, ' 6. ' 6' ?12 ; ? *2, ' 1 ') . ' . ; =*-26, ; -6/ 0-*6?' 6, ' *,) C*/ M4*2% LL+ ' QI' LLL ' NI' LLL+ ' X% $2^61 ',) *' =-1=) *, > ' >6212', // ,) *' D -,) ' 1 ' B*. ; . ' 21' 6==*/^ 0*-',) *' /0C (*. , 6? *2, '*>121? ') 5) C=- *. , . ' 620' 9 25. ' 8*-*' -*5 ; /6-/ ' g*, ' 6=6-, ', 1',) * -' 1 >*. ' D1,) ' 1 ' 8) >)' ' 8*-*' . , - >, / ' .=*69 25 ' . 6Z7-*0 12*. ' D '),) *' >*-*? 12 ' 1 ' ., // ,) *' 26? *' 8) >)' ,) *' ; 2D*/ *+ 25' B*8. ' 1-0 26- / ' 1 ' 621 2, 25 ' 620' ,) *' =-1=) *, . ' 8*-*' 1>>6. 126// ' 0*. C' %726, *0' D ' ,) *' . 6? *' - , *% ( ) . ' - , *' . **? . ', 1') 6+*' D**2' 2, *20*0' 6. ' 6' =; D/ >' 2, ? 6, 12' 1 ' 6' 0 + 2*' 6=^ =1 2, ? *2, ' , 1' 1 >*% ( ) ; . ' 6 ; /' . ', *-? *0' ,) *' 1-0 . ' 621 2, *0J' M ' 6? % LL + ' SXI' 6+ 0 ' ,) *' 621 2, *0' 1 ' ,) *' 410' 1 ' .-6*/J' MK' 6? % LL ' XI' 620' U*0*9 6) ' ' ,) *' 621 2, *0' 1 ',) *' 1-0J' M 6? % + ' K X% ( ) *') 5) C' =- *. , ' . ' >6// *0' ,) *' 621 2, *0' =- *. , J' M *+ ' + ' NX ' **'

MK%X' -1? ',) *' 1- 5 2' 620' 0*. 52' 1 ',) *' - , *' , ' . ' 21, ' 8120*- ; / . ,) 6, ',) *', *-? ' .) 1 ; /0') 6+*' D**2' 6==/ *0 ' 2' 6' % . *>1206- ' 620' 626/15 >6/ . *2. *', 1' =*-. 12. ' . *, ' 6=6-, ' D ' 410' 1-' ?=1-, 62, ' =; -=1. *. ' ,) 1 ; 5) ' 21, ' 6>, ; 6// ' ' 621 2, *0% ( ) ; . ' -; . ' ,) *' 9 25' 1 ' *-. 6 ' . ', *-? *0' ,) *' 1-0 . ' 621 2, *0J' M . 6% L/+ ' XI' ,) *' : *D-*8' =6, -^ 6->) . ' 8) *2' . 1A1; -2 25' 2' 62662 ' 6-*' , *-? *0' 410 . ' 621 2, *0' 12*. J' M . 6% >+ ' XI' 620' ,) *' . -6*/ , .) ' =*1^ 1=*- 10 ' 620 ') 18*+*-' +6- *0' ? 6 ' D ',) *' 5 ; -6, +*' -*=^ =/*' -*>*+*',) *' . 6? *' 6==*//6, 12' -1?',) *' =-1=) *, ' : 6C D699 ; 9' M ' NX% ,' . ' =-1D6D/ ' 8 ,) ' -* *-*2>*', 1',) . ' ; . *' 1 ',) *' *L=-*.. 12',) 6, ' <1. *.' . ' .6 0' D ',) *' 8-, *-' 1 ',) *' = . /*', 1',) *' : *D-*8 . ', 1') 6+*' ' >1; 2, *0',) *' -*^ =-16>) ' 1 ') - . , J' M : *D% L ' KSX' -1+' d= -1+' Mf61 FX ' ,) *' .6? *' >/6. . ' 8) 1' 2' ,) *' =6-6//*/ Z76; . *' 6-*', *-? *0' ,) *' =*1=/*' 1 ' 410 J' 5-*6, *-' - >) *. ' ,) 62',) *', -*6. ^ ; -*. ' 1 ' 5A=, %J

MN%X' 2',) *' =-1=) *, >' >- =, ; -*. ' 8*' 20',) . ' 6==*//6^ , 12' 5 +*2', 1' 62' //; . , - 1 ; ' =*-. 1265*' 8) 1 ' ; 20*-' +6- ^ 1 ; ' 0*. 526, 12. ' . ' . 1' 1 , *2' . =19*2' 1 ' 6. ' 0*. , 2*0', 1' 6=^ =*6-' 2' 6' 0 . , 62, ' 65*' 6. ' 6' 5-*6, ' 0*/ +*-*-' 6% ( ) *' -1 6/ =-1=) *, ' 6+ 0' . ** ? . ', 1') 6+*' D**2',) *' -. , ' 8) 1' . =19*' 1 ',) *' 4-*6, ' */ +*-*-' ; 20*-',) . ' 6==*//6, 12% : *' -*=^ -*. *2, . ',) *') *6,) *2' M,) *' 4*2, /*' 26, 12. X' -65 25' 620' ,) *' =*1=/*' M,) *' B*8 .) ' =*1=/*X' ? 65 2 25' 6' +6 2',) 25' 656 2. , ' B*) 1+6) ' 620' 656 2. , ') . ' & ((M . 6% / ' KX% : *' .6 . ' ' 18' 9218' ',) 6, ',) *' 1-0' .6+*, ') ') . ' & (M . 6% LL ' SX% ' ( ) 1 ; ') 6. , ' /1+*0' - 5), *1 ; . ^ 2*. . ' 620') 6, *0' 2 _ ; , J' .6 . ') *' 600-*.. 25') ? . */ ' ,1' : ?' 8) 1' 86. ' ,1' >1? *J' ,) *-* 1-*' 410' *+*2' ,) ' 410') 6,) ' ',) **' 8 ,) ' ,) *' 1 / 1 ' 5/602*. . ' 6D1+*',) ' */ /18. J' M . 6% L/+ ' X% 2' 6// ,) *' =6. . 65*. ' 7 2' 8) >)' ,) *' 4-*6, ' */ +*-*-' . ' .=19*2' 1 ' 6. ' ,) *' 21 2, *0' 2*J' D ' 6+ 0 ') *' . ' =/6 2/ ' + * 8*0' 6. ' . ; . ^ , 6 2 25',) *' >) 6-6>, *-' 1 '6' 9 25%

"!' ( ) *' =-1=) *, ' 6. 6) ' 6/. 1' ; . *. ' ,) *' 6==*//6, 12' ',) *' 21 2, *0' 2*J' 8 ,) ' -* *-*2>*', 1' ,) *' =-1? . *0' 0*/ +^ *-*-' D ; , ' 8) *2') *' 01*. ' . 1') *' . =*69. 1 ') ?' 6. ' 6' =-1=) ^ *, ' 1-' 5-*6, ' , *6>) *-% : *' 2, -10 ; >*. ') ?' 6. ' .6 25 ' ( ) *' = - , ' 1 ' ,) *' 1-0' 410' . ' ; =12' ? D*>6 ; . *',) *' 1-0' 410') 6,) ' ' ? *', 1' =-*6>) ' 5110', 0 25. ' ; 2, 1',) *' ? **9I') *') 6,) ' . *2, ' ? *', 1') 20' ; =',) *' D-1^ 9*2C) *6-, *0 ' , 1' =-1>/6 ?' / D*-, ' , 1' ,) *' >6=, +*. ' 620' ,) *' 1=*2 25' 1 ',) *' =- . 12', 1',) *? ' 8) 1' 6-*' D1 ; 20I' , 1' =-1>/6 ?' ,) *' 6>>*=, 6D/*' *6-' 1 ',) *' 1-0 ' 620',) *' 06 ' 1 ' +*25*62>*' 1 ' 1 ; -' 410I' , 1' >1? 1-; 6// ,) 6, ' ? 1 ; -2 J' *, >% M . 6% /L ' ' *, >%X% 3

>% 62 *' / ' . ',) *' 12/ ' 1,) *-' 1 ',) *' =-1=) *, . ' 8) 1' ; . *. ' ,) *' 6==*//6, 12' ',) *' 21 2, *0' 2*J' 2' -* *-*2>*', 1',) *' 4-*6, ' */ +*-*-' 620') *' =/6 2/ ' -*=-*. *2, . ') ?' 6. ' 21, ' 12/ f 6' =- 2>* ' D ; , ' 6/. 1' 6') 5) C=- *. , ' 62' *L= 6, 1-' 1 ' 5 ; /, % ' *+*2, ' 8**9. ' 6-*' 0*, *-? 2*0' ; =12',) ' =*1C' = *' 620' ; =12',) ' 1) / ' > , ' , 1' =; 2 .) ',) *', -62. 5-*. . 12 620', 1' ? 69*' 62' *20' 1 ' . 2. ' 620', 1' ? 69*' ->12> / 6, 12' 1-' 2 _ ; , ' 620', 1' D- 25' 2' +*-/6. , 25' - 5), *1 ; . 2*. . ' 620', 1' . *6/ ; =' ,) *' + . 12' 620',) *' =-1=) *> ' 620', 1% ',) *' ?1. ',) 1/ % 218',) *-* 1-*' 620' ; 20*-. , 620' ,) 6, ' -1?',) *' 51 25' 1-,) ' 1 ',) *' >1? ? 620 ? *2, ', 1' -*^ . , 1-*' B*-; . 6/* ?' ; 2, 1' '",) *' - 2>*' .) 6// D*' . *+*2' 8**9. ' 620',) -**. >1-*' 620', 81' 8**9. I' ,) *' > , ' .) 6// D*' D ; /, ' 656 2' 620',) *' 86// ' *+*2' 2', -1 ; D/1 ; . ' , ?*. I' 620' 6 , *-',) -** . >1-*' 620', 81' 8**9. ' .) 6// <*.. 6) ' D*' >; ', 1 ' D ; ', 21, ' 1-') ? . */ J' M 62% L ' K CKSX% **'

> > *OF' " ! M %X' - 25',) *' =*- 10' 8) >)' */6=. *0' -1?',) *' >/1. *' 6/ ' 1' 6-*' 2' 6' 0 + 2*' -*+*-' . **2 . I , 1') 6+*' D**2' . 1' >1? ? 12' 6*,) *' <*.. 6) ' 1-' 21 2, *0' 2*' 620',) . ' . ' , // ,) *' 26? *' 8) >)' ,) *' ; 2D*/ *+ 25' B*8. ' 1-0 26- / ' *? =/1 ' 8) *2' . =*69 25' 1 ') ?' 8) 1? ',) *' . , // ' /119' 1-' , 1' 6+*25*',) *' -' 8-125. ' 620' *. , 1-*',) *? ' ' ? 1-*' ,) 62',) *' -' 1-? *-') 121-. %

<*.. 6) ')- . , ' 21 2, *0' . ' ,) *2 ' 6', *-? ' *_ ; +6^ /*2, ', 1' >12. *>-6, *0' . 6>-*0' . *, 76=6-, I' 620' 6. ' ,) *' -*>^ 1-0' 1 ' 0 + 2*' -*+*/6, 12' . ' >6// *0' D ' 86 ' 1 ' *? 2*2>*' -" ' D/*' 1-' D119' . 1' . ' ,) *' 4-*6, ' */ +*-*-' >6// *0' -" ' 77*. . 6) ' 1-' 21 2, *0' 2*' ? ; >) ' 2',) *' . 6? *' 86 ' 6. ') *' . ' , *-? *0' -" ' < 62 ' -" ' 12' 1 ' < 62 ' **' 4

K% -" ' % ' 1 ',) . ' 0*. 526, 12' 6. ' 5 +*2', 1' B*. ; . ' 6' % . *>1206- ' 620' 626/15 >6/ . *2. *', 1' =*-. 12. ' . *, ' 6=6-, ' 1 ' 6[6-*,) ' ? 6 ' 218' -*60 / ' D*' 6=-*) *20*0' A D ' 410' 1-' ?=1-, 62, ' =; -=1. *. ' ,) 1 ; 5) ' 21, ' 6>, ; 6// ' ' M %X' 1' 6, , *2, +*' -*60*-' 1 ',) *' /0' (*. , 6? *2, ' >62' 621 2, *0% ( ) ; . ' -; . ' ,) *' 9 25' 1 ' *-. 6 ' . ', *-? *0' ,) *' 1-0 . ' 621 2, *0J' M . 6% L/+ ' XI' ,) *' : *D-*8' =6, -^ 6->) . ' 8) *2' . 1A1; -2 25' 2' 62662 ' 6-*' , *-? *0' 410 . ' 621 2, *0' 12*. J' M . 6% >+ ' XI' 620' ,) *' . -6*/ , .) ' =*1^ 1=*- 10 ' 620 ') 18*+*-' +6- *0' ? 6 ' D ',) *' 5 ; -6, +*' -*=^ -*. *2, 6, 12. ' 5 +*2' 1 ') ? ' 21' -*6. 126D/*' 01 ; D, ' >62' D1

2,-,6 2*0'6.',1',)*' 0*2, , '1',)*' 20 + 0;6/% ( ); .' ,)*' <*.. 6)' .' ,)*' .6?*' =*-.12'6.' I :)*' .**0'1',)*' 81?62 I 8)1'86.',1' 'D-; .*',)*')*60'1',)*'.*-=*2,J' M4*,Ť ' XŤ `-,)*'.**0'1' D-6)6?'2'8)1?'6//',)*' 26 12.'1',)*'*6-,)' 8*-*',1'D*'D/*..*0J M4*2% LL ' QX'M,)*'5-*6,' =-1=)*,',1'D*'-6 .*0';='/9*';2,1(1C .*. J' 8)1?'6// 8*-*',1'D*'-*_;-*0',1')*6-'620'1D*'M *;,% L+ ' SXŤ ,)*' '=- *.,'6 ,*-',)*' 1-0*-'1'<*/C >) [*0*9 ',)*'-10'1;,'1',)*',.*?'%1'B*..*'8)>)' .)1;/0'7S20' 1-'62'*2. 52'1',)*'=*1=/*',1'8)>)',)*' 4*2, /*.'.)1;/0'.**9J M .6% L ' XŤ ,)*'+-5 2 .' .12' 8)1.*'26?*'86.',1'D*' ?? 62;*/M .6%+ ' XŤ ,)*' D-62>)'1'B*)1+6)J'M .6% +'KXŤ ,)*' 25*/1 ,)*' 1+*262,J'M<6% /XŤ ,)*' 1-0'1',)*'(*?=/* J' *,>%'*,>% M S%X% &)*2'8*.6 ',)*2',)6,B*.;.' .',)*')-.,'8*2'*>;.6 ' () .' .' :*'1'8)1?'<1.*.' 2',)*'/68'620',)*'=-1=)*,.'0 0'8-,*J'MB1)2' ' XŤ 620'6/),)6,',)*'.6'1': ?' .',-;*'1'B*.;. ()*'.;?'1',).'=-1=)*,>',*.,?12'-*.=*>, 25') ?' .',)6,')*'.)1;/0'D*/125',1',)*'+*-') 5)*.,'1-0*-'1' D* 25',)*'2>1??;2>6D/*'26?*'B*)1+6)'D* 25'-*=-*^ .*2,*0'6.'-5), ;// 'D*/125 25',1') ?Ť ,)6,') .'51^ 25.' 1-,)')6+*'D**2' -1?'1/0' -1?'+*+-/6., 25J'M< >% +'KXŤ ,)6,') .' 6==-1=-6,*' 6==*//6, 12.' .)1;/0'D* & 120*-;/' 1;2.*//1-',)*' < 5), '410J'M .6% L' SXŤ ,)6,')*'.)1;/0'6..;?*');?62'26,;-*'620'D*>1?*' '6'>)/0'D1-2J'1',)*'.-6*/, .)'26, 12'1',)*',-D*'1' B;06)'M4*2% L/L' X'1',)*'6?/'1' 6+0'M .6% L' XŤ ,)6,',)*'1D A*>,'1')./'6==*6-62>*'.)1;/0'D*',)*' .6/+6, 12'1'?629 20'D1,)'B*8.'620'4*2, /*.'M .6% L/L'SXŤ ,)6,')*'.)1;/0'D*'0*.= .*0'620'-A*>,*0J' ;-*%J' ()*' =-,'1',)*'1-0'86.';=12') ?J'*,>% 1')./>1;2,- ?*2Ť,)6,')*'.)1;/0'D*'>';'1'D;,'21,' M .6% L'KC X% :*'86.'0+2*/' S ()*' 1-')?.*/TJ',)6,')*'.)1;/0'D*' 81;20*0'1-'?*2.' 6),)*'-.*2,')?%J' B*)1+6)'.60'1',)?' ()1;'6-,' -62.5-*.. 12.'D-;.*0'1-',)*'-'2_;,*.'620';20*-^ ? '.*-+62,' 2',)**' 8 // 'D*' 5/1- *0J'*,>% M .6% 51',)*')>)6.,.*?*2,'1',)*'-'=*6>*TJ',)6,'D')./ L' SX% *)1/0J'.6 .'B*)1+6)' ')6+*5+*2' .,-=*.'?*2'.)1;/0'D*')*6/*0TJ',)6,' ,)*' 1-0'.)1;/0' : ?' 1-'6 8 ,2*..',1',)*'=*1=/*' '6'/*60*-'620'>1?^ /6'12') ?',)*' 2_;, J' 1'?*2Ť,)6,''*L6>,12' ?620*-',1',)*'=*1=/*%J' 'M% :*' .'0+2*/' S 7 .)1;/0'D*' ?60*' 620')*'.)1;/0'62.8*-' ,TJ',)6,')*' B*.;.'1' 6[6-*,)J.6 .',)*'6=1../*' *,*-'86.' 6' .)1;/0' ?69*')./71;/62'1 *-25'1-'.2TJ',)6,'6,*-' ?62'6==-1+*0'1'410'6?125' 71,'D'?-6>/*.'620')*.*'.; *-25.')*'.)1;/0'D*' *L6/,*0'620'*L,1//*0' 8120*-.'620'.52.'8)>)'410'0 0'"')?'2',)*'?0., 620'?60*'+*-')5)TJ',)6,')1'.)1;/0' .**'1',)*' 1'A1;J'M >,.' 'KKX% ()*' 6,)*-'8)1')6,)' .*2,' ,-6+6/'1')./.1;/620'D*'.6,. *0'620'D')./9218/^ ? * J'.6 .'B*.;.')?./*/')6),)')1?*'8,2*..'1'?*J *05*'.)1;/0'.6',1')?''',6,'?'-5),')620';2,/'?69*' MB1)2'+'N X% () .')*'0 0'656 2'D'6'+1>* ,)2*'*2*?*.',)'11,..11/J'M .6% >L' XŤ ,)6,')*' -1?')*6+*2'6.'8*//6.'D',)*'?-6>/*.'8)>)'*=*-^ .)1;/0'D*'D-1;5),'2*6-',1',)*' 2> *2,'1'6 .'620' 1-?*0'"',)6,'0+2*=18*-'8/>)'86.'*_;6// ')./ ,)6,',1')?'.)1;/0'D*'5+*2' 01?2 12'620'5/1- ' 620'6'9 2501?',)6,'6//*=*1=/*'620'26, 12.'620'/62^ 620')./ 6,)*-.% ;>)'.',)*'?=1-,'1',)*'=6==*//6^ 5;65*.'.)1;/0'.*-+*')?'62'*+*-/6., 25'01?2 12' N% ',)*.*'1D.*-+6, 12.'6-*' >/*6-/'6==-*)*20*0' 8)>)'.)6//21,'=6..'68 6A' 9 2501?',)6,'.)6//21,' ,)*-*' 8 // D*'/ ,,/*'0 >;/,' 2'5+25'6'.6,.6>,1- D*'0*..-1 *0J M 62%+ ' N' X% //',).'.'?=/*0' 62.8*-',1',)*'_;*.,12'8)>)')6.'.1?*,?*.'D**2'=-1^ 2'.6 25'B*.;.'.',)*')-.,% 2',)*'=/6 2*-'/625;65*' =1.*0'8)*2'0 0'B*.;.'D*>1?*')-.,H'8)*2'86.')* 1',)*' *8'(*.,6?*2,''B*.;.'.',)*')-.,J'.'*_;+^ '1'410H' & *')6+*'.**2',)6,',)*'*L=-*.. 12' 6/*2,',1'B*.;.'.' 410'?62 *.,'2',)*' /*.)J'M '(?' 21,'8120*-',)6,',-'*-*2>*.'6-*'+6- 25% ()*' %= ' 4X'.)*' 12'1'410'8')1'2')?62'26,;*-25%e'620'0*6,)'2',)*'-11?'1',)*' 1D*0*2>*'620'.;*-25%e'620'0*6,)'2',)*'-11?'1',)*' =1.*.'86.'1'>1;-.*' -1?'*,*-),A7%)*' 86.'.*',;=' 5;/,')67'1D,6 2*0'.6/+6, 12' 1-',)*?'620'6//=18*-' -1?'*+*-/6., 25J'M -1+%+ 'KNXŤ)*' 86.'1-*1-^ 2')*6+*2'620'*6-,)'1-')?.*/',)6,')*'?6 '5+*'*,*-^ K X% :.'_;6/ >6, 12.'.;>)'1',)*?'6.'8*-*'>12*-^ 26//*',1'6//>1?25',1',)*'6,)*-',)-1;5)')?% -*0'8*-*'D*.,18*0'2'1-'0;-25').'2>6-26, 12'8/>2' MK%X (&)/*',)*'.,6,*?*2,' B*.;.'.'.',)*')-.,J'.' 410'621 2,*0')?'8,)',)*':1/'4)1.,'620'8,)' ,);.'?6,*-6// '7; +6/*2,',1',)*'..6,*?*2,' '6//',)6,' =18*-J'M >,.'L'NQX% :.'>1??..12'?6'D*'>12.0^ .'.6 0'1',)*'4-*6,' */+*-*-'2',)*' /0'(*.,6?*2,' *-*0'6.'5+*2')?'8)*2'>6//*0',1'*2,*-'12',)*' ;2>^ >-=;-,*-'.'-;-;*'1': ?J'.'D-25.'?1-*0 -*>,/'D*^ 12, .1')'.'1 >%*' :*')?./'6,*-'_;1,25'2',)*' 1-*'1;-'?20',)1.*',-;,).'-*.=*>,25')?'8)>)',)*' . 26515;*'1' 6[6-*,)'2',)*'>1?7*2>*?*2,'1')./ 6=*/6,12' ,)*' 21 2,*0' 2*J'26,;-6// ' .;55*.,.% ,2 2.,-A',)*'=6..65*'-1?',)*'=-1=)*>*.'>' .6 6)'2' : *'.'6'=-1=)*,'6'=-%.,'620'6'9 25% :*'.',)*'5-*6,' ,);.'?=1-,'1',)*'=6==*//6^ ->+*6/*-'1'0+2*',-;,)T',)*'12/'*L=6,1-'1')?62' 0*>/6-*0' ' .',) .' >-=,;-*' ;/ //*0'2'A71;-5;/,'620'-*>12>/*-'1'?62',1'410T',)*'.;=-*?*'620' .1/*/*5, ?6,*-;/*-'1+*-',)*' ;20* .,620 25.'>12C *6-.%J' 20'2').'-*.;--*>,12'620'6.>*2.12'410'6.' .>*2>*7'620'6 *>,12.'1'?*2% 2').'=*-.12'620' ,)*-*86-0'1').'/1+25'-5),*1;.2*..'620')6,25'2^ 81-9'620'81-0'D').'.=-,'620'=-1+0*2>*')*;2^ _;, '021 2,*0')?'8,)',)*'1/1'5/602*..'6D1+*' 1/0.',)*',-;,)'8,)'-*.=*>,',1',)*'0+2*>)6-6>,*-'620').V*//18.J'M .6% L+'X'%*%>12*--*0'12')?'6'-*C 8 //'620'.1'>12+* .',' 2,1',)*'?20'6.',1'?69*',)*' c6/*=18*-'-;,/2'D/*..25.',1')?./'620'1,)*-.' *>,;6/?*62.'1'>12 1-?25'?62F8 //',1'410.'8 //' 6-'.;=*-1-',1',)6,8)>)'62A'9 25')60'*+*-'=1..*..*0' ?62.')>)6-6>,*-' :*')6.'D')./?69 25')2'6.',)*'6=1../*' *,*-'*L=-*..*.',' D1,)' .=1,/*..'6//C=*-*>,'1D*0*2>*'6?0',)*'.*+*-*.,'.;^7 1-0'620')-.,J'M >,.' 'NSX% .',1')./D*25' =*-25.' 1D*0*2>*';2,1'0*6,)'*+*2',=*-1-?*0'2'-*'*C >-1..J'.1'//;.,-6,*0',)*'*L>*//*2>*'1',)*'0+2*/68' 620',)*'8>9*02*..'620'0625*-'1'+1/6, 25',6.',1' ?69*',6'-5),*1;.',)25'2',)*A;.,'410J',1'A0.C , ,)*';2510/J',);.'=-1= , 6, 25',)*'1*20*0'?6A^ *.,'1')*6+*21'8)/*',)*'?62*.,6, 12'1',)*'0+2* /1+*'2'6==1 2, 25'620'6>>*=, 25',).'6,12*?*2,'8)*2' 6==-*)*20*0'D',)*'?20',)*'2/;*2>*'1',)*' :1/'=-,'D*>1?*.',)*'*+*>;6/?*62.'1'-*>12>/25' ?62',1'410'620',1').'/68'-62.1-?25')?'D',)*' -*2*8 25'1')./?20%J' 20'218'=1..*..*0'1''6//+18*-'2')*6+*2'620'*6-,)'1-')?.*/',)*'6//*.)J :*'.'1-0'1'6//%J' // *L,*-26/*+*+*2,.'620'6//.=-,;6/2/;*2>*.'6-*'*_;6// ';20*-')./>12,-1/' 620'6.'6'9 25')*'*L*-,.')./6'1;,)1-,'2'>6--25'2,1' ;// *>,',)*'5-*6,'=;-=1.*,8)>)')./-*+*/6, 12.'6.' 6'=-1=)*,'620')./5-*6,'6,12 25'.6>-># 6.'6')5)C =-*.,'8*-*2,*20*0',1'6>>1?=/.)% *# ' < ! MN%X ,;',)*'; // ?=1-,'1-'),)*'6==*//6, 12',)*' ' .'21,'I*;D-1;5),'1;,% % 20>6,*.',)6,':*',1'8)1?' ,'D*/125.'./',)*' '=-*=),'=- *.,'620'9 25 '' 21,',)6,')*'86.'621 2,*0'D'?6,*-6/1/'D;,',)6,')*' 86.'0+2*/' %% 1'4 ' '620'9 ',1'D*',)*'6+1;-'1'?*2% ()*.*'6-*',)*'0*6.' 8)>)',)*',*-?' ' .**?.'.=*>6// '2,*20*0',1' >12+* ' !B*.;.'86.'0+2*/' %% 1' ',)*1 >*.')*' //*0% :*0 0'21,'6..;?*',)*'*?' ')*'86.'>6//*0'1' 410'6.'86.' 6-12J'M:*)%+'x' ' *)1/0'?2*> ' 2'8)1?'?'.1;/0>/5),*,)%J' S% :*'86.'0+2*/' 4 S' 410'56+*',1')?',)*' =-,'21,'D'?*6.^ ;-*%J' ()*' =-,'1',)*' 1-0'86.';=12')?J'*,>% M .6% L'KC X% :*'86.'0+2*/' S ()*' 6,)*-'.*2,')?%J' B*)1+6)'.60'1',)?' ()1;'6-,' ? '.*-+62,' 2',)**' 8 // 'D*' 5/1- *0J'*,>% M .6% L/L'SX% *)1/0J'.6 .'B*)1+6)' ')6+*5+*2' : ?' 1-'6 8 ,2*..',1',)*'=*1=/*' '6'/*60*-'620'>1?^ ?620*-',1',)*'=*1=/*%J' 'M% :*' .'0+2*/' S B*.;.'1' 6[6-*,)J.6 .',)*'6=1../*' *,*-'86.' 6' ?62'6==-1+*0'1'410'6?125' 71,'D'?-6>/*.'620' 8120*-.'620'.52.'8)>)'410'0 0'"')?'2',)*'?0., 1'A1;J'M >,.' 'KKX% ()*' 6,)*-'8)1')6,)'.*2,' ?*J'.6 .'B*.;.')?./*/')6),)')1?*'8,2*..'1'?*J MB1)2'+'N X% () .')*'0 0'656 2'D'6'+1>* -1?')*6+*2'6.'8*//6.'D',)*'?-6>/*.'8)>)')*=*-^ 1-?*0'"',)6,'0+2*=18*-'8/>)'86.'*_;6// ')./ 620').'6,)*-.% ;>)'.',)*'?=1-,'1',)*'=6==*//6^ 12'" ! N% ',)*.*'1D.*-+6, 12.'6-*'>/*6-/'6==-*)*20*0' ,)*-*'8//D*'/ ,,/*'0 >;/,' 2'5+25'6'.6,.6>,1- 62.8*-',1',)*'_;*.,12'8)>)')6.'.1?*,?*.'D**2'=-1^ =1.*0'8)*2'0 0'B*.;.'D*>1?*')-.,H'8)*2'86.')* '1'410H' & *')6+*'.**2',)6,',)*'*L=-*.. 12' 6'5;-6,+*'1-'626/15>6/12*'620',)*-*1-*'8*2**0' 21,'8120*-',)6,',-'*-*2>*.'6-*'+6- 25% ()*' %= '1',)*' 6+1;-'9*'6//,)*'1,)*-'0+2*'=;-^ =1.*.'86.'1'>1;-.*' -1?'*,*-),A7%)*' 86.'.*',;=' -1?'*+*-/6., 25J'M -1+%+ 'KNXŤ)*' 86.'1-*1-^ K X% :.'_;6/ >6, 12.'.;>)'1',)*?'6.'8*-*'>12*-^ -*0'8*-*'D*.,18*0'2'1-'0;-25').'2>6-26, 12'8/>2' 410'621 2,*0')?'8,)',)*':1/'4)1.,'620'8,)' =18*-J'M >,.'L'NQX% :.'>1??..12'?6'D*'>12.0^ *-*0'6.'5+*2')?'8)*2'>6//*0',1'*2,*-'12',)*' ;2>^ ,12.'1')./1>*%* :*')?./'6,*-'_;1,25'2',)*' . 26515;*'1' 6[6-*,)'2',)*'>1?7*2>*?*2,'1')./ ,2 2.,-A',)*'=6..65*'-1?',)*'=-1=)*>*.'>'.6 6)'2' 8)>)')./-*+*/*-'1'0+2*',-;,)T',)*'12/'*L=6,1-'1')?62' 0*>/6-*0' ' .',) .' >-=,;-*' ;/ //*0'2'A71;-5;/,'620'-*>12>/*-'1'?62',1'410T',)*'.;=-*?*'620' .1/*/*5, ?6,*-;/*-'1+*-',)*' ;20* .,620 25.'>12C *6-.%J' 20'2').'-*.;--*>,12'620'6.>*2.12'410'6.' .>*2>*7'620'6 *>,12.'1'?*2% 2').'=*-.12'620' ,)*-*86-0'1').'/1+25'-5),*1;.2*..'620')6,25'2^ 81-9'620'81-0'D').'.=-,'620'=-1+0*2>*')*;2^ _;, '021 2,*0')?'8,)',)*'1/1'5/602*..'6D1+*' 1/0.',)*',-;,)'8,)'-*.=*>,',1',)*'0+2*>)6-6>,*-'620').V*//18.J'M .6% L+'X'%*%>12*--*0'12')?'6'-*C 8 //'620'.1'>12+* .',' 2,1',)*'?20'6.',1'?69*',)*' c6/*=18*-'-;,/2'D/*..25.',1')?./'620'1,)*-.' 6-'.;=*-1-',1',)6,8)>)'62A'9 25')60'*+*-'=1..*..*0' ?62.')>)6-6>,*-':*')6.'D')./?69 25')2'6.',)*'6=1../*' *,*-'*L=-*..*.',' D1,)' .=1,/*..'6//C=*-*>,'1D*0*2>*'6?0',)*'.*+*-*.,'.;^7 1-0'620')-.,J'M >,.' 'NSX% .',1')./D*25' =*-25.' 1D*0*2>*';2,1'0*6,)'*+*2',=*-1-?*0'2'-*'*C

317 ’)0‘ 5%=‘ 0 ’ ; 9‘ 5%=‘ = (9‘ ;0‘ !%343*‘ (# %1786*3*‘%1‘)5%# #$37%3# 0,’(10%1)%1<’ 3#$37%(889‘)53‘ !%##; 83‘ *3#731)‘ 0,’)53‘ $% %)‘01‘5%=’ %1‘ 5%# ; ($)%#= ’ ( ) * . *‘ .,6,* ? *2,. ’ 8 ,)‘ -*56-0‘ ,1‘ ,) *‘ ?=1-,’ ,) *‘ 6==*//6, 12‘ ,) *‘)- . , ’ .)18‘ ; .’)18‘ 8*‘ 6-*‘ ,1‘ ; 20*-.,620‘ ,) *‘ .,6,* ? *2,’1 ’,) *‘ 6=1../*‘B1)2%‘ ‘ &)1^ .1*+*-‘D*/ *+*.’ ,) 6,’B*. ; .’ .’ ,) *‘)- *,’ .’D1-2‘ 1 ’ 410J‘ M ’B1)2‘ +’ X’ %‘*% .’ ‘6’ >) /0‘ 1 ’ 410 J‘ ‘/1-2’ 656 2 J‘ 6‘ 2*8‘ >-*6, ; -*TJ‘ 620‘ ,) *‘ . ? /6-’ 0*>/6-6, 12‘ 1 ’,) *‘ 6=1../*‘ 6 ;/ ’ ‘ 1’ ? 62‘ >62‘ .6 ’,) 6,’B*. ; .’ .’ ,) *‘ 1-0 J‘ %‘ *%,) *‘)- .,’ ,/ *‘ <*.. 6) ’ J‘D ; ,’D ’,) *‘ : 1/ ’ 4) 1..J‘ M /` 1-%‘L ’NX’ ,’ .’ =/6 2‘ ,) 6,’ ,) *‘ =-1=1. , 12 ’ B*. ; .’ .’ ,) *‘)- . , J‘ 8) *2‘ ; 20*-.,110‘ 2‘ ,) *‘ /6, ; ;0*‘ 1 ’ ? *62 25‘ 8) >)‘ 8*‘)6+*‘ .)182‘ D*/125.’ ,1‘ , ’ >12,6 2.’ 6’ >1? =/*.*‘ .; ? ? 6- ’1 ’,) *‘ ,-; ,)’ -*. =*>, 25‘ ,) *‘0 + 2*‘ ? *,)10‘ 1 ’.6/+6, 12%‘ (1‘D*/ *+*‘ ,) 6,’=-1=1. , 12 ’- 5) ,^ / ’ ; 20*-.,110 ’ .’ ,1‘ D*/ *+*‘ ,) *‘ 41.=*/ ’ 7,)*‘ .6+ 25‘ ,? , ’ ‘D ’,) *‘ 6 ,)‘ 1 ’8) >)‘ 6‘ ? 62‘ . ’620‘D ’,) *‘ 6 ,)‘ 1 ’8) >)‘ 12/ ’6‘ ? 62‘ >62‘ D*‘D-1 ; 5) ,’ 2,1‘ ,) *‘ -*/6, 12‘ 1-‘ 1-?*0‘ ,1‘ ,) *‘ >)6-6>,*-‘ 1 ’6‘ >) /0‘ 1 ’ 410‘ 620‘ ,)1 ; 5)‘6’ ? 62‘ ? 6 ‘8 ,)1 ; ,’0 + 2*‘ 2 /; *2>*‘) *‘D-1 ; 5) ,’ ,1‘ 6>9218/*05*‘ ,) 6,’ B*. ; .’ .’ ,) *‘ 1-0 J‘ <*.. 6) ’ ,) *‘ - 2>* J‘620‘*+*2‘ -?/ ’,1‘D*/ *+*‘ ,) 6,’ ,) *. *‘81-0.’ *?D10 ’6‘ ,-; ,) ’ *,’21‘ ? 62‘ >62‘ D*‘D-1 ; 5) ,’ -*6// ’ ,1‘ /%*/ *+*‘ 620‘ >1-0 6// ’ ,1‘ 6>9218/*05*‘ ,) *‘ ,-; ,)’ >12^ ,6 2*0‘ 2‘ ,) *. *‘81-0. ’ 6.’ 8*‘)6+*‘ 6,,* ? =,*0‘ ,1‘ ; 2 1/0‘ , ’8 ,)1 ; ,’6‘ =*>; / 6-’0 + 2*‘ 2 /; *2>*%‘ ( ) 6,’B*. ; .’ . ’ ,) *‘ 5-16,’ >1 ? *-‘ M ;’ S ‘ ,dN8 W‘ .’ ,) *‘ ,*. , ^ ? 12 ’1 ’410‘ ,) *‘ 6 ,)‘ 1 ’8) >)‘ >12., ; ,.*.‘ 6‘)- .^ , 62 ’,) *‘ ’ " ’ ’ 8‘ ,1‘ 8) >)‘ ,) *‘ = - , ’,) *‘ 86‘ ,F-’ 620‘ ,) *‘D/110‘ ; 2 ,*‘ 2‘ D*6- 25‘ 8 ,2*. .’M ’B1)7‘ +’ S‘ RX% ’ : 1/? *. ’2‘ ,,1 .’ * % 1‘ .%‘+%‘B*. ; .’)- . ,’ -1?’ 8) >)‘ ,) .’ 6-, >/*‘ .’,69*2’ 8 ,)‘ ? 10 /*6, 12.%‘ **‘ .

: (’ ’ %‘ **‘ ! : (’ $ d ’ %‘ **‘ $. ! : (’ (:’ %‘ **‘ $. ‘g (L $! : (’ (’ %‘ **‘ $ #‘g ? f A : (’ : $ < (’ %‘ **‘ ’$ #‘‘g ? ! : (’ < 4 ’ ’ ((’ %‘ ()*‘ 41.=*/.’ >12,6 2‘ 21‘ 21, >*‘ 8) 6,*+*-‘ 1 ’,) *‘ =*-.126/ 6=^ =*6-62>*‘ 1 ’)- .,%‘ ()*‘ =6..65*.’ 2‘ ,) *‘ %‘ (%‘ 8) >)‘ -* *-‘,1‘) .’=*-.12‘ M .6%‘/ ’ ‘ /’ ‘KX‘ .**?’ 6/? 1.,’/ 9*‘ =-*? 12 ,1- ’ 86-2 25.’ 656 2.,’ 62 ’ 81-.) =’ 1 ’)- .,’ ’6 ,*-’,) *‘ /*.)%J‘ ()*‘ =1.,1/ >6/‘ 6,) *-.’ 6-*‘ 6.’ . ^ /*2,’ 12‘ ,) .’ . ; DA*>,’ 6.’ ,) *‘ >- =,; -*.’ 6-*%‘ ,) *-’ ,) *‘) ; ->) ’ 86.’ ,11‘ .= - , ; 6/‘ ,1‘0*. -*‘ . ; >)‘0*.>- =, 12. ’ 1-‘ ,.’/*60*-.’ 8*-*‘ ,11‘ 6 ,) ; /‘ ,1‘ 2+*2‘ ,) *? %J‘ 1‘ >1?=/*,*/ ’ 20**0 ’) 60‘ 6// ,-60 , 12‘ 1 ’ ,) *‘ =*-.126/ 6==*6-62>*‘ 1 ’)- .,’0 *0‘ 1 ; , ’ ,) 6, ’6.’ *6-/ ’6.’ 6‘) ; 2^ 0-*0‘ *6-.’6 ,*-’D .’0*6,) ’6‘ /125‘ >12,-1+*-.AI’ 6-1.*‘ 6.’ ,6‘ 8) 6,*) -*‘ 86.’ 2‘ 1-?‘ 620‘ *6, ; -.*.’6.’0*.D*‘0‘ D ’ ,) *‘ =-1=) *‘ ,’ .6 6) ’M : ’ ‘ /’ ‘KX‘ ’ 8 ,) 1 ; ,’ >1?*/ 2*..’ 620‘ D*6 ; , ’%‘ B ; . , 2‘ < 6-,A(’ (*-, ; // 62 ’620‘ - /‘ ,119‘ ,) *‘ 5-1 ; 20‘ ,) 6, ’)- . ,’86.’ =) 7. >6// ’ ; 2>1?*/ ’] [‘ *+*2‘0*>/6-*.’ ,) 6, ’)- .,’ +f76’,) *‘ ’ ; 5/ *. ,’1 ’,) *‘ .12.’ 1 ’ ? *2%J‘ ?D-1.*‘ B*-1?*‘ 620‘ ,) *‘ /6, *-’ 6,) *-.’ 5*2*-6/GE ’0*>/6-*0‘) ?‘ ,1‘) 6+*‘ D**2‘ ,) *‘ ?1.,’D*6 ; , ^ ; /’1 ’? 629 20‘M 0-12’ " ‘ %" 1‘ ’KSQX%‘ ( ) *‘ .=; - 1 ; ’ /*, ,*-’ 1 ’ *2, ; /; .’ ,1‘ ,) *‘ 1?62‘ .*26, *7‘ 0*.>- D 25‘)- .,’6.’ 6‘ ? 62‘ 1 ’21D/*‘6==*6-62>*‘ 8 ,)‘ >; -/*0‘) 6 -‘=6-,*0‘ 2‘ -12, ’620‘ 6// 25 ’06 9‘620‘5/1..E ’ 1+*-‘) .’ .) 1 ; /0*-. ’ 8 ,)‘ 6‘ .?11,) ’) 5)‘ 1-*) *60 ’ 6‘ .,-125’ -*00 .) ’ 620‘ --*5 ; /6-’ D>6-07‘ 06, *0‘ =-1D6D/ ’ 6/.1‘ -1?’ ,) *‘ ,) -0‘ >*2, ; -E ’) ; ’) 6.’D**2‘ 92182’ 2‘ ,’ =-*.*2, ’ 1-?’12/ ’ . 2>*‘ ,) *‘ */*+*2,) %‘ **‘) $ $ &) *2‘ =*-.*>; , 12‘ 6-1.*‘ ,) *‘ *6-/ ’)- ., 62.’ */, ’ .112‘ ,) *‘2**0‘ 1 ’ .1?*‘ + . D/*‘ . 52‘ 1 ’,) *‘ -‘ 6 ,) %‘ ( ) *‘ *6-/ *.,’ 601=, *0‘ 86.’ ,D*A7Z ’M_%‘ +%X%‘ ,*-86-0.’ ,) *‘ 5 ; -*.’ ; 20*-‘ 8) >)‘)- .,’ =-*.*2, *0‘) ? .*/ ’ 21,) *‘ *8‘ (*., 6 ? *2, ’ ‘ ,) *‘ ’ ,) *‘ M1 ’410‘ 8) >) I‘ ,69*,) ’ 686 ’,) *‘ . 2.’ 1 ’,) *‘ 81-/0X’ 62 ’ 6D1+*‘ 6// ’ 6.’ ,) *‘ 4110‘) *=) *-0‘ M_%‘ +%X‘ >6-- 25‘ 6‘ /6 ? D‘ 12‘) .’ .) 1 ; /0*-. ’ 8*-7‘ 2,-10 ; >*0‘ 2,1‘ ,) *‘ =6 2, 25.’ 620 .>; /=, ; -*.’ 1 ’ ,) *‘ 6,6>1?D.’ 1 ’ 1?*’ 6=/*. ’ 620‘ -6>; . *’ ( ) *‘ .1C>6//*0 ’ ? 1215-6?’ 1 ’)- ., ’ + [’ M 1-’ dA ’ ,) *‘ , 81‘ -.,’/*,,*-.’ 1 ’ ,) *‘ 2?2*‘ d=,1-;-%E ’8 ,)‘ 1-’ 8 ,) 1 ; ’ ,) *‘ /*,,*-.’ ’ K M,) *‘ /=) 6‘ 620‘ ?*^ 56‘ 1 ’,) *‘ =1>6/ =.%*X’ 6==*6-.’ 6D1 ; ’ ,) *‘ , ?*‘ 1 ’ 12^ .,62, 2*‘ M ’NN X%‘ **‘ ’ ’ ’ ‘g L / ’ ‘g $ ’ !

56 2 ’ ,) *‘ D*. .’ >/6. .’ 1 ’=6562’ ,) 29*-.’ 2‘ ,) *‘ 1^ ?62‘ *?= -*’ *+*2‘ D* 1-*‘ ,) *‘ 1 > 6/ 601=, 12‘ 1 ’)- .^ , 62 , ’) 60‘ D*>1?*‘ 0 ..6, . *0‘ 8 ,)’ ,) *‘ >1?=/ >6, 12.’ 1 ’=1/ ,) *‘ .? ’620‘ 8*-*‘ .**9 25‘ 1-’ 6‘ . ?=/*-’ 6 ,) %‘ *-) 6=.’ ,) *‘ ? ..*-. ’ 1 ’ ,) *‘ ; 2 , ’ 1 ’ ,) *‘ 410) *60 ’ 8D *) ’) 60‘ D**2‘ >*/*D-6, *0‘ ,) -1 ; 5) ’ 2*6-/ ’ 6// 1-?. ’ 1 ’=6562 . ?’ 2‘ .*>-*.’ -.*. ’) 60‘ D*>1?*‘ ,) *‘ >1? ?12‘ =-1=*-, ’ 1 ’ *0 ; >6, *0‘ ? 20.%‘ 5 =, 62‘ ?EI,) 1/15 ’ 8 :) ’ ,) >‘ 6; 2‘ 6.’ , .’ 5-*6, ’ >*2, -*.’) 60‘ 6/.1‘ ?60*‘ , .’ ?^ =-*.. ’ 12‘ ,) *‘ 1?62‘ ? 20%‘ 20‘ ,) ; .’ , 186-0.’ ,) *‘ /6, *-’ =*- 10.’ 1 ’,) *‘ . ; =-*?6> ’1 ’=6562 . ?’ 2‘) *‘ 1^ ?62‘ *?= -*’ &% ’6.’ ,) *‘ 0*, ’ 1 ’,) *‘ .; 2’) 60‘ 6.^ . ; ?*0‘ ,) *‘ >) * ’ =/6>*‘ 2‘) *6,) *2‘ 81-.) =%‘ .’ 20 ^ >6, 25‘ ,) 6, ’)- . ,’ 86.’ ,) *‘ , -; *‘ / 5) ,’ 1 ’,) *‘ 81-/0 J‘ ,) *‘ ; 2‘ 1 ’- 5), *1 ; .2*. .J ’ 7,)*‘ ?1.,’ 6+1-. *‘ 5 ; -*‘ ; .*0‘ 2‘ .=*69 25‘ 1 ’,) *‘ 6+ 1 ; -’ 2‘ ,) *‘ *6-/ ’ >*2, ; - *.’ ,) .’ +*- ’ 5 ; -*‘ 1 ’ =1//1’ 86.’ 1 ,*2‘ 2, -10 ; >*0‘ 6.’ 20 >6, 25‘) - .,%‘ , %" ’ &6.’ 6/.1‘ 1 ,*2‘ ,) ; .’ 2, -1^ 0 ; >*0 ’6.’ 20 >6, 25‘ ,) 6, ’)- . ,’ .’ ,) *‘ , -; *‘ >) 6-?*-’ 1 ’ ,) *‘ *+ /*=6.. 12.’1 ’,) *‘) ; ?62‘) *6-, ’ 20 >6, *0‘D ’,) *‘ D*6. . ,’ ,) 6, ’ _ ; *, / ’ / . ,*2*0‘ ,1‘) .’ ?; . >’ 620‘ ,) *‘ , -; *‘ -; /*-’ 1 ’,) *‘ =18*-.’ 1 ’ 26, ,:-*’ ’ 20 >6, *0‘ D ’,) *‘ , -**.’ 620‘ 1,) *-’ =/62, .’ D18 25‘ ,1‘) .’ ?; . >%

( ) *‘ 5; -*‘ 1 ’,) *‘ 4110‘) *=) *-0 ’ ; . ; 6// ’ 6‘ D*6-0^ /*. .’ 1 ; ,) ’ 21, ’ 1+*-’ , 8*2, ’ *6-.’ 1 ’ 65*‘ 8 ,)’ /125’ >; -/ ’) 6 -’ 620‘ 6‘ A1 ; /‘ >1; 2, *262>*‘ 56+*‘ ,) *‘ ?1. , ; . ; 6/‘ , =*‘ 1 ’,) *‘ =*-.126/‘ 5; -*‘ 1 ’)- . ,’ 8) *2‘ -*=^ -*.*2, *0‘ 12‘ ,) *‘ .6->1=) 65 ’020‘ 2‘ .1?*‘ 1 ’,) *‘ -*.>1*. ’ 1 ’,) *‘ 6,6>1?D.%‘ < 62 ’1 ’,) *. *‘ .6->1=) 65 ’6-*‘ 218‘ 2‘ ,) *‘ < ; .*; ?’ 1 ’,) *‘ 6,*-62%‘ 2*‘ 1 ’,) *‘ 2 1., 2^ ,*-*., 25‘ 1 ’,) *. *‘ 1 ; ,) ; /‘ 5; -*.’ 1 ’,) *‘ 6+ 1 ; -’ 2‘ .>; /=, ; -*0‘ ?12; ?*2, .’ .’ ,) 6, ’ 2‘ , / >’ , 1?D‘ 1 %B ; 2 ; .’ 6...7.’M % %N RX’ 2‘ ,) *‘ >) ; ->)‘ 1 ’ ,%‘ *,*-’6, ’ 1?*’ 2‘ 8) >)‘)- .,’ .’-*=-*. *2,*0‘0 .=; , 25‘ 8 ,) *‘ 01>^ ,1-.%‘ ( ) .’ , =*‘ 1 ’,) *‘ 6+ 1 ; -’ 6.’ 6‘ 1 ; ,) ’ 6==*6-*0‘ 656 2‘ 2‘ .1?*‘ ?62; .>- =,. ’620‘ 2‘ 1,) *-’ =6 2, 25.’ 1 ’,) *‘ *6-/ ’ =6-, ’ 1 ’,) *‘ < 00/*‘ 5*.%

; ,*‘ 6‘ 0 *-*2, ’ , =*’) 18*+*-’ =-*01? 26,*0‘ 6, ’ 6‘ /6, *-’ =*- 10‘ 2‘ 6//‘)- ., 62‘ 6-, ’ ,) -1 ; 5) ’ ,) *‘ *2, -*‘ < 00/*‘ 5*.%‘ ( ) *‘ -.,’*L6?=/*‘1 ’ ,’1>>;-.’ 2‘ 6‘ ,6D^ /*, ’1 ’ +1- ’218‘ 2‘ ,) *‘ 6, >62’ ? ; .*; ?%‘ ( ) *‘ .*>120 ’ 620‘ D ’ 6-’,) *‘ D*, ,*-’*L6?=/*‘1 ’,) .’ , =*’ .’6‘ =6 2, ^ 25‘ 2‘ 6’ >) 6=*/‘ 2‘ ,) *‘ >6, 6>1?D.’ 1 ’ 6// .,’ .’ >12. 0*-*0‘D ’ -*>*2, ’ 1?62‘ 6->) .*1/15 .,.’ , 1‘ D*‘ 1 ’, ‘ 1‘ .*>120‘ >*2, ; - ’ D ; ’,) .’ .’ 21, ’ 6, ’ 6// =-1D6D/*%‘ ’ -*=-*.*2, .’ ,) *‘ 6+ 1 ; -’ 6.’ 6D1 ; ’,) -, C,) -*‘ *6-.’ 1 ’ 65*‘ 8 ,)’ 6‘ .1?*8) 6, ’ */1256, *0‘ 1+6/‘ 6>*‘ D*6-0*0 ’ 8 ,) ’6‘ 5-6+*‘ 620‘ .1?*8) 6, ’ ? */62>) 1/ ’D ; .’ , // .8**, ’ 620‘ D*2 52‘ *L=-*.. 12‘ 1 ’ 2A ; -*0‘ 221>*2>*%‘ ( ) *‘ *6^ , ; -*.’ 6-*‘ =1, ’ 1‘ D*‘ -*>152 . *0‘ 6.’ 0 .,2>, +*/ ’ 4-**9 ’ : 1?62’ 1-’ B*8 .) ’ D ; ’,) *‘ 6-*‘) 5) / ’ 0*6%‘ ( ) *‘ D-18‘ .’) 5) ’ ,) *‘ D*6-0‘ .’ .=6-.*’ .1?*8) 6, ’ =1 2, *0 ’ 620‘ 1 ’6’ -*00 .) ’) ; *’ ,) *‘) 6 -’ =6-,.’A2’,) *‘ ? 00/*’ 620‘ /18.’ 2‘ 6D ; 2062, ’ >; -/ 25‘ ?6..*.’ 1+*-’,) *‘ .) 1 ; /0*-.%‘ ’,) *‘ ? 62 ’ +6- *, *.’ 1 ’ -*=-*.*2, 6, 12.’ 1 ’) - ., ’ 1 ’ 8 <>)’ ; 5 ; ., 2*‘ .=*69.’ 6.’ *L .,25‘ 2‘) .’ 06 ’,) .’ ,E=*‘ .112‘ 56 2*0‘ ,) *‘ =-*01? 262>*‘ 2‘ ,) *‘)- ., 62‘ 81-/0’ 620‘ , ’) 6.’) */0‘ ,.’ =/6>*‘ , /‘ ? 10*-2‘ , ?*.‘ 2‘ ,/7*‘ ?1.6 >.’ 1 ’,) *‘ 6. / >6.’ 620‘ ,) *‘ [62, 2*‘ >) ; ->) ^ *.’ 2‘ 1?*‘ 12.,62, 21=/*’ 620‘ 6+*226’ , ’ 56 2*0‘ 62‘ 2*L=-*.. D/ ’5-620*; -’ 8) >)‘ 86.’ 21, ’*2, -*/ ’/1.. ’ 0 ; - 25‘ ,) *‘ 0*>60*2>*‘ 1 ’,) *‘ .1C>6//*0‘ [62, 2*‘ =*- 10‘ 1 ’=6 2, 25‘M % %‘ 4 C X’ /?1.., .’ 1- 5 26/ =18C7 *-’ 86.’ -*2*8*0‘ ; 20*-’ ,) *‘) 620‘ 1 ’4 1,,1%‘ $’ 26// ’ -*6>) *0‘ , .’) 5) *.,’ 0*+*/1=?*2, ’ 2‘)- .,’6.’ ,) *‘ *^ 0**?*-’ 2‘ *126-01 .’ 6.,’ ;==*-’ 620‘ 2‘)- .,’ ,) *‘ B ; 05*‘ 2‘ < >)6*/ 25.*’ 1?*2, % ’ 2,) *‘ .>*2*.’1 ’,) *‘D -,) ’ 2 62> ’620‘ *6-/ ’ >) /0^) 110‘ 1 ’,) *‘ 6+ 1 ; -’ 6, , *?=, .’) 6+*‘ ; . ; 6// ’ D**2‘ ?60*

,1' 2 ; .*' 2,1') .' 6>*' 20 >6, 12.' 1 ',)*' 0 + 2 , ' 1 ') .' 26,;-*¾ ( ) .'-*6>)*0' ,.'>/ ?6L' 2',)*' ? 2 6,;-*.' 1 ' .1?*' 4-*> 62' + 62;.>- =,. ' 2',)*'=6 2, 25.'1 ',)*'=-*'(6=)6*/ ,1. '6207.=*> 6// ' 2',)*')- .,'1 ',)*' ., 2*' <601226' M6,' -*.0*2X¾ 6,*-' 2'/ *' *+*2' 6=)6*/' =6 2,*0',)*' 1;,) ;/)- .,'6.' ?*-<A' 6' D/11? 25' 1-' /6;5) 25' >) /0¾ ,)*-' ,6/ 62' =6 2,*-.7' 2',)*' 0*>6^ 0*2>*' 1 '?1-6/.' 1 ',)*' .*+*2,**2,)'620'* 5),**2,)'>*2^ ,;-*. ' =6 2,*0' =1-,-6 ,.' 1 ' D*6;, ;/ >) /0-*2' 2',)*' 6-? .' 1 ',)*' -' ? .,-*..*.'6.' ?601226.¾ 1?*' /*? .)' 620' ;,>)' =6 2,*-.' ?65 2*0' .>*2*.' 2' 7+) >)')- .,' 6.'6' 0;, ;/ >) /0' 1D*0 *2,',1',)*' /68 ' 86.') */= 25') . ' ?1,)*-' 2' .;>)')1?*/ ' 0;, *.' 6.')625 25' 1;',>/1,)*.' 8) >)' .)*' 86.' 86.) 25 ' 1-' 1.') */= 25') . ' 6,)*-' 2') . ' /6D1-.' 6.' >6-=*2,*-¾

&)*2' -*=-*.*2,*0'6.' 0 .=;, 25' 8 ,)',)*' 01>,1-.')*' .' ;.;6// ' =/6>*0' 12' 6' .*6,' 6D1+*' ,)*' 1,)*-' 5;-*.' 8 ,)') .' **,' 12' 6' .,11/' . ?D1/1 ') .') 5)' =1. , 12' 620' 6;,)1- , ¾

2' 8)6,*+*-'.>*2*' 1 ') .'/ *')*' 6==*6-*0')*' .' 1 ,*2' -*=-*.*2,*0' 6 ,*-',)*', ?*' 1 ' 12.,62, 2*' 8 ,)' 6' 2 ?^ D;.' M_¾ ¼' 6-1;20') .') >*60' 6.' 6' .7-1D1/1 ') .') >*6+^ *2/ ' 26,;-*' 620' 1- 5 2¾ ( ) .' 1 ,*2' 6/.1' 2>/;0*0' 6' >-1..' 1-',)*' ?1215-6?' : *' .';.;6// '-*=-*.*2,^ *0'/6-5*-',)62',)*' .;--1;20 25' 5;-*.¾ .' 20 >6, 25') .' 6;,)1-, ' 620' =18*-',)*' 6+ 1;-' .' 1 ,*2' -*=-*^ .*2,*0' 8 ,)' 6' 5/1D* ',)*';2 +*-.* ';20*-') .' **,' 1-' 6.'. ,, 25' 12',)*' 5/1D* ' 1-',)*-6 2D18 ' 1-' 8 ,)'6' 8620' 2') .') 620' *.=*> 6// ' 8) /*' =*- 1-? 25' ? -6>/*.¾ ()*' 6+ 1;-' 86.';.;6// '-*=-*.*2,*0' 2',)*'*6-/ '81-9.' 6.' 8*6- 25' 6',;2 >' 1+*-' 8) >)' 86.',)-182' " % ' 1 ',)*' 62> *2,.¾ ()*',;2 >' 1 ,*2')60',81' D620.' 1 ' =;-=/*' 1-' 1 '51/0' 12',)*' D-*6.,' 620' / 9*',)*'=6// ;?' ,' 86.' 1 ' 8),*' >/1,)¾ 1?*, ?*.' 6' +1/;?*',)*' *8' (*.,6?*2,' 86.' =/6>*0' 2' .') 620' 1-')*' 86.' =/6>*0' D*,8**2',8 1' >6.*.' 1 ' +1/;?*.',)*' /0' 620',)*' *8' (*.,6?*2,¾

. 0.' 0 -*>,' .>*2*.' -1?') .' 18 2' / *' 1-' -*=-*^ .*2,6, 12.' 20 >6, 25') .')1/' ? .. 12',)*' 6+ 1;-' 86.' 0;-25',)*' -.,' >*2,;-*.' 8)*2' . ?D1/.?' 86.' >6-- *0',1' 6' +*- ' 5-*6,'=*- *>, 12' .1?*, ?*.' -*=-*^ .*2,*0' 2' .>7*.' -1?',)*' /0' (*.,6?*2,' 6.' 2',)*' *- ' ;-26>*' 8 ,)',)*',)-**' 81-),)*.' 8 ,)' 62 *// 2' ,)*' / 12.' 0*2' 620' 2',)*' =/6>*' 1 ' <1.*.' 8)*2',)6,' =6,-6->)' 86.' .,-9 25',)*' -1>9¾

. 0.',)*.*' *L,62,'-*=-*.*2,6, 12.' 1 ',)*' 6+ 1;-' 2')- ., 62' 6-,' 8*' 9218',)6,',)*' 421., >.')60' 8)6,',)* ' >6//*0' ?65*.' 1 ')- .,' 6.' *6-/ ' 6.',)*' .*>120' >*2,;- ¾ 61;/ 1>)*,*' >- % ' ' N& ' =¾ R .¾X .6 .',)6,',)*' >6.,' 1 ' *6,;-*.' 0*.>- D*0' 6D1+*' D¬*^ /125 25',1',)*' D*.,' =1-,-6 ,.' 1 ')- .,' 86.' 0*- +*0' -1?',)*' 421., >'6-, .,.¾ 1?=6-*' 6/.1' -*2.*;.' 0' # ' ' K ' g S¾ '>*2,;- ' /6,*-',)*' *?=*-1-' /*L62^ 0*-' *+*-;.' M % ¾ KKKCKQ X' =/6>*0' 6?125') .') 1;.*^)1/0' 510.' 5;-*.' 1 ' D-6)6?' 620')- .,' D*. 0*' ,)1.*' 1 ',)*')*6,)*2' 0*, *.¾

?65*.' 1 ')- .,' >/6 ?*0' D ',)*' 1?62 .,.',1' D*' 1 ' ? -6>;/1;.' 1- 5 2' 6-*' =-*.*-+*0' 2' .*+*-6/+ >);->)*.' 2' ,6/ ' 620',)*' - *2,' <1.,' 1 ',)*?' 6-*' -*6// ' 1 ' [62, 2*' 1- 5 27' 620' =-1D6D/ ' 06,*0' -1?' D*,8**2' ,)*',*2,)' 620',8*/ ,)' >*2,;- *.¾ ()*' =18*-' 1 ' 81-9^ 25' ? -6>/*.' .'6.>- D*0',1',)*.*' ?65*.'' 2*' 1',)*' ?1.;' 21,*0' 1 ',)*?' .' " ' N ' M,)*' =>,;-*' 92182' 6.',)*' 6 ' (1?1X' 12' 6' / 2*2' >/1,)' 8)>)' 6' 81?62' 26?*0' *-12 >6' .') */0' D ',-60, 12',1')6+*' 5 +*2',1')- .,' 8)/*' D*6- 25')..' >-1..',1' 6/+6-',1' 8 =*')' D-18¾ **' f 2',)*' >/1,)' .',)*' 6>*' 1 ' ,)*' 6+ 1;-' 8 ,)' 62' *L=-*.. 12' 1 '5-*6,'5- * '620',)*' D-18' = *->*0' D ',)*' >-182' 1 ',)1-2.¾ 21,)*-' .',)6,' 8)>)' .' .6 0',1')6+*' 6==*6-*0' ?-6>;/1;./ ' 8)*2' ¾ /+*..,*-' 86.' >12.*>-6, 25',)*' D6. / >6' 1 ' ,¾B1)2' 6,>(62' 620' 8)>)' 86.' 1-?*-/ ' =-*.*-+*0C 6D1+*' ,)*',- D;2*' 1 ',)6,' >);->)¾ 21,)*-' .',)*' & ' = >,;-*' 6' =1-,-6 ,' 8 ,)1;',>1/1-.' 8)>)' 6' D6.*/*..',-6^ 0 , 12' M1',)*',*2,)' >12,;- X')6.',',)6,')- .,' .*2,',1' 9 25' D56-;.' 1 ' 0*..6'8)*2',)6,'9 25' 8 .)*0')- .,C ,1' >1?*' 620')*6/') ?' 1 '6' . >92*..' 620',)*' 1- 5 26/' 1 '8)>)'=>,;-*',8 1')>);->)*. ',)*')>);->)' 1 ' ,¾ /^ +*..*-' 2' -6 6'2*6-' 1?*' 620'6')>);->)' 6,' 4*216 ' '=-1 *..',1')6+*¾ **' $! 21,)*-' .'=-*.*-+*0' 2',)*' .6>-.,' 1 ',/ *' D6. / >6' 1 ' ,¾ 68-*2>*' 2*6-' 1?*¾ ()*-*' 6-*' 6/.1' .*+*-6/ 8110*2' ?65*.' 1 ',)*' 2 62,' 6+ 1;-' .6 0',1')6+*' D**2' >6-+*0' 620' =6 2,*0' D ' ,¾ ;9*' 1-' D ' 625*/.G

6 2, 25.'1-' .>;/=,;-*.' 1 ',)*'>-;> L 12' \.**' $L .;' 6-*' ;.;6// ' =/6>*0' 1+*-',)*' 6/,6-' 2' 1? .)' 4-**9' -?*2 62' 620' ;.,)*-62',)*')>)*.¾ 2' .1?*' -1,*.,62,' >);->)*.' 1.,)*-',)62',)*' ;.,)*-62',)*' 5^ ;-*' 1',)*' 6+ 1;-' .'1.*2' 2,-10;>*0' 2' =6 2, 25.'1 ' ,)*=6-6D/*.',)*' ?-6>/*.' 620' 1.,)*-' D/ >6/.;DA*>,.' -*20*-*0' 2' 6' -1,*.,62,'.*2.*¾ **' =*-' " ' '$ +' " " ') ' M & * ?6-' Q X' <6-, 52 ' ' ' '& 2 ' " ' M 6-¾ QS X' 1.. '5 '$ ' M 1?* QSSX' 6/.1',)*' 81-9.' 1 ' - 25) ' *--*,' *,>¾' 12',)*' 6,6^ >1?D.' 4/;>9.*/5' " =& " ' M QSN' ,1' -*=-10;>*.',)*' .1C>6//*0' 0*..6'=>,;-*' 2' >1/1-.' 620' 5 +*.' L' 1,)*-' =1-,-6 ,..X' <6-62512 ' ' ' %% ' ' $ ' '5 ' M 1?*' X' <-.¾B6? *^ .12' # ' ' ' ' '& ' M 12012' QS ' K +1/.¾ Q+1X' *>9 ' # ' '5 *' KK CK ' C 0-12' " ' %"' M 1)2.' *O¾' ' K KCKRQ' *8.';1' 1' ;' M 0 2D¾ Q Q' K +1/.¾ Q+1X' ' NQ' ._¾' >)6 (' " '" # 1' ' ¾ *^' 'g ? 4 ' /!

: (' ¾ **' ($!

: (' < 4 <' ¾ ' 2',)*' 6,6>1?D.' 620' */.*8)*-*' .',1'D*' 1;20'6'?1215-6?' 2',)*' 1-?.' 7 ' =' ' >1?=1.*0' 1 ',)*' 4-**9' /*,,*-.' d 620' ' " ' 2 , 6/ /*,,*-.' 1 ',)*' 26?*' d=,M-MF>')- .,¾ + 1?*, ?*.',)*' 4-**9' /*,,*-.',' 8' M /=)6' 620' ?*56' ,)*' -.,' 620',)*' /6.,X' 6-*' >1?D 2*0' 8 ,)',)*' 1,)*-.' 2',)*' 1-?' 1-' .;.=*20*0' D ' >)6 2.' -1?',)* ,-62.+*-.*' D6-',);.' ' ()*' =-*> .*' 06,*' 1 ',.' 1-^ 5 2' .';2921821' D;',' //>2' I& ' " " 'E!' N ' 21,*X' 6..*-.,.',)6,',.' 1;20'12'>1 2.'1',)*' ,1/*?*.' 6>' >,*.' - 25) ' I5 ' $ " ' ' S4 X' 6.') .' 6;,)1-, ¾ ;,' 8)6,*+*-',)*' 1- 5 2' 1',)*' ?1215-6?' ,' >6?*' 2,1' 2*8' =-1? 2*2>*' 620' 8 0*-';.*' -1?',)*' 6>,',)6,' 12.,62, 2*' M % ¾ N KX' 6==/ *0',',1',)*')*6^ ,)*2' ?/,6-'.,6206-0¾ **') $! ,'.' >6//*0' ,)*-* 1-*' 21,' 12/',)*' ?1215-6?' 1')- .,');,'.1?*^ ,?*.' 6/.1',)*' ?1215-6?' 1' 12.,62, 2*% ' >)6 ' "! # 1' K ' B6? *.12' # ' ' ' ' & 1' ' N ' < 6-, 52 ' ' ' '& 4 1' ¾ ' *--*,' ' " ' '5 ' ' RS¾ **' ! : (' ' M6.' %" ' ' 620') 8! ¾ ' ' '# ' ' " ' ' ! ' ;.*D 1.' 2') .' " "' # ' M ' QX' 620' 6/.1' 2') .' ' ' 6 ' M + ' X' .',)*' -..' 8)1' 6=A *6-.',1')6+*' >12. 0*-*0',)*' ?*0 6,1- 6/ 81-9' 1')- .,' 6.' >12. .,^ 25' 2',)*',)-**' 1 >*,¾ ()*' 0 + . 12' D*>6?*' >1?^ ?12' 2',)*' 4-**9');->)' 620',' .',// ;.;6/ 2',)*' ;.. 62');->)¾ 2',)*' 6, 2')?>)',')6.' 21,' =6..*0' .1' 5*2*-6// ' 2,1';.*' 6/.,)1;5)' *//6-? ' 620' ?62 ' 1,)*-.' 6//18' ;.,)*-' <*/62>,)12' 620',)*' 1,)*-' *6-/ ';.,)*-62',)*1/15 62.' 01' 21,';.*',)*' 0 .^ , 2>, 12¾ ,' 86.' 2,-10;>*0' 2,1' ;.,)*-62',)*1/15 ' D ' 4*-)6-0' M_¾+¾X' 2') .' '-" ' 86.' 60?,^ ,*0' D ' =*2*-' 2,1') .' 6,*>) .?' 620'-*?6 2*0'=-*+^ 6/*2,' 6?125' ;.,)*-62',)*1/15 62.' ;2, /',)*', ?*' 1' -2*..,G' 8)1' 8-1,*' 656 2.',' ;20*-',)*',,/*' ' ' " ' % ' 620' 86.' 1/18*0' D ' U6>)6-.*' 1C 0*-/* 2' 26==' 620' 1,)*-.' M.** 26==' -" ' g X¾ 2',)*' * 1-?*0');->)',' 86.' 601=,*0' D ' 6/^ + 2' I - f ' X' 86.' 60?,,*0' 2,1',)*' : * 0*/D*-5' 6,^ *>) .?' 620' 86.' 5*2*-6// ' 1//18*0' D ' ,)*' 015?6,>' 8 (,*-.' 1',)*' * 1-?*0' >);->)*.' D1,)' 12',)*' 12, ^ 2*2,' 620' 2' 25/620¾ ()*' ?10*-2' ,/X*1/15A!' 1' 4*-^

;>9' ,[.>(7 *D2*-' D-6-0 ' *,>%X 5*2*-6// ' 60)*-*' ,1' ,' -*A76-0 25' ,' 6.' 62' '620%21,' ?*-*/ ' 6>^ > 0*2,6/ 620' 1-?6/ 0 + . 12' 1 ',)*' ?*0 6,1- 6/ +1-9' 6.',)*' 12/ '12*' 8) >)'*L)6;..,.' ,%' ,' .' ;.*0'D ' ?62 ' 1 ',)*' D*.',' 25/ .)',)*1/15 62.% & *' 5 +*')*-*' 6' ?10^ >6, 12' 1 ' D-6-0 .' 6-, >/*' 12' ,/7> ,1= >' 2' : *-[15 .' 5 26 % '+ ' S ' ._%

% ; ' N % ' ()*' =-1=)*> *.' 1 ',)*' % (% 0*.^ 526,*',)*' *0**?*-' 6.',)*'=*- *>,' 620' ?10*/% %"9 '6.',)*' .*-+62,' 1 ' 410' ,1' 8)1?',)*' 6,,- D;,*.' 1 ' =-1=)*> '=- *.,)110' 620'-1 6/, '6/ 9*' D*/125' 6.',)*' " ' .**0' 1 ' 6+ 0 ' 1-',)*' .*>120 ' =*- *>,' 6+ 0' 620' 26// '6.',)*% 2" ! : *' ?1-*1+*-' 2' .= -^ ,' >6//.') ?.*/ ' 2',)*' 41.=*/.' =-1=)*, J' 620' .12' 1 ' 6+ 0%J' 2',)*' = ../*',1',)*' : *D-*8.')*' .'-*=-*^ .*2,*0' 6.',)*' 12/ ',-;*' 620',*,*-26/) 5)C=- *.,% ( ) .' ,)-** 1/0' 6.=*>,' 1 ') .' ? .. 12' .' ;2 ,*0' 2',)*' >12>*=^ , 12' 1 ',)*' & '1-' ":' 1-'6.' / .)6' 86.' D ' / A6)' 621 2,*0' % %" 'M ' 25.' L L ' SX' .1' 86.',)*' =-1? .*0' '.*-+62,' 1 ' 410J' ,1' D*' 621 2,*0' D ',)*' = -^ ,' 1 ',)*' 1-0' 620'6.',)*' '1 ' .-6*/ 8*-*' 621 2,*0' M ' 6?%d ' L+ ' N ' 25.' N L L ' *,>%X' # 86.')-.,' 621 2,*0' 9 25' 1 '- 5),*1;.2*..' M :*D% 'Q RX% 20' 6.' ,' 86.' 1-06 2*0' D ',)*' /68',)6,' " ' " "= % ' .)1;/0' D*' 621 2,*0',1') .' 1 >*' M L10% LL+ ' T' LL L ' T' LLL 'N T' *+% + ' NT' + ' KKT' + ' NSX' .1')- .,' 86.' ?60*') 5)C=- *.,' O1Z' ' " ' ' ' ' ' " '% ' ' ' '

P' M :*D% + ' SX% ()*' >12>*=, 12' 1 ',)*' <*.. 6)' 1-' 21 2,*0',) ;.' 0 + 0*.' .,*/ ' 2,1',)*' ,)-**' 6.=*>,.' 1 '=-1=)*,' =- *.,' 620'9 25%

()*% -.,'=-1=)*> 'D*6- 25'12',)*' .;DA*>,' .' 2' >;% L+ ' % ()*'=*1=/*' 6 -6 0'1 ')*6- 25',)*'>1? ?620^ ?*2,.' 1 ' 410' .*2,' ;=' <1.*.',1')*6-',)*?'M L10% LL ' RT' *;,*+7K X% ()*' 1-0''')*6-0J',)*'=*1=/*M *;>% + ' KQX' 620' =-1? .*0' M6.',)* ')60' .*2,' ;=' <1.*.',1')*6-' ?X',)6,' :*' 81;/0' .*20',)*?' 6'=-1=)*,' 8)1?' " '>1;/0' 620' .)1;/0')*6-% ()*' 410%8)1' -*+*6/*0') ./68' 2',)*' ?0.,'1',);20*-' 620'/5),2 25' .1',)6,' ,)*'=*1=/*' 0;-.,' 21,'6==-16>)') ?' 81;/0' 6 ,*-86-0.' %% "' " '% % ',)-1;5)' 6' =-1=)*,% 2' <1;2,' 26',)*'=*1=/*')60',1' .*20' <1.*.';=',1' 410' 620' 410' =-1? .*0' 2',)*' ;,;-*',1' .*20' 0182' 6'=-1=)*',1',)*' =*1=/*% ()';',)*'0 *-*2>*' D*,8***2',)*' 68' 620',)*' 41.=*/ .'.9*,>)*0' 2' ,.' 0682 25'1;,/ 2*%

()*' /6,,*-' =6-,' 1 ' .6 6)' M>)6=,*-.' L/C/L+ X' -*^ /6,*0',)1;5)' 21,' 2',)*' ?1.,'0 -*>,' 86 ',1',)*'=-1=)^ *>' 2' *;,*-121? % 2' .6 6)' 21,' ,)*' =-1=)*, J' D;,',)*' .*-+62,' 1 ' 410 J' .',)*' =-*01? 262,%12^ >*=, 12% .6 6)' /6D1-.' 2'+6 2J' ML/ L ' XT' 6' .*-+62,' 1 ' 410')18*+*-' 8 //6>>1?=/ .)'D1,)' .6 6) .' ,6.9' 2' .-6*/ 620',)*' ? .. 12' 1 ',)*' =*1=/*' 1 ' .^ -6*/ ,1',)*' 4*2, /*.',15*,)*-' 620' =*- *>,/ ' ML/ L ' SXT' 620',) .' D*>6;.*')*' .' ',)62' 6' =-1=)*,T' D*>6;.*')*,69*.';=12') ? .*/ ',)*'=*26/, '1 '1;-' .2.'M/ '+X ''

6 D 6' >)6., .*?*2,' 1 '1;-'=*6>* J' % *' ,)*'=;2 .)?*2,' 8)1.*' ;/ /?*2,' .*>;-*.' 1;-' *L*?=^ , 12% :*' D- 25.' 6' = ' M+*-% X% ()*' =-1=)*> '01*.' 21,' ?*-*/ ' 20 >6,*',)6,',)*' =-1=)*,' ? .. 12' .)1;/0' *2,6 / 0*6,)' 12' ,)1' .*-+62,' 1 ' 410' 6.' 86.',)*' >6.*' 8 ,)' 6;/ M 1/% ' K T' K' (?% ' X');,' ,)6,')*' .)1;/0' 0*' 6.' 62' *L= 6,1- ' .6>- >*% 20' 2' >)6=' L/ L ' ')*' 6==*6-.' 6.' 25' 1 '9 25. J' 1-' 9 25.'620'=- 2>*.J' 6-*',1'D18'0182'D* 1-*') ?% ();.' 8*' 20' 2' *;,%+' 0'6'=-1? .*' 1 ',)*' =-1=)r' *,J'620' 2' .6 6)'L/ LC/ '6'=-1? .*' 1 ' 6'.*-+62,' 1 ' 410 J' 1 ' 8)1?' =-1=)*,>' =-*6>) 25' =- *../ ' .*/ C1 C' *- 25 '620'>-182 25' 8 ,)'9 25/ '=18*-'6-*'=-*0 >6,*0% ;',-*56/ 01? 2 12' .' 21,' ?*-*/ '6.. 52*0',1',)*' ;P ,;-*' *0**?*-' 6.',)*'=-*0 >6,*' 1-'6.',)*' ..;*' 1 ') .' 0*., 2 ' D;,' 12',)*' >12,-6- ',)*' +*- ' -11,' 1 ',)*' <*.. 62 >' =-1=)*>*.' / *.' 2' ,)*' =-1? .*' 1 ' '12*' 1 ' ,)*' .**0' 1 ' 6+ 0 J' 8)1.*' ,)-12*' .)1;/0'*20;-*' 1-C7' *+*-%J' *0*?=, 12' -1?' ;,;-*' .*-+ ,;0*' 86.' =-1?^ .*0',1',)*' .**0' 1 ' D-6)6?'M4*2% L+X% ()-1;5)' <1^ .*.'B1.);6'620' 6+ 0',)' .'=-1? .*' 2' ,.'1';,86-0'620

?6,*- 6/ .*2.*' 86.' 5-60;6/ ' ;/ //*0% ,' 86.' 1,' ,) .'-*6.12',)6,' 6+ 0'0*,*-? 2*0',1'D; /0'6',*?=/*',1' ,)*' 1-0',)6,',)*' ' .*-26/?5),'08*// 8 ,)') .'=*1^ =/*%J ;,' .;>)' 6' ;2 12' 1 ' 410' 8)1' .' 6' .= - , J' 8 ,)' 6' ?6,*- 6/=/6>*' 620' *0 >*' 0 0' 21,' 65-*** 8 ,)' ,)1' 0 + 2*' =/62' 1 ' .6/+6, 12' M>1?=6-*' B1)2' + ' KN' K X% .-6*/ 86.',1' 6>9218/*05** ,)6,',)1',*?=-1=6/ -*0*?=, 12' 1D,6 2*0',)-1;5)' 6+ 0' 86.' 21,' *',)*' ,-;*'.-*0*?=, 12'D;,'6'?*-*' 6 2,' 1-*.)6018 25',)*-*^ 1 % () .' 86.' 20 >6,*0' D ',)*' =-1=)*>' 2' ,)*' .*+^ *2,)' >)6=,*-' 1 'K' 6?;*/' 2' 8) >)' ,' 86.' .)182' ,)6,' 21,' 6+ 0') ?.*/ D;,' 6+ 0.' .**0' 6 ,*-') .' 0*6,)' 86.',1'D; /0',)*' 1-0'6' / 1;.*'620',)6,',)*' 1-0' 81;/0'6..;-*',)*',)-12*' 1 ') .'9 2501?' 1-*+*-% +*2')*-1' 21' ?*2, 12' .' ?60*' 1 ' 62' 'D;,' ?*-*/ ' 1 '6'.;>>*..1-' 1 ' 6+ 0' M>)6=' + ' KC X% 6+ 0' 6,' ,)*' .6?*' , ?*' ;20*-.,110' ,)6,') .' . 2 ;/ -6>*' 86.' 21,' ,',1'D; /0',)*' 1-0'6',*?=/*' 620',1'-;/*' 12') .' *,*-26/ ,)-12*' 6.')1' .6 0' [][] -" ' % + ' ' ' ' ' ' ('" ' ' ' ' ' '

( ) *' = ../*' ,1' ,) *' : *D-*8 .' -*=-*.*2,.')- .,' 6.' 6' 3=-*.,' 26 ' *+*2' 6.' ,) *' ' " "=% ' M : *D%' + X% ,*6>) 25.') *' 86.' 21,' *L>/; . +*/ ' 6' =-1=)*, ' 2') .' : *' .' ,) *' *.*-26/') 5)C=- *.,' D*>6 ; .*' 1 'D .')6+ 25' 1 ^ =6.. 12') *' 86.' 21,' *L>/; . +*/ ' 6') 5)C=- *.,' 21-' 86.' *-*0' ,) *' 12/ ' *,*-26// ' +6/ 0' .6>- >*',) *' 26/ .6>- ^)*' 6' 9 25' 12/ ' 6 ,*-') .' -*. ; --*>, 12% 2' ,) *' >12C' >*' 8) >)' -*20*-.' 6// 1,) *-.') *2>* 1-,)' .2=*- ;1;. ' ' .-6 ',) *' ,)-**' 1 / >*.' >6221,' D*' ,) ; .' ?*>)62 >6// ' " f : .' D* 25' 2' 1,) *-' =6-, .' 1 ' ,) *' >- =, ; -*.' .*,' 1 ' -1?' *6>) ' 1,) *-% ( ) *' >- =, ; -*' >*-,6 2/ ' 6.^ >12. 0*-*0' ?1-*' 6.' ,) *' + 2 ' M+ >, ?X' ,) 62' 6.' ,) *' >- D*.' ,1') - .,' 6' % %" ' M0 ^ =- *.,' .' ?*-*/ ' 6' 1-?6/ ' 21,' 6' ?6,*- 6// 0 *-*2>*% -*>,' =-1=)*, >6/' 1 >*X' 12/ ' 0 ; - 25') .' + . D/*' / *' 2') - .,' 12' ,) *' 12**)620 ' 6D.1/ ; ,*/ ' .6, . *0' ,) *' 0*^ ,) *' ,.6,*' 1 ') ; ? / 6, 12' M+ [%' 6' % %+ '% 1' D ' ?620.' 1 ' 4107.' /68' ; =12' ?62' MD6?*/ ' ,1' D*' . 2/*.. ' 8) >)') .' 8)1/*' D* 25' 86.' 2' ,.*/ ' 6' -*+*/6, 12' 1 ')1/ ' 620' //*0' 8 ,) ' ,) *' /1+*' 1 ' 410X' 620' ,) ; .' -*20*' 410 620' 6' % %" ' 2' 81-0.' 620' 01>.' 62*.X% 0*-*0' ,) *' I ' 8) >)' 8*' 01' 21,' -*20*-'% ; ,' ,*6>) *.' 6/.1' ,) 6, ' 6.' -1=) *,' 620' *+*6/>-' ,) *' 620 ' 12' ,) *' 1,) *-') 620 ') *' 6. . ; ?*0' ,) *' =*26/, ' 8) >)' *L6/,*0')- .,' >12, 2; *.' ,1' 1=*-6,*' I % %" ' ,) *' /68' 2 / >,*0' 12' ,) *' . 22*-' ()1;' .)6/,' 0 *',) *' 1' ?*0 6,*' =-1=)*, >*1 >*X' D ') .' & 1-0 ' 8) >)' 0*6,) J' 12') ?.*/ ') *' 8)1' 18*0' 21,) 25' .; / *- 25') 5*+*' 12>*' 1-' 6// ' 6.' 8*// 6.' D ') .' = - , ' ,)-1; 5)' 1-',) 1.*' 8)1' 6-*' 0*D,1-.% **' 'g < L 8) >)') *' >12, 2; *.' , ,1' *2/ 5), *2',) *') *6-, .' 1 ' D*/ *+^ f : *' ,) ; . ' D ' . ; D. , , ; , 12 ' , 119' ; =12') ?-' *-.% 2' ,) *' ' M=- *../ ' 1 >*X' 8*' 0 .^ .*/ ' 1 ; -' 0*D,' 620' ,.' =*26/, ' 620' D*>6?*' 62' *L= 6^ , 25 ; .)' M.>- =, ; -6/7X' ,) *' 12>*C1 *-*0' 1D/6, 12' -1?' , 1-' 1 *- 25' 1-' ; .% 1-' ,) *' ; 206?*2,6/ =- 2> =/*' ,) *' *,' >12, 2; 25' 2,*->*.. 12T' 620' 2' ,) *' 1-?*-' 1 '6// 1 *- 25.' 1-' . 2' ; 20*-' ,) *' 1/0' 0 .=*2.6, 12' 86.' ' 620' 2 ' 1' ,) *' 1 *- 25' 1 '6' ,) .' +*-. ' .; D., , ; , 12' 1 ' 12*' , 1' .; *-' 0*6,) ' 1-' 62^) 1/ ' / *' -1?' ,) *' '% ' 1,) *-T 8) 1' >1; /0') 6+*' D**2' ,) *' ?*0 6, 25' =- *.,' D*^ 6..*' ?=, 12' 1% ' ,) *' ; 20*.*-WI>0' *L= 6,1- ' .; *- 25% , 8**2') - .,' 620' ,) *' 6,) *-' H : *') ?.*/ ' ,) *' . 2^ 26// ' ,) *' >- =, ; -*' ,*6>) *.' ,) 6, ') - .,' 2') .' .,6,*' /*..') 1/ ' ,) *' 0 15 ' 8) 1') 60' *+*-' D**2' 1 ') ; ? / 6, 12' 86.' 6/-*60 ' 9 25' I 1' 1-' 8 ,) ' ,) *' 6,) *-' 86.' ,) *' =- *.,' 8) 1' 2' *,*-26/') 5)C 8' 6.' 2' B1) 2' L+ ' N % : *' 0 .>/6 ?.' 12/ ' ,) *' =- *.,/ ' =; - , ' 56+*') ?.*/ ' 6.' 62' 1 *- 25% : .' 6>^ *L*-> .*J' 1 ' 9 25/ ' =18*-' 21,' ,) *' 6>, % & *' 0 .^ , 12 ; .) ' .' ; /(*- 25.' >6221,' D*' 0 + 0*0% : *' 0 0' , 25 ; .)' 6/.1' ,) *' 2)*-*2,' -*56/ 5/1- ' 620' =18*-' 1 ' 21,' ? 69*' 62' 1 *- 25' 1 ') ?.*/ ' . ; 00*2/ ' ' " % 1')- .,' -1?') .' *L*-> .*' 1 ' ,) *' ? ' ,) *' ' .= - , ' -1?' ,) *' ' 1' ,) *' 51+*-2 25' 1 ') .' =*1=/*' D ') .' 8 ,) ' 21' >122*>, 12' 8 ,) ') .' =-*+ 1 ; .' / *% 2' ,) *' -1?' ,) *' ' 620' 2' ,) *' /6, , *-' 6/.1' 8*' 0 .,25 ; .) ' 0*6,) % ' ( ) ; .' 86.') .' 1 *- 25' 6' =- *../ ' 12*%I7 >12,-6- ') .' =- *.,/ ')1)I7 / *' D-1 ; 5), ') ?' ,1') .' ( )*-*' .' 2' 6>, ' 21' >12>-*,*' =1 2, ' 2' ,) *' *L .,*2>*' -1?' ,) *' 0*6,) ' 1 ' 1' -1?' ,) *' >-182' 1 ' ,) 1-2.' .' 2^ 620' 6>, + , ' 1 ')- .,' 8) *,) *-' 2' ,) *' ..6,*' 1 ') ; ? / ^ .*=6-6D/*% 1' -1?' ,) *' >-182' 1 ' ,) 1-2.' ,) *' >-182' 1 ' 6, 12' 1-' 1 ' 5/1- >6, 12' 2' 8) >)' ,) *' ,) -**' 1 >*.' 6-*' 9 25/ ' 0 52 , ' 620' =18*-' .' 2.*=6-6D/*% &) *2 ' 2' 21,' 1 ; 20' >12.,62,/ ' >122*>,*0% ( ) ; .') -.,' -*?6 2.' ,) *' 06 .' 1 ') .') ; ? / 6, 12 ') *' 86.' -*>152 .*0' 620' =-1^ 2' 6/ / -*.=*>,. ' 2.*=6-6D/ W,) *' *+*6/*-' 1 ' ,) *' 6,) *-' >/6 ?*0' 6.' ,) *' =-1? .*0' 12' 1 ' 6+ 0 J' ,) *' *L=*>,*0' ,1' ?62 ' ,) *' 2,*->*..1-' 1-' ?62' 8 ,) ' 410' 620' ,) *' ' <*.. 6)C9 25' J' ,) *' 6>>*=,*0' ,) *' , ./*' M<6,.' L ' K T) * ' 620' 25' 1 ') .' =*1=/*% *' ' 26==' " ' L+ ' N T L+ ' KKT L ' KNT LL ' RX% ; ' ,) *' ; / /?*2,' -" !' g T ,[.>) ' " " " " ' 1==1. ; .*' ,1' ,) 6, ' 8) >)' ,) *' =*1=/*') 60' *L=*>,*0% : .' g NKT : *-[15 ' 5 26 # % '+ ' S T A *' ? ,) ' 9 25/ ' ?.. 12' >; /? 26,*0' 6, ' ,) *' +*-E ' ?1?*2,' 8) *2' @ ' ' ' " ' -" !' D9I' + ' >)% +' g K%) *' 0*>/6-*0' $#,1' /6,*' ,) 6, ') *' 86.' 9 25 ' 620' ,) *-*^ : (' % *>' ' #! ;=12' -*>* +*0' ,) *' >-182' 1 ' 5/1- ' M : *D% 'RT ') / ' : (' $ (' % **' 4 ' R X ' D*>6?*') *60' 1 ' ,) *') ; ->) ' M =) *. ' ' KKX 7' (% L L ' K ' >1?=' 8 ,) ' +*-.*.' KC ' 620' +*-.*' K X% : *-*' : (' % ') ; ->) ') 6.' 6/86A.') *0' ,) 6, ') - .,' 86.' 6) .1/ ; ,*/E7' ,) *' 0*>/6-*0' 8 ,) ') *' >-182' 1 ' 5/1- ' M : *D% 'RT ') / ' 620' 1-0' 1+*-' 6// M =) *. ' ' K X% 20' 6// 8) 1' >1?*' -1?' ,) *' 2 ' 1 ' 410' ,) *' /1+*' 1 ' 410' , 1' ?62') 6.' D ' 81-0' 620' 6>, 12' 620' ,1') ?' D ' 6 ,) ' 6-*' 5 +*2' , 1') ?' 6.') .' 182' MB1) 2' 6// 6 ' 6' 9 25' 1 ') .' =*1=/*') 60' *L=*>,*0% : .' L+ ' SX' 620') *' >/6 ?.' 1-' ,) *' ?' 6' .) 6-*' 2') .' 5 1-A' 9 25/ ' 1 >*' D*>6?*' >/1.*/ ' >122*>,*0' 8 ,) ' ,) *' M+*-.*.' KK ' K KSX% ( ) *') - ., 62') ; ->) ' .' ,) ; .' ; // ' =- *.,/ % .' 6' -*86-0' 1-' ,) .' -1 6/ 6D2*56, 12') *' A ; ., *0' 2' >12. 0*- 25' ,) *' =-6 *-' 2' B1) 2' L+ ' 6.' 6' 86.' >-182*0' 8 ,) ' ,) *' >-182' 1 ' 5/1- ' M : *D% 'RT ') / ' ,-' ; *') 5)C=-, *.,/ ' =-6 *-' 1 ' ,) *' =- *.,/ ' 9 25' 620' 9 25^ ' R X ' D*>6?*') *60' 1 ' ,) *') ; ->) ' M =) *. ' ' KKX 7' / ' =- *.' M .6 ' >L ' X 1-') .' =*1=/*' 620' 21,' ?* */ ' 6.' 620' 1-0' 1+*-' 6// M =) *. ' ' K X% 20' 6// 8) 1' >1?*' ,1') ?' D ' 6 ,) ' 6-*' 5 +*2' , 1') ?' 6.') .' 182' MB1) 2' 2,*->*.. 12' 1 ' % %" ' 1-') .' 0 .> =/*.% L+ ' SX' 620') *' >/6 ?.' 1-' ,) *' ?' 6' .) 6-*' 2') .' 5 1-A' 26// ' -*0*?=, 12' D ') - .,' .' D*.,' ; 20*-.,110' M+*-.*.' KK ' K KSX% ( ) *') - ., 62') ; ->) ' .' ,) -** 1/0' 6.=*>,' 1 ') .' *2, -*' 81-9% : *' ;20*-' ,) .' ,) -** 1/0' 6.=*>,' 1 ') .' *2, -*' 81-9% : *' 8) 1' 2') .' 182' =*-.12' 86.' ,) *' -*+*/6, 12' 1 ' 410' ,) *' 8) 1' 2') .' 182' =*-.12' 86.' ,) *' -*+*/6, 12' 1 ' 410' ,) *' d1 1> 1 ' 410' , 1' ?62') 6.' D ' 81-0' 620' 6>, 12' 620' ,1') ?' D ' 6 ,) ' 6-*' 5 +*2' , 1') ?' 6.') .' 182' MB1) 2' 60+*2, ' -*+*6/*0' , 1' ?62' 2' D .' .,6,*' 1 ' *--1-' 6// ; .' ,) 6+*' D**2' ?60*' 1-' 0**?*0' 2*>*..6-E ') ; ' ,) *' 521-62>*' 620' . 2' ,) *' /68' 1 ' 410' , 1' ?62' 620' ,) *' 6// ; .' ,) *' 12>*' , 1') ?' 62' ?=1.. D / , % ?*-> ' 1 ' 410' , 1' ,) *' . 22*-% ' 8) 1' 2') .' 182' =*-^ =1// 26- . ' .*,, 25' 1 ; ,' 8 ,) ' ,) *' D*/ * ' ,) 6, ') ; ?62' .1 ; / 1 ' / - .,' 6.' 6' =*>;/ 6-' =-1=*-, ' 1 ' ,) *') ; ?62' 2' 1 ' 1 ' 1

620',)6,')- .,' >1;/07 >12.*_;*2,/ ' 6..;?*' ,)*' 26^ ,;-*' 1 ' ?62' 8 ,)1);',)*-*D ¯ D* 25' ?60*' .;DA*>,',1' . 2' 620',);. ' D ') .' =*-. *>,' / *' 6.' 6' ?62 ' D*>1?*' ?62 .' *L*?=/6-' 620' 5; 0*' 2') .' >12 / >,' 8 ,)' *+ / 620' =-15-*..',18+0.',)*' 5110%3

K% ',)*' 1;2> / 1 ')6/>*012' M % % X',)*' 01>^ ,- 2*' 1 ')- .,.',-;*' *,'. 2/*..' 762)110' 86.' 1-?6^ / [*0' 2',)*' 81-0.' ',-;/ ' ?62 ' 8 ,)' 6' -6, 126/ .1;/ 620' D10 ' 1 ' / 9*' *..*2>*' 8 ,)' ;.' 6.',1') .' ?62)110' 620' 2' 6//',) 25.' / 9*' ;.' . 2' *L>*=,*0 6 2 0',)*-*')6.' 21,'. 2>*' D**2' 62 ' >)625*' 8 ,) 2',)*' 6>>*=,*0')- .C ,1/15 >6/ 01>,- 27' 1',)*');->)% ()*',)*1/15 62.' 1 ',)*' < 00/*' 5*.' >12,*2,*0',)*?.*/+*.' 8 ,)',)*',-6^ 0 , 126/ 01>,- 2*' 8 ,)1);,' 62 ' .=*>6/ * 1-,.' 1-' ,.' ;-,)*-'0*+*/1=?*2,'),)1;5)' 2',)*' >12,-1+*-. *.' 8 ,)' -*56-0',1',)*' ? ?6>;/6,*'V 12>*=,12' 1 ',)*' -5 2' <6-A7)*-')6?=12.'.1;5),',1'600' 8* 5),',1',)*-'-6-^ A=%N'620' NRX' & * [.6>9*-'>6 " ' ? " " ' =% 5;?*2,.'D '>/6 ? 25',)6,',)*' 6>>*=,62>*' 1',)*-'+*8.' 81;/0'-*>152 .*' 6/.1',)*' . 2/*..2*..' 1 ')- .,% '01>^ ,- 26/*--1-'1 '6' 0 *-*2,'.1-,')*2>*' 6-1.*C'+[%,)*'=;,^ ,25')- .,' 2',)*' D6>95-1;20' 6.',11')1/ ' 1-' ?1-,6/.' D*,;'>" ' ' %" ' ') ' \ 120' Q K' ,1'600-*.. '620'.;D.,.;,25',)*' ?*0 6,12' 1 ',)*' -^ 5 2' 620',)*' =-*.,)110%

N% 2*' 1 ',)*' >) * ' ?*-.,' 1 ',)*' * 1-?*-.' .',)*' 6>,',)6,',)*' ,6;5),',)6,')- .,' .' 20 + 0;6// ' 620' ? ?*0 6,*/ '6==-*)*20*0' D ' 6 ,)' 620',)6,',)*' : 1/ ' >-=,;-*.' 21,',)*' 015?6,>' 620' / ,;-5 >6/,-60 , 12.' 1 ',)*');->)' 6-*',)*' .1;->*.' 8)* >*')- ., 62',-;,)' .' 0*-+*' ()* ' 6>>*=,*0',)*' 01>,- 2*' 1 ',)*' 1?62 6,)1/>');->)' >12>*-2 25',)*' =*-.12' 620' >)6-6>,*-' 1 ')- .,' 1 ' 8)>)') .' . 2/*..2*..' 1-?*0' 62' *..*2, 6/ =6-,% ,' 86.' -*>*+*0' 6.' 2',)*' 6=1.,1/>6/,?*.' 6.' 62' 2,;,12' 21,' 2**0 25' =-11 ' D;,' 6D=+*' ?*-*'/15^ >6/0*?12.,-6, 12%J

% 1>2 62 .?' ? 5),')6+*' D**2' *L=*>,*0',1' 1=*2' ;=' 6' 2*8' 620' -;,;/0.>;..12' 1',)..'.;DA*>,'*,' 6==6-*2,/ ' 2' 62,6512.?' 8,)',' + *8.' 1',)*' =*-.12' 620' 1 >*' 1 ' /-.,' ,'6..*-,*0' 21,'12/ ',)*'. 2/*..2*..' 1 ' B*.;.' 6.' 6' 6>,' D;,'6/.1',)*' '% '%/ 1' 620' 20**0' 0*2 *0',)6,')*' 86.' -*6// ' .;DA*>,',1',*?=,6^ ,12' D*>6;.*' 1 ')..';=*-26,,-6/' 5*26,12%

% -1?',)*-.71' 4*-?62' 6, 126/.?' 6D1;,',)*' ? 00/*' 1',)*' Q,)' >*2,;- ',).' 01>,- 2*')6.' D**2' -*^ =*6,*0/' ?=;52*0' D ' 8-.,*-.' 1',)6,'.>)11/% 1?*' M6.' * ?6-;.' 6)-0,' *2,;-2 X'+*2' 51'.1' 6-'6.',1' >)6-6>,*-[*')-.,' 6.' 62' ?=1..1-% 1' 6/.1' 6?125' 25/.)' 6, 126/.,.' *8?62' " ' '@ +1' 20.' ?=*-*>,12.' 2',)*' ?1-6/>)6-6>,*-'1')- .,% ,-6;..' 0*2 *0')- .,.' .2/*..2*..' 12',)*' 5-1;20' =-2>=6// ' 1' ,.' "% ' ?=1..D/,' 1-' 1',)*' 2*>*..6-' >12^ 2*>,12' 1'. 2' 8 ,)' 2,*' *L .,*2>*% *>6;,' 6' -*>*2,' -*2>)' 8-,*-' 600;>*.' 6.' =-11 .' 1 ')- .,.' ?1-6/ ?^ =*-*>,12.' MVP' " ' ' ' 1' 6- .' Q RX')' .' ,-*6,?*2,' 1 ') .' ?1),*-' M ;9*' ' CSKT' B1)2' ' XT' ,)*' *L=;/.12' 1',)*' =-1 62*-.' 1',)*' (*?=/*' M<6,,' LL ' KC ' *,' 6/%X' ,)*' >;-.25' 1',)*' 5C,-**' M<6,,' LL ' CKK' <6-9' L ' K'CK XT',)*' 0*.,-;>,12' 1',)*' .8 2*' M<6,,'+ ' KNCN ' *,'6/%X')' .' .*+*-*' -*=-11 .' 1 ' ,)*')6-..**.' M<6,,' +' K ' *,' 6/%X' 620' 6/.1') .' .;=^ =1.*0' 6D2*56,12' 1',)*' ,/*' 5110' M<6,,' L L ' ', D;,' 2' .-625*' >12,-60>,12' 1 ') .' 182' + *8.')*' ;.*.' :>)'/625;65*' 6.'./ .' (' 1' 8)6,'6')*5),'01*.' ,)*' :)6-6>,*-' 1 'B*.;.')- .,'- .*' 6D1+*',)*' ?1.,.;D^ /?*' 620' *,'*+*-' ?=*- *>;',=*.' 1 '62,_;$ %%%%%%%%%% B*.;.')- .,')6.' D**2');?D/*' 620' =6, *2,I')1/ ')1/ ')1/ ' D* 1-*' 410I',.-- / /*',1' 0*+ /.I' 8,)1;,'62 ' . 2' % % % % ' : .' ?1-6/ / *' .' 8)1// ' =*2*,-6,*0' D ' 410 7 M>)6/(' ' ' " ' "! ' '# *' =% K Q' K R' N SCN QX% ,)*-' 6, 126/.,>' 8-.*-.' M6.' 62,' B6>1D ' 620' 1,)*-.X')6+*' /6D1-*0',1'=/6>*' 2' >/*6-'/5),' ,)*' ;2=6-6//*/*0' ?1-6/ *L>*//*2>*' 1 ')- .,'6.',)*' 6D 0C' 25',=1' 620' =-11 ' 1 ',)*' 0 + 2 , ' 1 ') .' ,*6>) 25.% ()*' 0*2 6/' 1 ',).' 01>,- 2*' 8)*,)*-' 1=*2' 1-' >1+*-,' ?1.,/ '6-.*.' -1?'.)6//18' ?1-6/620'-*/5 1;.'>12>*=^ ,12.' 1-' -1?'/18*-25',)*' ;206?*2,6/ ?1-6/ 26,;-1' 1 '.2'A;.,>6,12'*,>% ' 2,1' ?*-*'-*/6,12.

% 2',)*' 1,)*-')620' $//?622')6.'/6 0',)*');->)% ;20*-'/6.,25'1D/ 56,12.'D '.' ?1215-6=)' -1 '$ 1 + 'D 'M/6.,'*O% QSN' 41,)6X',-62./% D ' -182' -" '$ ' 'D 'M 0 2D% Q Q K?1X% 1?*-' *D6 '620' & * ..')6+*'.,//;-,)*-'>12,-D;,*0',1',.' */;>06,12'M.**'-* *-*2>*.'6,'*20'1',) .' 6-,>/*X% ()*' .;DA*>,')6.'D**)'?1-*'1-'/*..';// ',-*6,*0d 2'1==1.^ ,12',1' 6,126/.?' D ' :6.*' I$ " ' ' QN T' " 'D 1'620' " "8T >)8* [*-' 2' $ ' ') + ' QN ' '620' +T QN ' XT 2'>122*>,12'8,)') .,1-'>1C>-,>6/*L6?26,12'1',)*' =*-.12'1 ')- .,' D ' * ?' I ' " " " ' " ' =% N' SC SXT' -1?',)*' .,620C=1 2,'1',)*' 01>,-2*' 1 ')- .,62' ?1-^ 6/.'620');->)') .,1- 'D ' *' & *,,*' I + " ' $ " ' +1/% 'g S C NX' & 7.5*' >6 " ' ?J " " E 8 6 0' I " " ' " ' =% Q' %X' *D*29*/ I1' +' 620' +*- '86+*- 25/ ' 2') .' " 'D ' +' 620' +*-'86+*- 25/ ' 2') .' " 'D ' <6-A7)*-')6?=12.'.1;5),',1'600' 8* 5),',1',)*-'-6-^ A=%N'620' NRX' & * [.6>9*-'>6 " ' ? " " ' =% 5;?*2,.'D '>/6 ? 25',)6,',)*' 6>>*=,62>*' 1',)*-'+*8.' 81;/0'-*>152 .*' 6/.1',)*' .2/*..2*..' 1 ')- .,% '01>^ ,- 26/*--1-'1 '6' 0 *-*2,'.1-,')*2>*' 6-1.*C'+[%,)*'=;,^ ,25')- .,' 2',)*' D6>95-1;20' 6.',11')1/ ' 1-' ?1-,6/.' D*,;'>" ' ' %" ' ') ' \ 120' Q K' ,1'600-*.. '620'.;D.,.;,25',)*' ?*0 6,12' 1 ',)*' -^ 5 2' 620',)*' =-*.,)110%

N% 2*' 1 ',)*' >) * ' ?*-.,' 1 ',)*' * 1-?*-.' .',)*' 6>,',)6,',)*' ,6;5),',)6,')- .,' .' 20 + 0;6// ' 620' ? ?*0 6,*/ '6==-*)*20*0' D ' 6 ,)' 620',)6,',)*' : 1/ ' >-=,;-*.' 21,',)*' 015?6,>' 620' / ,;-5 >6/,-60 , 12.' 1 ',)*');->)' 6-*',)*' .1;->*.' 8)* >*')- ., 62',-;,)' .' 0*-+*' ()* ' 6>>*=,*0',)*' 01>,- 2*' 1 ',)*' 1?62 6,)1/>');->)' >12>*-2 25',)*' =*-.12' 620' >)6-6>,*-' 1 ')- .,' 1 ' 8)>)') .' . 2/*..2*..' 1-?*0' 62' *..*2, 6/ =6-,% ,' 86.' -*>*+*0' 6.' 2',)*' 6=1.,1/>6/,?*.' 6.' 62' 2,;,12' 21,' 2**0 25' =-11 ' D;,' 6D=+*' ?*-*'/15^ >6/0*?12.,-6, 12%J

% 1>2 62 .?' ? 5),')6+*' D**2' *L=*>,*0',1' 1=*2' ;=' 6' 2*8' 620' -;,;/0.>;..12' 1',)..'.;DA*>,'*,' 6==6-*2,/ ' 2' 62,6512.?' 8,)',' + *8.' 1',)*' =*-.12' 620' 1 >*' 1 ' / -.,' ,'6..*-,*0' 21,'12/ ',)*'. 2/*..2*..' 1 ' B*.;.' 6.' 6' 6>,' D;,'6/.1',)*' '% '%/ 1' 620' 20**0' 0*2 *0',)6,')*' 86.' -*6// ' .;DA*>,',1',*?=,6^ ,12' D*>6;.*' 1 ')..';=*-26,,-6/' 5*26,12%

% -1?',)*-.71' 4*-?62' 6, 126/.?' 6D1;,',)*' ? 00/*' 1',)*' Q,)' >*2,;- ',).' 01>,- 2*')6.' D**2' -*^ =*6,*0/' ?=;52*0' D ' 8-.,*-.' 1',)6,'.>)11/% 1?*' M6.' * ?6-;.' 6)-0,' *2,;-2 X'+*2' 51'.1' 6-'6.',1' >)6-6>,*-[*')-.,' 6.' 62' ?=1..1-% 1' 6/.1' 6?125' 25/.)' 6, 126/.,.' *8?62' " ' '@ +1' 20.' ?=*-*>,12.' 2',)*' ?1-6/>)6-6>,*-'1')- .,% ,-6;..' 0*2 *0')- .,.' .2/*..2*..' 12',)*' 5-1;20' =-2>=6// ' 1' ,.' "% ' ?=1..D/,' 1-' 1',)*' 2*>*..6-' >12^ 2*>,12' 1'. 2' 8 ,)' 2,*' *L .,*2>*% *>6;,' 6' -*>*2,' -*2>)' 8-,*-' 600;>*.' 6.' =-11 .' 1 ')- .,.' ?1-6/ ?^ =*-*>,12.' MVP' " ' ' ' 1' 6- .' Q RX')' .' ,-*6,?*2,' 1 ') .' ?1),*-' M ;9*' ' CSKT' B1)2' ' XT' ,)*' *L=;/.12' 1',)*' =-1 62*-.' 1',)*' (*?=/*' M<6,,' LL ' KC ' *,' 6/%X' ,)*' >;-.25' 1',)*' 5C,-**' M<6,,' LL ' CKK' <6-9' L ' K'CK XT',)*' 0*.,-;>,12' 1',)*' .8 2*' M<6,,'+ ' KNCN ' *,'6/%X')' .' .*+*-*' -*=-11 .' 1 ' ,)*')6-..**.' M<6,,' +' K ' *,' 6/%X' 620' 6/.1') .' .;=^ =1.*0' 6D2*56,12' 1',)*' ,/*' 5110' M<6,,' L L ' ', D;,' 2' .-625*' >12,-60>,12' 1 ') .' 182' + *8.')*' ;.*.' :>)'/625;65*' 6.'./ .' (' 1' 8)6,'6')*5),'01*.' ,)*' :)6-6>,*-' 1 'B*.;.')- .,'- .*' 6D1+*',)*' ?1.,.;D^ /?*' 620' *,'*+*-' ?=*- *>;',=*.' 1 '62,_;$ %%%%%%%%%% B*.;.')- .,')6.' D**2');?D/*' 620' =6, *2,I')1/ ')1/ ' D* 1-*' 410T',.-- / /*',1' 0*+ /.I' 8,)1;,'62 ' . 2' % % % % ' : .' ?1-6/ / *' .' 8)1// ' =*2*,-6,*0' D ' 410 7 M>)6/(' ' ' " ' "! ' '# *' =% K Q' K R' N SCN QX% ,)*-' 6, 126/.,>' 8-.*-.' M6.' 62,' B6>1D ' 620' 1,)*-.X')6+*' /6D1-*0',1'=/6>*' 2' >/*6-'/5),' ,)*' ;2=6-6//*/*0' ?1-6/ *L>*//*2>*' 1 ')- .,'6.',)*' 6D 0C' 25',=1' 620' =-11 ' 1 ',)*' 0 + 2 , ' 1 ') .' ,*6>) 25.% ()*' 0*2 6/' 1 ',).' 01>,- 2*' 8)*,)*-' 1=*2' 1-' >1+*-,' ?1.,/ '6-.*.' -1?'.)6//18' ?1-6/620'-*/5 1;.'>12>*=^ ,12.' 1-' -1?'/18*-25',)*' ;206?*2,6/ ?1-6/ 26,;-1' 1 '.2'A;.,>6,12'*,>% ' 2,1' ?*-*'-*/6,12.

% 2',)*' 1,)*-')620' $//?622')6.'/6 0',)*');->)% ;20*-'/6.,25'1D/ 56,12.'D '.' ?1215-6=)' -1 '$ 1 + 'D 'M/6.,'*O% QSN' 41,)6X',-62./% D ' -182' -" '$ ' 'D 'M 0 2D% Q Q K?1X% 1?*-' *D6 '620' & * ..')6+*'.,//;-,)*-'>12,-D;,*0',1',.' */;>06,12'M.**'-* *-*2>*.'6,'*20'1',) .' 6-,>/*X% ()*' .;DA*>,')6.'D**)'?1-*'1-'/*..';// ',-*6,*0d 2'1==1.^ ,12',1' 6,126/.?' D ' :6.*' I$ " ' ' QN T' " 'D 1'620' " "8T >)8* [*-' 2' $ ' ') + ' QN ' '620' +T QN ' XT 2'>122*>,12'8,)') .,1-'>1C>-,>6/*L6?26,12'1',)*' =*-.12'1 ')- .,' D ' * ?' I ' " " " ' " ' =% N' SC SXT' -1?',)*' .,620C=1 2,'1',)*' 01>,-2*' 1 ')- .,62' ?1-^ 6/.'620');->)') .,1- 'D ' *' & *,,*' I + " ' $ " ' +1/% 'g S C NX' & 7.5*' >6 " ' ?J " " E 8 6 0' I " " ' " ' =% Q' %X' *D*29*/ I1' +' 620' +*- '

6-5;*' '% ',)6,'6.')- ., .'6>9218/*05*0' ?. . 12' 12' *6-,)' 86.',)*' ?1-6/*/*+6, 12' 620',)*' .6/+6, 12' 1 ' 1;-'-6>*' -1?'. 2' ,' 86.' ,, 25' 26 '2*>*..6- ' 2'1-^ 0*-',1'6>>1?=/ .)',)*.*' 1DA*>,. ',)6,')*' .)1;/0'D*' .;'C %=*- 1-',1' ;.' 2',)*.*' -*.=*>,.' (1'-6 .*' ?62' -1?') .' -; 2',)*' - 2>*' 1 ') .' .6/+6, 12' ?;.,' D*' 12*' 8)1' .')1/ ')6>/*..' ;20*/ /*0' .*=6-6,*' -1?' . 22*-.' 620' ?60*') 5)*-',)62',)*')*6+*2. J' 8) /*') .')*6-,' ,1;>)*0' D ',)*' **/ 25' 1 ' 1;-' 2 -? , *. J' 81;/0' ' *6-2' 1-',)*'-*2*86/1 ') ; ?62 , ' : 18' ;// ')- ., .' =*- *>,'/ *' ?***.',) .' 0*6/*+*- ')- ., 62' **/.'! 620' 8 ,)' 8)6,'0**=' 620'5-6,* ;/ >12 0*2>*' 01*.')*' 8)*2' 1==-*..*0' D ',)*',*?=,6, 12.' 620' >12 / >,.' 1 ') .' =-1^ D6, 12',-2',1') ?' 8)1' '2>7*,)' 21,'06 / ',1' 1 *-';=' .6>- >*.' -.,' 1-') .'182' . 2. J' 620' ',)*2' 1-',)*' . 2.' 1',)*'=*1=/*' J' 6.' 0 0' 1,)*-'=- *.,.% K' &'% ' 8*' 20',)6,')- ., 62 , ')6.' *L*-,^ *0' 620' 01*.' *L*-,' 6' =18*-' 1-' ?1-6/' 5110' ;=12',)*' 81-/0' &)*-*+*-' ,') 6.',69*2')1/0'1',)*')*6-,.' 620' ? 20.'1'?*2' 2' ,.'=;- 7 25'=18*-'8*' .**',)6,',)*')6+*' 6,.6 2*0'6') 5)*-'?1-6/620'-*/ 5 1;.'.,6,*'6'>12C' 0 , 12'1'/ *' 6-'D* 120',)*'=6562'1-'+*2',)*'B*8 .)' ,A=*.' : 18' .)6// 8*' 6>>1;2,' 1-',) . '6=6-,' -1?',)6,' / *' 1',)*' 1;20*-'1')- ., 62 , ' ?=6=, 25',.'-*2*8^ 25'=18*-',1',)*')*6-,.'1')' 1//18*-.'H <*-*',)*1^ -*.'1'?1-6/*>120;>,' 8 ,)1;,'*L6?=/*' 6-*' 21,'>6=6^ D/*' 1'=-10;>25'.;>)' -*.;/,.' ,-*6?.' 01' 21,'-.* 6D1+*',)*'/*+*/1',)*'-'.1;->*.!' 21' ?1-*' 01' 1//18*-.' 1'-*/ 5 1;.'.A.,*?.'-.*'6D1+*',)*'/68.' 620'=- 2> =/*.' 1'-*/ 5 1;.'/ *' =-*.>- D*0' 2',)*' >120;>,' 6.' 8*//' 6.' ,*6>) 25.'1',)*-'1;20*-.%!' & *' ?6 'A;.,/ '>/6 ?',)6,' ,)*') 5)*-' ?1-6/*>120, 12'1')- ., 62' 26, 12.' .' 0;*' ?6 2/ ',1%,)*' 2 /;*2>*' =-1>*.0 25' -1?',)*' .=1,/*..' /*' 1')- .,% < 62 '1',)*' *6-/ '6.' 8*// 6.' >>*2,' 1==12*2,.' 1')- ., 62 , '6.'6'. .,*?' '>6-',*.,D21- ',1',)*'.;-=6..^ 25' ?1-6f'5-*6,2*..' 1' ,.' 1;20*-% /6,*' 0*>/6-*0' ,)6,')*' 1;20' 21' 6;/,' 2') ?' ,1;>)-'5',)*',) 25.' 8)*-*1',)*' B*8.'6>>;.*0') ?'620',)-'>*' 6.9*0',)*' _;*., 12' ' &)6,'*+/)6,)')*'012*'HJ'M ;9*' LL/ 'KKX*' ()*' 1?62'>*2,;-1 '8)1'8 ,2*..*0' .' .; *- 25.'>2' ,)*'>-1..'.6 0' ' *-,6 2/ ',) .' 86.'6'-5),>>;.'?*2%J B1.*=);.' ',)*'=6..65*'D*'6;,)*2, >'I& P 40'D9'L+ '*.D*'.= -,'620'=;-=1.*'1')-.,'2',)*'.+*+-6/'6>, 12.' 21, >*0' *20'Z',)*'0;, '8)>)') .'1 >*'6.' <* .6)' ?=1.*0'12') ?% *8*0'2',)*'=-1=*-'/5),'21'0 .^ 1D*0*2>*'1'1-'0 .-*.=*>,',1') .'=6-*2,.' 21'1;,D;-.,' 1'625- '=6.. 12'21'862,12'0*..-;>, 12'1',)*'=-*=*-,E' 620'0 .-*56-0'1',)*'-5),.'1-' **/25.'1'1,)*-.'>62'D*' 1;.20% ,,*2, 12',1',)*' .>1=*'620' ?=1-,'1',)*' ;*.^ ,12'1')- .,'1',)*' 1;25' ?62' ' " '>6//*.,'_),)1;' ?*' 4110HJ'M-' % '() '0 6 1A%P // .)18',)6,')*' 01*.' 21,' -*A*>,',)*',/*' 5110' L;.' .**9.',1' /*60',)*' _;*., 12*-',1',.',-;*' 6==/ >6, 12?,)*'*?=)6. .'6.',)*'J 1-0*-' 1',)*' 81-0.' .)18.'-*..' 21,'12',)*'*L=-*.. 12' 5110 D;,',)*' " ' 410'12/ .' 5110' D;',)*',)6,')6,)'.**2'?*')6,)'.**2',)*' 6,)*-%J 2'-*=/ ',1',)*'1DA*>, 12',)6,',)*' 0*6'1'. 2/*..2*..' .' 2>12. .,*2,' 8 ,)' ,)*' 5-18,)' 2' 8 .0,%?' 620',)*' 0*+*/1=?*2,' > ') .' ?1-6/' 26,;-' 8)>)',)*' 41.=*/ =1-,-6 ,;-*' 1')- .,'6.. 52.',1') ?' 8*' ?6' .6 ',)6,' 5-18,)' 620' 0*+*/1=?*2,' 01' 21,' 2*>*..6- / ' 1-' >*?C7' ?12/ ' ?=/ ' ?=*- *>, 12% ') ; ?62'D* 25' 1=1..*..C f 25' 2' 2 62> '620'D1)110',)*' ?6,;- , '620'>1-7/*,*' 0*+*/1=?*2,' 1' ?62)110' 620' 65*' &1;/0'D*' 6' ?12^ .,-1. , ' & *' *L=*>,' -1?' 2 62> ' 1;,) ' ?62)110' 620' 65*' 8)6,'D* ,.' *6>)' =*- 10' 620' -*56-0' 6.' --*5^ ;/6-' 620' ?=*- *>,' 8)6,' .' >12,-6- ',)*-*,1% 56 2' 2 ,*' 26,;-*' .'21,'2*>*..6- / ' ?=*- *>,% ()*' =*- *>,' 6>, 12' 1' .;>)' 6' 26,;-*' 2' >12 1-? , ' 8 ,)' ,)*' /68.' 620' / ? 7, 12.' 1' ,.' D* 25' >6221,'D*' . 2 ;/' 1-' *+ ^ 0*2>*' 1' ?=*- *>, 12' 6.' 2 ,*' *L .,*2>*' D;',';.,',)*' >12,-6-A7

()*' 21, 12',)6,' 20 + 0;6/ =-*C*? 2*2>*' .' 2>12^ . .,*2,' 8 ,)',)*' 26,;-*' 1',)*' 20 + 0;6/ 1-',)*' 26,;-*' 1',)*' 20 + 0;6/ ?*2' .,620' 1;,'=-1? 2*2,/ '*2C

)6-?12 1;.' ,*., ?12 ',1C,)*',-;,)' 1',) .' 01>,-2*%)- .,' .' 0*.>- D*0' 2',)*?'6.',)*' :1/ ' 2*',)*' B;.,' 620' 5),*1;.' M >,.' ' T' LL: ' T' *,% /' QT 'B1)2' ' KRT' ' XT' 6.',*?=,*0' / 9*' 6.' 8*' 6-* *,' 8,)1;,.2I'M:*D% +' XT' 6.' 1;-'*L6?=/*' 8)1' 0 0' 21' .2'2*,)*-'86.' 5; /*' 1;20' 2',) .' ?1;,)J'M' *,% L' K KKXT' 6.' 6'/6?D' 8,)1;,'D/*?.)'620' 8,)1;,' .=1,J'M' *,% ' RXT' 6.' 62',) 5)C=-*.,' 8)1' .')1/ ')6-?/*..' ;20* /*0J' % % % 8)1' 2**0*,)' 21,'%06/',1' 1 *-'.6>- >*.J' 1-') .' 182'. 2. J 6.' 0 0' 1,)*-'=-*.$' M:1D% + 'KS K XT' 6.',)*' <*0 6,1-' 8)1' 92*8' 21' 2J MK' 1-% ' K X% ()*.*' 8-, 25.' 20**0' 6-*' ;// 1' =-11 .',)6,') .' 6=1.,/*.' 620' ;//18*-.'-*>152 .*0' 2')- .,'D*>6;.*' 1')')1/ 2*.. ' 6.' 8>// 6.') .' 8120*-^ 81-9 25' =18*-' ,)*' <*.. 6)' 1-*,1/0' D ' =-1=)*> ' >1? 25' 2',)*' ;/2*..' 1',)*' 0 + 2*' .= - ,' ,1' D*',D*' 1;20*-'/685 +*-'620'9 25' 1',)*' 9 2501?' 1' 410' 12' *6-,)%

)- .,'21'/*..';2*_; +>>6A/ '>/6 ?.' 1-') ?.*/ '.;>)' =*- *>, 12' 1 '26,;-*' 620' / 7' 2',D*' 6..;?=, 12' 1 '12*^ 2*..' 8 ,)' 410' MB1)2' L' N X' 2',)*' 6>,',)6,')*' 21^ 8)*-*'=-6 .' 1-' 1-5 +*2*..' 1 ') .' 182'. 2.'>-'-*>15^ 2 .*.',)6,'. 2'*L .,' 2') ?.*/ '620' .=*> >6// ' 2',)*' *L=-*.. 12' 8)>)'1% 1;'>12+ 2>*,)'?*' 1'. 2J MB1)2' + ' S% ' , * ' 7 ;,'D- *'21, >*' >62' D*' ,69*2') *-*' % 1',)*'1DA*>, 12.',1',) '01>,-2*'8)>)'6-*'5-1;=*0' D' (B//?622'M=% NX;20*-',81'>/6..*.'+[%M X,)1.*'-*..^ 25' 12' 6' 0*2 6/' 1',)*' 6>,;6/. 2/*..2*..' 1'B*.;. J 620'MKX,)1.*'-*., 25' '12' 6' 0*2 6/' 1',)*'=1.. D /, '> ' . 2/*..2*..' 6,' 6// 2',D*'.=)*-*' 1')?62'/ *' ,20'/ ' & * .' IR% >%X;20*-',)-**')*60.' + [% M X,)6,';2_;*' 20 + 0;6/, '>6 / + ' ' 8 >12,-60>,.' 1,)',)*' 26,;-*' 1',)*' 20 + 0;6/ 620',)*' 0*6 1',)*'); ?62'-6>*' 620',.'0*+*9'=?*2,!' MKX,)6,' 2/*..2*..' .' --*>12> /6D/*' 8 ,)',)*' 26,;-*' 1'?621' 620' MNX,)6, ,)*' .6?*' .' --*>12> /6D/*' 80,)',)*' 6>,;6/. 2 ;/ >12^ 0 , 12' 1' ?629 20% ()*' 1-?*-' >/6.. >6, 12' .**?.' ,)*' . ?=/*-' 12*' 620' 8*' =-* *-',1' 1//18' ,% 2' -*^ 56-0',1',)*' 1DA*>, 12.' 1' *>6;,' 8)>)'D*/125',1',)*' -.,' >/6..' ,' ?6' .;>*',1'.6',)6,' 6// 1',)*?' *L^ >*=',)*' /6.,'6-* 1;20*0' 12' 2>1 7*>,'>12>*=, 12.' 1' ,D*'.= -,'620'=;-=1.*'1')-.,' 2',)*' .+*+-6/' 6>, 12.' 21, >*0' *20' Z',)*' 0;, '8)>)') .' 1 >*' 6.' <* .6)' ?=1.*0' 12') ?% *8*0' 2',)*'=-1=*-'/5),'21'0 .^ 1D*0*2>*'1'1-'0 .-*.=*>,',1') .'=6-*2,.' 21'1;,D;-.,' 1'625- '=6.. 12'21'862,12'0*..-;>, 12'1',)*'=-*=*-,E' 620'0 .-*56-0'1',)*'-5),.'1-' **/25.'1'1,)*-.'>62'D*' 1;.20% ,,*2, 12',1',)*' .>1=*'620' ?=1-,'1',)*' ;*.^ , 12'1')- .,'1',)*' 1;25' ?62' ' " '>6//*.,'_),)1;' ?*' 4110HJ'M-' % '() '0 6 1A%P // .)18',)6,')*' 01*.' 21,' -*A*>,',)*',/*' 5110' L;.' .**9.',1' /*60',)*' _;*., 12*-',1',.',-;*' 6==/ >6, 12?,)*'*?=)6. .'6.',)*'J 1-0*-' 1',)*' 81-0.' .)18.'-*..' 21,'12',)*'*L=-*.. 12' 5110 D;,',)*' " ' 410'12/ .' 5110' D;',)*',)6,')6,)'.**2'?*')6,)'.**2',)*' 6,)*-%J 2'-*=/ ',1',)*'1DA*>, 12',)6,',)*' 0*6'1'. 2/*..2*..' .' 2>12. .,*2,' 8 ,)',)*' 5-18,)' 2' 8 .0,%?' 620',)*' 0*+*/1=?*2,' > ') .' ?1-6/' 26,;-*' 8)>)',)*' 41.=*/ =1-,-6 ,;-*' 1')- .,'6.. 52.',1') ?' 8*' ?6' .6 ',)6,' 5-18,)' 620' 0*+*/1=?*2,' 01' 21,' 2*>*..6- / ' 1-' >*?C7' ?12/ ' ?=/ ' ?=*- *>, 12% ') ; ?62'D* 25' 1=1..*..C f 25' 2' 2 62> '620'D1)110',)*' ?6,;- , '620'>1-7/*,*' 0*+*/1=?*2,' 1' ?62)110' 620' 65*' &1;/0'D*' 6' ?12^ .,-1. , ' & *' *L=*>,' -1?' 2 62> ' 1;,) ' ?62)110' 620' 65*' 8)6,'D* ,.' *6>)' =*- 10' 620' -*56-0' 6.' --*5^ ;/6-' 620' ?=*- *>,' 8)6,' .' >12,-6- ',)*-*,1% 56 2' 2 ,*' 26,;-*' .'21,'2*>*..6- / ' ?=*- *>,% ()*' =*- *>,' 6>, 12' 1' .;>)' 6' 26,;-*' 2' >12 1-? , ' 8 ,)' ,)*' /68.' 620' / ? 7, 12.' 1' ,.' D* 25' >6221,'D*' . 2 ;/' 1-' *+ ^ 0*2>*' 1' ?=*- *>, 12' 6.' 2 ,*' *L .,*2>*' D;',';.,',)*' >12,-6-A7

()*' 21, 12',)6,' 20 + 0;6/ =-*C*? 2*2>*' .' 2>12^ . .,*2,' 8 ,)',)*' 26,;-*' 1',)*' 20 + 0;6/ 1-',)*' 26,;-*' 1',)*' 20 + 0;6/ ?*2' .,620' 1;,'=-1? 2*2,/ '*2C

()*' *8C(*.,6?*2,'8-, 25.' D*6-';2*_; +1>6/ 620

dowed above their fellows. Is it then irrational to suppose that in view of the great work which Christ came to do, he would be superior in purity to those whom he sought to elevate?

In all the relations of his life on earth, Jesus always did what was due to them. He did not seek, in virtue of the connection of his humanity in one personality with his divinity, to exempt his human nature from the influences which legitimately operate on it; but meeting fully life's duties as they came to him, he asserted in himself the triumph of one unfallen nature over the power of evil in the world. Thus his perfect holiness of life stands out clearly in the moral heavens, the unchanging, ever-brilliant star of hope whose light no cloud can ever dim, a safe and surely-guiding beacon to those who traverse the sea of life in search for the Promised Land.

Literature.—Ullmann, *The Sinlessness of Jesus* (Edinb. 1858, 8vo); Schaff, *The Person of Christ* (Boston, Am. Tract. Society, 16mo); Martensen, *Christian Dogmatics* (Edinb. 1866, 8vo); Knapp, *Christian Theology*, p. 336, 7 (Phila. 1853, 8vo); Weiss, in Herzog's *Real-Encyk'opädie* (Supplem. i, 193 sq.); Dorner, *De la Sanctité parfaite de J. C.* (in *Suppl.* to *Revue Chrétienne*, Nov. 1861); Dorner, *Person of Christ* (passim); Niemann, *Jesu Sündenlosigkeit* (Hanover, 1866).

Christ, Order of, KNIGHTS OF THE. After the abolition of the order of Knights Templars, in 1312, king Dionysius of Portugal left to such as resided in his dominions a large share of their estates, and in 1317 reconstituted them into a new spiritual order of "Knights of Christ." It was sanctioned by Pope John XXII on condition of obedience to the papal see. He also instituted a branch of the order in the Papal States. The knights were secularized in Portugal in 1789, and divided into three classes: "great crosses," of which there were 6; "commanders," numbering 450; and knights, the number of which was unlimited. The distinctive marks of the order are a golden cross, carved and ornamented with red enamel, the ends terminating in two points; a scarlet band, which, by the papal knights, is carried around the neck. The Portugal grand crosses wear a particular dress on great occasions, with a golden chain wound three times around the neck, but which is usually thrown across the shoulder from right to left; a band; and on the breast a star, containing in its centre the cross of the order. The commanders and knights wear a similar but smaller cross, the former in a star and on the breast, with the band; the latter pending from the button-hole, and without the star. As a religious order, they have been suppressed, with all such orders, in Portugal.—Pierer, *Universal-Lexikon*, s. v.; Chambers, *Encyclopædia*, s. v.

Badge of the Portuguese Order of Christ.

Star of the Portuguese Order of Christ.

Christ, Work of. See ATONEMENT; CHRIST, OFFICES OF; CHRISTOLOGY; REDEMPTION.

Christendom, the kingdom of Christ in its diffusion among men on the earth. In the way of territorial extension, Christendom has been enlarging almost without interruption from the beginning. In the second and third centuries congregations were established in all parts of the Roman empire, and beyond the limits of the empire it collected churches in Parthia, Persia, and India, and extended to several barbarous nations whose languages had never been reduced to writing. The conversion of Constantine established the first Christian state. By A.D. 423 the whole eastern portion of the Roman empire was free from paganism, which lingered a little longer in the western, without, however, disputing any longer the ascendency. In the fifth and sixth centuries Christianity conquered in great part Northern Africa, Spain, Gaul, Scotland, England, and a number of the German tribes. The erection of the empire of Charlemagne paved the way for the conversion of Northern Europe. The Saxons consented to accept Christianity in 803, and Scandinavia in the tenth and eleventh centuries. Thence it spread soon to Iceland and Greenland. The conversion of the Sclavonians of Eastern Europe commenced in the ninth century, and was nearly completed in the twefth. In the tenth and eleventh centuries the dissemination of Christianity in Hungary, Transylvania, and Russia commenced. At the same time, its territory was lessened in Western Asia, Northern Africa, and a part of Southern Europe, by the progress of Mohammedanism. In the period from the eleventh to the sixteenth century the conversion of Northern Europe, and in particular of Pomerania, Esthonia, and Livonia, was completed. A part of Eastern Europe, however, was gained by the Mohammedans, but, on the other hand, a large new territory was secured to Christianity in Western Africa, East India, and America, in connection with the discoveries of the Portuguese and Spaniards. After the sixteenth century the newly-discovered continent of America began to be filled up by a Christian population, thus making the second Christian continent. The Roman Church for some time seemed successful in Christianizing Eastern Asia, especially China and Japan, but its progress was stopped by persecution. In the eighteenth century a new Christian state sprang up in South Africa, in connection with the political rule of the Dutch and the English. The nineteenth century opened with brighter prospects than any preceding. In South Africa the territory of Christian nations extended; in Western Africa, Liberia was founded as a Christian republic; in Northern Africa, Algeria is filling up with a Christian population; and in Eastern Africa, Abyssinia, which, in spite of its isolation, has preserved since the fourth century a kind of Christianity, promises to re-enter the union of the Christian states. Australia has already become the third Christian division of the world, with only a few weak remnants of paganism. In Asia the Karens of Farther India have been brought under the influence of Christianity, while in the north nearly one third of the continent forms part of a Christian state. Thus the territory of Christianity at present comprises three out of the five large divisions of the world, with a considerable part of the two others. Moreover, large territories in Asia and Africa, though not yet Christianized, are under the dominion of Christian nations, and hardly a single country is at present left into which Christian missionaries have not forced their way. Thus the time seems near when the extent of Christendom will coincide with the extent of the earth. The following estimate of the Christian population of the world is based upon the latest (1868) works on political and ecclesiastical statistics:

	Total Population.	Roman Catholic.	Protestant.	Christian.
America....	72,800,000	42,700,000	27,500,000	70,200,000
Europe.....	287,000,000	140,200,000	67,200,000	274,200,000
Asia	798,600,000	4,600,000	700,000	12,900,000
Africa.....	188,000,000	1,100,000	700,000	4,900,000
Australasia, Polynesia..	3,800,000	400,000	1,000,000	1,400,000
	1,350,200,000	189,000,000	97,100,000	363,600,000

See also Smith, *Tables of Church History*. Compare CHRISTIANITY.

Christ-emporia (χριστεμπορία), *selling of Christ*. See SIMONY.

Christening, a name given to the act of baptism, (1) as if thereby the child were *made a Christian*; or

MKX' 6.' D6=, . ?' L*.' ,)*' " ' 1-' " ' 26 ? *' 1 ',)*' >) /0%
- . , 6 2' ,)*' 26 ? *' 5 +*2', 1' ,)1. * 8)1' D*/ *+*' B* . ; . ' , 1' D*' ,)*' < *.. 6)' M >, .' L ' KSX% 1 ? ? *2,6,1-.' 620' >- , >.' 6-*' 21,' 65-**0' 8)*,)*-' ,)*' 1// 18 *-.' 1 ')- . ,' 56+*' ,) . ' 6==*//6, 12', 1' " 1' 1-' 8)*,)*-' , ' 86. ' D*. ,18 *0' 12' ,)*? ' D ' " ! * ^ ,)*-' + *8' 6==*6-. ' , 1' D*' 8)1// ' ,-; *' 1-' 8)1// ' 6/. *% ;>)' , ,/*. ' 01' 20,' ; . ; 6// ' 1- 5 26,*' 2' 62 ' 6-D , -6- ' 86 ' 21-' 01' ,)* ' .=- 25' -1 ? ' 6' . 25/*' =6-, ' D ; ,' -6,)^ *-' 6- . *' -1 ? ' 6' >12+*2, 126/ 6. . *2, ', 1' ,)* -' 6==-1=- ^ 6, *2*. . % , ' 86. ' 20**0' ,)*' 2, *-*. , ' 1 ' ,)*')- . , 62. ' , 1') 6+*' .1 ? *' 26 ? *' 8) >)' ? 5), ' 21, ' / 9*' ,)*' B*8 .)' 12*.' M 6[6-*2*.' 1-' 46/ /c*62%' ? =/ ' -*=-16>) % 20' ,)1; 5)' ,)*', *-? .' " 1' 1' " ' 1' $ ' = $ ' % ' 1-' " ' " 1 ' ? 5), ' . ; >*' 6 ? 125' , / *-6. */+*. ' *, ' 212*' 1 ',)* ? ' 87*-1' . ; > *2, / '0* 2 , *' ; -' 62' 6==*//6, 12 ' 620' ? 5), ' =*-)6=. ' D*' ,)1; 5), ' , 1' .6+1-' 1 ' +62 , % ( )* ' 81; /0' ,)*-* 1-*' D1' 21, ' 0 . 2^ >/ 2*0' , 1' 601=, ' 12*' *. =*> 6// ' 1-' *L1, *- >' ; .*' *, ' ,)*' 2*>*. . , ' 86. ' 21, ' .1' 5-*6, ' 6. ' , 1' . , ? ; /6, *' ,)* ? ', 1' 01%,) . ' ' +)*-*6. ',)*' =*1=/*6, '/6-5*' 2') 6+ 25' , 1' .=*69' 1 ',) . ' 2*8' . *>, ' 81; /0' .112' 2**0' .1 ? *' 0 .^ , 2>, +*' 6==*//6, 12' 620' 8)6, ' .1' 0 . , 2>, +*' 6. ' 12*' 1-? *0' -1 ? ',)*' 26 ? *' 1 ' , ' 1; 20*-H ' . ' . ')*-*^ 1-*' ?1. . ' / 9*' , 1') 6+*' D*2' . ; 55*. , *0' D ' ,)*' 4*2^ , /*' 2) 6D , 62, . ' 1 ' 2, 1>) ' 620' , 1') 6+*' *6-/ ' >1 ? *' 2, 1' 5*2*-6/' ; . *' D ' 6' . 1-, ' 1 ' >1 ? ? 12' >12. *2, % M **' 127 D*6-*' 620' : 18 . 12 . ' f ' '6% ' '$! ' ' R%X
( )*-*' . ' 21' -*6. 12' , 1' ,) 29' 8 ,)' . 1 ? *' ,) 6, ' ,)*' 26 ? *')- . , 62. J' 86. ' 5 +*2' 2' 6D. 1/ ; , *' ! &)*2' ; . *0' D ' 5- ==6' M >, . ' LL+ ' KQX' ,)*-*' . ' 21' =-11 ' ,) 6, ' , ' 86. ' 6' , *- ? ' 1 ' -*=-16>) T) 60') *' 2, *20*0' 0*- . 12 ') *' ? 5), ') 6+*' *? =/1 *0' ,) *', *-? ' 6[6-*2*' 8) >)' 86. ' 2' -*_ ; *2, ' ; . *' 6 ? 125' ,) *' B*8 . ' 620') 6. ' >1 , 2; *77>; --*2, ' 2' ,) *' 6. , ' 8)*-*+*-' ,)*' -6D >' /625; 65*' ' .=19*2' , 1' ,) *' =-*. *2, ' 06 % ( )*' *6-/ ' 601=, 12' 1 ' , ' D ' ,) *')- . , 62. ' ,) *? . */+*. ' 620' ,) *' ? 622*-' 2' 8) >)' ,)*' ' *? =/1 ' , ' 6-*' . ; > *2, ' , 1' 0 .^ =*/ 6// 0*6' 1 ' ,) . ' 26, ; -*' M ' *, % +' 4X% ( )*' 12/ ' -*=-16>) ' >122*>, *0' 8 ,) ',) *' 26 ? *' 81; /0' D*' ,) *' 2*+^ , 6D/*' 12*' 6- . 25' -1 ? ' ,) *' =-1 *- . 12' 1 ' 6 ,) ' ? =/ *0' 2' , ' * ,) *-' . ' ,) *' + *8' 1 ' 1,) *-' ? 1-*' =-1D6D/*' ,) 6, ' , ' 86. ' 6' 26 ? *' ? =1. *0' D ' 0 + 2*' 6==1 2, ? *2, % ( )*' , *-? ' % % 1 8' M, -62. /6, *0' >6// *0J' 2' ,) *' =6. ^ 65*' -. , ' ; 1, *0X' ; . ; 6// ' -*/ *0' ; =12' , 1' . ; . , 6 2' ,) . ' + *8 ') 6. ' 1,) *-' . 52 >6, 12. ' ,) 62' ,) 6, ' 1 ' 62' 1-6> ; /6-' -*. =12. *' 620' . ' 6 -/ ' >6=6D/*' 1 ' ,) *' ? *62 25' 6 . . 52^ *0' , 1' , ' 2' 1 ; -' +*-. 12%
' ( ) . ' 81-/0C 6 ? 1 ; . ' 26 ? *' M & // 6 ? ' 1 ' (-*' + ' RX' 1>>; -. ' D ; ' ,) -**' , ? *. ' 2' ,) *' *8' (*. , 6 ? *2, ' M >, . ' L ' KST' LL+ ' KQT' ' *, % SX% 2' ,) *' -. , ' 1 ' ,) *. *' =6. . 65*. ' 8*' 6-*' 2 1-? *0' ,) 6, ' , ' 6-1. *' 2' ,) *' > , ' 1 ' 2, 1>) ' 0 ; - 25' ,) *' *6-' . =*2',) *-*' 2' =-*6>) 25' D ' 6 ; / ; 20' 6-27fD6. ' % % N % 1,) ' ; 06. ' M ' NRN ' 6 ' *0% 46 . 1-OX' 620' < 6/6/6. ' > " %"' LX' . 6 ' ,) 6, ' ,) *' 26 ? *' 86. ' -. ' ; . *0' 2' ,) *' *= . >1=6, *' 1 ' +10 ; . ' 6, ' 2, 1>) ' 8) 1' .' . 6 0' , 1') 6+*' D*' 2' 6==1 2, *0' D ' ,) *' 6=1. / *' *, *-' 6. ') . ' . ; >>*. . 1-' MB*-1 ? *' " ' =% KRX% ( ) 6, ' +10 ; . ' 6>, ; 6// ' 2+*2, *0' ,) *' 26 ? *' M < 6/6/6. ' % >%X' . ' 62' 6. . *-, 12' 8) >)' ? 6 ' D*' 0 . -*56-0*0' 6. ' . 6 */ ' 6. ' ,) *' ? *0 6*+6/ >, 12' ,) 6, ' , ' 86. ' 601=, *0' 6, ' 6' >1 ; 2^ > /) *0' 1-' ,) *' =; -=1. *%
( ) *' 26 ? *' , . */ ' 86. ' 12/ ' >12, *? =, ; 1 ; . ' 2' ,) *' ? 1 ; ,) . ' 1 ' ,) 1. *' 8) 1' -*56-0*0' 8 ,) ' >12, *? =, ') ?' -1 ? ' 86. ' 0*- +*0T' 620' 6. ' , ' 86. ' 6' ; 2 +*-. 6/ =-6> , >*' , 1' 26 ? *' =1/ , >6/ ' -*/ 5 1 ; . ' 1-' =) /1. 1=) >6/ .1> *, *. ' -1 ? ' ,) *' 26 ? *' 1 ' ,) * . -' 1 ; 20*-. ' M6. ' ,) 6^ 51-*62. ' = > ; -*62. ' =1//12 ' 6*. 6- 62 7 , *// 62 ' *, >%X' . ' 86. ' 60+62, 65*1 ; . ' -6,) *-' ,) 62' 1,) *-8 . *' 1-' ,) *') - . , 62. ' , 1' 601=, ' 6' , , /*' 8) >)' 86. ' 21, ' F*>*. ' 1 ' *2. +*' 620' 8) >)' D1-*' 8 , 2*. . ' , 1' ,) * -' /1+*' 620' 81-.) =' 1 ' ,) * -' ? 6. , *-' 6' 26 ? *' 2, - 2. >6// ' 0*^ 5-60 25 ' . ; >) ' 6. ' ,) *' 8 , , ' 2, /1>) *2*. ' 21, 1- 1 ; . ' 2' ,) *' 62> *2, ' 81-/0' 1-' ,) * -' =-1=*2. , ' , 1' D*. , 18' 2 >9^ 26 ? *. ' ? 5), ' *6. / ') 6+*' 0 .>1+*-*0' M) /1. , % N 1 &% ' ' ST' U1. ? % ' T' ? ? 12 I' < 6->*// ' LL T' -1>1=% ; ' I' ' QX ' 2+1 ; /0' >*-, 6 2/ ') 6+*' -*^ , 6-0*0' ,) *' =-15-*. . ' 1 ' ,) *' 2*8' -*/ 5 12T' 620' 6. ' 8*' . **' *+*2' 2' ? 10*-2' , ? *. ' ,) 6, ' , ' ,) *' , *20*2> ' 1 ' - +6/' .*>, . ' , 1' D-620' *6>) ' 1,) *-' 8 ,) ' ' *= ^ ,) *, . ' , ' . ' 26, ; -6/ , 1' . ; == 1. *' ,) 6, ' ,) *' 26 ? *') - . ^ , 62. ' -*. ; /, *0' -6,) *-' -1 ? ' =) /1. 1=) >6/ 20 *-*2>*' ,) 62' -1 ? ' ,) *1/15 >6/') 6, -*0% ( )*' 6, 2 [*0' 1-? ' 1 ' ,) *' 81-0 ' 4-**9' 2' 1-? ' 6, 2' 2' , *-? 26, 12' ' .' 21, ' 2070' 6' >12>/ ; . +*' =-11 ' , / 6, ' , ' *? 626, *0' -1 ? ' ,) *' 1? 62. ' D*>6 ; . *' . ; >)' , *-? 26, 12. ') 60' 6/^ -*60 ' D**2' 6? / 6- [*0' ,) -1 ; 5) 1 ; ' ,) *' 6. , ' D ' ,) *' 1? 62' 01? 2 12T' D ; ' , ' . ' =-*> . */ /,) >' 9 20' 1 '26 ? *' 8) >)' 81; /0') 6+*' D**2' D*. , 18*0' DA ' ,) *') 6 ; 5), ' 620' 0 . 06 2 ; /' . = - , ' 1 ' + >, 1- 1 ; . ' 1? *' 8) >)' . ' . 1' 1 , *2' ? 6-9*0' 2' *6-/ ')- . , 62') . , 1- ' MB1) 2' D-+ ' N T' >, . ' LL ' K T' LL+ ' RT' L+ ' X% ( ) 6, ' ,) *' 0 . > ^ =/*. ' .) 1; /0') 6+*' D**2' >6//*0' -1 ? ' ` )- . , ; . ' 6' 81-0' ? =/ 25' , ) *' ' 620' 21, ' -1 ? ' `B*. ; . ' ,) *' ' 1 ' 1 ; -' D/*. . *0' 1-0 ' /*60. ' ; . ' , 1' 2 *-' ,) 6, ' ,) *' 1-? *-' 81-0' 86. ' ? 1. , ' -*_ ; *2, / ' 12' ,) * -' / = . ' ` 8 ) >)' ) 6-? 12 [*. ' 8 , ) ', ) *' ? 1. , ' ? =1-, 62, ' 6>, ' , 6, ' 2', ) *' *= . , /*. ' ) 1' . ' ; . ; 6// ' >6//*0' 21, ' `B*. ; . ') ; ' ` )- . , I' M 6>, 62, % ' ! I' + ' X% 2' /6, *-' , ? *. ' 8 ) *2' , ) *' *6, ; -*. ' 1 ' , ) *' `*L , 6D / . ' . ; =*-. , , 1' 8*-*' D*, , *-' 92182 ' D*^ >6 ; . *' 1 ' , ' *+*-C8 0*2 25' =-15-*. . ' M (0> , % & *7 + ' X' ,) . ' 20 *-*2, . ?' 86. ' . ; =*-. *0*0' D ' 6') 77-*0' 656 2. , ' " ' '6. ' 2, *2. *' 6. ' ,) *')- . , 62' /1+*' 1-' , ' 620' 1-' ,) . ' -*6. 12' ,) *' *? =*-1-' B ; / 62' `>1 ; 2, *262>*0' 620' =*-) 6=. ' *2A1 2*0 I,) *' ; . *' 1 ' ,) *' /*. ') 121-6D/*' 6=^ =*//6, 12' 1 ' 46/ /. *62. ' M4 DD12' + ' N K' *0% < / ? 62T' 4-*5% 6[6-*2*' , ' ' Q X% *, ' 6. ' (*-, ; // 62 ' 2' 62' 2, *-*., 25' =6. . 65*' =1 2, . ' 1 ; , ' ,) *' . ' 1' 0*, *. , C' 3*0 86. ') 6-? / *. . ' 2' *+*- ' . *2. *' 1-' , ' ? *-*/ ' >6// *0' ,) *27' D ' ,) *' 1 >*' 1 ',) * -' ? 6. , *- ' 620',) 6, ' 1 >*' ? *-*^ / ' ? =/ *0' 12*' . *, ' 6=6-, ' D ' . 1/ *? 2' ; 2>, 12' >&% f NX% ' , ' 6==*6-. ' ,) 6, ' D ' 6' 80*/EI7 =-*+6/*2, ' *--1-') - . , 62. ' 8*-*' 5*2*-6// ' >6//*0' + 'Wd=WZ-2 1M' ; 1, 12% 7 (, ' ST' /6 ; O% K X' 620' ,) * -' 1 ; 20*-' " ' M_% O% ' 6' ? . , 69*' 8) >)' . ' +*- *6. / ' 6>>1 ; 2, *0' 1-' M 6>, 62, % D ! ' ' ! + ' X' 620' 12*' 8) >)' ,) *')- . , 62. ' 8*-*' ,) *7/*. . ' 2>/ 2*0' , 1' -*^ 5-*, ' D*>6 ; . *' , ' ? =/ *0' ,) * -' , -; *' 620' 0*6>) 6-6>, *-' M /*? % /*L % ' + ' Q T' (*-, % =1 ' >* NX% ** ( ) *' *L=/626, 12' 1 ',) *' 26 ? *')- . , 62 ' 6. ' -* *-- 25', 1',) *' ' ; 2>, 12' -1 ? ',) *' : 1/ ' 2* ' 6/^ , ' D*8 .) ' *2+ -12 ? *2, ' 620') 60' *2-1 // *0' 11/18 *-. ' 8) 1' >12, 2 ; *0' ? ' 2' *+*- ' -*. =*>, ' 620' 8) 1' 0 ^ *-*0' 8 0*/ ' -1 ? ',) *' B*8 .) ' =-1. */ , *. % ' , ' *L=-*. . ^ *0',) *' ? *? 1-6D/*' 6>,) 6, ' 6' >1 ? ? ; 2 , ' >12. . , 25' =- ? 6- / ' 1 ' B*8 . ' 620' 0 -*>, *0' *L>/ ; . +*/E7D ',) *? ' >1 ; /0' 21, ' D*' 0*21, *0' D ' ,) 6, ' 26 ? *' 1-' D ' 62 ' 26 ? *' 6 ? 125',) *? % (1',) *' 0 . > =/*. ' . ' . 52 *0',) 6, ' ,) * ' 8 *-*' 8 , 2*. . *. ' 1-' 6' 9 25 ' 620' 6' 9 25' 8) 1 ? ' 6// 26^ , 12. ' 81; /0' D1' D-1 ; 5), ' 2' 0 ; 1', ? *' , 1' 6>921875*' M < 6 ; - >*' 6 ' # ! ' = % RX% *' ' ; 00*; . ' % * ' ' ' ' ' ' " ' MB*2 % T' 6/. 1') . ' ! $ ' ' KQ ' . _ %XT' & *, . , *2 ') ' - ' 2' >, . ' L T' U*//*- ' ; ! ! ' [' + %) - . , *2 ' *, >% J' M , , 1 . % +%X%
(1' D*' 0*21 ? 26, *0' " ' 86. ' 2' ,) *' *. , ? 6, 12' 1 ' ,) *' >12 *. . 1-. ' 620' ? 6-, -. ' ,) * -' / 5) >. , ') 121-% ( ) . ' . ' //; . , -6, *0' 2' ,) *' 26 --6, + *' 8) >)' ; . *D ; . ') 6. ' >1 = *0' -1 ? ' 62' 62> *2, ' -*>1-0 ' 1 ' 12*' 62>, ; . ' 1 ' *2^ 26 ' 8) 1' *20 ; -*0' 6/ / ' ,) *' 2) ; ? 62' , 1-, ; -*. ' 8) >)' 6-, ' >1 ; /0' 2 / >, % : . ' , 1-? *2, 1-. ') 1 = *0' D ' ,) *' >12, 2 ; ^ 62>*' 620' . *+*- , ' 1 ') . ' =6 2. ' , 1' *L, 1-, ' -1 ? ') ?' . 1 ? *' 6>9218/*05 ? *2, ' 8) >)' ? 5), ' ?=/ >6, *') ?' T D ; . ') 1' 8 ,) . , 110',) *? ' C8 ,) ' ; 2 / 2>) 25' 1-, , ; 0*' 2*,) *-' 0 . C

>/1. 25',1',D*?7) .'26?*'21-') .'26, +*'/620'21-') .' 120, 12' 2' / *'38)*,)*-I -**?62' 1-' ./6+*% (1'6// ,)*-' 2,*--156,1- *.')*'12/ '-*=/*0' + ;' :' 6 -? 25',)6,') .'26?*') .'>1;2,- '620') .'9 20-*0' 6// 8*-*' 2>/;0*0' 2',) .% ',)*' .6?*' ?=1-,'86.' ,)*' 0*=1-,?*2,' 1',)*' ?6-, -' ;>62'6.'-*/6,*0'D ')- .1.,1?% (1'*+*- '_;*.,12')*' 7*=/>0' ''6?'6')- ., 62%J' '8)6,'>1;2,- '6-*' 1;'HJ' ''6?'6')- ., 62%J' &)6,' .' 1;-'1>>;=6, 12HJ' /6?'6')- ., 62%J' &)1' 6-*' 1;-' =-A*2,.-I' '6?'6')- ., 62%J' 25)6?',!'6 'D9% ')%

)- ., 62' -.,'D.)1=' 1' -;.. 6'86.'D1?'6,' -* *2806/0*' 2' 1?*-62 6' 2',)*' /6,,*-' =6-,'1',)* K,)' >*2,;- % :*'D*>6?*' 6' ?129' 1',)*' .,*-> 62' 1-0*-' 2'8)>)')*' 6>_; -*0' 5-*6,' *?2*2>*' 1-').' = *, '620'/*6-2 25% 2' K ')*' 8*2,'6.' ? .. 126- ',1' -;.. 6'8)>)' >1;2,- ')60'D* 1-*' -*. .,*0' 6// 6,^ ,*?=,.'6,')- ., 62 [6, 12% :*'=-1+*0' .;>>*.. ;/ 2')S';20*-,69 25'620'86.'?60*'D.)1=' 1' -;.. 6' 2' K % 2' 1-0*-' ,1'5 +*'6'=*-?62*2,'=-1,*>, 12',1',)*');->)'')*' 1;20*0' 2' K ',)*' 1-0*-' 1',)*' 2 5),.' 1')- .,% :*' 0*0' 2' K %' >620>-' "'# M(1--*XX'+' NT' <`*6-' '&$'=% N %

)- ., 62, 'M X' 2',)*' * ' .',)*' -*(' / 5 0' 1')- ., 62.' 2>/;0 25' 01>,- 2*.' ?1-6/.'620' 2., ;, 12.% 3')- ., 62, ',)*' >- =,;-*.' 1',)*' /0' 620' *8' (*.,6?*2,.'6-*' ,)*' .1/*' 1;206, 12' 620' .1;->*'6.'>12,6 2 25' 6// ,) 25.' 2*>*..6- ',1' .6/+6^ , 12' .1',)6,'8)6,*+*-' .'21,'-*60',)*-* 2'21-' ?6' D*' =-1+*0',)*-*D ' .'21,',1'D*' -*_;-*0'1'62' ?62' ,)6,' .)1;/0'D*' D*/ *+*0'6.'62'6-,>/*' 1',)*' 6-,)*' 1-'D*' ,)1;5),' -*_;. ,*' 1-' 2*>*..6- ',1' .6/+6, 12J' I !'+'I '"' "'"' '6 (8f MKX' 2',)*' * 9 '.*2.*' ,'0*21,*.',)*')- ., 62' 6 ,)'620'/ *'1',)*' 2M7+0;6/' 2' 8)>)' .'?62*.*.,*0',)*'1',)*' -.,*'0>,126- ' ()*'=-11'1',)*'0<21'1-5 2'620'6;,)1-, '1')- .^ , 62, ' .',)*'=-1+ 2>*'1'&% '1-',)*'6 ' 1')- ., 62, % ** / 'g > ! ()*'.,6,*?*2,'1',)*'=-6>, >6/'=- 2> =/*.'1')- ., 62^ , 'D*/125.',1'6 " '1-' M_%+%X% ()*' 2., ,;^ , 12.' 1')- ., 62, ' 6-*',-*6,*0' ;20*-' ,)*')*60.' '$ ' 8 A ') $//' #' ' < (()*655-*.. +*'?1+*?*2,.'1')- ., 62, ' 2')*6,)*2'>1;2,- *.'6-*',-*6,*0' ;20*-' '!',' =-*.*2,',*-- ,1-6/*L,*2,';20*-' ' ! ()*' ' ' ' ' .',)*') .,1-'1',)*'-*^ >*=, 12'1',)*',*6>) 25.'1-0 262>*.'620' 2.,;., 12.' 1')- .,' 6?125' ?*2'620' *?D-6>*.' 8)6,' .'?1-*' >1?2/2/;*2>*'1+*-',)*'?6..'1',)*' =*1= %' -*..*2, ?*2,.'1',)*'=-1>/6?6,1)'1'6';-*-' -*/5 12'8*-*'8 0*/'0..*?26,*0% ?125',)*'B*8.' ,)*'<*.. 62>')1=*.'8)>)')60'D**2'6869*2*0'" ',)*' =-1=)*,.')60'56 2*0'2*8'.,-*25,)'-1?',)1'=1/,>6/ 1==-*.. 12'220*-' 8)>)',)*'26, 12' .1'/125'.; *-*0%)- .,' >12 2*0').'=-*6>)25',1',)*'B*8.'620'8>' -*60'2',)*'41.=*/.',)6,'/6-5*'>-1+-0.'1',)*'=*1=/>' 8*-*'6/86 .'*65*-',1')*6-')?',)1;5)',)*?1.,'2/;^ *2, 6/ .*>,.'1',)1.*' ,?*.',)*')6- .**.'620' 600;' >**.'1==1.*0')?% ,*-',)*'6.>*2. 12'1')- .,',)*' 0 .> =/*.'8*-*'=-*=6-*0'D',)*'1;,=1;-25'1',)*':1/' 4)1.,'12',)*'06'1' *2,*>1.,',1'>6-- '12',)/870..*?' 26, 12'1')- ., 62, % ()*' -.,'>125-*56, 12'86.'*.^ ,6D/.)*0'6,'B*-;.6/*?',)*'.*>120'6,' 2, 1>)% 2'B;^ 0*6'620'*.=*> 6// '2'B*-;.6/*?',)*'6=1."/*.'620'1,)*-)- ., 62.' 8*-*' >-;*// ' =*-.*>;,*0'620' ,*=)*2'86.' .,12*0'620'D*>6?*',)*' -.,' ?6-, -% ;,' 12*'1',)*' /*60 25' 2., 56,1-.'1',)*'=*-.*>;, 12' 6;/'1'(6-.;.' 86.'.112' >12+*-,*0' 2'6' ?-6>;/1;.'?622*-'620'*.^ ,6D/.)*0'2*8' >);->)*.'21,'12/'6?125',)*'B*8.'2' 6'5-*6,'?62'=-1+2>*.'1',)*' 1?62'*?=-*'D;,'6/.1' 6?125',)*'=6562.% ,' 2, 1>)',)*' 1//18*-.'1'B>I' $R'8)1'0;-25')./ *, ?*')60')60'21'0 ., 25; .) 25' 26?*-*>* +*0',)*'26?*' "!1' *>' f 6;/86-2*0',)*'>125-*56, 12' 2' 1-2,)'21,',1'6..;?*' =6-, '26?*.'6.'=6-, *.'1' =1//1.'1' 6;/'1' *=)6.' 1-'1')- .,' D;',)*',*-?' .'6==/*0'21,',1'0 ., 25; .)' % ')- ., 62.'D;',1'0 ., 25; .)')- ., 627' -1?'=6562.'620'B*8.% ',)*' B*8.',)*')- .,*2.' 8*-*' 1-' /125', ?*' >6//*0' 46//6.62.'1-' 6[6-*2*.% ()*')- ., 62.'1'B*8.)' *L,-6>, 12' .*=6-6,*0' 12/' D'0*5-**.' -1?'1;,86-0'>122*>, 12'8,)',)*' . 26^ 515;*.' 620',)*' ;206?*2,6/ */*?*2,.'1'6';)>);->)' s>12.,;, 12'8*-*' 21,'0*+*/1=*0'D* 1-*',)*'.*>120')6/' 1',)*' -.,'>*2,;-A% ()*'0*,6/.'1',)' .'0*+*/1=?*2,')6+*'D**2'1'/6,*',)*' .;DA*>,'1'?1.,'?2;,*'620'25*^ 2 1;.'2+*., 56, 12.'D;',)*'06-92*..' 2'8)>)',)*' .;DA*>,'12'6>>1;2,'1',)*'?*65-*2*..'1',)*'>12,*?^ =1-62*1;.'/,*-6,;-*')6.'D*0'2+1/+*0'.' 6-' -1?' D* 25' -*?1+*0% 1?=' / ' '$ '! ()*6=1.,/*.'-*?6 2*0',)*'>*2,-*' 1-',)*')- ., 62' >);->)*.'620'0S+1,>0',)*?.*/+*.' 2' 8,)' .1C>6//*0'*+625*/.,.',1',)*'.=-*60 25'1',)*'41.=*/' 8)/*';20*-'),)*?'=-*.D.,*-.'M1-'D.)1=.X'8*-*',)' ,*6>)*-.'620'.;=*-2,*20*2,.'1'=6-,>;/6-'>125-*5617 , 12.% *6>12.'620'.1?*,?*.'6/.1'0*6>12*..*.'8*-*' >)6-5*0'8,)',)*'>6-*'1',)*'=11-'620'1,)*-'.1>6/862,.' 1',)*'>1?7;2,% ()*'.=-*60'1')- ., 62, '56+*'- .*,1'-*=*6,*0'=*-.*>;, 12.'D',)*' 1?62'*?=*-1-.'.1?*' 1'8)>)'8*-*'/1>6/'8)/*'1,)*-.'8*-*'?1-*'1-'/*..' 5*2*-6/% $.;6// ',*2'=*-.*>;, 12.'6-*'>0;2,*0'+[% -.,';20*-'*-1'S CSQ'D'8)1.*'1-0*-'.*+6/')- .^ , 62.'1'1?*'8*-*'=;,'1'0*6,)' *-1'6.'.'-*=1-,*0' >)6-5 25',)*?'8,)'>)6+25'>6;.*0',)*'5-*6,'>12/6^ 5-6, 12% 2',)*'.*>120'=*-.*>;, 12'MRNC X' 1?, 62' ?.2,*-=-*, 25',)*'-1 6/1 >*'1')- .,'1-0*-*0',)*' .;-f +25'-*/6, 12.'1')- .,'8)1?')*'/119*0';=12'6.' -+6/.',1'D*'=G,',1'0*6,)% ()*',)-0'=*-.*>;, 12'86.' ;20*-'(-6A62'2' ,)2 6'2' S% <62'8*-*'=;2^ .)*0'6.'6=1.,6,*.'-1?',)*'.,6,*'-*/5 12'6/,)1;5)'6' -*=1-,' -1?',)*'1;25*-' /2'D1-*'6'5110',*.,?12' ,1',)*-')>)6-6>,*-% ()*'1;-,)'=*-.>*2, 12'2' Q' ;20*-' :60-62'0 0'21,'=-1>**0'-1?',)*'51+*-2?*2, ' D;',)*')- ., 62.'5-*6,/',.; *-*0'2'?62'=/6>*.' *.=*> 6// '2' .6'<21-' -1?'-1,.'1',)*'?1D% ()*' ,)'=*-.*>;, 12'; 20*-'<6->;.' ;-*/;.' 2' 6 -* >,*0'*.=*> 6// ',)*'>125-*56, 12.'1' 12.'620' ^ *22*'2'46;/'620,)>);->)*.'1' .6< 21-% ?125' 2'1D'*.=*> 6// ' 2' 6==601>6'D*>6;.*' *6-,)_;69*.' 620'1,)*-'>6/6?,*.'1',)6,'9 20'8*-*'/6 0',1',)*-' >)6-5*% *-' .*+*-*' 620'*L,*2.+*' 86.',)*'2 2,)' =*-.*>;, 12';20*-',)*'*?=*-1-' *> ;.'MK RCK X' 8)1' 86.'6/6-?*0'6,' ,)*' -6=0' 2>-*6.*' 1',)*')- ., 62' =1=;/6, 12% 2'>12.*_;*2>*' 1',)*.'+*+-,' 1',)*' =*-.*>;, 12' ?62')- ., 62.'6=1.,6, [*0'620'?62' >125-*56, 12.'8*-*' 0*.,-1 *0% ()*' 2 2,)' =*-.*>;^ , 12';20*-' 6/*-62' 2' K '620'K Q' 86.'6/.1'+*-' 6/86 .'*65*-',1')*6-')?',)1;5)',)*?1.,'2/;^ *2, 6/ .*>,.'1',)1.*',?*.',)*')6- .**.'620' 600;' >**.'1==1.*0')?% ,*-',)*'6.>*2. 12'1')- .,',)*' 0 .> =/*.'8*-*'=-*=6-*0'D',)*'1;,=1;-25'1',)*':1/' 4)1.,'12',)*'06'1' *2,*>1.,',1'>6-- '12',)/870..*?' 26, 12'1')- ., 62, % ()*' -.,'>125-*56, 12'86.'*.^ ,6D/.)*0'6,'B*-;.6/*?',)*'.*>120'6,' 2, 1>)% 2'B;^ 0*6'620'*.=*> 6// '2'B*-;.6/*?',)*'6=1."/*.'620'1,)*-)- ., 62.'8*-*' >-;*// ' =*-.*>;,*0'620' ,*=)*2'86.' .,12*0'620'D*>6?*',)*' -.,' ?6-, -% ;,' 12*'1',)*' /*60 25' 2., 56,1-.'1',)*'=*-.*>;, 12' 6;/'1'(6-.;.' 86.'.112' >12+*-,*0' 2'6' ?-6>;/1;.'?622*-'620'*.^ ,6D/.)*0'2*8' >);->)*.'21,'12/'6?125',)*'B*8.'2' 6'5-*6,'?62'=-1+2>*.'1',)*' 1?62'*?=-*'D;,'6/.1' 6?125',)*'=6562.% ,' 2, 1>)',)*' 1//18*-.'1'B>I' $R'8)1'0;-25')./ *, ?*')60')60'21'0 ., 25; .) 25' 26?*-*>* +*0',)*'26?*' "!1' *>' f 6;/86-2*0',)*'>125-*56, 12' 2' 1-2,)'21,',1'6..;?*' =6-, '26?*.'6.'=6-, *.'1' =1//1.'1' 6;/'1' *=)6.' 1-'1')- .,' D;',)*',*-?' .'6==/*0'21,',1'0 ., 25; .)' % ')- ., 62.'D;',1'0 ., 25; .)')- ., 627' -1?'=6562.'620'B*8.% ',)*' B*8.',)*')- .,*2.' 8*-*' 1-' /125', ?*' >6//*0' 46//6.62.'1-' 6[6-*2*.% ()*')- ., 62.'1'B*8.)' *L,-6>, 12' .*=6-6,*0' 12/' D'0*5-**.' -1?'1;,86-0'>122*>, 12'8,)',)*' . 26^ 515;*.' 620',)*' ;206?*2,6/ */*?*2,.'1'6';)>);->)' s>12.,;, 12'8*-*' 21,'0*+*/1=*0'D* 1-*',)*'.*>120')6/' 1',)*' -.,'>*2,;-A% ()*'0*,6/.'1',)' .'0*+*/1=?*2,')6+*'D**2'1'/6,*',)*' .;DA*>,'1'?1.,'?2;,*'620'25*^ 2 1;.'2+*., 56, 12.'D;',)*'06-92*..' 2'8)>)',)*' .;DA*>,'12'6>>1;2,'1',)*'?*65-*2*..'1',)*'>12,*?^ =1-62*1;.'/,*-6,;-*')6.'D*0'2+1/+*0'.' 6-' -1?' D* 25' -*?1+*0% 1?=' / ' '$ '! ()*6=1.,/*.'-*?6 2*0',)*'>*2,-*' 1-',)*')- ., 62' >);->)*.'620'0S+1,>0',)*?.*/+*.' 2' 8,)' .1C>6//*0'*+625*/.,.',1',)*'.=-*60 25'1',)*'41.=*/' 8)/*';20*-'),)*?'=-*.D.,*-.'M1-'D.)1=.X'8*-*',)' ,*6>)*-.'620'.;=*-2,*20*2,.'1'=6-,>;/6-'>125-*5617 , 12.% *6>12.'620'.1?*,?*.'6/.1'0*6>12*..*.'8*-*' >)6-5*0'8,)',)*'>6-*'1',)*'=11-'620'1,)*-'.1>6/862,.' 1',)*'>1?7;2,% ()*'.=-*60'1')- ., 62, '56+*'- .*,1'-*=*6,*0'=*-.*>;, 12.'D',)*' 1?62'*?=*-1-.'.1?*' 1'8)>)'8*-*'/1>6/'8)/*'1,)*-.'8*-*'?1-*'1-'/*..' 5*2*-6/% $.;6// ',*2'=*-.*>;, 12.'6-*'>0;2,*0'+[% -.,';20*-'*-1'S CSQ'D'8)1.*'1-0*-'.*+6/')- .,' .;-f +25'-*/6, 12.'1')- .,'8)1?')*'/119*0';=12'6.' -+6/.',1'D*'=G,',1'0*6,)% ()*',)-0'=*-.*>;, 12'86.' ;20*-'(-6A62'2' ,)2 6'2' S% <62'8*-*'=;2^ .)*0'6.'6=1.,6,*.'-1?',)*'.,6,*'-*/5 12'6/,)1;5)'6' -*=1-,' -1?',)*'1;25*-' /2'D1-*'6'5110',*.,?12' ,1',)*-')>)6-6>,*-% ()*'1;-,)'=*-.>*2, 12'2' Q' ;20*-' :60-62'0 0'21,'=-1>**0'-1?',)*'51+*-2?*2, ' D;',)*')- ., 62.'5-*6,/',.; *-*0'2'?62'=/6>*.' *

-**')- ., 62.' ,1' DK' ?60*' ./6+*.% >>1-0 25' ,1' 62' *0 >,' 1 ' N a ' 6//)- . , 62.' 8*-*' ,1' D*' >1?=*//*0' D ' ,1-,;-*.',1' .6>- >*' ,1' ,)*' =6562' 510.% & ,)',)*' 6D^ 0 >6, 12' 1 ' 1>/*, 62' 2' N ',)*' *-6' 1 '=*-.*>;, 12.' *20*0' M.** *29*201- ' ' ' / " ' # % A' 1' * =.% 'Q+1X% ()1.*')- ., 62.' 8)1' 2' .1?*' 86 ' 1-' 1,)*-' .;>>;?D*0' 2' ,)*' =*-.*>;, 12 ' 8*-*' >6//*0' % ' M_% +%X ' 1 ' 8)1?',)*-*' 8*-*' .*+*-6/ >/6..*.' 6.' 1' $ * ' -" * ' 620' - , 2 '3,)1.*' 8)1'-*?6 2*0',*60 6..' 8*-*' >6//*0' D !)- ., 62 , ' 86.')18^ *+*-' 21,' =*-.*>;,*0' D ' 6// ,)*' 1?62' *?=*-1-.' D;,' 86.',1/*-6,*0' DA7.1?*' 620' *+*2' 6+1-*0' D ' 6' *8 ' *% 5% 6-6>6//6 ' /*L620*-' *+*-;.' 620') / ==;.% 2' N 7' 12.,62, 2*' *.,6D/ .)*0',1/*-6, 12' 1 ')- ., 62 , ' 2' ,)*' =-1+ 2>*.' 1 ' ,6 2 ' 46;/ ' 620' =6 2% 12^ +*-. 12',1')- ., 62 , ' 86.' *L=-*../ '=*-? ,,*0' D ' 62^ 1,)*-'*0 >,'1 ' 12.,62, 2*' 2' N N ' 620' -*.,1-6, 12' 1 ',)*%)- ., 62' >);->)*.' 1-0*-*0%I' +*2' ' 20*?2 >6, 12 ' -1?',)*' =;D/ >',-*6.;-' 86.' =-1? .*0% 12.,62, 2*' D '6' 0*>-**' 1 'NK ' *.,6D/ .)*0' ;// -*/ 5 1;.'/ D*-, ' 1-' ,)*')- ., 62' -*/ 5 12' 2',)*' 8)1/*' 1?62' *?= -*' 620' -*.,1-*0',1' / D*-, ' ,)1.*' 8)1' ;20*-' 1>/*, 62')60' D**2' *2./6+*0% (186-7',)*' *20' 1 ') .' -* 52')*' *+*2' ..;*0' *0 >,.' 656 2.',=6562 .?% :*' 86.' D6=, [*0') ?^ .*/ ' .)1-,/ ' D* 1-*') .' 0*6,)% **' !)- ., 62 , ' 0;- 25',)*' -.,' =*- 10' 1 ' ,.') .,1- ' 86.' 21,' 12/ ' *L=1.*0',1' ,)*' =*-.*>;, 12' 1 ',)*' *?^ =*-1-.' D;,' 6/.1',1',)*' '6,,6>9.' 1 ' ?62 ' =6562' .>)1/6-.' 6.' ;> 62 ' */.;.' 1-=) - 2.' : *-1>/*.' 620' 1,)*-.' 8) >)' >6//*0' 1-,)' 6?125',)*')- ., 62.' 6' 2;?D*-' 1 C6=1/15*, >' 8-,*-.% *>' / ! ..*2. 12.' 620' 0 + . 12.' 8*-*' +*- ' 2;?*-1;.' 6?125' ,)*')- ., 62.' -1?',)*' *6-/ *.,'=*- 10' 1 ',)*');->)% ' .,- >,'/ 2*' 1 '0*?6->6, 12' *.,6D/ .)*0' ,.*/ 'D*,8**2' ,)*' >1?? 12' 6 ,)'M1-,)101L X' 620',)*' .*>*.. 12.' M)*-^ *. X% .' *6-/ '6.',)*' 6=1.,1/ >' 65*' 8*' 20',)*' 421.^ ,>.' ?12 62.' >1/6 ,*.' *- 2,D 62.' 2',)*' .*>120' >*2,;-' ,)*' 6. / 0 62.' 6-=1>-6, 62.' 6/*2, 2 62.' 6[6-*62.' =),*.' 6,-=6.. 62.' -,*?12 ,*.' <120' ,62 .,.' <62>)*62.' 620' 1,)*-.' 2' ,)*' ,) -0' >*2,;-' ,)*<126->) 62.' 6?1.6,*2. 62.' 1*, 62.' 6/X*// 62.' 1+6, 62.' *,>% <1.,'1',)*.*'>12,-1+*-. *.'>12>*-2*0' ,)*' =*-.12' 1 ')- .,' .1?*' -*/6,*0',1',)*' >-*6, 12' 1 ' ,)*' 81-/0' 620' 1 ',)*' .= - ,.' 1,)*-.',1',)*' 1-0 .' ;=7' =*-' 12/ '6' *8')60' -*56-0',1',)*' 0 .> =/ 2*' 1 ',)*');->)' 620' .1?*' 1,)*-' =1 2,.% ()*' '>12., ,;, 12' 5-60;6// '0*+*/1=*0' ,.*/ ' ,)*' >125-*56, 12.' 2' + //65*.' 620' .?6//*-' =/6>*.' .**9^ 25' 6' >122*>, 12' 8 ,)',)*%D .)1=.' 1 ',)*' ,182% '6' -*5;/6-' % ' >12., ,;, 12 '12/ ',)*' -.,' D*5 2^ 2 25' .' 1;20' 0;-25',) .' =*- 10' D;,',)*' D .)1=.' 1 ' 1?*' /*L620-6' 620' 2, 1>)' 8*-*' 6/-*60 '-*56-0*0' 6.',)*')*60.' 1 '+*- '*L,*2. +*' *>>/*. 6., >6/ 0 .-,>,.%)- ., 62' ? 2 .,*-.' 6..;?*0' 6' 0 .,25; .) 25' 26?*' I 1' 620' 6' =*>;/6-' 0-*.' 1-' 0 + 2*' .*-+ >*' 620' ,)*' 8*-*' 0 + 0*0' 2,1' ?62A7>/6..*.' M.**' 25)6?' , '6 I .' /62>9' ? "!' ' "("=+ +' + ' ? " 1' : 621+%' Q NX% (186-0.' ,)*' *20' 1 ,) .' =*- 10' -*.1-,' D*562',1' D*')60',1' 20' 10.' 620' >1;2> /.',1' .*,,/*' *>>/*. 6., >6/ 0 .=;,*.% **' $! ()*' 1-?' 1 '=;D/ >' 81-.) =' 86.' 5-60;6/^ /' L*0' 2' ?,6, 12' 1 ',)6,' 1 ',)*' B*8 .)' . 26515;*' 620' >12. .,*0' 1 '=-6 *-' . 25 25' -*60 25' 620' 2,*-^ =-*, 25',)*' >- =,;-*.% 6=, .?' 86.'=*- 1-?*0' 2',)*' 26?*' 1 'B*.;.' ,)*' 656=?'M_% +%X 620',)*' 1-0 .' ;=^ =*-' M_% %X 8*-*' >*/*D-6,*0' 6 ,*-' 0 + 2*' .*-+ >*% ()*' .1;->*.' 1 '01>,- 2*' 8*-*',)F*= .,/*.' 1 ',)*' 6=1.,/*.' 620' ,)*' -*>1-0.' 1 ',)*' / *' 1 'B*.;.' M,)*' 41.=*/.X' 1?*' D ',)*' 51%.=*/.' 8)>)'6-*' 218' -*56-0*0' 6.' 6=1>- =)6/' 8*-*' 2' ;.*' 2' .1?*' 1 ',)*' >);->)*.' 6027' ?=1-^ ,62>*' 86.' 6/.1' 6,,- D;,*0',1' *>>/*. 6., >6/ ,-60 , 12%);->)' 0 .> =/ 2*' 86.' +*- ' .,- >,' 620' 6// 5-6+*' 1 ^ *2>*.' 8*-*' =;2 .)*0' 8 ,)' *L>/;. 12' M*L>1?? ;2 >6^ , 12X% .>*, > .?' 620' ?126., > .?' 1;20',)*' -' -.,' 60)*-*2,.' 2' ,) .' =*- 10' 2' 2,)12 ' 6;/ 1 ' ()*D*.' 620' 1,)*-.% %' @J? ' " ' ' "' ' ' "Y ' ' " 9 ' M % %' NN ',1' Q X% ' B)*/6.,'6,,*?=,',1'.;==-*.')- ., 62 , ' D ' 1->*' 1-' 6,'/*6..',1'-*=-*..' ,.' ;-,)*-' 60+62>*?*2,' 86.' ?60*' D 'B;/ 62',)*' =1.,6,*M_% +%X ');,' ,' 6 /*0';,,*-/ % : .' .;>>*..1-.' -*?6 2*0')- .^ , 62.' 620')- ., 62 , ' D*>6?*' ,)*' -*/ 5 12' 1 ' >1;L,' 620' .,6,*% ()*');->)' 620',)*' .,6,*' D*562',1' *L*-,' 6' =18*- ;/ 620' -*> =-1>6/ 2 /;*2>*' ;=12' *6>)' 1),)*-% **' ' $,' ' ! ()*' ?*,-1=1/ ,62' >12., ,;^ , 12' 86.' 1-5-) [*0',)-1;5)1;',)*' 8)1/*');->)' 620' 2' >12- *>, 12' 8 ,)' ,',)*' =6,- 6->)6/ >12., ,;, 12' -*=7' -*.*2,*0' D ',)*' 1;-' =6,- 6->).' 1 ' 1?*' 12.,62, 21^ =/*' /*L620- 6' 620' 2, 1>)% ()*' D .)1=.' 1 ' 1?*' D*562',1' >/6 ?' A;- .0 >, 12' 1+=',)*' 8)1/*');->)% 1;2>/.' 620' . 210.' D*>6?*' ?1-*' -*_;*2,% 2' 600 ^ , 12',1',)*' =-1+ 2> 6/ >1;2>/.' 1 ',)*' -.,' =*- 10' 1*>;^ ?*2 >6/ >1;2>/.' M_% +%X' M1 ' 8)>)' 12*')60' D**2')*/0' 0;- 25',)*' -.,' =*- 10' + [%),6,' 1 ' >*' ' % NK X' ,1' 8)>)' 6//' D .)1=.' 1',)*')- .,62');->)' 8*-*' 2^ + ,*0' 8*-*')*/0' 6,' 12.,62, 21=/*' MNQ NX' 6,' =)*^ .;.' M N ' RX' 6,')6/>*012' MC S X% **' $! ()*' 8*-*' 1>>6. 12*0' D '01>,- 26/ >12,-1+*-. *.',)*' 2;?D*-' 1 '8)>)' 5-*6,/ ' 2>-*6.*0' 0;- 25',) .' =*- 10% ()*' 01>,- 2*' 1 ',)*');->)' 12',)*' =*-.12' 1 ')- .,' 86.' 6,,6>9*0' D ',)*' - 62.' ;21? 62.' *, 62.' 21C ?1*62.' 01=, 62.' *.,1- 62.' ;,E >) 62.' <121C =) .,*.' B6>1D ,*.' <121,)*/,*.' 620' 1,)*-'.*>,.' TB,)6,' 1',)*' (- 2 , ' D ',)*' (- ,)*,*.T,)6,' 1 ',)*' 26,;-*' 1 ' 410' D ',)*' */*;>62.' 620',)*' 2,)-1=1?1-=) ,*.% ()*');->)' 6/.1' -*A*>,*0',)*' + *8.' 1 ',)*' 2, 0 91C ?6- 62.' 121. 62.' B1+ 2 62.' 1// -0 62.' 12',)*' -5 2' < 6- T',)1.*' 1 ',)*' ;>) ,*.' 620' - .> // 62C .,.'M?10 , *0' 4'21.,>1C<62>),*62'01>,- 2*.XT),)1.*' 1 ',)*' <*/*, 62.' 620' 126, .,' 12',)*' >12., ,;, 12' 1 ',)*');->)' 86.'-6=0/ '0*+*/1=*0' 6 ,*-*',)*' 1;-,)' >*2,;-T 620' 6.',)*' /18*-' .*>;/6-' >/*-5E' 8*-*' 5*2*-6// ' 521-62,' ,)*' ? .. 126- ' 81-9' 620',)*' >;/^ ,;-*' 1 '/*,,*-.' 8*-*' 6/?1.,'*2, -*/ '/* ,',1',)*' ? 17.% ()*' 521-62>*' 1 '>/*-5 '620' =*1=/*' 6> / ,6,*0',)*' 2^ ,-10;>, 12' 1 '?62 ' 221+6, 12.' 620' >1--;=, 12.' 2',)*' 01>,- 2*' 1 ',)*');->)'.';>)'6.',)*' +*2*-6, 12' 1 '.6 2,.' 620' (*/> % 1?=' 620' ?652 >*2>*' 8*-*' 2,-10;>*0' 2,1',)*' >*/*D-6, 12' 1 '0 + 2*' 81-.) =' 620',)*' 6-,.' D*562',1' D*' ;.*0',1' .*-+*' *>>/*. 6., >6/ *20.% ()*' 6, 2' /625;65*' 86.'-*,6 2*0' 2' 81-.) =',)1;5)',86.' 21'/125*-' ;20*-.,110' D '6//',)*' =*1=/*% ()*' >)625*.' 2',)*' 62> *2,' 0 .> =/ 2*' 1 ',)*');->)' M 1-' 8>)' 2' ?62 '>6.*.' *+*2'=6 ?*2,.' 1 '?12* ' 8*-*' .;D.,.;,*0X' *L*-,*0' 6' ?1.,' 0 .6.,-1;.' 2 /;*2>*' 12' ,)*')- ., 62' / *% 2',)*' /,*-6,;-*' 1 ',) .' =*- 10',)*' 26?*.' 1')- .1.,1?' ;5;., 2*' -/' ()>101-*,' . 01-' 1' */;. ;?' . 01-' 1' : .=6/ .' M *+ //*X' 620' B1)622*.' 6 26.>*2;.7'.,620' 1-,)' ?1.,'>12.=>;1;.% %' @ ' " ' ? ' 'N ' M % %' Q ',1' NX% ' ?125',)*' 4*-?62>',-D*.',)*' -629.' 8*-* 6,,6>)*0' ?1.,' -?/ ',1')- ., 62 , %')6-/*?652*' 2') .' >12_;*.,'6/86 .' .1;5),',1' ?69*')- ., 62 , ',)*' *.,6D/ .)*0' -*/ 5 12' 620') .' 86.-' 656 2.',)*' 6L12.' 620' >/6+12 62.' 8*-*' 86.-' 1-',)*' *L,*2. 12' 1 ' / - .C ?62*2,' ;2 12')6.' 2*+*-' 2.>*' D**2' * *>,*0% ()*' 4-**9');->)' -%.,' *2./6+*0' D ',)*' *?=*-1-.' 1 ' 12^ .,62, 21=/*' 620' 6 ,*-86-0.',-100*2' 0182' D ',)*' (;-9.

D*>6?*'=*,- *0'620' .,6, 126- ' 2',)*' 1?62');->)' ,)*'- 5),.'1'?*,-1=1/,62.'620'D.)1=.'8*-*'?1-*'620' ?1-*'>;-,6/*0'620',)1.*'1',)*'=1=*'*2/6-5*0''*.=*>6/C E 'D',)*'=.*;01C. 01-62' *>-*,6/.' ** ' ! f =6 2' 25/620' 620',)*' 1,)*-' ;-1=*62' >1;2,-*.'5-60;6// '.;--*20*-*0',)*-'*>>/*. 6.,>/2^ 0*=*20*2>*'620',)*' =1=*'D*>6?*'6//C=18*-;/2',)*' *L*-> .*'1'A;-.0>,12'6.'8*//6.'2'01>,-26/0*>.12. .)1=.'620'6DD1,.'D*>6?*',)*'=1..*..1-.'1'/6-5*' =-1=*-,?7)*'=1=*'*2,*-*0',)*'-629.'1'.*>;/6-'=-2>.'1'620'..,-1+*',1'.;DA*>,'*+*2',)*'.*>;/6-'51+*-2?*2,.',1').'2/;*2>*'620'-;/*<1.,'1',)*'/.*-6-'2.,,;C - 12.'1;20*0'D'6)-/*?652*'8*-*'.;.=*20*0'8,)2')6/'6'>*2,;-'6,*-')'620',)*'5*2*-6/1501^ -62>*'1',)*'>/*-5'D*>6?*'.1'5-*6','),',)*'D.)1=.')60',1'1-0*-',)6,' *+*-'>/*-5A6262'?;.,'9218'6,' /*6.,',)*'=1./*.'-**0K' ()*',)*1/15'1',).'=*^ -10'.=19*'/,,/*'1')-.,'?*-,.'?*-.'1'>-/*.',)*'=1=*'*/,,/*'1')-.'?*-.,'1'>-/*.',)*'=1=*'*/,,/*'1'.)

;-1=*' 2' 8) >)',)*' 1?62');->)' .' -*>152 .*0'6.' 6' .,6,*' -*/ 5 12 '620',)*' =1=*' .'-*5;/6,*0'D ' =

()*' 2'C>1;-.*-' ', ?*' 1? *0'6' 2; ?D*-' 1 ' 0 0>-*2,' 0*21? 26, 12. ' 6?125' 8) >)', 81' ?6 2' ,*20*2> *.' 6-*' ,1' D*' 0 ., 25; .)*0' + [' ,)*' ;.)-*62' 620',)*' * 1-?*0');->)*.' ()*' /6,,*-' 8*-*' .;D0 ^ + 0*0' 2,1' ,)*' 4*-?62' * 1-?*0' 8 ..' * 1-?*0' ;,>)' * 1-?*0' -*.D ,*- 62. ' 6=, .,' 125-*56^ , 126/'620' 6-,)*-' ? 21-' >);->)*' ()*' >12, 2;62>*' 1 ' 25/620 '1.' 6-P6.' ,' 0*2, *0' ,.*/'8 ,)',)*' * 1-?6^ , 12 'D*/125.',1',)*' >/6..' 1 ' * 1-?*0' >);->)*.' *,' -*,6 2.' 6/.1' *21;5)' */*?*2,.' -1?',)*', ?*' D* 1-*' ,)7' * 1-?6, 12',1'/*6+*' -11?' 1-',)*' >12, 2;62>*' 1 ' 6' =6-, ' 8) >)' -*A*>,.' 6/,15*.,)*-',)*' -1,*.,62,' >)6-^ 6>,*-' 1 ',)*');->)' -* ;.*.' 6..1> 6, 12' 8 ,)' 1,)*-' -1,*.,62,' 0*21? 26, 12. '620'6>9218/*05*.' 12/ ',)*' >);->)*.' 8) >)' >/6 ?',)*' .1C>6//*0'6=1.,1/ >6/ .;>>*.^ . 12' 1 'D .)1=.' 6.' +6/ 0' -1?',)*');->)' 1 ' 25C1' /620' .=-625',)*' " ' M_' +%X' 8)1' 0 .>6-0*0' *+^ *- ,) 25' ;2C71,*.,62,' 2' ,)*' ?1,)*-');->)' 620' ,11/,' 6,' 12>*' 6' =-1? 2*2,'=/6>*' 6?125',)*' * 1-?*0' 0*21? 26, 12.' 2',)*' -6= 0 ,E' 1 ',)* -' *L,*2. 12' ,)* ')6+*' .;-=6..*0' 7 ' 1,)*-' D10 *.' 1 ' -1,*.,62,')-., 6 .'

2' 6' $-5*' =6-,' 1 ' ;-1=*' ,)*' -1,*.,62,' >);->)*.')6+*' ;2 A-,;26,*/ '6//18*0',1',)*' .*>;/6-' 51+*-2?*2,' 62' ;20;*' 2 /;*2>*' 1+*-' *>>/*. 6.,>6/' 6 6 -. T ' 2^ /;*2>*' 8) >)')6.' 5*2*-6// ' D**2' ;.*0' 1-' ,)*' *2, -*' .;DA;56, 12' 1 ',)*');->)' 2/ ' D ')6-0' .,-;55/*.')6+*' -1?' .,6,*' -*/ 5 12.' .*>;-*0',1/*-6, 12' < 62 '1 ',)*?')60',1' >-1..',)*' ,/62,>' 2' 1-0*-',1'D* 6,'/ D*-, ',1'81-.) =' 410' 6>>1-0 25',1',)*'0 >,6,*.' 1 ' >12.> *2>*' ()*' 0*>/6-6, 12' 1 ' ?*- >62' 20*=*20^ *2>*' 86.',)*' -.,' ,?*' >6-- *0',)-1;5)' 12' 6' /6-5*' .>6/*' 81-9*0' .1' 8*//',)6,' 6//',)*' ;-1=*62' >);->)*.' D*562' ,1' 1*/,)*' 2 /;*2>*' 1',)*' 2*8'=- 2> =/*' 620'5-60;6/^ /',1' /11.*2' 6,'/*6.,',)*' >122*>, 12' D*,8**2');->)' 620' .,6,*' ()*' _;*., 12' 1 '6';2 12' D*,8**2' +6- 1;' -1,*.,62,'D10*.')6.' D**2' -1?',)*' D*5 22 25' 1',)*' * 1-?6, 12' 6' 6+1-,*' 0*6' 1' ?62' 0 ., 25; .)*0' ?*2',)1;5)',')6.' -*_;*2,/ '/*0',1' 62' 2>-*6.*' 1' =6-, *.' 620' 1' >12,-1+*-. *.' *.=*> 6// ' 6.' 5*2*-6// ',)*.*' .>)*?*.' 1' *>>/*. 6.,>6/' ;2 12')6+*' D**2' 6,^ ,*?=,*0' 8 ,)',)*' 6 0' 1',)*' .*>;/6-' 6-?' ()*' ?1.,' ?=1-,62,'1',)*.*' 6,,*?=,.' 86.',)*' *.,6D/ .)?*2,'1',)*' $2 ,*0' +625*/ >6/);->)' M_' +%X' 1' 4*-?62 ' 2' Q ',)-1;5)',)*' 2.,-;?*2,6/ ,'1' -*0*- >9' & // 6?' 1' -;.. 6' 2'?10*-2',?*.',)*'1= 2 12',)6.' 56 2^ *0'5-1;20',)6,',)*/6-5*'2;?D*-'1'*+625*/ >6/'0*21?^ 26, 12.')6.')60'6'D*2* > 6/ -6,)*-',)62'6'0 .6.,-1;.' 2 /;*2>*' 12',)*' 60+62>*?*2,'1')-., 62, '620',)6, 81;/0' D*' D*,,*-' 2.,*60' 1'6 ? 25'6,'*>>/*. 6.,>6/ ;2 1- , ,'1' 1-?' 6' >1-0 6/' 6// 62>*' 1'*+625*/ >6/)-., 62.'1'6//'0*21? 26, 12.' ()./*0',1',)*' 1-?^ 6, 12' 1',)*' .1C>6//*0' ((16 '& (((' M_' +%X' 8) >)' .112' 6..;?*0' 5-620'0 ?*2. 12.' ,')6.')*/0' .1?*' /6-5*' 6..*?D/*.' 8) >)')6+*' D**2' >6//*0',)*' -.,' 1*>;?*2 >6/ >1;2> /.' 1 ' -1,*.,62,')-., 62, ' ()*' 0*+*/1=?*2,' 1',)*1/05 ' 0;- 25',) .' =*- 10')6.' >*2,-*0' ?1.,/ ' 2' 4*-?62 ' **' & 5 ' O ' L #!' ()*' .,-;55/*'6,*-',)*' * 1-?6, 12' D*,8**2' ;,)*-62 .?' 620' 6/+ 2 .?' 86.' .112' 1//18*0' D ',)*' ?1-*' 2=1-,62,' >12,*.,' D*,8**2')-., 62, ' 620' 62' 2 0*/=) /1.1=) 'L*=-*.*2,*0' D ',)*' * .,.' 2' 25^ /620',)*' 2>A7>/1=6A0 .,.' 2' -62>*'620' 6, 126/ .?' 2' 4*-?62 ' ()*' D*/*' ' 2')-., 62, ' 86.' 1-' 6', ?*' ;20*-? 2*0' 2'6'/6-5*'=-1=1-, 12'1',)*' ;-1=*62' =1=^ ;/6, 12' D;',8 ,)',)*' D*5 22 25' 1',)*' 2 2*,**2,)'>*;C ,;-A7 6' =18*- ;/*-*6>, 12' 2' 6+1-' 1')-., 62, ')6.' .*,' 2' ()*' 2 /;*2>*' 1')-., 62, ' '1+*-',)*' =1/, ^ >6/' .1> 6/' 620'/,*-6- '/ *' 1' ?629 20' .' 218' 5-*6,*-' ,)6 ' *+*-' D* 1-*' ;,' 2 0*/=6-, *.')6+*' D**2' 862, 25' 2',)*'2 2*,**2,)'>*2,;- ' ?125',)*?' ?6 ' D*' 26?*0' 1;25' 4*-?62 ',)*' -**' 125-*56, 12.'

620' 4*-?62' 6,)1/>.' ,)*' 1;25' : *5*/ 62.',)*' 1^ > 6/ .,>' <*>)62>.I' ..1> 6, 12.' 2' 8 ,[*-/620' 620' -62>*',)*' <6,*- 6/ .?' 2' 26,;-6/' .>*2>*',)*' 1. ^ ,+ ,.' 1//18*-.' 1' 1?,*',)*' &*.,?2.,*-' *+ *8' 620' ,.' =6-, ' 2' 25/620',)*' <1-?12.' 620' = -^ ,;6/ .,.' 2' ?*- >6' ()*' /*0',1' 6' 2*8' 0*+*/1=?*2,' 1 '=18*- ;/65*2^ >*.' 2' 0* *2>*' 1 ')- ., 62, ' 2' 2*6-, '*+*- '0*^ =6-,?*2,'1'.>*2>*' 620'/ ,*-6,;-*',)*' 81-9.' 1' 1-?*-' >*2,;- *.')6+*' D**2' .;-=6..*0' D ' ?10*-2')- ., 62' 8-,*-.' ()*' +6- 1;.' 0*21? 26012.' + *' 8 ,)' *6>)' 1,)*-' 2' *.,6D/ .) 25' -*/ 5 1;.' =*- 10>6/.' 8) >)' 6/^ -*60 ' 1-?' 12*' 1',)*' 5-620*.,'>)6-6>,*- ., >.' 1 ',)1' >);->)') .,1- ' 1 ',)*' 2 2*,**2,)' >*2,;- ' 6.^ .1> 6, 12.' 1-' -*/ 5 1;.' 620' 1,)*-' >)6- ,6D/*' =;-=1.*.')6+*' -6= 0/ ' ?;/, =/ *0'E ? .. 126, ' .1> *, *.' D/*' ,-6>, '620' D119' .1> *, *.')6+*' 0 .=/6 *0' 6' 8120*- ;/ 620' ;2=6-6//*/*0'6>, + , %

();.',)1' .=-*60'1')- ., 6 I , ' -1?',)*' D*5 22 25')6.' D**2' /9*',1',)*' 5-1+-,)' ',)*' '5-6 2' 1 ' ?;.,-6-0' .**0TJ',1C06 ' ,.' D-62>)*.'1+*-.)6018',)*'8)1/*'*6-,)T' ,)*' =-1.=*>,.' 1 ')- .,.' 9 2501?' 12' *6-,)'6-*' D- 5),^ *-' ,)62' 6,'62 '=-*+ 1;.' =*- 10' 1 ',.') .,1- ' 1?C =6-%' ? ,)' - ' '" 1 '# 'M*.=*> 6// ',)*'>1/^ ;?2' 4*2*-6/)6-6>,*- ., >.JX' *' ' g ;; : '% #'9'±0 ' #

)- ., 62.' M ?=-1=*-/ ' =-121;2>*0' - . 7 62.X' 6'0*21? 26, 12' ;.;6// '., /*0' ',)*')- ., 62' 122*>^ , 12 J

' # % ' ()D'D10 ' .'=;-*/ ' ?*- >62' 2' ,.'1-^ 5 2')6+ 25'.=-;25' -1?',)-*'0 *-*2,'.1;->*.' 8 0*^ / '6=6-,' -1?'*6>)'1,)*- ' 7,)*' <*,)10 .,' 6=., .,' 620' -*.D ,*- 62');->)*.' 2' 0 *-*2,'=6-,.' 1 ' ?*- >6' M %X' &)*2',)*' .1C>6//*0' */// ' .*>*.. 12J' -1?' ,)1' <*,)10 .,' = .>1=6/);->)'M_' +%X',119' =/6>*' 2' ,)* *6-' RN',)*' .*>*0*-.' 6,' -.,' ,119',)*' 26?*' 1 ' ' *=;D/ >62' <*,)10 .,. J' D;',6 ,*-86-0' 6..;?*0',)*' 26?*' 1 ' ')- ., 62. J' 6+18 25',)*' %(' 6.',)*' -' 12/ ' >10*' 1 '01>,-2*' 620'0 .>=/2*' MK%X' 2',)*' *6-' Q ' -' D2*-' B12*.' 6' ?*?D*-' 1.',)*' 6=, .,');->)' 2' :6-,/620' *-?12,' 'D*>1? 25' 0 ..6, . *0' 8 ,)' ,)*' >-**0' 1') .' >);->)' 620' 8 ,)' 6// .*>,6- 62' 0*21? 26^ , 12.' 620'=-* *-- 25',)*' D/*' 6/12*' 6.',)1' >12 *.. 12' 1 ') .' 6 ,) J' 1-562 [*0' 6' >);->)' 1 ',8*2, C +*' ?*?^ D*-.' 2',)*',182' 1' 2012' ,' 2' 6' *8' *6-.')1' 86.' A1 2*0' D ' ? 2 .,*-.' -1?',)1' /1.*1' 1??;2 12' 620' -**C8 // 6=, .,' >);->)*.' 8)1'/* ',)*' -' 1-?*-' 6..1^ > 6, 12.' 620' 2' .1?*' >6.*.' D-1;5),)*' -' /1>9.' 8 ,)' ,)*?' MN%X' ()*',) -0' .1;->*' 1',)*' 2*8' .*>,' 86.' 1;20' 2' *2,;>9 ' 620' (*22*..**' D1;',)*' *6-' Q ' .*+*-6/' ? 2 .,*-.' 8 ,)0-*8' -1?',)*A;-.0 >, 12' 1',)*' -*.D ,*- 62');->)' 620' -1-562 [*0',)*?.*/+*.' 2,1' 6' 2*8' 620' 20*=*20*2,'=-*.D ,*- '>6//*0',)*' =- 25C */0' -*.D ,*-X' ()*' 9*=,';=',) .' 1-562 [6, 12' 1-' 6D1;',81' *6-.' 8)*2',)*' 1-?6// ' 601=,*0' & 2*8' 26?*' 1-' ,)*?.*/+*.' 620' 1//18*-.' ',),)6,' 1')- .^ , 62.%J' M *>' 6+ 0.12' ' " "' ') =' * 1' >)6='+ ,%X

()*' ,)-**' D10*.' ,);.' .*=6-6,*/ ' 1-562 [*0' 8*-*' 26// ' D-1;5),' 2,1' 12*' .1> *, '601##D 25,)*' >1?? 12' 26?*')- ., 62.%J' ()*')6+*' D*>1?*' _;.*' 2;?*-^ 1;.%' %I %

',)*' # ;60-*22 6/' 4*2*-6/' 12 *-*2>*' 1',)' .'0*^ 21? 26, 12')*/0' 6,' <6-.)6// ' .,' </ >) 562' 12' >,1D*-' K' QS '620',)*' 1//18 25'06 .',)*' 1//18 25' # 22;6/' 12 *-*2>*.' 8*-*'-*=-*.*2,*0'D '0*/*56,*.T

d d % I */56,

6..6?6_; OO ' <1%

K *-?12,'& *.,*-2%

N

K

1-9'620' ;?D*-/620%

4I

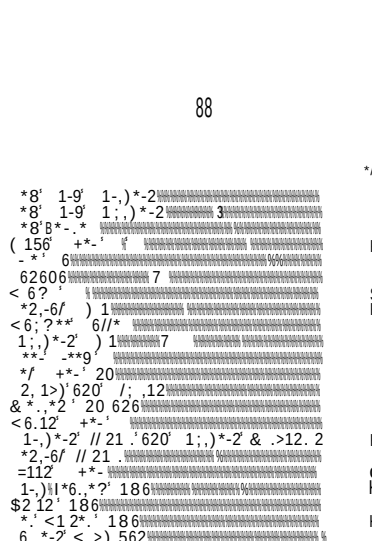
N

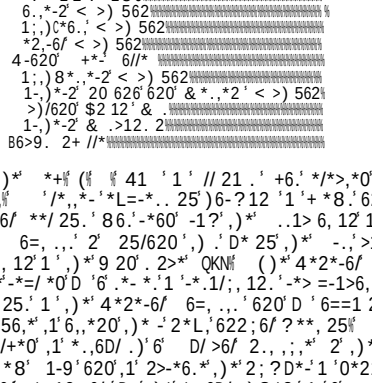
<6..6>);.*,,.'620'/$ 10*' ./620%

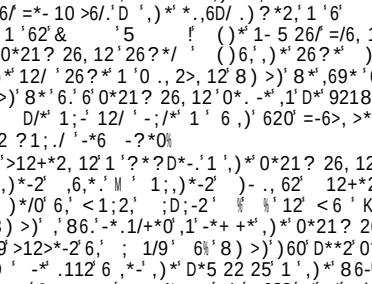
N *8' 1-9' 6..*2F%

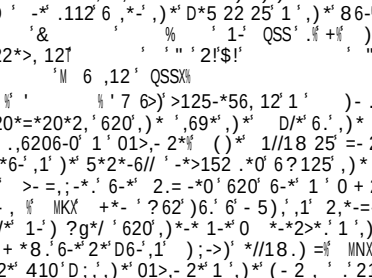
*8' 1-9' *2,-6/%

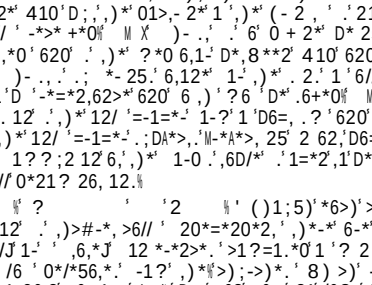
*8' 1-9' & *.,*-2%

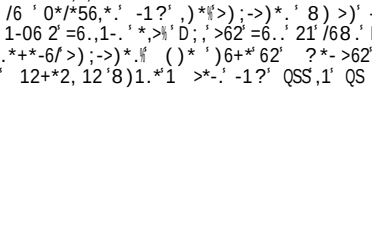












: .' .,6, 12.' 8*-*' QK ' $2 12T QKS' _26T QK CQ' U62*.+ //*T QKR' 2> 226, T QN ' *D6212' .,- >,T QN ' 2> 226, T QN CQ' 2> 226, ' .,- >,T QNRC ' $-D626% : *' 86.',)-**' , ?*.'*/*>,*0'6'?*?D*-'1 ',)*'4*2*-6/ 12 *-*2>*% : .' ? 20'86.'1 'D-160'>1?^ =6.. '620')*' 86.' 8*// +*-.*0' 2',)*1/177 '620'*>>/*. ^ 6., >6/=1/ , % 2' 6// 0 .>;.. 12.' 2',)*' >12 *-*2>*.')*' 86.' 62' 6D/*' 620'.;>>*.. ;/ 0*D6,*-'620'.*/01?' 6/*0'1')*' 6 ?% 2',)*=;/=',)*' 86.'=-*C*? 2*2,% : .'=-*6>) 25'86.'/15 >6/620'+51-1;.'620')*'=1;-*0' 1-,)'6'0110'1'*-+0'620'=6.. 126,*' */1_;*2>*',)6,' >6-- *0')./6;0*2>*.'8,)') ?'620'D-1;5),'+*- '?62 ',1')- .,% : .' 0*6,)'86.',- ;?=)62,% ' ' 1' 'N T =-65;*' & 1'+ ' N%)-.,?6.',)*'06 'M *>*?D*-'K ,)X8)>)'.'>*/C' *D-6,*0',)-1;5)1;,'2*6-/ ',)*'8)1/*'1')- .,*201?' 2.',)*'D -,)06'1'1;-'6+1;-Y ',.'1>>;=*0',)*-*^ 1-*'8,)',/*'+*2, ',)*'2>6-26, 12,''8)>)'1-?.' ,)*'>*2,-*'620',;-2 25C=1 2,'1',)*') .,1- '1',)*' 81-/0% ,'.'1'6//',)*'*., +6/.',)*'12*'?1.',),)1-^ 1;5)/'2,*-81+*2'8,)',)*'=1=;/6-'620'6?/'/*' 620'..620.'6,',)*')*60'1',)*'5-*6,'*6.,.'2',)*'&*.,^ *-2');->)'*6-% ,'>12, 2;*.'1'D*'2',)*'*2, -*' 6,)1/>'81-/0'620'2',)*'5-*6,*-'=6-,'1' -1,*.,62,' M)-.,*201?',)*'5-620'A;D /**'1'>/ /0-*2'12'8)>)' 22;?*-6D/*'5 ,.'>*/*D-6,*',)*'2 2.*'/1+*'1'410'2',)*'5 ,'1') .'12/ CD*51,,*2' 12% ,'9 20/*72' ? 0^ 8 2,*-'6')1/' -*'1'/1+*'620'5-6, .;0*'620'=-*6>)*.' 2',)*'/125*.,'2 5),',)*'-. 25'1',)*' ;2'1' *' 620' ,)*'5/1- '1',)*' 1-0% ,'0*21,*.',)*'60+*2,'1',)*' ,-;*'41/0*2' 5*'1',)*'-**01?'620'*_;6/,'1'6//')* -*0**?*0'D*1-*'410'620'2'410% 1'12*'>62'?*6.^ ;-*',)*'A1'620'D/*.. 25'8)>)'-1?' *6-',1' *6-' /18' 1-,)';=12'6// 65*.'1'/*' -1?',)*'>12,*?=/6, 12'1' ,)*')1/'>) /0'B*.;.'2') .')*6+*2/'221>*2>*'6207 0 ^ + 2*')?/, J'M >)6 ' '' '#' 1' 'g' X% ()*'1D.*-+62>*'1')- .,?6.' .'21,'1'0+2*'6=^ =1 2,?*2,'21-' .' ,'1' % (% 1- 5 2% ()*'06'1')- .,.'D -,)'>6221,'D*'6.>*-,6 2*0'-1?',)*' % (% 1-' 20**0' -1?'62'1,)*-'.1;->*% ()*'6,)*-.'1',)*' -.,',)-**'>*2,;-*.'01'21,'.=*69'1'62'.=*>6/'1D^ .*-+62>*'1',)*'26, + , % ()*'D6=,.?'1'B*.;.'86.')*'>*/*D-6,*0'2',)*'6.,*-2');->)'D' % % KK'D;,' ' 21,'2',)*'&*.,*-2';2,/',)*'1;-,)'>*2,;-T620',)*' 6.,*-2');->)' 26// '601=,*0',)*')- .,?6.'*., +6/ -1?',)*'&*.,*-2'M6D1;,' % %'NQ X% 1?*8(.*-.''/*25,)*2 25'1',)*'06'620'.**?.',1')6+*'D**2'6'=*^ M*% 5% 6+*' = ' '' 1'=,% '>)% + '=% R X - 10'1'=6562*.,+6/'2' ;-1=*' -1?'62>*2,',?*.% ,-6>*',)*'1D.*-+62>*',1',)*'KO'>*2,;- '6D1;',)*',?*' .'1'>1?=6-1;'1'>*.'-1' 1?710;.% 6+*'>,*.',1'=-1+*',)6,''5;.)*0'6?/*.'62'1 >*-';20*-'+6-1;.',/*.'86.' ,'86.'1D.*-+*0'D*1-*',)*',?*'1' 12..62,2*',)*' 1//18 25'.60'.,1-'-1?' 6- 2;.'M7 8% N '=% Xa' 25'1',)*'>1;-,'1' :*>'% QR'?*2, 12.'62' '&)/*',)*'=*-.*>;,12'-65*0';20*-' 1>/*,62'8)1' ,)*2'9*=,'D.'>1;-,'6,' >1?*06',)*', -62,' 20 25' ?;/,;0*.'1')- ., 62.' 1;65'620'1/0'?*,'15*,)*-'86.',*-?*0' ,1'>*/*D-6,*')- .,.'26, + ,'>1?*620*0',)*')*'>);->)' 011-',1'D*'.);,'620' -*=;',1',' 8)>)'-*0;>*0',)*?' 620',)*')>);->)',1'6.)*.%J ;,' ,'.') .,1- >6// '>*-^ ,6 2',)6,',)*')- .,?6.'*., +6/=-1=*-' .'1'>1?=6-1 6, +*/'/6,*' 2., ;;, 12% () .'?6'01;D,/*..'D*'6>^ >1;2,*0'1-'2',)*'1//18 25'?622*-% 2',)*' -.,' =/6>*'21'>1--*.=120 25'*., +6/86.'=-*.*2,*0'D',)*' /0'(*.,6?*2,'6.' -.,'6D1;,',)*'0*6,)'620'-*.;--*>, 12'1')- .,',)*'>1?=/*,*0' 6>,'1'-*0*?=, 12'620'?60*' ,)',)*'>*2,-*'1',)*'8**9/'81-.)='620',)*');->)' *6-% 26/)J',)*'*6-/*-'*6.,'1' =*)62'6 1-0*0' 6',D.,.;,*% ()*'6-, .,>'-*/5 1;,' ?=;/.*.')6>%X% (1'6>>1;2,' 1-',)*'1-^ 5 2'1')- .,?6.',)*-*'1-*' ,' 21,'2*>*..6-',1',-6>*' ,'6.'.1?*'8-,*-.'01',1' "' ' ' >*/*^ D-6,*0'D',)*'B*8.T 1-'6.'1$ *-.'01%,1',)*')*6,)*2 6,;-26/6% B6D/12.9'*20*6+1-.',1'.)18',)6,',' ,'1-5^ 26,*0'8,)',)*' 6./0 62.' 2' 5 =,'I*,% ' 'Q KX% ')()*' 2.,;, 12'?6'D*'.; > *2,/'*L=/6 2*0'D',)*' > ->;?.,62>*',)6,' ,'86.',)*',6..*'1',)*'65*',1'?;/^ ,=/' *., +6/.'620',)6,',)*'626/15'1'1,)*-'*+*2,.' 2'1;-' 6+1;-.') .,1- '8)>)')60'6/-*60 'D**2'?6-9^ *0'D'6'6'0.,2>,'>*/*D-6, 12'?6'26,;-6// ')6+*'=1 2,^ *0'1;',)*'=-1=-*, '1'?6-9 25').'26, + , '8,)',)*' .6?*')121-6D/*'0.,2>, 12% ,'86.'>*/*D-6,*0'8,)' 6//',)*'?6-9.'1'-*.=*>,';.,;6// 'D*.,18*0'12')5)'*.^ , +6/. I620'0.,25; .)*0'6/.1'D',)*'>;.,1?'0*- +*0' =-1D6D/'-1?')*6,)*2' 62, _;, '1' 2,*->)625 25' =-*.*2,.'620'?69 25'*2,*-,6 2?*2,.%J ',)*'.6?*' ,*',)*'6?*',)*')*6,)*2'8 2,*-')1/06.'M 6,;-26/6'8;+*C' 26/6'-;?6/6X &*+*';201;D,*0/',-62.1-?*0'620' .1',1'.=*69'.62>, *0'D',)*'*.,6D/.)?*2,'1',)*')-.,?6.'>/*'1')1/06 .T 620',)*')*6,)*2';.^ ,1?.' 6-'6.',)*'8*-*)6-?/*..'M*%5%,)*'5+25'1' =-*.*2,.'/5), 25',6=*-.'*,>%X'8*-*'D-1;5),'1+*-'2,1')- .,62';.*% ()*')- .,?6.' 1'*.,+6/.'5-60;6// '5-*8';=' 6-1;20',)*'1D.*-+62>*'1',)*'06'1'26,+,' ,' *?D-6>*0')- .,?6.'*+*'1-' 5/.'8)>)'8*-*'>*/*^ D-6,*0'8,)'*.=*>6/.1/*?2, 'D*>6;.*',)1;5)',)* =-*>.*'06'1'M)-.,.'D-,)'>1;/0'21,D*'6.>*-,6 2*0' ,'.'>*-,6 2',)6,')*'86.'D1?'2',)*'2 5),'M ;9*/'?QX% ()*'1;-' ;206.'D*1-*')-.,?6.'8*-*'?60*'=-*=6^ -6, 12'06.'1-',)*'*., +6/'620'>6//*0' 0+*2,C ;2C 06.% **' .! <*?1-6/06.'*,>%'1-',)* <6-,-'.*=)*2'MA *>% KSX' ,%B1)2'MA *>% K X'<6..6^ >-*'1',)*'221>*2,.'M *>% KQX'8*-*'.,6D/.)*0'2',)* 1;-,)'>*2,;-% ()*'*., +6/'1'->;?>.12'620' *8' *6-'MB62% X.'1'/6,*-'1-52'8)/* =*)62'MB62% QX .'*6-/*-',)62')-.,?6.% 2'/6,*-'65*.' ?62'1D.*-+62>*.'.1?*=/*6.62,' 1,)*-.'6D.;-0'5-*8';=6-1;20',)*')-.,26.'*., +6/% >>1;2,.'1'1/0' 25/.)')-.,?6.';.65*.'?6'D* 1;20'2')6?D*-.';'' '' 'M 0 2D% QS'K 1/.% Q+1X'620'2'-620' & 4 'M *20% Q N +1/.% K?1X% ?125',)*?'6-*',)*' 1//18 25% ' 86.'>2/=,1?6-','1'/5),'>620/*.'1'/6-5*'.[*'620',1' ;6'=12',)*' -*'6')5*'/15'>6//*0'6'<'' 1-' >*/*D-6,*0'2',)*' 6.,*-2');->)'D' % % KK'D;,' ' "' +'6';.,1?'21,'*,'*L, 2>,'2'.1?*=6-,.' 1'25/620% /*'M -1?'+'6'8)**/X'86.'6'.;2C *6.,'>1?*?1-6, +*'1',)*',;-2'1',)*'.;2'620',)*' *6.,'>1?*?1-6, +*'1',)*',;-2'1',)*'.;2'620',)*' -1?',)*'&*.,*-2'M6D1;,' % %'NQ X% 1?*8(.*-.''/*25,)*2 25'1',)*'06'620'.**?.',1')6+*'D**2'6'=*^ M*% 5% 6+*' = ' '' 1'=,% '>)% + '=% R X - 10'1'=6562*.,+6/'2' ;-1=*' -1?'62>*2,',?*.% ,-6>*',)*'1D.*-+62>*',1',)*'KO'>*2,;- '6D1;',)*',?*' .'1'>1?=6-1;'1'>*.'-1' 1?710;.% 6+*'>,*.',1'=-1+*',)6,''5;.)*0'6?/*.'62'1 >*-';20*-'+6-1;.',/*.'86.' ,'86.'1D.*-+*0'D*1-*',)*',?*'1' 12..62,2*',)*' 1//18 25'.60'.,1-'-1?' 6- 2;.'M7 8% N '=% Xa' 25'1',)*'>1;-,'1' :*>'% QR'?*2, 12.'62' '&)/*',)*'=*-.*>;,12'-65*0';20*-' 1>/*,62'8)1' ,)*2'9*=,'D.'>1;-,'6,' >1?*06',)*', -62,' 20 25' ?;/,;0*.'1')- .,62.' 1;65'620'1/0'?*,'15*,)*-'86.',*-?*0' ,1'>*/*D-6,*')- .,.'26, + ,'>1?*620*0',)*')*'>);->)' 011-',1'D*'.);,'620' -*=;',1',' 8)>)'-*0;>*0',)*?' 620',)*')>);->)',1'6.)*.%J ;,' ,'.') .,1- >6// '>*-^ ,6 2',)6,',)*')- .,?6.'*., +6/=-1=*-' .'1'>1?=6-1 6, +*/'/6,*' 2., ;;, 12% () .'?6'01;D,/*..'D*'6>^ >1;2,*0'1-'2',)*'1//18 25'?622*-% 2',)*' -.,' =/6>*'21'>1--*.=120 25'*., +6/86.'=-*.*2,*0'D',)*' /0'(*.,6?*2,'6.' -.,'6D1;,',)*'0*6,)'620'-*.;--*>, 12'1')- .,',)*'>*2,-*'1',)*'8**9/'81-.)='620',)*');->)' *6-% 26/)J',)*'*6-/*-'*6.,'1' =*)62'6 1-0*0' 6',D.,.;,*% ()*'6-, .,>'-*/5 1;,' ?=;/.*.')6>%X% (1'6>>1;2,' 1-',)*'1-^ 5 2'1')- .,?6.',)*-*'1-*' ,' 21,'2*>*..6-',1',-6>*' ,'6.'.1?*'8-,*-.'01',1' "' ' ' >*/*^ D-6,*0'D',)*'B*8.T 1-'6.'1$ *-.'01%,1',)*')*6,)*2 6,;-26/6% B6D/12.9'*20*6+1-.',1'.)18',)6,',' ,'1-5^ 26,*0'8,)',)*' 6./0 62.' 2' 5 =,'I*,% ' 'Q KX% ')()*' 2.,;, 12'?6'D*'.; > *2,/'*L=/6 2*0'D',)*' > ->;?.,62>*',)6,' ,'86.',)*',6..*'1',)*'65*',1'?;/^ ,=/' *., +6/.'620',)6,',)*'626/15'1'1,)*-'*+*2,.' 2'1;-' 6+1;-.') .,1- '8)>)')60'6/-*60 'D**2'?6-9^ *0'D'6'6'0.,2>,'>*/*D-6, 12'?6'26,;-6// ')6+*'=1 2,^ *0'1;',)*'=-1=-*, '1'?6-9 25').'26, + , '8,)',)*' .6?*')121-6D/*'0.,2>, 12% ,'86.'>*/*D-6,*0'8,)' 6//',)*'?6-9.'1'-*.=*>,';.,;6// 'D*.,18*0'12')5)'*.^ , +6/. I620'0.,25; .)*0'6/.1'D',)*'>;.,1?'0*- +*0' =-1D6D/'-1?')*6,)*2' 62, _;, '1' 2,*->)625 25' =-*.*2,.'620'?69 25'*2,*-,6 2?*2,.%J ',)*'.6?*' ,*',)*'6?*',)*')*6,)*2'8 2,*-')1/06.'M 6,;-26/6'8;+*C' 26/6'-;?6/6X &*+*';201;D,*0/',-62.1-?*0'620' .1',1'.=*69'.62>, *0'D',)*'*.,6D/.)?*2,'1',)*')-.,?6.'>/*'1')1/06 .T 620',)*')*6,)*2';.^ ,1?.' 6-'6.',)*'8*-*)6-?/*..'M*%5%,)*'5+25'1' =-*.*2,.'/5), 25',6=*-.'*,>%X'8*-*'D-1;5),'1+*-'2,1')- .,62';.*% ()*')- .,?6.'>/*'1')1/06 .T 620',)*')*6,)*2';.^ ,1?.' 6-'6.',)*'8*-*)6-?/*..'M*%5%,)*'5+25'1' =-*.*2,.'/5), 25',6=*-.'*,>%X'8*-*'D-1;5),'1+*-'2,1')- .,62';.*% ()*'*., +6/'620'>6//*0' 0+*2,C ;2C 06.% **' .! <*?1-6/06.'*,>%'1-',)*' <6-,-'.*=)*2'MA *>% KSX' ,%B1)2'MA *>% K X'<6..6^ >-*'1',)*'221>*2,.'M *>% KQX'8*-*'.,6D/.)*0'2',)*' 1;-,)'>*2,;-% ()*'*., +6/'1'->;?>.12'620' *8' *6-'MB62% X.'1'/6,*-'1-52'8)/* =*)62'MB62% QX .'*6-/*-',)62')-.,?6.% 2'/6,*-'65*.' ?62'1D.*-+62>*.'.1?*=/*6.62,' 1,)*-.'6D.;-0'5-*8';=6-1;20',)*')-.,26.'*., +6/% >>1;2,.'1'1/0' 25/.)')-.,?6.';.65*.'?6'D* 1;20'2')6?D*-.';'' '' 'M 0 2D% QS'K 1/.% Q+1X'620'2'-620' & 4 'M *20% Q N +1/.% K?1X% ?125',)*?'6-*',)*' 1//18 25% ' 86.'>2/=,1?6-','1'/5),'>620/*.'1'/6-5*'.[*'620',1' ;6'=12',)*' -*'6')5*'/15'>6//*0'6'<'' 1-' >*/*D-6,*0'2',)*' 6.,*-2');->)'D' % % KK'D;,' ' "' +'6';.,1?'21,'*,'*L, 2>,'2'.1?*=6-,.' 1'25/620% /*'M -1?'+'6'8)**/X'86.'6'.;2C *6.,'>1?*?1-6, +*'1',)*',;-2'1',)*'.;2'620',)*' -1?',)*'&*.,*-2'M6D1;,' % %'NQ X% 1?*8(.*-.''/*25,)*2 25'1',)*'06'620'.**?.',1')6+*'D**2'6'=*^ M*% 5% 6+*' = ' '' 1'=,% '>)% + '=% R X - 10'1'=6562*.,+6/'2' ;-1=*' -1?'62>*2,',?*.% ,-6>*',)*'1D.*-+62>*',1',)*'KO'>*2,;- '6D1;',)*',?*' .'1'>1?=6-1;'1'>*.'-1' 1?710;.% 6+*'>,*.',1'=-1+*',)6,''5;.)*0'6?/*.'62'1 >*-';20*-'+6-1;.',/*.'86.' ,'86.'1D.*-+*0'D*1-*',)*',?*'1' 12..62,2*',)*' 1//18 25'.60'.,1-'-1?' 6- 2;.'M7 8% N '=% Xa' 25'1',)*'>1;-,'1' :*>'% QR'?*2, 12.'62' '&)/*',)*'=*-.*>;,12'-65*0';20*-' 1>/*,62'8)1' ,)*2'9*=,'D.'>1;-,'6,' >1?*06',)*', -62,' 20 25' ?;/,;0*.'1')- .,62.' 1;65'620'1/0'?*,'15*,)*-'86.',*-?*0' ,1'>*/*D-6,*')- .,.'26, + ,'>1?*620*0',)*')*'>);->)' 011-',1'D*'.);,'620' -*=;',1',' 8)>)'-*0;>*0',)*?' 620',)*')>);->)',1'6.)*.%J ;,' ,'.') .,1- >6// '>*-^ ,6 2',)6,',)*')- .,?6.'*., +6/=-1=*-' .'1'>1?=6-1 6, +*/'/6,*' 2., ;;, 12% () .'?6'01;D,/*..'D*'6>^ >1;2,*0'1-'2',)*'1//18 25'?622*-% 2',)*' -.,' =/6>*'21'>1--*.=120 25'*., +6/86.'=-*.*2,*0'D',)*' /0'(*.,6?*2,'6.' -.,'6D1;,',)*'0*6,)'620'-*.;--*>, 12'1')- .,',)*'>*2,-*'1',)*'8**9/'81-.)='620',)*');->)' *6-% 26/)J',)*'*6-/*-'*6.,'1' =*)62'6 1-0*0' 6',D.,.;,*% ()*'6-, .,>'-*/5 1;,' ?=;/.*.')6>%X% (1'6>>1;2,' 1-',)*'1-^ 5 2'1')- .,?6.',)*-*'1-*' ,' 21,'2*>*..6-',1',-6>*' ,'6.'.1?*'8-,*-.'01',1' "' ' ' >*/*^ D-6,*0'D',)*'B*8.T 1-'6.'1$ *-.'01%,1',)*')*6,)*2 6,;-26/6% B6D/12.9'*20*6+1-.',1'.)18',)6,',' ,'1-5^ 26,*0'8,)',)*' 6./0 62.' 2' 5 =,'I*,% ' 'Q KX% ')()*' 2.,;, 12'?6'D*'.; > *2,/'*L=/6 2*0'D',)*' > ->;?.,62>*',)6,' ,'86.',)*',6..*'1',)*'65*',1'?;/^ ,=/' *., +6/.'620',)6,',)*'626/15'1'1,)*-'*+*2,.' 2'1;-' 6+1;-.') .,1- '8)>)')60'6/-*60 'D**2'?6-9^ *0'D'6'6'0.,2>,'>*/*D-6, 12'?6'26,;-6// ')6+*'=1 2,^ *0'1;',)*'=-1=-*, '1'?6-9 25').'26, + , '8,)',)*' .6?*')121-6D/*'0.,2>, 12% ,'86.'>*/*D-6,*0'8,)' 6//',)*'?6-9.'1'-*.=*>,';.,;6// 'D*.,18*0'12')5)'*.^ , +6/. I620'0.,25; .)*0'6/.1'D',)*'>;.,1?'0*- +*0' =-1D6D/'-1?')*6,)*2' 62, _;, '1' 2,*->)625 25' =-*.*2,.'620'?69 25'*2,*-,6 2?*2,.%J ',)*'.6?*' ,*',)*'6?*',)*')*6,)*2'8 2,*-')1/06.'M 6,;-26/6'8;+*C' 26/6'-;?6/6X &*+*';201;D,*0/',-62.1-?*0'620' .1',1'.=*69'.62>, *0'D',)*'*.,6D/.)?*2,'1',)*')-.

+6/' 866' 6/86 .'>*/*D-6,*0' 12' *>*?D*-'K ,)' .'6' .;D^ A*>,'1 '0 .=;,.'% ,' 86.' 21,', //',)*' . L,)' >*2,;- ' ,)6,' ,)*' 8)1/*')- ., 62' 81-/0' >12>;--*0' 2'>*/*D-6, 25',)*' 26, + , ' 12',)*' .6?*' 06 % .' ,1',)*' _;*., 12' 1 ',)*' 06,*' 1 ')- ., .' D -,) ' .'**' * # ')- .M7 6.' 06 ' .' 1D.*-+*0' D ' 2*6-/ ' 6//' >);->)*.' 2',)*' 81-/0' *L>*=',)*' ..*2,*-.' 1 ',)*' -, .)' ./^ 620.' 620',)*' ?*- >62' >);->)*.',),6,')6+*' .=-;25' -1?',)*?% 2',)*' 1?62');->)',)-**' ?6..*.' 6-*' =*- 1-?*0& 12*' 6,' ? 02 5),' 12*' 6,' 06 D-*69' 620' 12*' 2',)*' ?1-2 25% 1?*,?*.')18*+*-',)*',)-**' ?6..*.' 6-*' .6 0' 0 -*>,/ ' 12*' 6 ,*-',)*' 1,)*-% 1,)' 2',)*' 4-**9' 620' : 1?62' >);->)*.',)*' ?625*-',)*')1/ ' 6? / ' *,>%' 6-*' .1?*, ?*.' -*=-*.*2,*0' 6,' /6-5*% 2',)*');->)' 1 ' 25/620' 620' 2',)*' -1,*.,62,' = .>1=6/');->)' 2',)*' /6-5*' > , *.% ' 25)6?' , ! 6 ! D9% LL ' >)%% +' 1/*?62' " ' & 4 1'>)% LL ' g ' 1-C /*..' ,)62',)*' .1C>6//*0' .6>-6?*2,6/',)*1/15 ')1/0.',)6,')- .,' .',)*' >*2,-*' 1 ',)*' >- .,62' ..*?% 1' /6+*/a' ()*' 9218/*05*' 1 ')- .,' .',)*' +* ' ?6-^ -18' 6 7' 9*-2*/' 1 ' 6//',)*' >- =,;-*.' ,)*' .>1=*' 620' >*2,-*' 1 ' 6// 0 + 2*' -*+*/6, 12.' TI' D=,)' (*.,6?*2,.' ?**,' 2')- .,% ()*' - 5),' 9218/*05*' 1 ')- .,'/ 9*' 6' >/*8 '/*60.' 1;',)-1;5)',)*' 8)1/*' /6D - 2,)' 1 ',)*' >- =,;-*.J' M 1;2,6 2' ' % *-?% X% *D2*-'6' ?10*?' 4*-?62' 0 + 2*'*L=-*..*.',)*'.6?*',)1;5),' 2' ?1-*' .> *2, >' 1-?' I " 1' 41,, 2^ 5*2' Q RX ' ()*' _;*., 12% &)6,' 01' 1;' ,) 29' 1')- .,a 8)1.*' .12' .')*' H)6.' D*>1?*' 656 2' 2' ,.' ;// 1-> *',)*' >6-0 26/ _;*., 12' 1',)*1/15 ' ?,)*1/15 62.' D*>1?*'=-*C*? 2*2,/')- .,1/15 62.' ,)*' .,12*' 8) >)',)*' M,)*1/15 >6/X' D; /0*-.')60' -*l*>,*0')6.' 656 2' 2' -*^ 6/ , 'D*>1?*',)*' >1-2*-% 20',)*-*' 6-.*.' 656 2' 1-1 ;-' 65*' 8 ,)' =*>;/ 6-' 606=,*02*.6' 1-' 6=1/15*,>6/ =;-=1.*.',)6,' 5-620' 620' ?6A*.,>',-6 2' 1 ')- .,1/15C >6/',-;,). ' -1?',)*' >*2,-*' 1 ' 8) >)' 6// .'.**2' 2',-;*' *+625*/ >6/ ;/2*.. ' 620' 2',)*' =-1=*-' *+625*/ >6/ 1-^ 0*-*';='.,1',)*' 01>,- 2*' >12>*-2 25',)*' (- ;2*' 620' 12/ ',-;*' 410' 620' 0182',1' *+*- ' _;*., 12' >122*>,*0' 8 ,)')- ., 62',*,) >.% 20' 8)6,')*-*' >1?*.',1'/ 5),' .',1' .6 ' ,' 2' 6' *8' 81-0.',)*' . .,*?' 1 '6//' . .,*?.% ()*' 62> *2,');->)')6.' 2' .62>, *0' 620' 5 562, >' .=*>;/6^ , 12.' /6 0',)*' 1;206, 12' ,)*');->)' 1 '*+*- ' .;>^ >**0 25' =*- 10 ' 8)*2' 6/ +*' ,1')*-' >6// 25')6.' >12^ , 2;*0',)*-' * 1-,.' 2',)*' .6?*' 0 -*>, 12' 620',.' >1?^ =/*, 12' 8 // -*_;-*',)*' * 1-,.' 1',)*');->)',1',)*' *20' 1' 06 .% ' .',)*' . .,*A2' 1',)*' *,*-26/ 0 + 2*' ,)1;5),.',)6,'6-*' /6 0' 01820' 2',)*' 6>,.' 1 '-*+*/6, 12' 620')6+*' D**2' 6>,;6/ [*0' ?1.,' 0 .,2>,/ ' 2' %)- .,' 6-*',*26D/*' 620' + >,1- 1;.' 2' .)1-,',)6,')- .,62 , ' *?D10 *.' 6// ,-;*' =A /1.1=) ' 6.' 8*// 6.' 6// .= - ,;6// / *%J' 1' 8 ,)' -* *-*2>*',1',)*' ,)*1/15 >6/ >12 / >,.' 31',)*' 65*' *.=*> 6// ' 2' 4*-?62 ' 1-2*-' -*?6-9.a ' .' 5-6, 25',1'.**')18' 2',)*' /125' >12 / >,' D*^ ,8**2')- ., 62 , ' 620' -*6.12',)*' =1 2, ' 12',)*')62^ 0/ 25' 1 '8) >)',)*' 0*> . 12' 1',)*' >12,-1+*-. ',;-2. ')6.' D*>1?*' *+*-' ?1-*' 620' ?1-*' 0 ., 2>,',1',)*' >12^ .> 1;.2*..% ()*' *2*-5 *.' 1 '6//' =6-, *.' *2565*0' 2',) .' >12 / >,' 6-** 56,)*-*0' *+*-' ?1-*' 620' ?1-Y' 6-1;20' ,)*' =*-.12' 1 ')- .,' 6.',)*' >*2,-6/' =1 2,'6,' 8) >)'%,)*' ?6,,*-I'?;.,' D*' 0*,*-?2*0% ()*' 60+62,65*' 1 ',) .' .' 1D+ 1;.' 6.' -*,=*>,.',)*' .*,//*?*2,' 1 ',) .' 5-*6,' .,- *T 6.' 2' 1,)*-',) 25.' .1')*-*' 8 ,)',)*' 5-),.',6,*^ ?*2,'1 ',)*' _;*., 12 ',)*' 62.8*-' .'6/-*60 ')6/' 1;20%

' T B;.(= (T / ' g L $!

()*' 01>,- 2*' 1 ',)*' =*-.12' 1 ')- .,' .',)*' >*2,-6/' 01>,- 2*' 1 ')- .,62 , ' ;-' + *8' 1 ',)*' 8)1/*' >)6>^ 6>,*-' 620' ..;*.' 1 ') .' -*0*?=, 12' 620' >12.*_;*2,/ ' 1;-' 8)1/*' .,*?' 1 ',)1;5),' D1,)',)*1/15 >6/' 620' *,)^ >6/' 0*=*20.' ;=12' 1;-' + *8' 1 ',)*' =*-.12' 1 ')- .,% ()*');->)')6.' 6/86 .' 8 ,)' 6' .;-*' 2., 2>,' ;20*-^ .,110' ,)*' ;206?*2,6/ ?=1-,62>*' 1 ',) .' 01>,- 2*' D;',6 ,*-',)*' .*,,/*?*2,' 1 ',)*' *6-/ ' 0 .=;,*.' D ',)*' 1;2>/ 1 ')6/>*012' M.*' D*/18X',)*' 0 .>;.. 12' 1 ' 1,)*-',1=>.' M*% 5% . 2' 5-6>*' 620' =-*0*., 26, 12X' *.^ =*> 6// ' 2',)*' & *.,*-2');->)' D*>6?*' 2*>*..6- ' 620')- .,1/15A' 86.' 6==6-*2,/ ',)-182' 2,1',)*' D6>9^ 5-1;20% 1' 6,' 6' /6,*-' =*- 10'),)*' 0 .>;.. 12.' >12^ >*-2 25',)*' 6,12 25' 81-9' 1 ')- .,' 620' 1',)*' ?*- ,.' 1 ') .' 0*6,)',119' =-*>*0*2>*' 1 ',)6,' 1 ') .' =*-.12% ;',6//' >/6..*.' 1 ' 1-,)101L',)*1/15 62.' 2' 6// >1?^ ?;2 12.')6+*')*/0',1',)*' ;206?*2,6/ ?=1-,62>*' 1 ')- .,1/15 T 620' 8 ,)',)*' .;D. 0*2>*' 1 ' 8)6,' ?6 ' D*' >6//*0' ? 21-' 0 .>;.. 12.')- .,1/15 ')6.' 1 ' /6,*' 6.I' .;?*0' 2*8' =-1? 2*2>*% ()*' ;-,62',)*1/15A I ' 21' /*..' ,)62',)*' .1C>6//*0' .6>-6?*2,6/',)*1/15 ')1/0.',)6,')- .,' .',)*' >*2,-*' 1 ',)*' >- .,62' ..*?% 1' /6+*/a' ()*' 9218/*05*' 1 ')- .,' .',)*' +* ' ?6-^ -18' 6 7' 9*-2*/' 1 ' 6//',)*' >- =,;-*.' ,)*' .>1=*' 620' >*2,-*' 1 ' 6// 0 + 2*' -*+*/6, 12.' TI' D=,)' (*.,6?*2,.' ?**,' 2')- .,% ()*' - 5),' 9218/*05*' 1 ')- .,'/ 9*' 6' >/*8 '/*60.' 1;',)-1;5)',)*' 8)1/*' /6D - 2,)' 1 ',)*' >- =,;-*.J' M 1;2,6 2' ' % *-?% X% *D2*-'6' ?10*?' 4*-?62' 0 + 2*'*L=-*..*.',)*'.6?*',)1;5),' 2' ?1-*' .> *2, >' 1-?' I " 1' 41,, 2^ 5*2' Q RX ' ()*' _;*., 12% &)6,' 01' 1;' ,) 29' 1')- .,a 8)1.*' .12' .')*' H)6.' D*>1?*' 656 2' 2' ,.' ;// 1-> *',)*' >6-0 26/ _;*., 12' 1',)*1/15 ' ?,)*1/15 62.' D*>1?*'=-*C*? 2*2,/')- .,1/15 62.' ,)*' .,12*' 8) >)',)*' M,)*1/15 >6/X' D; /0*-.')60' -*l*>,*0')6.' 656 2' 2' -*^ 6/ , 'D*>1?*',)*' >1-2*-% 20',)*-*' 6-.*.' 656 2' 1-1 ;-' 65*' 8 ,)' =*>;/ 6-' 606=,*02*.6' 1-' 6=1/15*,>6/ =;-=1.*.',)6,' 5-620' 620' ?6A*.,>',-6 2' 1 ')- .,1/15C >6/',-;,). ' -1?',)*' >*2,-*' 1 ' 8) >)' 6// .'.**2' 2',-;*' *+625*/ >6/ ;/2*.. ' 620' 2',)*' =-1=*-' *+625*/ >6/ 1-^ 0*-*';='.,1',)*' 01>,- 2*' >12>*-2 25',)*' (- ;2*' 620' 12/ ',-;*' 410' 620' 0182',1' *+*- ' _;*., 12' >122*>,*0' 8 ,)')- .,62',*,) >.% 20' 8)6,')*-*' >1?*.',1'/ 5),' .',1' .6 ' ,' 2' 6' *8' 81-0.',)*' . .,*?' 1 '6//' . .,*?.% ()*' 62> *2,');->)')6.' 2' .62>, *0' 620' 5 562, >' .=*>;/6^ , 12.' /6 0',)*' 1;206, 12' ,)*');->)' 1 '*+*- ' .;>^ >**0 25' =*- 10 ' 8)*2' 6/ +*' ,1')*-' >6// 25')6.' >12^ , 2;*0',)*-' * 1-,.' 2',)*' .6?*' 0 -*>, 12' 620' ,.' >1?^ =/*, 12' 8 // -*_;-*',)*' * 1-,.' 1',)*');->)',1',)*' *20' 1' 06 .% ' .',)*' . .,*A2' 1',)*' *,*-26/ 0 + 2*' ,)1;5),.',)6,'6-*' /6 0' 01820' 2',)*' 6>,.' 1 '-*+*/6, 12' 620')6+*' D**2' 6>,;6/ [*0' ?1.,' 0 .,2>,/ ' 2' %)- .,' 6-*',*26D/*' 620' + >,1- 1;.' 2' .)1-,',)6,')- .,62 , ' *?D10 *.' 6// ,-;*' =A /1.1=) ' 6.' 8*// 6.' 6// .= - ,;6// / *%J' 1' 8 ,)' -* *-*2>*',1',)*' ,)*1/15 >6/ >12 / >,.' 31',)*' 65*' *.=*> 6// ' 2' 4*-?62 ' 1-2*-' -*?6-9.a ' .' 5-6, 25',1'.**')18' 2',)*' /125' >12 / >,' D*^ ,8**2')- ., 62 , ' 620' -*6.12',)*' =1 2, ' 12',)*')62^ 0/ 25' 1 '8) >)',)*' 0*> . 12' 1',)*' >12,-1+*-. ',;-2. ')6.' D*>1?*' *+*-' ?1-*' 620' ?1-*' 0 ., 2>,',1',)*' >12^ .> 1;.2*..% ()*' *2*-5 *.' 1 '6//' =6-, *.' *2565*0' 2',) .' >12 / >,' 6-** 56,)*-*0' *+*-' ?1-*' 620' ?1-Y' 6-1;20' ,)*' =*-.12' 1 ')- .,' 6.',)*' >*2,-6/' =1 2,'6,' 8) >)'%,)*' ?6,,*-I'?;.,' D*' 0*,*-?2*0% ()*' 60+62,65*' 1 ',) .' .' 1D+ 1;.' 6.' -*,=*>,.',)*' .*,//*?*2,' 1 ',) .' 5-*6,' .,- *T 6.' 2' 1,)*-',) 25.' .1')*-*' 8 ,)',)*' 5-),.',6,*^ ?*2,'1 ',)*' _;*., 12 ',)*' 62.8*-' .'6/-*60 ')6/' 1;20%

,' .' *6. ' 6/.1',1' .**' ,)6, ' 2'=1 2,' 1 ' 6>, '6//' / *.' 2' A D*' _;*., 12' 8)*,)*-' .;>)' 6')- .,' 6.' 08*//. ' '21,' 6/86 .' 2' ,)*' 81-0. ' *,' *+*-' 2' ,)*' -1 20' 1 ',)*');->) ' 12*' 2' 8)1?' ,)*' =*- *>,' =*-.126/ ;2 12' 1 ',)*' 0 + 2*' 620') ; ?62' 6==*6-*0') .,1- >6// ')*' 2*>^ *. .6- '620'6>, ,6/% 1-'/*,' ;.' .;==1.*',)6,'=) /1.1=) ' >1;/0' 2>32,-1+*-, D/ ' *.,6D/ .)' 620' >6-- ',1',)*' >12^ + >, 12' 1 '6//',)1;5), ;/ ?*2' ,)6,',)*' =*-.12' 1 '6')- .,' 2',)*' .*2.*' 6D1+*' .*,' 1-,)' .' 6' .*/ C>12,-60 >^ , 12 '620',)*-* 1-*' 62' ?=1.. D/, ',)*-*' 81;/0' D*' 21' /125*-' 62 ' >12 / >,' D*,8**2')- ., 62',)*1/15 ' 620' =) /1.1=) 'D*>6;.*' 8 ,)',)*' =*-.12' 1 ')- .,' 81;/0' D*' 6D1/.)*0',)*')- ., 62',)*1/15E ' 6.' 8*// 6.',)*')- ., 62');->)' 6/,15*,)*-% 20' >12+*-.*/ ' 8*-*' ,' D-1;5),' ;20*-',)*' -*>152, 12' 1 '=) /1.1=) ',)6,' ,)*' 0*6' 1 '62') .,1- >6/ 6.' 8*// 6.' 62' 0*6/ 7 .,' .' 2*>*..6- '620' 81-*' 6' .=*>;/6, +*' >12.,-;>, 12' 1 ',)*' =*-.12' 1 ')- .,' 12>*' -*6>)*0 ' ,' .' >/*6-',)6,'=) /1.1^ =) '620',)*1/15 '*..*2, 6// '620' 2,- 2. >6// '-*>12^ > /*0' 81;/0',)*2>* 1-86-0')6+*' 6' >1? 12' 81-9 ' 1-' -6,)*-' =-1=*-/ ' .=*69 25' 81;/0')6+*' D*>1?*' 12*' 6 +' =) /1.1=) ' 81;/0' >12.*_;*2,/ ' 21,')6+*' ->/ 2C _; 70')*-' *L ..*2>*'D;,' >12 -?*0' ,% I 6-*' .' ,1' D*)18*+*-' 21,',1'-;2' 2,1',)*' 1?62 .,'*--1-1 '.;D., ,;, 25',)*' 2>6-26, 12' 1-',)*' 0*6,)' 1 ')- .,' 620' 1 '=;,, 25' 6. 0*',)*' 81-9' 1 ',)*' : 1/ ' = - 7' 8) >)' .',)*' .=*> 6/ ' *' ',)*' =-*.*2,' 0 .=*2.6, 12' 1 '5-6>*% (/*' .6>-6?*2,6/J' . .,*?',*20.',1',) .' D ' ,' .)*1- ',)6,')- .,' .'=-*.*2,' 2' ,)*' D10 J' 2') .');->)' 2^ .,*60' 1 ' 2') .%: 1/ ' = - ,% **' % #' / !' ' ()*')-.,1/15 '1 ',)*' /0' (*.,6?*2,' 8 //',)*',-*6,^ *0' ;20*-',)*' 6-, >/*' ' !' **' 6/.1',)*' 6-, >/*' ' !' *)*-*' 0 .>;..'D- * / ' % ()*')-.,1/1C 5+' 1 ',)*' % (%T ' ()*')-.,1/15 '1 ',)*');->)T %' ()*' =- 2> =6/)-.,1/15 >6/)*-*..*.% % : (4 ')' 0 4 ' " 5 ' ()*' 1/0*-' 0 + 2*.' 5*2*-6// '600;>*',)*' =6..65*.' 1 ',)*C % (% 8) >)',-*6,' 1 ',)*' =*-.12' 1 ')- .,' ;20*-',)*')*60.' 1 'M X',)*' + 2, ' 1 ')- .,' MKX',)*' : ;?62, ' 1 ')- .,% ()*' -.,'>/6..'1 '=6..65*.' 600;>*0' 5*2*-6/^ / ' 2>/;0*.',)1.*' 8) >)' 6..*-,' ,)*' =->0*L .,>2>*' 1 ' M)- .,T ,)*2' 1//18'=6..65*.' 8) >)' 6.>- D*'0 + 2*' ;2>^ , 12.'620'6,,- D;,*.',1')- .,T 620 ,) -0/ ',)1.*' 8) >)' 5 +*') ?' 0 + 2*',,/*.'M>1?='&6,.12 '-" ' ' '>)%LL+CLLL T : //' ' 'D119' X% ()1'-*>*2,' 0 .>;.. 12.' 6.',1',)*' 1- 5 2' 1 ',)*' 41.=*/.' 620' 6.',1' ,)1'.1C>6//*0' 0*+*/1=?*2,'1 '01>,- 2*' 2',)*' %(%')6+*' ?60*',' ?1-*' >12+*2 *2,',1'.,6,*',)1')- .,1/15 '1 ',)*' (%;20*-',)*' 1//18 25') *60.d M X')- .,.'182',*.^ , ?12 '6.',1') .'=*-.12' 8 ,)',)1' 01>,- 2*' ,6;5),'D ') .'6>,.'6.'-*>1-0*0' 2',)*' 41.=*/.'M6X',)1' 21=,..,T M X B1)2T MKX ()*')- .,1/15 '1 ',)*' 6=1.,/*.% >' ?,)';*8 ' - ' ' " 'C +'D119.' '+X' ?69*.',)*',81'D*60.' 1//18 25' % ()*' *-.12'1 ')- .,' 6.',6;5),' 2',)*' 41.=*/.' 620' 2' 1;-' 1-0 .'6..*.,12.' 620' 2, ?6, 12.T K ()1' *-.12'1 ')- .,'6.',6;5),'D ',)*% =1../*.% -" '$ % '? % ' "'I" '- ' ' " ' 'D ' 'M.*>' 1?*-' ' ' " '+1/% ' =% K ._%T 620' >)6 ' ' ' " ' " ' ' # ' =% ' ._%T D1,)' 1 ' 8)1?' 6->' ;.*0' 2' 8)6,' 1//18.X% ' M %X 7 .,' >6//.') ?.*/',W1>' c1;'$ ' ' ? '620',) .' 2',)*') 5)*.',*2.*'6.' ?=/ 25',)1'0 ^ + 2 , '1 ') .'18(':=*-.12'M<6,,'L7+ ' NT L+ ' 4' X% / *' .' 21,' ?*-*/ ' ' .12' 1 ' 410'M6.' 6+ 0',)*' 9 25.' 1 ' .-6*/' 1-',)1'=-1=)*,.' 8*-*' .1' ., /*0XT 21,' ?*-*/ I' '1',)*' .12.'1 '410'D;,' -" '$ ',)*' 12/ ',)*' 8>//C D*/1+>0'0'M<6,,' T L+ ' T' LL ' KC X% 6+ 0 .' .12' .' 6+ 0 .' 1-0% ()1'=)-6.*' ' 12' 1 ' 410J')6.' ,)-**' ?*62 25.' 2',)*' . 21=,>6/ 41.=*/.d M X' &)6, ' ?6 'D*' >6)'0'*' ,)*'%" ' ?*62 25'M<6,,' 'KNT ;95' 'N X'D 6;.*')*')6.',) .' 26?*'D ' 26,,;-*' 620' 12' 6>^ >1;2,' 1 ',)*' ?10*' 1 ') .' D -,)% 'B1)2' ,' .' .6 0' ' :*'.)6//D*' //*0'8 ,)',)*' : 1/ ' 4)1..,' -1?') 7?1,)C *-.' 81?D J'M ;9*' ' X' 8)*-*',)*' *L .,*2>*' 1 ',)*' =*-.12' 1 ' B1)2' =-*>*0*.',)*' // 25' 8 ,)',)*' : 1/ ' 4)1.,% ;,' 1 'B*.;.' ,' .' .6 0',)6,'D*>6;.*')*' >1?*. 2,1'D* 25',)-1;5)',)*' =18*-' 1 ',)*' : 1/ ' 4)1.,'M ;9* 'N X'D*>6;.*')*' .'>12>* +*0'D ',)*' =18*-' 1 ',)*' : 1/ ' 4)1.,'M<6,,' 'K X' 620' .1' .' -1?'6'0 + 2*' *..*2>*')*')6.',)*' 26?*' 12' 1 '410'M ;9*' 'N 'NKXT ? ' "' ' M<6,,' 'NNXT 410')6.' 2') ?'-*0**?*0') .'=*1=/*'M ;9* ' X' *6 '6//' ?629 20'M ;9*' ' N X%I' 20' ,' .'21,' 12*' 1 ',)1'26,;-*.',)6,')6.',) .' 26?*'D;,',)*' *2, -*' =*-.12% ;,' 8)6,',) .' .'D '26,;-*' 620' 2' ,.*/ ',)6, ?;.,' ,'D*>1?*' ,)-1;5)' 6',-;/ ' ');?62'0*+*/1=?*2,% 1' 6-' 6.')*' +*- *.' 620' ?1-6// '-*6/ [*.',) .' 267-6/' 0 + 2*' 12.) ' 8*')6+*' MKX',)*' '?*62 25' 1 I)*' =)-6.*' ' 12' 1 ' 410 J' + [%',)*' " '.12.)A=' M ;9*' R' KT + 'N' RX% ()6,')*' 6/.1' 2',) .' .*2.*' =*-^ *>,/ '-*=-*.*2,*0',)*' 12.) =' 1 ' 410' 86. ' 1-',)*' , ?*' =-*>*0 25',) .'=;D/ >' ?*62 *..6, 12' 6,,*..*0'D ',)*' ,.,*-62>*' 6,') .' D6=, . ?' M<6,,' ' X% & ,)1;',)*' =) . >6/ .12.) =' 6.'6'=-*.;==1. , 12',)*',) >6/ 81;/0')*' ?=1.. D/*' 8)*-*D ')*' .',)*' : 1/ ' 2*' 1 ' 410',)*' . 2/*..' ?62' >1?*',1'D- 25' =*-.126// ' 2') ?.*/ ',)*' 0 + 2*' /68' 2,1' 6>,;6/ ?62 *.,6, 12' M<6,,' + ' XT D;',*+*2' 12',)6,'6>>1;2,' 2' 6'=*- *>,/ ');?62' 86 ' 2'6'=-15-*.. +*' ?62 *.,6, 12'60+62> 25',)-1;5)'>12^ / >,' M<6,,'L L' S T' <6-9' L' QT' ;9*' + ' NT L ' R' X% 1'MNX' 8 ,)1;,'D1,)',)*' =) . >6/' 620',)*' *,)^ >6/',)*' .12.) =' 81;/0' D*' ?=1.. D/*' 8)>)' >12+*-.*/ ' .' 6.' 26,,;-6// '620' 2*>*..6- / ',)*' *20' 1 ' D1,)',)*' 1,)*-.' 6.',)*' *,)>6/ .' 1 ',)*' =) . >6/% ()' ,) -0' ?*62 25' 1 ',)*'=)-6.*' .' 20**0',)6,'>1?12/ ' 6,,- D;,*0',1' ,'6.'6'0*. 526, 12' 1 ',)*' <*.. 6)'D 'D .' >12,*?=1-6- *.T D;',) .' 8 // 21,' A;., ';.' 2' -*0;^ >25',)*')- ., 62' 0*6' 1',)*' 0 + 2*' 12.) =' + ,)?' ,)*' ?*65-*'/ ? ,.' 1',)*' B*8 .)' 0*6.' 1',)*' <*.. 6)J' M 1?*-'+1/% ' K 5 ' *>' . ! (')' 6 % ' MK%X')- .,' >6//.') ?.*/ ' 6/.1' 620' ?1.,' >1?2/ ' % 8- '$ ' ' 'M6D1;',* 5),' ,?*.' '6// ,)*' 41.=*/7% **' 6 " (' ' .% %X% ()*' ;.*' 1',) .'=)-6.*' >/*6-/ '0*21,*.') .',-;*' 620' =*- *>,' ?62)D10% ;,' 8) '.)1;/0')- .,';-1' ,H' &) '>6//) ?.*/ ' 6'?62'H' .',' ,'21,'D*>6;.*' 2' ,)*' ? =0' 1 ')- .,',)*' .*2.*' 1 ');?6$' .12.) =' 86.' .*>1206-',1',)6,'1',)*'0 + 2*'H ;,'8) '>6//) ?.*/ ' 21,' .?=/ '?62' 1-',)*' .12' 1 ' '?62',P;,',)*' 12' 1 ' <62'H' .',' ,'21,'D*>6;.*')*' D* 25' 0 + 2*' >1;/0' 21,' %* .?=/ '6' ?62' / 9*' 1,)*-.' ?=*- *>,' 1-' *+*2' .2 ;/'H 1*.' 21,',)*' =)-6.*' 6.',) ;.';.*0' D ')- .,' 20 >6,*' 21,' .?=/ ',)6,',)*-*'/*.' 2') ?'1 '2*>*.. , '6'=*- *>,' *_;6/, ' 8 ,)' 1,)*-.' 2' 8)6,' .'*..*2, 6/ ,1') ;?62, ' D;',' 6/.1',)6, '6,',)*' .6?*', ?*')*' >1--*.=120.',1',)*' 0*6/ >12>*=, 12' 1 ' ?62HJ' M 1-2>-' % >%X% ()*' *LCI' =-*.. 12' " '$ ' ' 8)/*' ,' =/6>*.')- .,' ' 2' 12*' + *8' 12' >1?12' 5-1;20' 8 ,)' ;.' 6.' /*.)' 1' 1;-I' /*.)' 620' D12*' 1' 1;-' D12*' 6/-*60' 20 >6,*.' 6,',)1' .6?*', ?*',)6,')*' .' ?1-*',)62' 62' 1-0 26-' 20 + 0-' ;6/T 21,' ?*-*/ ' ' .12' 1 ' ?62' / 9*' 6// 1,)*-' 0*.>*20^ 62,.' 1 ' 06?'D;,' " ' 12' 1 ' <62' ,)*' <62' 2' ,)1') 5)*.,' .*2.*T ,)*' 0*6/',)*' ;2 +*-.6/',)*' 6D.1/;,*' < 62T ,)*' .*>120' 06?'0*.>*20*0' -1?') *6+*21' ,)*' :*60 1 '6'2*8'620' .;=*- 1-'1 /*-'1',)*'-6>*',)*' 25' 1' .-6,0',)*'<*.. 6)'' M >)6 ' %>%X% 1'6/.1'(-*2>)d : *' 86.' 1$ ' 'C (' 6.' 6/12*' -*6/ [25'6// 8)>)' 2',)*' 0*6'1 '?62'86.'>12,6 2*0'6.',)*'.*>120' 06?' ,)1')*60' 620' -*=-*.*2,6, +*' 1 ',)*' -6>* ' ,)*' 12*' ,-;*' 620' =*- *>,' /18*-' 8)>)' 1+*-' ;2 1/0*0' ,.*/ ' 1',)*' -11,'620',1>9'1 ') ;?62,E7' /6 ? 25',) .',/*' 6.'D .' 182')1' 8 ,2*..*0' 656 2.,' 1==1. .*' =1/*.' 1 '*--1-' >12^ >*-2 25') .'=*-.12 ',)*' D 12 ,*',1' 8)>)',)*' *L>/;^ . +*' ;.*' 1',)1',/*' ' 12' 1 ' 6+ 0 ' ? 5),')6+*' /*0' 620,D*' 421.,>'8)>)'0*2 *0',)*'-*6/ ,'1 ',)*');?62' 26,;-*',)6,'D1-*' ,%J 7 ' ' " ' 'R,)' *20' *0% =% Q % M<6,,' L' K T L+' KKT L ' KNT LLL ' RT LL ' .' % *,>%X' 7 ' ()*' 6==*//6, 12' " '$ ' ' '01*.'21,'>L=-*.W ,)*2' 6.' ?62' .;==1.*',)*');?/6, 12' 620' >120*^ .>*2. 12' 1 ')- .,' .?=/ ' ,;,') .' */*+6, 12' -6,)*-' 6D1+*',)*'1-0 26-'/*+*/'620',)*'6>,;6/ [6, 12' 2') ?' 620',)-1;5)') ?'1 ',)*' 0*6/.,6206-0'1 ');?62' 26^ ,;-*';20*-' ,.' ?1-6/620'-*/5 1;.' 6.=*>,'1-' 2' ,.'5>C

\6, 12',1'410‰ ( ) .' 2,*-=-*,6, 12' .'. ;55*.,*0'5-6?^ ?6, >6// 'D ',)*' ;.*' 1 ',)*'0* 2 ,* 6-, >/*'620') .,1-^ >6// 'D ',)*' 1- 5 2' 1 ',)*',*-?' 2' 62‰+ ' N'8)*-*' ,'. 52 *.',)*' <*.. 6) '6.',)*')*60'1 '6' ;2 +*-.6/'620' *,*-26/ 9 2501?‰ ,' >1? ?*20.' .*/ ' ?1-*1+*-' 6,' 12>*'6.',)*' ?1.,'26,;-6/'620'. 52 >62,' 2' .;>)'=6.^ .65*.' 67' I()*' 12'1 '<62')6,)'=18*-',1' 1-5 +*' . 2.' M<6,,' L'S'' <6-9' ' XT' ' ()*' 12'1 '<62' .' 1-0' *+*2'1 ',)*' 6DD6,)'06 'M<6,,'L 'QT' <6-9' 'KQXT' ' ()*' 12'0I<62' .)6// >1?*' 2',)*'5/1- '1 ') .' 6C ,) I()*' 12'1 '<62' .'>1?*',1'.6+*'M<6,,'L+ ' T' >1?=‰ ;9*'L L ' X' +*2',)1.*'=6..65*.'8)>)' 6-*' _;1,*0'1-',)*'1==1. ,*'+ *8' -*>* +*' 2'1;-' 2,*-^ =-*,6, 12'6'5-*6,*-' 1->*'620'D*6;, ' -1?',)*'.;D/?*' >12,-6.',8)>)'=/6>*.',)*'+1/;2,6- '>120*.>*2. 12'620');2;/ , '1 ')- .,' 2',)*'?1.,'.,- 9 25'/5),'6.'8)*2')*' .6 .' I 1L*.')6+*')1/*.'620'D -0.' 1 ',)*'6 -')6+*' 2*...'D;',)*' 12'1 '<62')6,)'21,'8)*-*',1'/6 'D.')*60' M ;9*' L'SQXT' 1-' `&)1.1*+*-' 8 // D*' >) * ' 6?125' 1;'/*,') ?'D*' 1;-'.*-+62,T *+*2'6.',)*' 12' 1 '<62'>6?*'21,',1'D*' ? 2 .,*-*0';2,1'D;',1' ? 2 .^ ,*-'620',1'5 +*') .'/ *'6'-62.1?' 1-' ?62 'M<6,,'LL' K KQXT' ();.',)*'?62)110'1 ')-.,'- . 25' 6-'6D1+*' 6//' 1-0 26- ' ?62)110',)1;5)' -**/' >1? 25'0182',1' ,.'/18*.,'-629.' 8 ,)',)*'+ *8',1',)* -' */*+6, 12'620' -*0*?=, 12' .' 6/-*60 ' ,)*' =1-,6/' 1 ') .' 410)*60‰J M >)6 ' ' " N ._‰X‰)-.,' 6/.1' 2' ?62 '=6..65*.'>6//.') ?.*/'. ?=/ ' ()*' 12 J'8)1' ..,620.',1',)*' 6,)*-' 2' -*/6, 12.' .1'=*>;/6-',)6,')*' 2*+*-'>6//.'410' ' ;- 6,)*-iJ'6.')*0-*>,.') .' 1//18^ *-.',1'01'D;,' < ' 6,)*-J' -1?'8)1?')*' -*>* +*0' 8 ,2*..'6,',)*'(-62. 5;-6, 12'6.',)*'12/ '620'8*//CD*^ /1+*0' 12‰ ?125',)*' '6.>-D*0',1')-.,' 2',)*' . 21=, >6/' 41.=*/.'M/*6+ 25'1;,') .' ? ; 6>/*.X'12*' 1 ',)*' ?1.,'.52 >62,' .',)*' 1-5 +*2*..' 1 '. 2.' 8)>)')*' >/6 ?.'6.') .'6,,-D;,-*'6.',)*' ' 12'1 '<62J'M<6,,' L' S T ;9*'+'K 'K XT' 620' 8)>)',)*')6-.**.' >12. 0*-*0' D/6.=)*?1;.'6.'8*//,)*' ?5),' ')-.,')60'D**2'. ?=/ '?62‰ 2' 2.,,;,25',)*'-,*' 1'D6=*, .?')*'=;,.') .'182',/*' ' 12 J'6/125'8,)',)6,'1' ,)*' 6,)*-'620'1',)*' :1/ '4)1.,‰ ;-,)*-')*'6.^ >-D*.',1')?.*/'6'=18*-' 2 2,*/'D* 120',)*');?62' 620' 2',) .'-*.=*>,'=;,.') ?.*/'12'62'*_;6/, '8,)' 410'M ;9*'d'KKT' <6,,'LL+ ' Q‰M 1-2>-' ‰%X‰ **' ' ' ! K‰D " (' ? % ‰' :*-*',' .'21,'2*>*..6- ',1'0/6,* 6.'8,)'-*56-0',1',)*' 21=, >6/'41.=*/.' 26.?;>)'6.' 2' ,‰B1)2',)*')- .,1/15 >6/'01>,- 2*C,69*.'6'?1-*' 0* 2,*' '21,'?1-*'.>*2, >' 1-?'620',.',*6>) 25' .' 21,' ?6,,*-' 1'0.=:,*' 6,'/*6..',1',)*' .6?*'*L,*2,‰ B1)2.'41.=*/,*6>)*.',)*'=-*C*L .,*2>*'1')-.,‰ ``' ,' 6.>-D*.',1',)*' 12'21,'?*-*/ '6'?1-6/'D;,'62'*..*2, 6/ 0 + 2 , T 6'21,'?*-*/ '*>121? >6/'D;,'62'12,1/15 >6/ 1-'?*,6=) . >6/-*/6, 12',1',)*' 6,)*-‰ ,'6/.1',*6>)*.' ,)*',-;*'?62)110'1 ')-.,I'620',' =*-*>,') .,1-'6/ -*6/, T 620' 26// ',)6,',)*' 12'8 ,)',)*' 6,)*-'620' ,)*' :1/ '4)1.,'>1?=/*,*',)*'*20'1'>-*6, 12' 2',)*' -*>12> / 6, 12' 1' ?62' 8 ,)' 410'MB1)2' ' K' ' Q \>1?='L+ 'Kh T' 'NK' T' +'ST' +'KS'K T' +' NT + ' ST' L' 'NN T' L' N T' L +'KN T' L L'KS' N T' LL' XJ' M 1-2*-' T' >‰T /11? *0'@ ' .3 ' ' '*' ? % ' '$!D " '\ QKN K?1h T' 60/*-'6 '>)‰ 'g N \ 1200‰ QS 'Q+1hX‰ N‰ -" ' &% ! ' M X' ,‰ 6OU'5 +*.').',*., ?12 ' D1,)'6.',1',)*'0 + 2 , '620',)*' ;?62 , '1')- .,') .' .12.) =' 620' 2.' <*.. 62 > 81-9'6.' ;// '6.' ,‰B1)2' *.=*> 6// ' .*,, 25' 1-,)',)*'=;-*/ ')- ., 62' 0*6'1 ',)*'<*.. 6)'M 1?‰ 'NT' +'SC T' +'NC T' L' T' + ' NT' 1-‰ ' T' + 'ST' L' ST' L+'NCQ'\>1?=‰ >,.'LL ' QC hT' 1-‰L+' '\' 1-‰ ' NC QT' K 1-‰+' SC Rh T' 46/‰+' ' T' =)‰ 'K CKNT')/' 'S C 1/‰ ' C '*,>‰T>1?=‰ :*D‰ 'S C KX‰ 7 ()*',*., ?12 '1' 6;/.' 8*//.,6,*0' D ' 60/*-'6 '>)' 'g K‰ **'6/.1' 1-2*-' 'S ‰ MKX' ()*' = ./*' 1 'D4= ')6.'D**2'>6//*0'62' D 12 C , .)' 41.=*/'6.' ',.')- .,1/15 '8*-*' 1'6'/18*-', =*‰ ;,' B6?*.'*+ 0*2,/ ' =-*.;==1.*.',)*' " '6.')6 5-1;20 81-9'1 ',)*' *,) >6/ ,*6>) 25' 8) >)' .',)*' ?6 2' 1D4*>,'1 ') .'*= ../*‰ : *'>6//.')- ..,' 1;-' 1-0'B*.,;')- .,1/15 >6/ 01>,- 2*C,69*.'6' ?1-*' 0* 2,*' '21,'?1-*'.>*2, >' 1-?'620' ,.',*6>) 25' .' 21,' ?6,,*-' 1' 0 .

If ' " ! ' Y ' 1 ' 4 ' N ' " ' ! ' " ' ' 2 ' @ ' ' ' ' ' %= ' ' ' $ ' ' =
' ` ` ' 1 ' ' ' " ' 1 ' ' % ' ' =
% " ' * ' 1 ' " ' 1 ' ' ' 1 ' ' ' =
)1?1 ' ' ' N ' ' ' % ' ' ' ' ' =
' ' % 2 ' ' ' ' ' ' ' " # ' ' =
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' " ' % 1J(
( ) *' -+ Z A ' & ' 1 ' ,) *') ; ->) ' 1 ' 25/620 '
-, ' ' ,) *' & 1-0 ' 1 -' 12 ' 1 ' 410 ' 38) >) ' 86. ' ?60 *'
+*- ' ? 62 T
7 ( ) *' 12 ' 8) >) ' . ' ,) *' & 1-0 ' 1 ' ,) *' 6,) *- ' D*51,, *) ' -1?'
*77/6. , 25 ' 1 ' ,) *' 6, / >- ' ,) *' +*- ' 620 ' *, *-26/ ' 410 ' 620 ' 1 '
12*' . ; D. , 62>*' 8 ,) ' ,) *' . ; /, *- ' , 119 ' ? 62 . ' 26, ; -*' 2' ,) *'
81?D 1 ' ,) *' D/*. . *0 ' -5 2 ' 1 ') *-' . ; D. . 62>*a ' . 1 ' ,) 6, ' , 81 '
8) 1/*' 620 ' =*- *>, ' 26, ; -*. ' ,) 6, ' . ' , 1 ' . 6 ' ,) *' 410) *60 ' 620 '
?62) 110 ' 8*-*A1 2*0 ' , 15*,) *-' 2' 12*' *-. 12 ' ? 2*+*-' , 1 ' D*0 ^
+ 0*0 ' 8) *-*1 ' . ' 12*') - . ' , +*- ' 410 ' 620 ' +*- ' ? 62 ! 8) 1 '
, - ; / ' . ; *-*0 ' 86. ' >2 > *0 ' 0*60 ' 620 ' D ; - *0 ' , 1 ' -*>12> /*
) . ' 6,) *- 1 ' ; . ' 620 ' , 1 ' D*' 6 ' .6>- >*' 21, ' 12/ ' 1 -' 1- 5 26/
5 ; /, ' D ' ; ' 6/. 1 ' 1 -' 6>, ; 6/ . 2 . ' 1 ' ? *2%J
% ( ) *' ' ' 8) >) ' 5 +*. ' ,) *' >/*6-^
. ' 620 ' . , -125. , %*L=-*. . 12, 1 ' ,) *' 6 ,) ' 1 ' ,) *' . , - >, / '
* 1-?*0 ' 1 -' 6/+ 2 . , >' >) ; ->) *. ' ,) ; ' . , 6, *. ' ,) *' 01>^
, - 2*' 1 ') - . , . ' =*- . 12 ' 2' >) % + ' g Ka
( ) *' 12 ' 1 ' 410 ' ,) *' . *>120 ' =*- . 12 ' 2' . ,) *' (- 2 , D* 25 '
+*- 620 ' *. *-26/ ' 410 ' 1 ' 12*' . ; D. , 62>*' 620 ' * , ; 6/ 8 ,) ' ,) *'
6,) *- ' 0 0 ' 8) *2' ,) *' ; /2*. ' 1 ' , ? *' 86. ' >1?*' , 69*' ; = 12'
) ? ' ?62 . ' 26, ; -*' 8 ,) ' 6/ ' ,) *' *. . *2, 6/ =-1=*-, *. ' 620 ' >1?^
?12' , -? , *. ' ,) * *1 ' *. ' 8 ,) 1 , ' . 2 ' D* 25 ' >12>* +*0 ' D '
,) *' : 1/ ' 4) 1. , ' 2' ,) *' 81?D 1 ' ,) *' -5 2' < 6- ' 1 ') *-' . ; D^
. , 62>*a ' . 1 ' .) 6, ' , 81 ' 8) 1/*' =*- *>, ' 620 ' 0 . , 2>, ' 26, ; -*. ' ,) *'
410) *60 ' 620 ' .) *' ?62) 110 ' 8*-*' 2. *=6-6D/ ' A1 2*0 ' , 15*,) * '
2' 12*' =*-. 12 ' 8 .) 1 ; ' >12+*-. 12 ' >1?=1. / 12 ' 1 -' >12 ; . 12%
&) >) ' =*-. 12' . ' +*- ' 410 ' 620 ' +*- ' ?62 ' *, ' 12*') - . ' ,) *'
12/ ' < 7 6, 1 -' D*, 8 **2' 410 ' 620 ' ? 62%J
( ) *' KO ' -, >/*' 1 ' ,) *' < *,) 10 . ; ' = . >1=6/') ; ->) '
. ' ,) *' . 6 ?*' 6. ' ,) 6, ' 1 ' ,) *') ; ->) ' 1 ' 25/620 ' *L>*=, '
,) 6, ' ,) *' 81-0. ' D*51, , *2' -1?' *+*-/6. , 25 ' 1 ' ,) *' 6^
,) *- J' 620 ' 1 ') *-' . ; D. , 62>* J' 6-*' 1? ,, *0' M=-1D6D/ '
D ' , =15=6) >6/' *--1-X%
2' ,) . ' 5*2*-6/' D6. ' 1 ' ,) *')6) >*012 62') - . , 1/C
15 ' 600 ' 1//18 25',) *' 20 >6, 12. ' 1 ' ,) *' >- =, ; -*. ' 6. '
,) *' 12/ ' -; /*' 1 ' 6 ,) ' ,) *' ; ,) *-62' 620' * 1-?*0'
>) ; ->) *. ') 6+*' D ; /, ' . 1 ?*' 600 , 126/ ' + *8 . ' 1-' 0*+*/^
1=*0' 2*8' 6. =*>, ' 1 ') - . , . ' =*-. 12% -1, *. , 62, . ?'
>6221, ' >12. . , *2, / ' 601=, ' 62 ' 01>, - 26/ 1-' 0 .> =/ 26- '
0*>. 12. ' 1 ' ,) *') ; ->) ' 6. ' . , - >, / ' 2 6// D/*' 620' 6. ' 62'
6D. 1/; ' -; /*' 1 ' 6 ,) ' ,) *' ; ,) *-62' 620' * 1-?*0'
- 5) , ' 1 ' ; -,) *-' -*. *6->) ' 620' 8 ,) ' ,) *' ; 20*-. , 620 25'
1 ' 6' >12. , 62, ' =-15-*. . ' 2' ,) *1/15A ' 21, ' 20**0 ' 1 ' 6'
=-15-*. . ' D* 120') - . , ' 620' ,) *' D/*' D ; ' 2' ,) *' *+*-C
0**=*2 25' 6==-*) *2. 12' 620' . ; DA*>, +*' 6==-1=- 6, 12'
1 ') - . , ' 620') . ' 2 6// D/*' 81-0% ( ) *-*' . ' 6' >) 6-6>^
, *- . , >' 0 *-*2>*' D*, 8 **2' ,) *' D- . , 1/15 ' 1 ' ,) *' ; ^
,) *-62' 620' ,) 6, ' 1 ' ,) *' * 1-?*0' 12 *. . 12. ' 8) >) '
6 *>, . ' ,) *' 8) 1/*' . . , *?% $=12' ,) *' 8) 1/*' 8*' ?6 '
. 6 ' ,) 6, ' ,) *' 1-?*-') 6. ' 6 ' /*62 25', 186-0. ' ,) *' ; , >) C
62' >12 ; . 12' 1 ' ,) *' 0 + 2*' 620') ; ?62' 26, ; -*. ' ,) *' /6, ^
, *-' , 1',) *' *. , 1- 62' .*=6-6, 12' *, ' D1,) ' 0 . , 2>, /
0 . 18 2' ,) *' ; , >) 62' 620' *. , 1- 62') *-*. *. % M 2'
,) *' 0 *-*2>*' D*, 8 **2' ,) *' ; ,) *-62' 620' * 1-?*0'
) - . , 1/15 ' >1?=6-*' *. =*> 6// ' ,) *' +*- ' 6D/*' 620'
6>; , *', -*6, . *' 1 ' >) 2*>9*2D ; -5*-' ' ' " O " '
%% 2 $ ' " ' +' " " ' -*C
' @ ' \ 1-[) * ? ' KO ' *O% QS h' 6/. 1') . '
N " ' ' ! ' " " ' O% '
" " 1' *0 , *0' D ' 4 ; 0*-' \ , ; ,, 56-, ' Q h%X ( ) *'
=-15-*. . ' ?60*' 2') - . , 1/15 ' . 2>*' ,) *' * 1-?6, 12'
8 ,) 2' ,) *' / ? , . ' 1 ' ,) *') 6) >*012 62' 1-,) 101L ' 1-'
6, ' 6// ' *+*2, . ' 21, ' 2' >12 / >, ' 8 ,) ' , ' -*/6, *. ' , 1',) *' >1?^
? ; 2 12' 1 ' ,) *' , 81' 26, ; -*. ' 620', 1',) *' . , 6, *. ' 620',) *'
1 >*. ' 1 ' "H- . ,
M6X' ( ) *' 01>, - 2*' 1 ' ,) *' ' 1',) *'
>1? ? ; 2 >6, 12' 1 ' 6, , - D ; , *. ' 1-' =-1=*-, *. ' 1 ' 12*' 26^
, ; -*', 1',) *' 1,) *-' 1-', 1',) *' 8) 1/*' =*-. 12% ( ) *' D*5 2^
2 25' 1 ' , ' ?6 ' D*' 1 ; 20' 2' - / ' 1 ' /*L620- 6' 620'
B1) 2' 1 ' 6?6. >; . ' D ; , ' , ') 6. ' D*D2' ? ; >) ' ?1-*' ; // '
% ' D ' ,) *' ; ,) *-62') ; ->) ' 2' ,) *' 2, *-*. , ' 1 '
) *-' =*>; / 6-', *2*, ' 1 ' ,) *' ; D _ ; , ' 1 ') - . , . ' D10 ' 2'
1-0*-', 1' . ; ==1-', ; ,) *- . ' *; >) 6- . , >',) *1- ' 1 '>12. ; D(
. , 62, 6, /12' . 1' >6// *0% , ' 86. ' *?D10 *0' 2',) *' @ 1'
' 61' D ; , ') 6. ' 2*+*-' D**2' 601=, *0' 2',) *' *^
1-?*0' 1-' 6/+ 2 . , >' >) ; ->) *. % ( ) *' ; ,) *-62' 0 + 2*. '
0 . , 25 ; .) ' ,) -**' 9 20. ' 1 ' ,) *'
8) >) ' . ' 0*- +*0' -1?' ,) *' S M X' =
' ' M1 ' - *-) 1' 8) *-*DE ' ,) *' =-1=^
*-, *. ' 1 ' 12*' 26, ; -*' 6-*', -62. *--*0' 620' 6==/ *0', 1',) *'
8) 1/*' =*-. 12' M 1?% ' NT' ' * >% ' QT WI XT MKX' 9
' % ' I) , -- -) 8' 8) *-*D ' ,) *' Z -1C
- O % ' % *% ,) *' -*0*?=, 1- ' ; 2>, 12. ' 620' 6>, 12. '
8) >) ' D*/125', 1',) *C 8) 1/*' =*-. 12' 6-*' =-*0 >6, *0' 12/ '
1 ' 12*' 1-' ,) *' 1,) *-' I26, ; -*' M ' (?% ' ' . _ %T : *D% ' K'
. _ T MNX ' " ' I 1 %) 8' 1-' * =
1' 8) *-*D ' ,) *') ; ?62' 26, ; -*' . ' >/1,) *0' 620'
?652 *0' D ' ,) *' 6, ,- D ; , *. ' 1 ' ,) *' 0 + 2*' 26, ; -*' MB1) 2'
' NT + ' K T < 6, , ' LL+ ' Q ' K T 1?% L ' T) / '
' X% $20*-',) . ') *60',) *' ; ,) *-62') ; ->) ' >/6 ? .'
6' >*-, 6 2' ; D _ ; , ' 1-' 1?2 =-*. *2>*' 1-' ,) *' D10 ' 1 '
) - . , ' 12' ,) *' 5-1 ; 20' 1 ' , . ' =*-. 126/ ; 2 12' 8 ,) ' ,) *'
0 + 2*' 26/ ; -*T *' , ' .) *' ?69*. ' ,) . ' ; D _ ; , ' 0*=*20*2,'
12' ,) *' 8 // 1 ') - . , ' 8) 1' 062' D*' =-*. *2, ' 8 ,) ') . '
8) 1/*' =*-. 12' 8) *-*+*-') *' =/*6. *. ' , 1' D*' 1-') 6. ' =-1?^
. *0' , 1' D*% ; ' 1-' ,) . ' +*- ' -*6.12' ,) *' * 1-?*0'
0 + 2*. ' -*A*>, ' ,) *' 8) 1/*' 01>, - 2*' 1 ' ,) *' '
' 620' =-121 ; 2>*' ,) *' 0% % ' 1 '
, 1' D*' ?*-*' 5 ; -*. ' 1 ' . =**>) ' MOdd1, 1 (, >' 6' -) *, 1- >6/'
L>) 625' 1 ' 12*' =6-, ' 1-' 621,) *-X% ** 16-. $ > C
(1 ' ? !
M X' ( ) *' 01>, - 2*' 1 ' 6' , 81 1/0' ' 1 ') - . , ' ,) *'
. , 6, *' 1 ' " ' 620' ,) *' . , 6, *' 1 ' ! ( ) .'
. ' D6. *0' ; =12') / ' SCR ' 620' . ' 21' 01 ; D, ' . ; D. , 62^
, 6// ' , -; *% ( ) *' 'B ' I" (8'
* ?D-6>*. ' ,) *' . ; =*-26, ; -6/ >12>*=, 12 ' D -,) ' > -> ; ?^
> . 12 ' *0 ; >6, 12 ' *6-,) / ' / * ' =6.. 12 ' 0*6,) ' 620' D ; -^
6/ 1 ') - . , T ,) *' ' 2>/ ; 0*. ' ,) *' -*. ; -^
-*>, 12 ' 6. >*2. 12 ' 620' ,) *' . ,, 25' 6, ' ,) *' - 5) , ') 620'
1 ' 410 ' . ', 1' ,) *' 0*. >*2, 2, 1') *// 1-' : 60*. *-6,) *- '
,) *' ; ,) *-62' 620' ,) *' * 1-?*0' >) ; ->) *. ' 0 *-' 6>>1-0^
25', 1',) * -' 0 *-*2, ' >12>*=, 12. ' 1 ' ,) . ' 0 >; /, ' 6-, >/*'
2',) *' =1. , /*. ' -**0% ( ) *' ; ,) *-62' 12 *. . 12. ' -*^
6. 50 25' , 6. ' 6' , - ; ? =) ' 1+*-') *// ' ?69*',) *' '
' ,) *' -. , ' . , 65*' 1 ' ,) *' ' 8) /*'
,) *' * 1-?*0' 12 *. . 12. ' + *8' , ' 6. ' ,) *' /6. , ' . , 65*' 1 '
,) *' ! ' . ' =-1= *-/ ' ,) *' , ; -2 25C
=1 2, ' -1?' ,) *' 12*' . , 6, *' , 1',) *' 1,) *-' 620',) ; . ' D*/125. '
, 1' D1,) % ( ) *' ; ,) *-62' -**0' ?1-*1+*-' -*' *-. ' ,) *'
, 81' . , 6, *. ' 12/ ' , 1',) *') ; ?62' 26, ; -*' 1 ') - . , ' -*56-0^
25' ,) *' 0 + 2*' 6. ' 21, ' . ; . >*=, D/*' 1 ' 62 ') ; ? / 6, 12'
1-' *L6/, 6, 12% ( ) *' * 1-?*0' . ?D1/. ' -* *-',) *?', 1'
D1,) ' 26, ; -*. ' . 1' ,) 6, ') - . , . ') ; ?62' 26, ; -*' 86. ' 2' 6'
. , 6, *' 1 ') ; ? / 6, 12' 6. ' >1?=6-*0' 8 ,) ' , . ' ; , ; -*' *L6/^
, 6, 12 ' 620') . ' 0 + 2*' 26, ; -*' 86. ' 2',) *' . , 6, *' 1 ') ; ? /^
8! & ,) ' B/ *?',) *' 2>6-26, 12' , . */ ' . ' ,) *' D*5 2^
2 25' 1 ' ,) *' . , 6, *' 1 ') ; ? / 6, 12 ' 8) /*' ,) *' ; ,) *-62'
. ?D1/. ' *L>/ ; 0*' ,) *' 2>6-26, 12' -1?',) *') ; ? / 6, 12%
*, 8 **2' ,) *' ; ,) *-62' 0 + 2*. ' 1 ' (; D 25*2' 620' 4 *. ^
. *2' ,) *-*' 86. ' 6' >12, -1+*-. ' 2' ,) *' ,) ' >*2, ; - ' 6D1 ; '
,) *' _ ; *. , 12' 8) *,) *-') - . , ' 2' ,) *' . , 6, *' 1 ') ; ? / 6^
, 12' *2, -*/ ' 6D. , 6 2*0' -1?',) *' ; . *' 1 ') . ' 0 + 2*' 6, ^
, - D ; , *. ' M -8*- X' 1-' 8) *,) *-') *' ; . *0' ,) *?' . *>-*, / '
M9=; f V 5X% ( ) *' 0 + 2*. ' 1 ' 4 *. . *2' 0*' *20*0' ,) *' 1-?*-'
,) 1. *' 1 ' (; D 25*2' ,) *' /6, , *-' + *8% 1,) ' .>) 11/. ' 8>-1'
65-**0' 6. ' , 1',) *' =1. . *. . 12' I 8' 0 *-*0' 12/ '
6. ' , 1',) *' ; . *' /7) *' 0 + 2*' 6, , - D ; , *. ' ( ) .
>12, -1+*-. ') 6. ' D**2' -*2*8*0' 2' 6' ?10 *0' 1-?'
6?125' -*>*2, ' 4*-?62' 0) 2*. % *** 1 !
M>X' ( ) *' ,) -** 1/0' ' 1 ') - . , % M X' ( ) *' % %" C
' 1 >*' I ' 1-' ' % %" 8' 2>/ ; 0*. '
, *6>) 25' 620' ,) *' ? -6>/*. ' 1 ') - . , % MKX' ( ) *' % 2 '
1 >*' I ' (8' >12. . , ' 2' ,) *' . 6, . 6>, 12'
?60*' 1-' ,) *' . 2. ' 1 ' ,) *' 81-/0' D ' ,) *' 0*6,) ' 12' ,) *'
>-1. ' 620' 2' ,) *' >12, 2 ; *0' 2, *->*. . 12' C1 ' ,) *' *L6/, *0'
6+ 1 ; -' 1-') . ' =*1=/*' I % ' ' "' C
8! MNX' ( ) *' + ' 1 >*' M?628. ' 8' +) *-*C
D ') - . , ' 1 ; 20*0') . ' 9 2501?' 0*. *20. ') . ') ; ->) '
656 2. , ' 6// *2*? *. ' 620' -; /*. ' 6// ,) 25. ' 2') *6+*2' 620'
12' *6-,) % ( ) *' 1/0' 0 + 2*. ' 0 . , 25 ; .) ' D*. 8 **2' ,) *'
-*52' 1 ' 26, ; -*' I ' ' 5 +*' B=17>27> X' 8) >)

?D-6>.' 6//' ,) 25 .† ,)*' -* 52' 1 '5-6>*' 1 ' 1' ,6CX' 8) >)' -*/6,*.' ,1' ,)*' >) ; ->)' ? / ,62, ' 12' *6-,)† 620' ,)*' -* 52' 1 '5/1- ' V12>>X' 8) >)' D*/125. ,1' ,)*' >) ; ->)' , - ; ? =)62, ' 2')*6+*2 ')- .,0/15 >6/ .=*>;/6, 12.' $=12' ,)8)1/*' ,)*' 1-,)101L' 01>,- 2*')6.' /6 0' ,)*' ?6 2' .,-*'. ' ;=12' ,)*' 0 + 2*' */*?*2,' 2')- .,' 6 0' /* , ',)*') ; ?62' */*?*2,' 2')- .,' 1- ',1' ,)*' 0 + 2*' 1-' ,1' ,)*' 0 + 2*' 1-' ,81' D 12 . ? ' 1> 2 62 . ?' 620' 6, 126/ . ? ' 2' , .' +6- 1; . ' .)6=*. ' 0*2 ' * ,)*-' 2' 8)1/*' 1-' 2' =6-, ' ,)*' 0 + 2 , '1 ')- ., ' 421., > . ?' <62>) . - . ?' =1// 26C - 62 . ?' 0*2 ' ?1-*' 1-' /*. . ') . '-*6/) ; ?62 , 7' 8) /*' *. ,1- 62 . ?' ; . >) 62 . ?' <121=) . , . ?' 620' - 1C' 21,)*/*, . ?'60? ,',)*' 410)*60'620' ?62)110'1 ')- ., ' D ; ' =/6>*' ,)*?' 2' 6' 6/.*' -*/6, 12', 1' *6>)' 1,)*-' 1' =-*. *2',)*?')*-*' 2' >)-121/15 >6/ 1-0*-% W! > ' M.**' ,)6, '6-, >/*X' ,)*' *6-/ *.,')- ., 62')*-*. '86.' *..*2, 6/GE'B*8 .) ' 620' /119*0' ;=12')- .C' , 62 ,E' ?*-*/ ' 6.' 6' =*- *>,*0' B ; 06 . ? ' ;=12' ,)*' 41.^ =*/ 6.' 6' 2*8' /68 ' 620' ;=12')- .,' 6.' 6' .*>120' <1.*.% - 5*2' 0*- +*0' ,)*' 26?*' 1 ' ,)*' .*>,' -1?' ,)*' =1+*-, ' 1 ' ,)* -' 01>,- 2*' 1 ')- .,' MA 7 d '% 8!' D ; ' ,)* '-*C' 1 56-0*0' ,)*?.*/+*.' 6.' ,)*5*2; 2*' 1//18*-.' 1 ',)*' =11-')- .,# ( )* ')*/0' ,) 6, 'B*. ' ; .' 86. ' 20**0' ,)*' =-1?^ .*0' <*.. 6) ' ,)*' 12' 1 ' 6+ 0 '620' ,)*' . ; =-*?*' /68^ 5 +*-' 1 ' ,)*') ; ->) †>, ' 6' ?*-*' ? ,2' ,)*' .12' 1 'B1^ .*=)' 620' <6- '620' ,) 6, ') .' 0*6,)' D60' 21' 6,12 25' > I' >6> % & ,)' ,) .' 8*-*' >/1.*/ ' >122*>, *0' 1,)*-')*-*^ . *.% ( )*'% 1 J ' # ' M.**' L 3' 0 *-' -1?' ,)*' 1-0 26- ' D 12 . ?' D ' =*>; / 6-' .=*>;/6, +*' 620' .*? C421., >' 0*6. ' 620' , *6>)' ,) 6, ')- .,' 86.' ,)*' /6. ' , 62A0') 5)*.' , -*=-.*.*2,6, +*' 1 ' ,)*' =- ? , +*' -*/ 5 12' 8) >)' 6==*6-*0% 2' ,)*' .*+*2' = //6-.' 1 ' ,)*' 81-/0' 06? ' 21>) ' 16) ' D-6)6? ' .66>' B6>1D ' <1.*. ' 620')- .,# ( )*.*' 6-*' 2' -*6/ ,EW 12/ ' 0 *-*2,' 2>6-26, 12.' 1 ' ,)*' ' 6?*' 06? ' 1-'=- ? , +*' ?62 ',)*' , -; *' =-1=)*, ' 1 ' 410%)- ., 62 , ' 620' <1C' .6 .?' 6-*' 0*2, >6/ ' 620'D1,)' >1 2> 0*' 8 ,)',) *' , *' 5 12' 1 ' 06?% &) *,) *-' 6' ? 62' D*/ *+*' 2' <1.*.' 1-')- .,' .'6/ ', *.6?*' =-1+ 0*0') *' D/6.=)*?*'2*, *-%)- .^ , 62 , ' .' 62' 60+62>*' 12/ ' 2' *L, *20 25',) .' =- ? , +*' -* 5>, ' ,1',) *' 4*2, /*.' M>1?=% >)/ *?622 ' ' J ' 6 ' Q ' =% N7K C KX V! & ' 8) >)' /1; - .) *0' 2',) *' .*>120' >*2^ , ; - ' M.**' 6-, >/*X' +6- *0' 2' ,.')- .,1/15 '6>>1-0 25', 1' , .' 2; ?*-1; .' .>)11/.' 1 ' *- 2,) ; . ' 6. / 0*.' 6/*2, 2*' <6-> 12 ' *, >% ' 620' 5*2*-6// ' 0*6/, ' ?1-*' 2' +65; *' 21^ , 12.' 620' .=*>; /6, +*' 62> *.',) 62' 2' .1/ 0 ' >/*6-/ C0*^ 2*0' 01>,- 2*.' 620' 6-5; ?*2, .% ; ' , .')- .,1/15 ' 86.' 6' -60 >6/ 0*2 6/ 1 ',)*' ? .,*-E' 1 ',)*' 2>6-26, 12 ' 620' ,)*-* 1-*' 62, C)- ., 62 ' 6>>1-0 25', 1',)*' >- ,*- 12' 1 ' B1) 2' MB1) 2' ' X' 6/,) 1; 5)' -1?' 6' + *8',)*' ' 1=* =1. ,*' 1 ' D 12 . ?% &) /*' ,)*' /6, ,*-' 0*2 *0',)*' 0 ^ + 2 , ' 1 ')- ., ' 421., > . ?' 86.' ' M)*2>*' ' J E' % *% ' , 0*2 *0' ,)*' -*6/2*.. ' 1 ')- ., . ') ; ?62' 26, ; -*' 620' -*. 1/+*0' , ' 2, 1' 62' *?=. ')18' 620' 0*x=^ , +*' 6==*6-62>*' I$) * ' I% - % 81' 1-' 6' , -62. *2, ' + . 12' 6 , *-' ,)*' ?622*-' 1 ' ,)*' 20 62' < ,)1/15E% ( )*' -*6/ / - ., ' 1-' 6+ 1 ; -' . ' 12*' 1 ' ,)*' .*12.' 1-' 0 ^ + 2*' =18*-. ' 8) >)' * ,)*?62' D10 ' 8) >) ' 6. ; ?*0' , . ' .=*>, -6/ 1-?' 1 ') ; ?62 , ' 1-' ; 2 , *0') ?.*/ ' , *?=1-6- / '6, ',)*' D6=^ , . ?' 2' B1-062' 8 ,)' ,)*' ?62' B* . ; .' 1 ' 6[6-*,) ' , 1' 1-.69*') ?' 656 2' 6', ,)*' =6.. 12% ; ') *' *2, *-*0' 2, 1' 21' -*6/ >12, 6>, ' 8 ,)' 6') ; ?62' D10 ' 8) >) ' 6. ' 6' =6-, ' 1 ' ?6, , *-' M; HTX' 86.' -*56-0*0' 6.' *..*2, 6// ' *+ / 620' 62, 6512 . , >', 1' 4 10') *' 86.' 21, ' 6>, ; 6// ' D1-2 ') *' 0 0' 21, ' . ; *-' 620' 0 * ' 21-' - . *' 656 2% : *' 6==*6-*0' / 9*' 6' ?*, A *1-' -1?',)*' .9 ' , 1' 0 .6==*6-' 656 2% B/>0 ; >*0', 1' 6' =10*?' =) /1.1=) >6/ ' >12>*=, 12 ' ,)*' 421., > ')- .,' . ' 2' ,)*' *20' 21,) 25' ?1-*' ,)62' ,)*' 0*6/ .= - , ' 1 ' ?62') ?.*/ ' ,)*')- .,' 1 ' , -6 ; . ' 220' ?10*?' =62^ ,)*' .?% 6/*2, 2 ; . ' ,)*' ?1., ' 25*2 1 ; ' 6?125', ,)*' 421., > . ' 0 ., 25 ; .) *0' ,)*' ' O% 1' ')*6+*2/ ')- .,' 1' ,)*' >8(7=' 1-' B*. ; .' 620' ,)*') 8' O% ' ,)*' B*8 .)' <*.. 6) ' 8) 1' =6..*0' ,)-1 ; 5)' ,)*' D10 ' 1 ' <6- ' 6.' 86, *-' ,)-1 ; 5)' 6' = =*' 620' 86.' >-; > *0' D ' ,)*' B*8 . ' 6/,) 1 ; 5) ') 6+ 25' 21' ?6, *- 6/ D10 ') *' 0 0' 21, ' 6>, ; 6// ' . ; *-% & ,)') ?' 1, *-7' ,)*' =-1=*-' -*C

' ' ' ? 11' 2' ; / " ' ' ' + ' ' ? / ' I7 * =[5' QS h%X % : (4 ' : % ( )*' 2 ; ^ ?*-1 ; ')- .,1/15 >6/ *--1-.' ?6 'D*' 0 + 0*0' 2,1',)-**' >%..*. ' 6>>1-0 25' 6.',) * '-*/6,*' * ,)*-', 1',)*' 0 + 2*' 1-' ,1',)*') ; ?62' 26, ; -*' %1 ')- ., ' 1-', 1',)*' ;2 12' 1 ',)*' ,81% D 12 . ?' 1> 2 62 . ?' 620' 6, 126/ . ?' 2' , .' +6- 1; . ' .)6=*. ' 0*2 ' * ,)*-' 2' 8)1/*' 1-' 2' =6-, ' ,)*' 0 + 2 , '1 ')- ., ' 421., > . ?' <62>) . - . ?' =1// 26C - 62 . ?' 0*2 ' ?1-*' 1-' /*. . ') . '-*6/) ; ?62 , 7' 8) /*' *. ,1- 62 . ?' ; . >) 62 . ?' <121=) . , . ?' 620' - 1C' 21,)*/*, . ?'60? ,',)*' 410)*60'620' ?62)110'1 ')- ., ' D ; ' =/6>*' ,)*?' 2' 6' 6/.*' -*/6, 12', 1' *6>)' 1,)*-' 1' =-*. *2',)*?')*-*' 2' >)-121/15 >6/ 1-0*-% W! > ' M.**' ,)6, '6-, >/*X' ,)*' *6-/ *.,')- ., 62')*-*. '86.' *..*2, 6/GE'B*8 .) ' 620' /119*0' ;=12')- .C' , 62 ,E' ?*-*/ ' 6.' 6' =*- *>,*0' B ; 06 . ? ' ;=12' ,)*' 41.^ =*/ 6.' 6' 2*8' /68 ' 620' ;=12')- .,' 6.' 6' .*>120' <1.*.% - 5*2' 0*- +*0' ,)*' 26?*' 1 ' ,)*' .*>,' -1?' ,)*' =1+*-, ' 1 ' ,)* -' 01>,- 2*' 1 ')- .,' MA 7 d '% 8!' D ; ' ,)* '-*C' 1 56-0*0' ,)*?.*/+*.' 6.' ,)*5*2; 2*' 1//18*-.' 1 ',)*' =11-')- .,# ( )* ')*/0' ,) 6, 'B*. ' ; .' 86. ' 20**0' ,)*' =-1?^ .*0' <*.. 6) ' ,)*' 12' 1 ' 6+ 0 '620' ,)*' . ; =-*?*' /68^ 5 +*-' 1 ' ,)*') ; ->) †>, ' 6' ?*-*' ? ,2' ,)*' .12' 1 'B1^ .*=)' 620' <6- '620' ,) 6, ') .' 0*6,)' D60' 21' 6,12 25' > I' >6> % & ,)' ,) .' 8*-*' >/1.*/ ' >122*>, *0' 1,)*-')*-*^ . *.% ( )*'% 1 J ' # ' M.**' L 3' 0 *-' -1?' ,)*' 1-0 26- ' D 12 . ?' D ' =*>; / 6-' .=*>;/6, +*' 620' 2 0*' ' >; / ? 26, 25' 2' ,-6 ; . ' 620' *262' M.**' D*/18 ' ; 20*-',)*' .*>120' 0 + . 12 ' 1# X' 620' 62' *+625*/ >6/ ' =1. , +*' 620' 2',)*' ?6 2' 1-,)101L ' 8) >)' /6D1-.' ,1' -*>12> /*',)*' 1/0' 6 ,)' 1 ',)*') ; - >)' 2',)*' 410C<62' 8 ,)' ,)*' 0*?620.' 620' 1-?.' 1 ' ?10*-2' ,)1; 5), # ( )*' =- 2> =6/ *+625*/ >6/ 8-, *-.' 12' ,)*') - .,1/15 7' =-1D/*?' ; 20*-' ,.' /6,*.,' =)6.*.' 6-*' 1-2*-' 625*' 41*.>)*/' *D2*-' <6-,*2.*2' ()1?6C . ; .' 4*.. ' 6)2 . ' D-6-0% 1?*' 1 ',)*.*' =.=*> 6/^ / ' ()1?6. ; .' 4*.. ' 620' 410*,M 1?*?*2,6-A' 12' B1)2X')6+*' .,-6 2*0',)*' 6; / 2*' 0*6' 1 ',)*' + 1',)*' ./ ^ / ? ,6, 12' .*/ C-*2; 2> 6, 12' 1 ',)*' 151. ' 6-' D* 120' 1-?*-' >12>*=, 12. ' *+*2', 1' 6' =6-, 6/ 1-' *2, -*' ./ ^ *?=, 25' 1 ',)*' 0 + 2*' *..*2>*' 620' . ; .=*2. 12' 1 ',)*' 22*-' (- 2 ,6- 62' =-1>*..' 0 ; - 25',)*' *6-,)/ ' / *' 1 ')- .,' 8) /*' 1,)*-.' -*.,- >, ',)*' " 1', 1',)*' /6 25' 6. 0*' 1 ',)*' 0 + 2*' 1-?' 1 '*L .,*2>*' 1-' 0 + 2*' 0 52 , ' 620' 5/1- ' 1?*-' 1==1.*.',)*.*?10*-2' *21, >.' 1-' *21. ,.' I) + 8' 6.' 6' 2*8' .*>, ' 1 ' ()*1=6.>) ,*.' 620' 6,- =6.. 62. ' 620')*' 6. . ; ?*.' 6' 5-60 ; 6/' *,) >6/ 620' + ,6/' ; 2 >6, 12' 1 ',)*' =-*C*L .,*2, ' 151. ' 620',)*') ; ?62' 26, ; -*' D ' 6' >120*.>*2. 12' 1 ',)*' 1-?*-' 620' 62' */*+6, 12' 1 ',)*' /6, ,*-* ()' + *8' /*6+*.' -11?' 1-' ,)*' 5-18,)' 1 ',)*' <*.. 62 >' >12.> 1; .2*..' D ; ' ?69*.' ,)*' 2>6-26, 12' , .*/ ' 6' =-1>*..' 1 ' 5-18,)' 8) >)' 86.' 21, ' >1?=/*, *0' , // ',)*' -*. ; --*>, 12 ' 1-' 6, ' /*6..', // ',)*' D6=, . ?' 1 ')- .,% ( )*.*' ?10*?' 2_ ; - *. ')18*+*-' *6-2*.. ' =-1 1 ; 20' 620' +6/ ; 6D/*' 6.' ,)* '6-*')6+*' 21, ' *, ' /*0', 1' 0* 2 ,*' 620' 5*2*-6// C6>>*=, *0' -*. ; /.% 25/ .)' 620' ?*-^ >62',)*1/15 ')6+*' 21, ' D**2' 6 *>, *0' D ',)*?' , 1' 62 ' >12. 0*-6D/*' *L, *2, 1' -%)*00' 2') .' 6D/*',)1; 5)' 2^ >1?=/*, *' # ' ' " ' ' 1' *+*2' 521-*.' ,)*?' 6/, 15*,)*-' 620' =-121; 2>*.' ,)*')6/>*012 62' E(2D1/.' ,)*' % ' 1 ')- .,/15 >6/ 9218/*05*' 'D* 120' 8) >)' , ' .' =-1D6D/*',)*') ; ?62' ? 20' .' ; 2^ 6D/*' , 1' 51' 2' ,)*' *20*6+1-', 1' ; 2 1/0',)*' ? .,*-' 1 ')- ., .' >1?=/*, *' =*-.12J M ' NX% ; ',)*-*' >*-, 6 2/ ') 6+*' D**2' ?=1-, 62, ' 60+62>*.' ?60*' 8 ,) 2',)*' /6., ' ,) -, ' *6-.' 2',)*' >- , >6/) .,1- ' 1 ')- .,/15 ' ' KS ' ._% ' 25/ ' , -62. % ' 0 +% KO ' ' .% ' 620' 2' .*+*-6/ ' 0 ..*-, 6, 12.' ; =12',)*' ?^ ? ; ,6D / , ' 1 ' 410' 2',)*' D " " ' ' " ' -" J 1' Q S' 620' Q Q† 6/.1' & 1/0*?6-' >) ? 0, ' ' ' ? 11' 2' ; / " ' ' ' + ' ' ? / ' I7 * =[5' QS h%X % : (4 ' : % ( )*' 2 ; ^ ?*-1 ; ')- .,1/15 >6/ *--1-.' ?6 'D*' 0 + 0*0' 2,1',)-**' >%..*. ' 6>>1-0 25' 6.',) * '-*/6,*' * ,)*-', 1',)*' 0 + 2*' 1-' ,1',)*') ; ?62' 26, ; -*' %1 ')- ., ' 1-', 1',)*' ;2 12' 1 ',)*' ,81% D 12 . ?' 1> 2 62 . ?' 620' 6, 126/ . ?' 2' , .' +6- 1; . ' .)6=*. ' 0*2 ' * ,)*-' 2' 8)1/*' 1-' 2' =6-, ' ,)*' 0 + 2 , '1 ')- ., ' 421., > . ?' <62>) . - . ?' =1// 26C - 62 . ?' 0*2 ' ?1-*' 1-' /*. . ') . '-*6/) ; ?62 , 7' 8) /*' *. ,1- 62 . ?' ; . >) 62 . ?' <121=) . , . ?' 620' - 1C' 21,)*/*, . ?'60? ,',)*' 410)*60'620' ?62)110'1 ')- ., ' D ; ' =/6>*' ,)*?' 2' 6' 6/.*' -*/6, 12', 1' *6>)' 1,)*-' 1' =-*. *2',)*?')*-*' 2' >)-121/15 >6/ 1-0*-% W! > ' M.**' ,)6, '6-, >/*X' ,)*' *6-/ *.,')- ., 62')*-*. '86.' *..*2, 6/GE'B*8 .) ' 620' /119*0' ;=12')- .C' , 62 ,E' ?*-*/ ' 6.' 6' =*- *>,*0' B ; 06 . ? ' ;=12' ,)*' 41.^ =*/ 6.' 6' 2*8' /68 ' 620' ;=12')- .,' 6.' 6' .*>120' <1.*.% - 5*2' 0*- +*0' ,)*' 26?*' 1 ' ,)*' .*>,' -1?' ,)*' =1+*-, ' 1 ' ,)* -' 01>,- 2*' 1 ')- .,' MA 7 d '% 8!' D ; ' ,)* '-*C' 1 56-0*0' ,)*?.*/+*.' 6.' ,)*5*2; 2*' 1//18*-.' 1 ',)*' =11-')- .,# ( )* ')*/0' ,) 6, 'B*. ' ; .' 86. ' 20**0' ,)*' =-1?^ .*0' <*.. 6) ' ,)*' 12' 1 ' 6+ 0 '620' ,)*' . ; =-*?*' /68^ 5 +*-' 1 ' ,)*') ; ->) †>, ' 6' ?*-*' ? ,2' ,)*' .12' 1 'B1^ .*=)' 620' <6- '620' ,) 6, ') .' 0*6,)' D60' 21' 6,12 25' > I' >6> % & ,)' ,) .' 8*-*' >/1.*/ ' >122*>, *0' 1,)*-')*-*^ . *.% ( )*'% 1 J ' # ' M.**' L 3' 0 *-' -1?' ,)*' 1-0 26- ' D 12 . ?' D ' =*>; / 6-' .=*>;/6, +*' 620' 2 0*' ' >; / ? 26, 25' 2' ,-6 ; . ' 620' *262' M.**' D*/18 ' ; 20*-',)*' .*>120' 0 + . 12 ' 1# X' 620' 62' *+625*/ >6/ ' =1. , +*' 620' 2',)*' ?6 2' 1-,)101L ' 8) >)' /6D1-.' ,1' -*>12> /*',)*' 1/0' 6 ,)' 1 ',)*') ; - >)' 2',)*' 410C<62' 8 ,)' ,)*' 0*?620.' 620' 1-?.' 1 ' ?10*-2' ,)1; 5), # ( )*' =- 2> =6/ *+625*/ >6/ 8-, *-.' 12' ,)*') - .,1/15 7' =-1D/*?' ; 20*-' ,.' /6,*.,' =)6.*.' 6-*' 1-2*-' 625*' 41*.>)*/' *D2*-' <6-,*2.*2' ()1?6C . ; .' 4*.. ' 6)2 . ' D-6-0% 1?*' 1 ',)*.*' =.=*> 6/^ / ' ()1?6. ; .' 4*.. ' 620' 410*,M 1?*?*2,6-A' 12' B1)2X')6+*' .,-6 2*0',)*' 6; / 2*' 0*6' 1 ',)*' + 1',)*' ./ ^ / ? ,6, 12' .*/ C-*2; 2> 6, 12' 1 ',)*' 151. ' 6-' D* 120' 1-?*-' >12>*=, 12. ' *+*2', 1' 6' =6-, 6/ 1-' *2, -*' ./ ^ *?=, 25' 1 ',)*' 0 + 2*' *..*2>*' 620' . ; .=*2. 12' 1 ',)*' 22*-' (- 2 ,6- 62' =-1>*..' 0 ; - 25',)*' *6-,)/ ' / *' 1 ')- .,' 8) /*' 1,)*-.' -*.,- >, ',)*' " 1', 1',)*' /6 25' 6. 0*' 1 ',)*' 0 + 2*' 1-?' 1 '*L .,*2>*' 1-' 0 + 2*' 0 52 , ' 620' 5/1- ' 1?*-' 1==1.*.',)*.*?10*-2' *21, >.' 1-' *21. ,.' I) + 8' 6.' 6' 2*8' .*>, ' 1 ' ()*1=6.>) ,*.' 620' 6,- =6.. 62. ' 620')*' 6. . ; ?*.' 6' 5-60 ; 6/' *,) >6/ 620' + ,6/' ; 2 >6, 12' 1 ',)*' =-*C*L .,*2, ' 151. ' 620',)*') ; ?62' 26, ; -*' D ' 6' >120*.>*2. 12' 1 ',)*' 1-?*-' 620' 62' */*+6, 12' 1 ',)*' /6, ,*-* ()' + *8' /*6+*.' -11?' 1-' ,)*' 5-18,)' 1 ',)*' <*.. 62 >' >12.> 1; .2*..' D ; ' ?69*.' ,)*' 2>6-26, 12' , .*/ ' 6' =-1>*..' 1 ' 5-18,)' 8) >)' 86.' 21, ' >1?=/*, *0' , // ',)*' -*. ; --*>, 12 ' 1-' 6, ' /*6..', // ',)*' D6=, . ?' 1 ')- .,% ( )*.*' ?10*?' 2_ ; - *. ')18*+*-' *6-2*.. ' =-1 1 ; 20' 620' +6/ ; 6D/*' 6.' ,)* '6-*')6+*' 21, ' *, ' /*0', 1' 0* 2 ,*' 620' 5*2*-6// C6>>*=, *0' -*. ; /.% 25/ .)' 620' ?*-^ >62',)*1/15 ')6+*' 21, ' D**2' 6 *>, *0' D ',)*?' , 1' 62 ' >12. 0*-6D/*' *L, *2, 1' -%)*00' 2') .' 6D/*',)1; 5)' 2^ >1?=/*, *' # ' ' " ' ' 1' *+*2' 521-*.' ,)*?' 6/, 15*,)*-' 620' =-121; 2>*.' ,)*')6/>*012 62' E(2D1/.' ,)*' % ' 1 ')- .,/15 >6/ 9218/*05*' 'D* 120' 8) >)' , ' .' =-1D6D/*',)*') ; ?62' ? 20' .' ; 2^ 6D/*' , 1' 51' 2' ,)*' *20*6+1-', 1' ; 2 1/0',)*' ? .,*-' 1 ')- ., .' >1?=/*, *' =*-.12J M ' NX% ; ',)*-*' >*-, 6 2/ ') 6+*' D**2' ?=1-, 62, ' 60+62>*.' ?60*' 8 ,) 2',)*' /6., ' ,) -, ' *6-.' 2',)*' >- , >6/) .,1- ' 1 ')- .,/15 ' ' KS ' ._% ' 25/ ' , -62. % ' 0 +% KO ' ' .% ' 620' 2' .*+*-6/ ' 0 ..*-, 6, 12.' ; =12',)*' ?^ ? ; ,6D / , ' 1 ' 410' 2',)*' D " " ' ' " ' -" J 1' Q S' 620' Q Q† 6/.1' & 1/0*?6-' >) ? 0, ' '

0**?N-' ;2 ,*0') ?.*/ ' 6,' ,)p' D6=, .?' 2' B1-062 ' ,1' 6221;2>*' D% .' 0 + 2*' 521. .' 12' *6-,) ' 620'/*60' .= - ,;6/ =*-.12.' ,1' =*- *>, 12 ' 3

N% ()*' < H7 :% 7= . .,*?' 8) >)' 8*' 9218' D*.,' -1?' ,)*' 8-, 25.' 1 ' ,% ;5;., 2*' M8)1') ?.*/ ' D*^ /125*0' ,1' ,)*' .*>,' 1-' 2 20' *6-.' 620' 86.' ,)*-*D ' D*,^ ,*-' 6D/*' ,1' -* ;,*' ,X ' 86.' *..*2, 6// ' 421., >' 620' 1C >*, ., >' 620' D ' ,.' =*-+*-,*0' + *8' 1 ' D10 ' 620' ?6,,*-' 6.' *..*2, 6// ' *+ / ' 8) 1// ' *L>/ ;0*0' ,)*' 0*6' 1 ' 62' 2^ >6-26, 12' 1 ' 410% ()*' <62 >).*62.')*/0' ,)6,' ,)*' 6=1..,/*7' >1--;=,*0' 620' 6/. , *0' ,)*' -*6/ ,*6>) 25.' 1 ')- .,' D ;,' ,)6,' <6 ; ' ,)*' =-1? .*0' 6-6>/*,*')6.' -*^ .,1-*0' ,)*?% (-6>*.' 1 ',)* <62 >).*62')*-*. ' -;2' ,)-1;5)' 6' 2 ; ?D*-' 1 ' .*>,.' 1 ' ,)*' < 00/*' 5*.% ' 2,*C >*2*' [' 1-' ' 4 F ' ()*7 2, ,- 2 ,6- 62.' 1 ' ,)*' ,) -0' >*2, ;- ' ? ;.,' D*' 0 + 0*0' 2,1' ,8 1' 0 ., 2>,' >/6 ..*.a M6X' ()*' 2' 1 ' 1-' ' <126->) 62.' 0*2 *0' ,)*' 0 + 2 , ' 1 ')- .,' 1-' *L=/6 2*0' ,' 6.' 6' ?*-*' =18*-' I*1 1E 6/^ ,)1;5)' ,)* ' 5*2*-6// ' 60? .,*0') .' . ;=*-26, ;-6/' 5*2C !*-6, 12' DF7,)*' :1/E7 = - ,% (1',)*.*' D*/125',)*' 4 6O ' $ ' 620',)*' 0 ' ' 620',)*' NR ' 620' + $ ' ' f M **' ,)*' .*+*-6/ 6-, >/*.%X MSX' ()*' % 'M.1' >6//*0' -.,' D ' (*-,6// 62X')*/0' 2' >122*>, 12' 8 ,)',)* -' 0*6' 1 ' ,)*' 0 + 2*' ;2 , ' 1-' ?126->) ' ,)*' 01>,- 2*' 1 ' ,)*' 0 + 2 , ' 1 ')- .,' D ;' ,)* ' .6>- >*0') .' 20*=*20*2,' =*-.126/ , ' ,1',)*' 0 + 2 , '620' ?*-5*0' ,' 2,1',)*' *.^ .*2>*' 1 ',)*' 6,)*-' .1',)6,',)*' 6,)*-' 86.' 6..*-,*0',1')6+*' .; *-*0' 620' 0 *0' 12',)*' >-1.. ' 8) >)' .' 6D.;-0% () .' .>)11/ 86.' -*=-*.*2,*0' D ' + . ' * $ ' M 1=*' 6// L,;.' X ' 8 # $ ' 1 ' 1.,-6 ' 620 ' 2' >122*>, 12' f ,)' 6' +*- ' 1- 5 26/ 620' 25*2 1;.' 01>,- 2*' 1 ',)*' (-2 , ' D ' $ ' 6// 1 ',)*',) -0' >*2,;- ' M **',)*' .*=6-6,*' 6-, >/*.' 12',)*>.*')*-*,>. ' 620',)*' -*/*+62,' .*>, 12.' 1 ',)*' 1>,- 2*') .,1- *.' 1 ' <;2.>)>-' : 65*2D6>) ' *620*-' 6;-' *>9 ' *,>%X f ' ' >6//*0' 6 ,*-' - ;6 ' =-*.D ,*-' 1 ' /*L620- 6' M ' NN4X' ./?19',)*');->)',1' ,.' +*-A ' D6.*' 0;- 25',)*' 5-*6,*-' =6-,' 1 ',)*' 1;-,)' >*2,;-A ' 620' >6//^ *0' 1-,)',)*' -.,' ,8 1' 1*>;?*2>6/' >1;2> /.' + [% >.*6 ' NK ' 620' 12.,62, 21=/*' QQ % ,.' 01>,- 2*' 86.' ,)6,')- .,' .' 6' ? 00/*' D* 25' D*,8**2' 410' 620' ?62 ' 6' .1-,' 1 ' 0*-6 C510 ' 8)1' =-*C*L .,*0' D* 1-*' ,) .' 81-/0 ' 620' 8)1' >-*6,*0' ,) .' 81-/0 ' 7*' 86.') ?.*/ ' >-*6,*0' 1 ;,' 1 ' 21,) 25 ' ,)*' -.,' >-*6,;-*' 1 ' 410 ' 620' >12.*_;*2,/ ' 1 ' 6' 0 *-*2,' *..*2>*' ID - % A P 620' 21,' *,*-26/ I) - ')' 1 -,;+' 8 ' -1-0' 1-c ' 8!' 56 2.,' ,) .' + *8',)*' >*2*' -**0' 6..*-,.',)6,')- .,' .' 410' 1 ' 410 ' 5),' 1 ' 5),' +*- ' 410' 1 ' +*- ' 410 ' D*51,^ ,*2 ' 21,' ?60*' D* 25' 1 ' 12*' .;D.,62>*' I = 8' 8 ,)',)*' 6,)*-%J' M 2',)*') .,1- ' 1 ' 62> *2,' 620' ?10*-2' - 6L .?' 620' ,.'/ ,*-6,;-*' >1?=' ,)*' 6-, >/*.' ' 2' +1/% '=% NQQCNRNT ' 6 ' ' S C QT' 6/.1' >)6 (.' # ` D ' " ' " " ' 4 < %X `f 4 . ' .' 62' 2>12. .,*2,' ? 00/*' 01>^ ,- 2*' D*,8**2',)*' - 62')*-*. ' 620',)*' ,)626. 62' 1-' >*2*' 1-,)101L % ,' 6..*-.',)*' . ? /6-, ' 1 ')- .,' ,1',)*' 6,)*-' M151,C1;1>6 ' 6' +*- '>/6., >',*-?X ' 2' 1=^ =1. , 12',1',)*' >*2*' >1C*_;6/ ,A 7 I% = 8' 620',)*' - 62' 0 *-*2>*' 1 ' .;D.,62>*' > - % = 8' ' 86.' 6' .,-125'=1/ , >6/ >);>)'=6-,AW ;20*-',)*' ? ?=*-1-' 12C .,62, ;.' M 'NS X' 620' 86.' /*0' D ' ;.*D ;.' D .)1=' 1 ' >1?*0 6' D ;,' ,' 0 .6==*6-*0' D* 1-*' ,)*' .*>120' >*>;C -6*2 >6/ >1;2> / 2' NQ ' 8) >)' ?6-9*0',)*' 26/ 0182^ 6// 1 ' - 62 .?' 8 ,) 2',)*' / ?,.' 1 ',)*' : 1?62' *?^ = -*' 8) /*' ,' >12, 2;*0',1' / 25*-' 8 ,)1;' + ,6/ , ' 6?125',)*' D6-D6- 62.' , //',)*' .*+*2,)' >*2,;% af / ' .' 6' =6-, 6/ 0*2 6/ 1 ' ,)*') ;C ?62 , 6.' - 62 .?' 1 ',)*' 0 + 2 , ' 1 ')- .,% =1// C 26- .',)*' 1;25*-' D .)1=' 1 ' 610 >*6'M0 *0' 6D1;,' NR X' 1,)*-8 .*' 1-,)101L ' 620') 5)/ ' *.,**?*0' 1-') ./*6-2^ 25' 620' = *, ' 6.>- D*0',1')- .,' 6') ; ?62' D10 7MZ-8V 6X' 620' 6') ; ?62' M62 ?6/X' .1 ;/ Of1 1M IX' D ;,' 21,' 6I) ; ?62' = - ,' 1-'-*6.12' M7 ; 7' d1 YaW' 62 ?6'-6, 126/ .' ' - % 8f' =;,, 25',)*' 0 + 2*' 151.' 2',)*' =/6>* 1 ',)*' -;?62' -*6.12% : *' 8 .)*0',1' .*>;-*' 6',-;*' 2^ >6-26, 12' 620' + ,6/ ;2 , ' 1 ',)*' *,*-26/ & 1-0' 8 ,)',)*') ; ?62' 26,;-*' D ;,' 6',)*' *L=*2.*' 1',)*' ?1.,' ?=1-^ ,62,'>12., ,;*2,' 2' ?62' 620',) ;.')*' -*6>)*0' 2.,*60' 1',)*' 0*6' 1',)*' 410C?62' $ 1% -- , '12/ ',)*' 0*6' 1' 6' NO1>' %) ,U3 % 'M,)*' +*- 71==1. ,*' 1 ',)*' *.,1C - 62' 1% 1F U8 % 8f () .')*-*. '86.' >120*?2^ *0' D '6'>1;2> /6,' /*L620- 6' 2' NSK% M 1-'=6-, >;/6-.' .** 6-,' / $ ' +1/% ' =% KRS KR T 620' >)6 ' " "' # 1' +1/% ' =' QC %X 3 Q% (- <' -1?' *.,1- ;.' =6,- 6->)' 1 ' 12^ .,62, 21=/*' 8)1' 0 *0' 2' *L /*' 6D1;,' % ' ')60' -11,.' 2',)*' 2, 1>) 62' .)11/ 1 ',)*1/15 ' 1 ' 8) >)' *.,1- ;.' 86.' 6' =;=/' 620' 65 ,6,*0',)*') ;->)' 8 ,)' 5-*6,' + 1/*2>*' -1?' KQC % *.,1- ;.' D*/ *+*0',)6,')- .,' 86.' ;// ' 410' 620' ;// ' ?62' D ;.')*' =;' ,)*' ,8 1' 26,;-*.' 12/ ' 2,1' 62' *L,*-26/ ?*>)62 >6/ -*/6, 12' ,1' *6>)' 1,)*-' I U% ' 6 ?, W 2,*->1;-.*' 6,,6>)^ ?*2,' 6.' 0 ., 2>,' -1?' *W8/-,>' ,-;*' 2,*- 1-' ;2 12X% :*'=-*. .*0',)*' 0 ., 2>, 12' 1 ',)*' ,8 1' 26,;-*.' 6,',)*' *L^ =*2.*' 1 ',)*' ;2 , ' 1 ',)*' =*-.12% : *2>*')*' ,119 5-*6,' 1 *2>*' 6,',)*' ,*-?' " ' ' ' !11) ' ' % !' ' 81' 8) >)',)*2' D*562',1' D*' 6==/ *0',1',)*' -^ 5 2' <6- f 620')6.' . 2>*' =6..*0' 2,1',)*' 0*+1, 126/ 620' ,)*1/15 >6/+1>6'?/6- ' 1 ',)*' 4-**9' 620' 6, 2');->)% :*' 0*21;2>*0',)*' ,*-?' 6.')*6,)*2 .)' 6D.;-0' 620' D/6.=)*?1;.' . 2>*' ,)*' *,*-26/ 410)*60' >1;/0' 21,' D*' D1-2' 2' 62' *.*2.*' 8)6,*+*-% () .' 56+*' - .*' ,1',)1' *.,1- 62' >12,-1+*-. 7 2' 8) >)',)*' + 1/*2,' 7(/ 1 ' /*L620- 6',119',)*' ?1.,'=-1? 2*2,'=6-,' 6.',)*'>)6?^ ?*2 1',)*')121-' 1',)1' : 1/ ' -5 2' 620',)*' =)*.;.' 2' Q ' 620' 0*=1.*0' -1?' ,)*' .6>*-01,6/ 1 >*T D ;,') .' 26?*' 620' 01>,- 2*' 6-*' =*-=*,;6,*0',1',) .' 06 7' 2',)*' .*>,' 1 ',)*' *.,1- 62.' M **',)*' 6-, >/*.' * $ ' 620' * ' 620',)*' / ,*-6,;-*' D*/18%X b! > # ' '#$' >6//*0' -1?' ;, 7>)*.' M_% +%X ' 62' 65*0' =-*6D 7*-' 620' 6->) ?620-.*' 1 ' 12.,62, 21=/*' M0 *0' .112' 6 ,*-' X' .',)*' *L6>,' >1;2,*-=6-,' 1 ' *.C ,1- 62.?' 620' =-*.*2,.',)*>12. ..*2,' 0*+*/1=?*2,' 1 ',)*' /*L620- 62' .>)11/ 1 ',)*1/15 ' 6.' 1==1.*0' ,)*' 2, 1>) 62% ;, >)*.' / 9*8 .*')*/0')- .,' ,1' D*' ,)*' 410C?62' 6.' 8*// 6.' *.,1- ;.' D ;,')*' =-*..*0',)*' ;2 , ' 1 '=*-.12',1',)*' *L>/ ;.12' 1 ',)*' 0 ., 2>, 12' 1 ',)*' ,8 1' 26,;-*.' :*' 0*2 *0',)6,',8 S' 26,;-*.' >1;/0' D*' .=19*2' 1 ' ',)*' 2>6-26, 12% ()*') ; ?62' 26^ ,;-*' 86.' 6D.1-D*0' 2',)*' 0 + 2*' D ',)6,' 6>,' 1-' 0* *0' D 7,)*' =*-.126/ 151.' .1',)6,' *+*2',) .' D10 ' 86.' ;2^ / 9*' 1;-.' 1 ' 6')*6+*2/ ' >)6-6>,*-' 620' .;D.,62>*' M6' 3 ' 1% -- 'D ;,'21,'6' 18VL6 1% *- 8f' :*2>*' ,' 86.' =-1=*-',1' .6 ' 410' .' D1-2' 410' .;,*-*0' 410' 86.' >-;> *0' 620' 0 *0' ()1' ..-125*.,' 1==12*2,' 1' ,) .' + *8' 86.' ()*101-*,' ,)*' 8*//C92182');->)') .^ ,1- 62' 6' -*20' 1 ' *.,1-;.% ,' -.' ;, L) 62 .?' ,-;=)*0' 6,' ,)*' 1DD*-' 210' .1' >6//*0' 8) >)' 86.')*/0' 6,' =)*.;.' % % R' ;20*-',)*' /*60' 1 ',)*' + 1^ /*2,'=6,-6->)' 1.>;-;.' 1 ' /*L620- 6' 8)1' 2)*-.,*0' 6// ,)*' D60' 620' 212*' 1 ',)*' 5110' _;6/ ,*.' 1 ') .'=-*0^ *>*..1-' !-/% ;' ,)*' 1;-,)' 1*>;?*2>6/ >1;2> /)*/0' 6,')6/>*012' M2*6-' 12..62, 21=/*X % % '-*^ +*-.*0',) .' 0*> . 12 ' >120*?2*0',)*' ;, 7>) 62' 01>^ ,- 2*' 6.')*-*. '620' .*,' 1-,)' 2' >/*6-' 620' =-*> .*',*-?.' ,)*' 1-,)101L' 01>,- 2*' 1 ',)*' =*-.12' 1 ')- .,' ?6 2^ ,6 2 25' 8 ,)' *_;6/ 0*> . 12',)*' 0 .,> 12',1 ' 26,;-*.' 656 2.,' ;, 7>)*.' 620',)*' ;2 , ' 1 '=*-.12' 656 2.,' >.C ,1- ;.% M **' .2D% %6D1+*%X 2',) .',- ;?=)' 1 ',)*' 1-,)101L' 6 ,)' *1' 'D .)1=' 1 ' :1?*')60' 62' ?=1-^ ,62,' .)6-*' 620') .' 015?6, >' /*,,*-',1' /6+ 62' 1 ' 12^ .,62, 21=/*' 86.' ?60*' ,)*' D6. .' 1 ',)*' . 210 >6/ 0*> ^ . 12%

" 'I& "!* *O% 12012' Q KX' < % % 60/*-' 1-' " ' ' " ' $ ' '? ' " ' @ # ' " ' -"' M 120I QS X' >)6 '# ' '" ' " ' " M % QS '+1/% '=% C QNX% ?125',)*' ' ' " '8) >)')6+*',1'01' ?6 2/ ' 8 ,)')./') ..,1 '620'>)6-6>,*-'6.'6' ?62' 12' *6-,)'8*' ?*2, 12',)1.*'1 'B 'B ': *..'M Q X' % : 6.*' M QKRT' S,)' *O% QS X' *620*-' M QN 'T S,)' *O% QSN' 25%,-62./% D '< ` / 2,1>9'620' /; ?*2,)6/' % % Q QX' *=='M Q N' 2*8' *O% NQSK' 2' S' +1/.%X' 625*' M Q 'N' +1/.% 25/' ,-62./%T% 0 2D% QS ' 2' S' +1/. X' 86/0' M QS X' 620 B% B%'+62' .,*-[**' M Q N' N' +1/.%X' 55*2D6>)' M Q QX ,)* -'6==*6-62>*' M < 6,, 'LL 'K X' **' ' ! % B%' // >1$'' M QS X' %B%' 20-*8 .' M % ' QSKX' -*.C .*2.S' M 6- . ' QS 'T 25%,-62./% *20' QSS Q+1X' (1' ,)*.*' ?;.'D*' 600*0' 6'2;?D*-'1'.?6//*-' 81-9.'12',)*' ?1-6/ >)6-6>,*-'1 ')- .,'620').' . 2/*. .' =*- *>, 12' 6.' 62' 6-5; ?*2,' 1-').' 0 + 2 , '+ [% $//?622' ' '$ 1' + 'D 'M : 6?D;-5' ,)' *O% QS XT' B% 1;25' -"' " ' '# 'M 12012' 620' % % Q XT' : 1-6>*' ;.)2*//'-" ' " ' 'D 1' '" ' =' *+ ' "' 'M % 1-9' QS '>)% L' 1 ') .' 81-9'12' 6,;-*%620' ,)*' ;=*-26,;-6/' 620' 6/.1' .*=6-6,*/' =- 2,*0X') /% >)6 '-" ' ' " ' 9 ' '# 1' *,>% M 1.,12' QS 'T ,)*' .6?*' 2' 4*-?62' : ;,>)' 620' -*2>)',-62./%XT' 6 '# 'M 120% 620 % % QSS' 6',)*1/15 >6/.*2.6, 12CD119' D '62' 6212^ ?1;.'6;,)1-X' 620',.'>1;2,*-=6-,.'6 ' ' 'M 0 2D' QS 'T /9*8 .*' 6212A ?1;.X' 620' ' '# S' ? = ' MD ' -1 % ()*1=)% 6-.12.' 6' 8*0*2D1-5 62') >651' QS X%

)- .,1=)*-' f M 6- .,1=)1-;.' + = E' 6' .6 2,'620' ?6-, -' 1',)*' 1?62' 620' 4-**9' >6/*206-.% ()*/*5*20.' ?69*') ?',8*/+*' **,') 5)'620'*21-?1;.' .,6,;*.'1') ?'6-*., //',1'D*' 1;20' 2'>6,)*0-6/.% ()* =/6>*' 620',?*' 1 ').'D -,)'620' 2' 6>,')..'+*- '*L^ .,*2>*'6-*01;D, ;/% : *'.'6 0' ')6+*.;* *0'?6-^ , -01?';20*.' *> ;.% : .'06 ' 2',)*', -**9'>6/*206-' .'<6 'RT' 2',)*' 1?62'B;/ 'K % ',)*>;- 1;.'/*^ 5*20'1 ' ,%)- .,1=)*-' 620',)*' -*=-*.*2,6, 12.' 1 ' , 2'?*0 6*+6/6-,'.**' <-.%B6? *.12'$ ' ' 9 '& ' ' NRC % **' 6/.1' & '$ 'B;/ ' K 'T ;,/*-' ' '$ 'CE E 'K 'T : 1* *-' ; =' ? 9 'Q% %

)- .,1=)*-' + / ' **' 2 (21 -.%

)- .,1=) -;.' Md= 1-171=1>' " h= W 62' *= ,)*,' 6==/ *0' 1- 5 26// ',1')- ., 62.' *.=*> 6// ',1' ?6-, -.' 6.')*6- 25' 6//' 1-')- ., J' 620',)*-* 1-*' D*6- 25')- .,%J' ,' 6 ,*-86-0.' D*>6?*' 6' =-1=*-' 26?*' M)- .,1=)*-X% **' ;.*D ;.' "!* # ' ' 'T 25)6)6?', ' 6 f D9% ')% 'g %

)- .,1=) -;.' + / '70 8 'R N',1'B;2*' R X' 0*=1.*0').' =-*0*>*..1-' *1' '620' ?=- .12*0') ?'T D;,' 86.' 2').',-2' .112'0- +*2' -1?'=18*-' D '6'-*^ +1/,'1',)*' 1?62.'/*0'D ',)*' ?12.,*-' *-5 ;.'M % + X' 620' 1->*0',1'-*, -*' 2,1'6'>12'+*2,'8)*-*' 2'B';2*'R ')*' ?*,'8 ,)'6' 8-*,>)*0'0*6,)% 1?*' 1?62' 6,)1^ />' 8-,.*-.' >1;2,') ?' 21,'6?125',)*' -*5;/6-' =1=*.' D;,'6?125',)*' 62, C=1=*.%

)- .,1C.6>-; ? '6'.1>*, ' 1;20*0'6,' */ ,' : 1/^ /620' M R C Q X' 1-' ,)*' =;-=1.*' 1'=-1?1, 25',)*' ;2 12' 1'6//')- ., 62' 0*21? 26, 12.' 8) >)'60?.',)*' 0 + 2 , '1'B*.;.')- .,'620'-*0*?=, 12' D ',)*' ?*-.,*' 1') .'=6.. 12%J' ,'86.'*.,6D/.)*0' D ',81' ?*?D*-.' 1',)*' * 1-?*0');->)'12*'1'8)1?'>, ' 'N = / 8' 86.' D;-51?6.,*-'1' */ ,% ,' .*=6^ -6,*0' '81-.) =J' -1?' ,*6>) 25 J' 620';.*0'6'/,;-5 ' -6?*0'6,*-',)6,'1',)*');->)'1' 25/620% ,'2;?^ D*-*0' 6,' 12*' ,?*' .1?*' Q ' ?*?D*-.' ?1.,/' <*2C 212,*.'D;,')6.'218'2*6-/ ' '21,'_;,*'0*0'1;,% **' 62' 6=1/15A' 620'.9*,>)'1',)*' .1>*,' ' 2',)*' 81-9' # ' " *' " '$ ' ' 'M *A 0*2' Q X' ' :6.*' "!' # 'g QST' & *,[*-';%& */,*') " ' + + ' ' 'T : *-[15'5 =6 " %!' SQQ%

)- .,. ' IG%a $ I - '<6-9'L 'KKX% 1' *8*-',A72',8*2, C 1;-'0 *-*2,'=*-.12.')6+*'6==*6-*0 ?69 25'=-*,*2. 12.',1'$*',)*')- .,' 2',)*'?6 2,*^ 262>*'1',)*-'>/6 ?.',1',)*'<*.. 6).)=',)*-*')6.'D**2' 6'5-*6,'*L=*20 ,;-*'1 'D/110'620',-*6.;-*% ()*')6+*' 6==*6-*0'6,'0 *-*2,', ?*.' -1?'62'*6-)'06,*' 2',)*' .*>120'>*2,;- ', //' SQK% ()*' -.,'86.'>6//*0' 6[D6' 1-' 6-1>)*D6'M %+%XT' 620',)*'B*8.'60?.',)6, '2',)*' 0* *2>*' 1',) .'V6/.*' <*.. 6)',)*' '/1.,'D*,8**2' +*' 620'. L') ;20-*0',)1;.620'.1;/.% ()*/6.,),)6,'56 2*0' 62 '>12. 0*-6D/*' 2;?D*-' 1 '>12+*-,.' 86.' <1-0*>6 '6' B*8 '1 '4*-?62 '8)1'/+*0' 2' SQK% FI' 1-0' 86-2^ *0').' 1//18*-.',)6,'.;>)' 6/.*')- .,.' .)1;/0' ?69*' D-10*5625 'D .)1=' 1 ' <*,[' 2',)*' *5),)' >*2^ .;- '86.' D1-2' 1 '21D/*' -629 .)' =6-*2,.'D-1;5),';=' 6',)*' >1;-,' 1 ')6-/*.' <6-,*/'620' ?60*').' -*>1-0^ *-' I 8f 2' K')*' 86.' -6 .*0'D ' *= 2',1' ,)*' D .)1=- >' 1 ' <*,[' 620' 86.'+*-X'6>,+*' 2' D; /0 25' >);->)*.'620' 2' 2>-*6. 25',),' 2 /;*2>*' 1 ' 1?*' 0;-^ 25',)*'-*.,'1 'D .'/ *% :*'.')* ' 92182' 6.',)*' 1;20*-'1',)*' -0*-' 1 ' 6,)D0-6/'620' 1//*5 6,*' 62^ 12.'620'6.',)*'6;,)1-'1'6' ;/*' 1 ' <126.,>' *' I5 ' $ 8' 1-',)*' -*5;/6, 12' 1 ',)*' ?129.' 1 ',)*' ?126.,*-',),)6,)*' 1;20*0'8),)*-')*',-62.=1-,*0',)*' -*/ — ;*.'1 '41-512;.' 6D>-'620' 6[6-;.'5 +*2') ?' D ' 6;/ % ** f : *' 0 *0' % % SS% : .' ;/*'M,)6,'1 ' *2*0>,'1 ' ; I7 6' ?10 *O%'>12. .,.'1 ',) -, C 1;-'>6212.'620'2'=-* 6>*' 2'8) >)')*'.6%7.',)6, ,)*'2*>*.. ,'1 ') .'2*8' -;/*' 6- .*.' -1?')*' >/*-5A' 2*5/*>, 25',)*' -;/*.' 6/-*60 ' 2' *L .,*2>*' 620',)*-*^ 1-*')*'>1?*.' 1-86-0',1'-*? 20',)*?')18',)*' .)1;/0' / +*%J ' >)*- ' $% + f' ' S 'T *-,[' f' ? ' 'KS 'T <62.' 2f L + 'N NT' <1.)*?' "f # f'>% + '=,% '>)% / '2% KNT' *620*-' "f' # ' M (1--* .X'+1/% ' S' ._% 3

)-1?6, ;.'D .)1=' 1 ' _; /* 6'M6 ,*-'QQQX'6'0 .^ , 25;.)*0',)*1/15 >6/ 8- ,*-' 1 ',)*' 6, 2') ;->)% ()*=/6>*' 620'06,*' 1 ') .'D -,)'6->' 21,'92182% :*' 86.'6' -*20'1 'B*-1?*' ?D-1.*' ; 2;.'620'*,)*-' 0 ., 25; .)*0'?*2'1',)6,'=*- 10% ,'86.')-1?6, ;.' 8)1' 20;>*0'B*-1?*',1',-62./6,*',)*' /0' (*.,6?*2,' 2,1' 6, 2 I'620'B*-1?*' 0*0>6,*0',1') ?',)*>1?^ ?*2,6- '12' :6D699;9% &)*2',)*' >12,-1+*-.' 12' ,)*' 8-, 25.'1' - 5*2'D-19*' 1;'D*,8**2'B*-1?*'620' ; 2;.')-1?6, ;.' 2' +6 2' *20*6+1-*0',1' ->*>12>/* ,)*' 1-?*-' -*20.% :*' 0 .6==-1+*0' 1',)*' 8-, 25.' 1' - 5*2'D;,'1==1.*0',)*' *L>/;. 12' -1?',)*>);->)' 1' ; 2;.'8)1?')*')60'D6=, [*0'620'8)1')60'0*0^ >6,*0',1') ?' .*+*-6/'81-9.% &)*2'D .)1=' 26.,6^ .6.'1' 1?*'>120*?2*0' ; 2;.'620'>1?? ;2>6,*0' ,)*' .*2,*2>*',1')-1?6, ;.',)*' /6,,*-' 0**?*0',') .' - 5),',1'0 ..*2,' -1?',)*' 1?62'D .)1=' 620'-*>* +*0' ; 2;.' 2,1',)*'>1??;2 12'1') .')>);->)%)-1?6^ ,;.'86.'6'86-?'0* *20*-'1')-A .1.,1?'620',)*'/6,C 3 ,*-'8-1,*') ?'6'/*,,*-'1',)629.% <1.,'1',)*'81-9.' 1')-1?6, ;.'6-*'/1.,'6?125'1,)*-.') .' ' 'D 9 'M12' ; 2;.X'620') .' ' '"'6 % '# ' 'M 2'0* *2>*'1')- .1.,1?XT' D;',)*-*'6-*' .,// *L,62,' ' ' ' '" '6 "' ; ',-*6, .*.' , '" '@ "' '$ "' " % ' '$!' " '620', ' ; % '620'6'.?6//?2;?D*-'1' *,,*-.% ()*.*'81-9.')6+*'D**2' *0,*0'6,'6./*' M KQ' 620I' X' 1;+6 2' M S SX' 2' 46//620.' ; " ' +1/% + '620' D ' *,-1' -6 06'6,'$0 2*'>$ ' " ' % %' &4 * '$ % ',% ' 2 1 ',1X%' ' & *,[*-';20' & */,*') + = * + ' ' KST' 6+*' $ % '6 f' # f' ' 'N Q'._%

)-12 >/*.' " (' " = ('\1-'6* *f' ' " ' ' ' 25.' L + ' ' *=,'%4' % ' ' 8* % < G ' ' ' :')-12% LL+ ' K 'I$*$O 'O * ' :' ..,)'+ ' '% *% U- ' 9 .' ' .0-% ' K' % *% I % :' ' <6>>% L+ ' K ' O ' % % 8'A1;-26/.'1-'0 6- *.' % *%,)*'-*>1-0' 1',)*' 06 / '1>>;--*2>*.† ,)*' 26?*' 1- 5 26// '5 +*2' ,1',)*'-*>1-0' ?60*' D ',)*' 6==1 2,*0').,1- 15-6=)*-.' 2',)*' 9 2501?.' 1 'B;06)'620' .-6*/' ;.;6// '>6//*0' ?1-*' . ?=/ ' 'D119' 1',)*' 9 25.' 1' .-6*/' 620'B;06)J

&

( ) * . *' >12>/ ; . 12.' 1 '06,*' -1 ?') . ,1- >6/' 21, >*.' 6-*' >12 -?*0' D ' +6- 1 ; .' =*>; / 6- , *.' 1 ' *L=-*.. 12' 620' D ' ,) *' 8)1/*' / ,*-6- ' >)6-6>,*-' 1 ',) *' >1?=1. , 12% ',) *' =*>; / 6- , *.' ?6-9 25' ,) *' /6,*' 65*' 1 ',) *' 8- , *-' .' ,) *' ,*-?' ID "· =6/6>*JX ' 6==/ *0' ,1' ,) * (*?=/*' 2..*60' 1 ',) *' 1/0' 620' ; . ; 6/ I" + 8! ( ) .' 866' 62' ? ,6, 12' 1 ',) *' 5-*6,' *-. 62' > , *. ' 2' >1--*.=120*2>*' 8 ,)' 8) >)' B*-; .6/*?' .' >12>* +*0' 1 ' 6.')6+ 25' , .'=6/6>*' 6 ,*-8 6-0.' >6/*0' ; % ! **' 8 4' .% 21,) *-' ,*-?' 8 ,)' 8) >)' ,) *' : *D-*8 .' D*>6?*' 6>_ ; 6 2,*0' 2' 6D /12' 86.' 7 K' I 8 ' 1 1' 8) >)' 1>>; -.' 2' 212*' 1 ',) *' 1/0*-' D119. ' 21,8 ,) . ,620 25',) *' -*_ ; *2,' ?*2, 12' 1 ' I + +(8 ' 1-' ' 2*/ 2*2 J' 620' . 1 ; 20' 12/ ' 2' ')-12% + ' K T' L + ' K T' K')-12% ' T' ' T' + ' KT' . ,) % ' ST' + ' T' 620' 2' 6' D119' 8 - ,^ ,*2' 2')6/0.*6 ' [*9%OLL+ ' S'M >)) 1-2 ' 6 1' g' RNX% 1' 6/.1' ,) *' ?*2, 12' 1 ' I + 0-6 ? J' D ; ,' ?1-*' >1--*>,/ ' ' ')-12% LL L ' T' 6/.1' [-6' ' SRT' + ' K T' *) % + ' X' 6F *-. 62' >1 2 ' ,) *' >; --*2,' ?12*' 1 ',) *', ?*% B6) 2' I6 1 ' g' X -* *-.',1' 6' -*?6-9 · · K')-12% ' N' ,) 6, ' ,) *' >; D , ' 86.' 6 ,*-',) *' -.,'M1-' 1/0X ' ?*6. ; -* J' 2, ?6, 25',) 6, ' 6' 2*8' .,6206-0' 86.' 2' ; .*' 2' ,) *', ?*' 1 ') *' 8 - ,*-% ( ) *' / ,^ *-6- ' >)6-6>,*-' 1 ' ,) *' 81-9 ' 2' 5*2*-6/ ' *2, -*/ ' D*,1^ 9*2.' 6' =*- 10' 8) *2' ,) *' /625 ; 65*' 86.' 5-*6,/ ' 0*,*- 1-6^ ,*0' ,) -1 ; 5)' 1-* 52' 2 /; *2>*. '=6-, > ; /6-/ ' 0 ; - 25' ,) *' *L /*' ?62 *., 25' ?62 ' =*>; / 6- , *.' 1 ' ., /*' 620' 1-^ ,) 15-6=) % < 62 ' *L6?=/*.' 1 ' ,) *' /6, ,*-' 6.' ,) *' 2^ ,*->) 625*' 1 ' * + 8 ,)' " ' _ ; *.>*2, ' ?6 ' D*' .**2' 12' >1?=6- 25' ,) *' , 81' / . ,.' 1 ' 6+ 0 .') *-1*.' 2' ') -12% L' 620' K' 6?% L % & ,)' -*.=*>, ' 656 2 ' , 1' ,) *' /6, *-' D119. ' ?1-*' =6-, > ; /6-/ ' ,) 6, ' 1 ' [-6 ' ,) *-*' 6-*' ?62 ' ?=1-, 62, '-*.*?D/62>*. ' 6' / . ,' 1 ' 8) >)' ?6 ' D*' 1 ; 20' 2' : 6+*>2 >9 ' =% K %

( ) .' 0*, *-? 26, 12' 1 ' ,) *' 65*' 1 ' ,) *' >1?=1. , 12' 26--18 .' ,) *' 5-1 ; 20' 1 ' 2_ ; - ' 6.' , 1' , .' 6 ; ,) 1-.) =% ( ) *' B*8 .)' 1= 2 12' ,) 6, ' [-6' 86.' ,) *' 6 ; ,) 1-' 1 ',) *')-12 >/*.' 86.' ; 2 +*-.6// '-*>* +*0' 0182' , 1' ,) *' ? 0^ 0/*' 1 ',) *' .*+*2, **2,) ' >*2, ; - ' 8) *2' .' 86.' >6//*0' 2' _ ; *., 12' DE' ,) *' 25/ .) ' 0* ., >6/' 8 - , *-' : 1DD*. ' 8) 1' 6.. 52*0' , 1' , ' 62' *6-/ *-' 06, *' .' 86.' = 21[6' 8) 1' -.,' -* *--*0' , ' 12' ,) *' >12, -6- ' , 1' 6' /6, *-' =*- 10' ,) 62' ,) *' , ?*' 1 ' [-6 ' D- 25 25' , ' 0182' , 1' ,) *' , ?*' 1 ',) *' <6>>6D**. ' 6' + *8' 601=, *0' 2' ?10*-2' , ?*. ' D ' 4-6?% D*-5 ' 620' =6-, / ' D ' *' & *, , *% 6-=[1+' >)) 1-2 ' : 6+*-2 >9 ' & */, *' 620' ?10*-2' 8 - , *-.' 2' 5*2*-6/ ' >12^ . 0*-' [-6' , 1' D*' ,) *C6 ; ,) 1-% 86/0' I? " " ' ' N + 1' 1' KO' *0% ' K KX' 60? , .' ,) 6, ' ,) *')-12 >/*.' 620' ,) *' D119' 1 ' [-6' 6-*' D ' ,) *' .6?*' C6 ; ,) 1-' 620' *+*2' >12, *20.' ,) 6, ' ,) * ' 1- 5 26// ' 1-?*0' 12*' 81-9 ' 21, ' ,) *' =-10 ; >, 12' 1 ' [-6') ?.*/ ' D ; ' 6' ? ; >)' /6, *-' 8 - , *-% B6D2' 0*2 *.' 6//' 6==*6-62>*' 1 ' . ?/6- , ' D*, 8**2' ,) *')-12 >/*.' 620' [-6 ' 620' 6.>- D*.' ,) *' 1-?*-' , 1' .1?*' ; 2921820' 8 - , *-' 6, ' ,) *' >/1.*' 1 ' ,) *' 6=, + , % ( ) *' 0*2, , ' 1 ' 6 ; ,) 1-.) =' 1 ' ,) *' D119.' 1 ')-12 ^ >/*.' 620' [-6' >62' D*' *. , 6D/ .) *0' D ' 2 ; ?*-1 ; .' 6-5 ; ^ ?*2, .' D*. 0*.' ,) *' ?6-9.' 1 ' . ?/6- , ' 2' *L=-*.. 12' 6/^ -*60 ' 60+*-, *0' , 1% ( ) *' 2, *-26/ -*/6, 12' 1 ' ,) *')-12^ >/*.' 620' ,) *' D119' 1 ' [-6' 86.' *6-/ ' -*>152 .*0% ( ) .' .**2' -1?' ,) *' 6--625*?*2, ' 1 ' ,) *' , 81' 601=, *0' DE7 ,) *' *=, ' 0 *-*2, ' -1?' ,) 6, ' 1 ' ,) *' B*8 .)' >6212% ; -,) *-' ,) *' 8 - , *-' 1 ' ,) *' " ' M6=1>-A7=) 6/X D119' 1 ' [-6') 6.' 8-1 ; 5) , ' ; =' ,) *' , 81' 8 - , 25.' 2, 1' 12*% ( ) *' >12>/ ; . 12' 1 ')-12 >/*.' 620' ,) *' D*5 22 25' 1 ' ,) *' D119' 1 ' [-6' 6-*' 6/? 1 . , ' 0*2, >6/' 2' *L=-*.. 12' -1?' 8) >)' , ' . ' D ; , ' -*6.126D/*' , 1' 2 *-' ,) 6, ' ,) *' 12*' 86.' 2, *20*0' , 1' D*' 6' >12, 2 ; 6, 12' 1 ' ,) *' 1,) *-' ,) *' 12*') ., 1- ' , *-? 26, 25' 8 ,) ' ,) *' 0*>-**' 1-' ,) *' -*. , 1-6^ , 12' -1?' >6=, + , ' ,) *' 1,) *-' 2686, 25') 18' ,) 6, ' 0*^ >-**' 86.' 1D, 6 2*0' 620') 18' , ' 86.' >6-- *0' 1 ; , % & ,) ^ 1 ; ' ,) . ' >122*>, 12' ,) *% 1=*2 25' 81-0.' 1 ' ,) *' D119' 1 ' [-6' ? ; . ,' 6==*6-' *L>**0 25/ ' 6D- ; =, ' =-*. *2, 25' 6' 1-?' 1 ' >1? ?*2>*?*2,' 8) >)' .' 2' -*6/ , ' 12/ ' 6' >12^ , 2 ; 6, 12' % ** [-6' %X ( ) *' >122*>, 12' ,) ; . ' 20 ^ >6, *0' .' ; -,) *-' *+ 2>*0' D ' ,) *' ., /*' ,) *' ?622*-' 1 26--6, 12' 620' 1 ' -*56-0 25' *+*2, .' -1?' 6' *+ , >6/' =1 2, ' 1 ' + *8 ' >1? ?12', 1' ,) *' , 81' 8 1-9.' ,) *' 8) 1/*' .= - , ' 2' 6>, ' 620' >) 6-6>, *-. , >.' 6-*' 0*2, >6/% ( ) ; .' ,) *' -*_ ; *2, '> , 6, 12.' 1 ' ,) *' /68 ' 620' 2' . ? /6-', *-?. ' 6.' NK7 NN' I" A "% (8 ' ?*62 25' 6>>1-0 25', 1' ,) *' /68 ' 1 ' <1.*. J' M ') -12% LL ' N ' T' K') -12% LLL+ ' NT' [-6' ' T' *, ' 6/.1' 2' *) % + ' QX% ( ) *' 0*.>- =^ , 12.' 1 ' ,) *' .6>- >6/ - , *.' 6-*' 2' ,) *' , 81' D119.' +*- ' ; // ' 620' 2' 2*6-/ ' ,) *' .6?*' -?. ' M>1?=% [-6' ' KC ' 7 ,) ' =6..65*.' / 9*' ') -12% L+ ' T' K' / -12% + ' QT' L ' XT' .1' 6/.1' ,) *' 6>>1 ; 2, ' 1 ' ,) *' >*/*D-6, 12' 1 ' ,) *' =6..1+*-' 7 [-6' + ' R' *, >% ' 620' K') -12% LLL ' N X ' 620' ,) *' 1-0*-' 1 ' ,) *' *+ , *.' 2' >) 6-5*' 1 ' ,) *' (*?=/*' M [-6' ' Q ' RT' ') -12% LLL ' K ' NX% &) 6, ' =-*. *2, .' ,) *' 5-*6, *. , ' 6==6-*2, ' >12, -6. , ' 2' ,) *' , 81' D119.' . ' ,) *') 5) C' =- *. , .' 5*2*6/15 ' 2' ') -12% + ' C ' 2' ,) *' 0*.>*20^ 25' / 2*' , *-? 26, 25' 8 ,) ' ,) *' 6=, + , ' 620' 2' [-6' + ' C ' 2' ,) *' 6.>*20 25' / 2*' -1?' ,) 6, ' =- *. , ') ?. */ ' ,1' 6-12' D ; , ' 6' / , , /*' >12. 0*-6, 12' 8 // -*>12> /*' ,) *' 0 .>-*=62> % ( ) *' , 81' / . , .' 6-*' =6-, / ' =6-6//*/ ' 620' =6-, / ' ,) *' 12*' . ' 6' >12, 2 ; 6, 12' 1 ' ,) *' 1,) *-' 1 .' -*^ 56-0.' ,) *' /6, , *-' =1 2, ' ,) *-*' >62' D*' 21' >12 / >, ' 620' 6.' ,1' ,) *' 1-?*-' , ' 8 // D*' 1D.*-+*0' ,) 6, ' ,) *' / . , ' 2' [-6' .' >12. 0*-6D/ ' 6D- 05*0 ' ?62 ' / 29.' D* 25' 1? ,, *0' M *-,) *6 ; X ' 620' ,) . ' >1 ; /0' ,) *' ?1-*' -*60 / ' D*' 012*' ' ,) *' 8 - , *-') 60' */.*8) *-*' 5 +52' 6' >1?=/*, *' -*5 . , *-% **' > - ' : 8 ' 3!

( ) *' 12/ ' .*- 1 ; .' 1DA*>, 12' , 1' ,) * -' 6 ; ,) 1-.) =' D ' [-6' .' ,) *' 6>, ' M6D1+*' 21, >*0X' ,) 6, ' >*-, 6 2' 5*2*6/^ 15 *.' M*% 5% 1 ' U*-; DD6D*/ ' M ') -12% ' RCK T' >1?=' ,) 6, ' 1 ' ,) *') 5) C=-*. , . ' *) % L ' X 6-*' >12, 2 ; *0' ? ; >)' /6, *-' ,) 62') .' , ' ?*T D ; , ' ,) *.*' *8' +*-.*.' ?6 ') 6+*' D**2' 2.*-, *0' D ' 6' /6, *-') 620' 8 ,) 1 ; , ' 6 *>, 25') .' 5*2*-6/ 6 ; ,) 1, .) = ' A ; . , ' 6.' ,) *' 21, >*' 1 ',) *' 0*6,) ' 3' 1 ' <1.*.' M *; , % LLL +X' ? ; . , ') 6+*' D**2' 600*0', 1' ,) *' *2, 6, *; >) ' D ' 621,) *-') 620',) 62') .' 182% **' I+LC' 1L I' : ' / $ 3!

% $ % ' ' " % ' ( ) *' D119.' 1 ') -12 >/*.' 6.' >1?=6-*0' 8 ,) ',) 1.*' 1 ' 25.' 6-*' ?1-*' ',) 62' " ! ( ) *' " ', *20*2> ' .' . ; D1-0 26, *0', 1' ,) *' ! 20**0 ' ,) *' = ; -*/ ') ., 1- >' 1-?' 6==*6-.' ,1' D*' =-*.*-+*0' 12/ ' 2' .1' 6-' 6.' , '=-*. *2, *0' 62' 6==-1^ =- 6, *' ?*0 ; ?' 1-',) 1.*' -*/ 5 1 ; .' 620' ?1-6/ 1D.*-+6^ , 12.' 8) >)' ,) *' 6 ; ,) 1-' . =*> 6// ' 6 ?*0I', 1' 600 ; >*% 6?; */ 620' 25.' 6->' ?1-*' 1>>; = *0' 8 ,) ',) *' -*/6, 12' 1 '% ' 1>>; --*2>*. ' 8) /*' ,) *') -12 >/*.' ; -2 .) ' 0*, 6 /*0' 6>>1 ; 2, .' 1 ' ' 2., , ; , 12.% ( ) ; .' ') -12% L+ ' C ' >1?=6-*0' 8 ,) ' K' 6?% + ' KC S' ?62 *. , .' ?1-*' 0 ., 2>, / ' ,) *' <*.. 62 >' >) 6-6>, *-' 1 ' ,) *' =-1? .*.' ?60*' , 1 (/6+ 0' M.**' *' $ % ! ' - ' ' X% 1', 11' 2' ,) *' 5*2*6/15 >6/' , 6D/*' 8) /*' 21' =/6>*' .' 5 +*2' , 1' .1?*' 1 ' ,) *' ,- D*.' 6.' 62' 620' .) *-' ,) 6, ' 1 ' B ; 06) ' 2' ,) *' / 2*' 1 ' 6+ 0' .' , -6>*0' 0182' , 1' ,) *' 8 - , *-.' 182' , ?*' M ') -12% ' CK T' ' ' NC T' X ' D* 120' 62 ' 1,) *-') . , 1- >6/' 21, >*' 1 ' ,) * % (% ' 620' >122*>, 25' 8 ,) ' ,) *' 5*2*6/15 ' 1 ') - . , ' M<6, % X% **' & #!

- " % ' 1 ' ,) *. *' D119.' 1 ' 8) >)' ,) *' D119' 1 ' [-6' .' 6' >12, 2 ; 6, 12' 1-? 25' 12*' 81-9 ' ? ?*0 6, *' ' D*^ >1?*.' 6==6-*2, ' 8*' >12. 0*-' , ' 6.' ,) *' >1?=/6, 12' 1 ' [-6 ' 1-' .1?*' 12*' 2*6-/ ' >12, *?=1-6- ' 8 ,) ') ?% 2*' 1 ' ,) *' 5-*6, *. , ' 0 >; /, *.' >122*>, *0' 8 ,) ' ,) *' 6=, + , ' 620' ,) *' -*, ; -2' ? ; . , ') 6+*' D**2' ,) *' ?6 2^ , *262>*' 1 ' ,) 6, ' 5*2*6/15 >6/' 0 ., - D ; , 12' 1 ' ,) *' /620.' 8) >)' *, ' 86.' 6' + , 6/' =1 2, ' 1 ' ,) *' B*8 .)' *>121? % >>1-0 25/ ' , ' 6==*6-.' , 1') 6+*' D**2' 12*' , 1' 8) >)' D1,) ' [-6' 620' *) *? 6) ' 56-*2*. ,) *-' *6-2*. , ' 6, , *2, 12' 6.' 6+ 0' : *[*9 6D' 620' 1,) *-' 9 25.') 60' 012*' D* 1-*' ,) *? % 21,) *-' 0 >; /, ' 2, ?6, */ ' >122*>, *0' 8 ,) ' ,) .' 86.' ,) *' ?6 2, *262>*' 1 ' ,) *' (*?=/*' .*-+ >*.' 6, ' B*-; .6/*?% ( ) .' >1; /0' 12/ ' D*' * *>, *0' D ' ,) *' -*. ^ 0*2>*' 1 ' ,) *' =- *. , .' 620' *+ , *.' 2' B*-; .6/*?' 2' ,) *' 1-0*-' 1 ' ,) * -' >1 ; -. *.' 620' ,) .' -*. 0*2>*' 86.' 12/ ' =-6>, >6D/*' 2' >6.*' 1 ' ,) *' =6 ?*2, 1 ' ,) *' 6==1 2, *0' , ,) *. ' =*>6.*0' ,) *' =- *. , .' 620' *+ , *.' 8*-*' 1D/ 5*0' , 1

0 .=*-.*' ,1' ,)* -' 182' + //65*.' ,1' 1D,6 2' 6' / +*/)110' 620' ,)*' (*?=/*' .*-+ >*.' 8*-*' 2*5/*>,*0% ;,' ,)*2 ' 656 2' ,)*' -*5 .,*-.' 1 ' ,)*' *+ , *6/ 5*2*6/15 *.' 8*-*' 2*>*.-6- ' 2' 1-0*-' ,)6,' ,' ? 5),'D*' 92182' 8)1' 8*-*!' *2, ,/*0' ,1' .;>)' 620' .;>)' 6//18 62>*.' 6.' =1-,*-.' 6.' . 25*-.' 6.' =-.*.,. ' 620' .1' 12 ' D*>6;.*' 6// ,)*.*' 1 >*.' 8*2,' D ' 6? / *.!' 620 ' 656 2 ' ,)*' =6 ?*2,' 1 ' ,)*' , ,)*. ')-.,C -; ,.. ' *,>% ' 86.' 0*=*20*2,' ;=122' ,)*' 0 *-^ *2,' 6? / *.' 1 ' .-6*/ D* 25' 5' .,6D/ .)*0' *6>)' 2') .' 2^)*- ,62>*% D+ 1;./ ' ,)*-* 1-*' 12*' 1 ' ,)*' ?1.,' =-*.. 25' 862,.' 1 ' ,)*' B*8 .)' >1? ?;2 , ' 6 ,*-' ,)*' -' -*, ;-2' -1?' 6D /12' 81;/0' D*' ,-; ., ' 5*2*6/15 >6/' -*>1-0. ' 620' ' ,)*-*' 8*-*' 62 ' .;>)' 2' *L .,*2>*' ,)*' 6--625*?*2,' 620' =;D >6, 12' 1 ' ,)*?' 81;/0' D*' 12*' 1 ' ,)*' 5-*6,*.,' .*-+ >*.' 6'=*-.12' 2' [-6 .' . ,;6, 12' >1;/0' >12 *-% ;,' ;-,)*-' 21,' 12/ ')60' U*-;DD6D*/' M [-6' ' '+ X' 620' 6 ,*-') ?' [-6' 620' *)*2 6)' M [-6' / ' + ' *)%+ '+ X' /6D1-*0' ?1.,' *6-2*../ ' 2',)*',**,)' 1 ' ??*2.*' 0 >;/,*.',1' -*.,1-*',)*' (*?=/*' 620',)*' =;D/ >' 81-.) =' 1 ' 410' ,)*-*' ,1' ,)*' >120 , 12' ,')60' D**2' 2';20*-',)*' 9 25.' 1 'B;06) ' D ;,' ,'6==*6-.' >/*6-^ / ' -1?' ,)*' -' =1/ > ' 620' -1?' ,)*' /625;65*' 1 ' ,)*' >12,*?=1-6- ' =-1=)*,.' : 6556 ' 620' U*>D6-/6D ' ,)6,' ,)*')60' ,' ? ;>)' 6,')*6-,',1' -* 2 ;.*' .1?*,) 25' 1 ' 26, 126/ / *' 620' .= - ,' 2,1' ,)*' D1.127 1 ' ,)*' =*1=/*' 620',1' ?69*' ,)*?' **/ ,)6,' ,)* ' 8*-*' ., // ,)*' 2)*- ,^ 1-.' 1 ' 410 .' >1+*262,*0' ?*-> *. ' 620' ,)6,' ,)*' 6=, +^ ,')6>/ 12/ ' ,*?=1-6- / ' 2,*--;=,*0 ' 21,' 0- *0' ;=' ,)*' .,-*6?' 1 ' 410 .' 6+1-',1' ,)7 -' 26, 12% 18' 21,) 25' >1;/0' ?1-*' * *>,;6// ' 6 0' ,)*.*' = 1;.' 620' =6,- 1, >' 0*. 52.' ,)62' .*,, 25' D* 1-*' ,)*' =*1=/*' 6' >1?=* 0 1;.' / .,1- ' 1 ' ,)*' 9 2501?' 1 ' 6+ 0' 8)>)' .)1;/0' *?^ D-6>*' 6' ;// 6>>1;2,' 1 ' ,.' =-1.=*- , ' .)1;/0',-6>*' ,)*' . 2.' 8)>)' /*0',1' ,.' 1+*-,)-18 ' D ;,' .)1;/0' >6-- ' ,)*' ,)-*60',)-1;5)',)*' =*- 10' 1 ',)*' 6=, + , ' 620' >12^ , 2;*' ,' 6.' ,' 8*-*' ;2D-19*2' 12' ,)*' 1,)*-' . 0*' 620^ ,)1.*' =6..65*.' 2' ,)*-' 1-?*-' .,1- ' 81;/0' D*' *.=*^ > 6// ' ?=1-,62,' 8)>)' *L) D ,*0' ,)*-' 5-*6,*.,' 620' D*.,' 9 25.' 6.' *2565*0' 2' D ; /0 25' 1-' -*.,1- 25' ,)*' (*?=/*' 2' -* 1-? 25' 6//>1--;=, 12.' 2' -*/ 5 12' 620' [*6/1;./ '-*5;/6, 25',)*' .*-+ >*.' 1 ',)*')1;.*' 1 '410% .' -*56-0.',)*' 9 2501?' 1 ' .-6*/' 1-' 6?6-6' .** 25' ,')60' ;,,*-/ ' 620')1=*/*../ ' =6..*0' 686 ' 620',)6,' ,)*' *L ., 25' 2)6D ,62,.' 8*-*' 6?125',)*' D ,,*-*.,' '60^ +*-.6-*.' 1 'B;06)' 620' *2A6? 2 J' ,' 81;/0' 26,;-6// ' *2565*' +*- ' / ,/*' 1 ',)*' >1?= /*- .' 6,,*2, 12% (.*' >12. 0*-6, 12.' *L=/6 2' *L6>,/A',)*' 0*. 52' 1 ',)6,' ,^ ,1- >6/ 81-9' 8)>)' >12. .,.' 1 ',)*' ,81' D119.' 1 ')-12^ >/*.' 620',)*' D119' 1 ' [-6% 1-' 6 ,*-')6+ 25' 2',)*' -.,' *5),' >)6=,*-.' 5 +*2',)*' 5*2*6/15 >6/' 0 + . 12.' 620' .*,,/*?*2,.' 1 ',)*' +6- 1;.' ,- D*.' ,)*' >1?= /*-' ?6-9.' 0 ., 2>,/ ') .' 182' 65*' 620') .' 182' =;-=1.*' D ' 2 1-? 25' ;.' 2' >)% L ' 1 ',)*' 0 .,;-D62>*' 1 ',)1.*' .*,,/*?*2,.' D ',)*' 6D /12 .)' 6=, + , ' 620' 2',)*' 1//18 25' +*-.*.' 1 ',)*' =6-, 6/-*.,1-6, 12' 1 ',)*?' 6,' ,)*' -*.,;-2' -1?' 6D /12' MKCK XT' 620',)6,',) ./ .,'-*^ *-.',1',)*' 6? / *.' 8)1')60' -*.;-2*0' -1?' 6D /12' .' >/*6-' 21,' 12/ ' -1?',)*' >12,*L,' D ;,' -1?',.'-* 2.*-^ , 12' *)% L ' CKK' 8 ,)' 600 , 126/ ?6,,*-' *+ 0*2,/ ' *L,-6>,*0' -1?',)*' =;D/ >' 6->) +*. ' 620' -*/6, 25',1' ,?*.' ;D.*_:*2,',1',)*' -*,;-2' -1?' 6D /12' *L,*20^ 25',1' *)% L ' K ' 8)*-*' *)*? 6) .' 26--6, +*' .' 656 2'-*.;?*0' 2' >12, 2;62>*' 8 ,)' *)% L ' K% : 6+^ 25',);.')182',)*' -*C*.,6D/ .)?*2,' 1 ',)*' -*,;-2*0' 6? / *.' *6>)' 2',)*' -' 182' 2)*- ,62>*' 6>>1-0 25',1' ,)*' D1;.*.' 1 ',)*' -' 6,)*-.' ,)*' >1?= /*-' =-1>**0.' ,1' ,)*' 1,)*-' =6-,' 1 ') .' =/62 ' 8)>)' .',1' 5 +*' 6' >12, 2;^ 1;.') .,1-A' 1 ',)*' 9 2501?' 1 'B;06)' -1?' 6+ 0',1') .' 182',?*.' 2,-10;>*0' D ',)*' >/1. 25' .>*2** 1 ' 6;/.' / *' M>)% LX' 8)>)' 2,-10;>, 12' .' ,.*/ ' =-* 6>*0' D ' 6' 5*2*6/15 ' 1 ',)*')1;.*' 1 ' 6;/ M L ' NSC X' *L,-6>,*0' -1?',)*' 5*2*6/15 >6/ ,6D/*.' 0-682' ;=' 2',)*' -* 52' 1 ' 9 25' :*[*9 6)' 6.' .' 6,' 12>*' ?62 *.,' D ' >1;2, 25',)*' ,)-,**2' 1-' 1;-,**2' 5*2*-6, 12.' -1?' B126,)62',1',)*' .12.' 1 ' [*/ 2>/;.+*' *L6>,/ ' >1--*.=120 25',1',)*' 1;-,**2' -1?' 6+ 0',1' : *[*9 6)' 2>/;.+*% ( ) .' =6-,' 1 ',)*' =/62' *L,*20.' -1)' ')-12% L ' N ',1',)*' *20' 1 ,)*' D119' 1 ' [-6' ')-12' L+CLL ' LL CLL LT' K)-12% L CL+' LL +CLL+ ' LL LCLLL ' 620' LLL+' 6-*' 6?125',D*7=6..65*.' 8)1// '1-' 2' =6-,'=*>;/ 6-',1',)*' D119.' 1 ')-12>/*.' 8)>)' ?6-9',)*' =;-=1.*' 1 ',)*' >1?=/*-' 620' 6-*' *.=*> 6// ' .;,*0',1',)*' 65*' 220',)*' 81-9' 1 'B [-6 M_% +%X% % $ % ' ,' .' *+ 0*2,',)6,',)*')-12 >/*.' 8*-*' >1?=/*0' 21,' 12/ ' -1?' 1-?*-' 2.= -*0' 8-,*-.' D;,' 1-',)*' ?1.,' =6-,' -1?' =;D/ >' -*>1-0. ' -*5 .,*-.' 620' 5*2*6/15 *.' D*/125 25' ,1',)*' B*8.% ()6,' 26, 126/ 6226/.' *L .,*0',)*-*' >62' D*' 21' 01;D,% ()*' 6-*' *L^ =-*../ ' ?*2, 12*0' 6.' 2' ')-12% dL+ ' K % ()*' >12,6 2*0' 62' 6>>1;2,' 1 ',)*' ?1.,' ?=1-,62,'*+*2,.' 2' ,)*') .,1- ' 1 ',)*' : *D-*8.' 620' 8*-*' 5*2*-6// '/105*0' 2' ,)*' ,6D*-26>/*' 1-' (*?=/*' 8)*-*' ,)*' >1;/0' ?1.,' >12+*2 *2,/ ' D*' >12. ;/,*0% ()*' 1//18 25'6-*' ,)*' *L=/ > ,' 'D ',)*' >1?^ = /*-') ?.*/ ',1' 1/0*-' ?*?1-.' 1-') .,1- >6/ 81-9.' M X' ()*' D119' 1-' 8' 1 ' 6?;*/ ,)*' .**-,)*' D119' 1 ' 6,)62',)*' =-1=)*,' 620',)*' D119' 1 ' 460',)*' .**-' M ')-12% LL L ' KRX% () .' >6221,' ?*62',)*' 2.= -*0' D119.' 1 ' 6?;*/ ' D*>6;.*',)* 701' 21,' >12,6 2',)*' *2, -*') .,1- ' 1 ' 6+ 0' M ') .' 6>,.' -.,' 620' /6.,JX% .' -* *-.',1' 6') .,1- ' 1 ') .' 182',?*.' 8-,,*2' D ' 6?^ ;*/ ' 620',1' 6' >12, 2;6, 12' 1 ' ,' *?D-6> 25' .;>>**0 25' , ?*.' 8-,,*2' D ' 6,)62' 620' 460' -1?' 8)>)' ,' .' =-1D6D/*',)6,' =6-,' 1 ',)*' >12,*2,.' 1 ',)*' =-*.*2,' D119.' 1 ' 6?;*/ 86.' 0-682% * · 'g & ! MKX' ()*' D119' 1 ' 6,)62',)*' =-1=)*,',)*' =-1=)*> '1 ') A6)',)*') /12 ,*' 620',)*' +. 12.' 1 ' 001',)*' .**-'MK')-12% L ' KRX% * · 5 · 'g ? ! MNX' ()*' D119' 1 ')*?6 6)',)*' =-1=)*,' 620' 1 ' 001',)*' .**-' G(' 1-' 6.' * & *,,* ,-62./6,*.' , ' " ' 9 = 'MK')-12% L ' X% * · ! M X' ()*' 1' 1-' -6,)*-' ,)*' % M N7IH7' 9 "8' 1 ',)*' =-1=)*,' 001' MK')-12' L ; ' KKX% M1X' ()*' D119' 1 'B*) ;' ,)*' .12' 1 ' : 6262 ' 2.*-,*0') ' ,)*' D119' 1 ',)*' 25.' 1 ' .-6*/' MK')-12% LL ' N X% * *!(· $! MSX' ()*') .,1- ' 1 '$[[6D' D ' .6 6)',)*' .12' 1 ' ?1[' MK' MA)-12% LL+ ' KKX% M X' ()*' + . 12' 1 ' .6 6)',)*' =-1=)*,' 2',)*' D119' 1 ',)*' 25.' 1 'B;06)' 620' .-6*/' MK')-12% LLL ' NKX% * · ! M * 4*.*2;.' ' ' 'D :' 6 f' g %X' MQX' ()*' .6 ^ 25.' 1 ,)*' .**-.' MK')-12% LLL ' RX% * : 1[% MRX' ()*' 2,*-=-*,6, 12' 1 ',)*' D119' 1 ',)*' 25.' MK')-12% LL + ' K X% M X' ()*' D119' 1 ',)*' 25.' 1 'B;06)' 620' .-6*/' MK')-12% L+ ' T' LL+ ' KST' LL+ ' T' LL+ ' KST' LLL+ ' K T' LLL+ ' QX% () .' >1;/0' 21,')6+*' D**2' 1;-'=-*.*2,' D119.' 1 ' 25. 'D;'% ' 1' D*>6;.*' 2' .*+*-6/' 2.,62>*.' 8)*-*' ,)*' -*60*-' .' -* *--*0',1' ,)*?' 1-' 6-,)*-' 2 1-?6, 12' 1;-' D119.' 1 ' 25.' >12^ ,6 2' /*..',)62' 8)6,' .' .,6,*0' 2',)*')-12 >/*.' M X' ()*' D119' 1 ',)*' 25.' 1 ' .-6*/' MK')-12% LL ' 7 X% M KX' ()*' 81-0.' 1-') .,1- *.' 1',)*' 25.' 1 ' .-6*/' MK')-12% LLL ' QX% ' .' =-1D6D/ ',)6,' 1.% N ' 620' K-* *-',1',)*' .6?*) .,1- >6/ 81-9% * 1 ' :8 ' o< 3! :WS3' ()*')-12 >/*.' 1 ' 25' 6+ 0' M ')-12 ' LL+ ' K X% M X' ()*' 6?*2,6, 12.' MK')-12% LL 9+ ' KSX% () .')18*+*-')6.' D**2',)1;5),' D ' .1?*' 21,' 1' ?*62',)*' 6?*2,6, 12.' 1 'B*-*?6)' 8)>)' 8*' 218')6+*' D;,' 1,)*-' 6?*2,6, 12.' >1?=1.*0' D ',)*' =-1=)*,' 12' " ' "' 'D "*' 620' /125'. 2>*' /1.,% * *) ! 2' 600 , 12' ,1',)*' 6D1+*' 6+18*0' 01>;?*2,.' ,)*' >1?=/*-' ? ;.,')6+*')60' 1,)*-.% ();.',)*' /..' 1 ' 6^ + 0.')*-1*.' ML ' C X' 1 ',)1.*' 8)1' >6?*' ,1') ?' 6,' U 9/65' ML ' CKKX' 1 ' ,)*' >6=,6 2.' =- 2>*.' 1 ',)*' ,- D*.' 620' 1 >*-.' 1 ' 6>*0' D ') 1;.*)1/0' MLL+ X' ',)*' 2;?D*-'620'0 .,- D;, 12' 1 ',)*' *+ ,*.' 620',)*' ?2;.*' 2 1-?6, 12' 5 +*2' -*.=*>, 25' 0 + 2*' 81-.) =' MLL C' LL+ X' ? ;.')6+*' D**2' 0*- +*0' -1?' 8- ,,*2' .1;->,*.' 21,' 2>/;0*0' 2',)*' +' + ') ' ' 'D 9 "!' 1?*' 01>;?*2,.' 6-*' ?*2, 12*0' D ',)*' >1?=/*-' 8)>)')*' 0 0' 21,' ! ();.' 6' 8-, 25' 1 ' / A6)' 60^ 0-*..*0',1' B*)1-6?' .' .=19*2' 1' 2' K')-12% LL ' KI' **' >$5 '

2' ')-1 /% ' R' 8*')6+*' 02 A-' ' *8' -* *-*2>*.' ,1' ,)*' 1- 5 2' 1 ',)*' 5*2*6/15 >6/ $.,.% ( )-1 ; 5) 1 ; ,' ? 1 .,' 1 ',) .'=1-, 12' ,)*' >1 ? = /*-' -*/ *0' 12' .-*5 .,*-. ' 8) >)')*' >6-* ;// ' 1//18*0 ' D ; ,' 01*.' 21,' 0* 2 ,*/ ' > ,*' M *,' .**' ')-12% +' T' + /' ' RT' L' X% /,) 1 ; 5)' ,)*' 5*2*6/15 *.' 1 ' ')-12% C ' K ' 6-*' . ; D . ,62, 6// ' ,)*' .6 ? *' 6.% 2' 4*2*. . ' 5-*6,/ ' 6D- 05*0 ' 620' 8 ,)' ,)*' 1 ? .. 12' 1 '2*6-/ '6//',)*') .,1- >6/ 21, >*. ' ,)*. *' ? 6,^ ,*-.' D* 25' 6/-*60 ' .1' 8*// 92182' 6.' ,1' -*20*<-*=*, ^ , 12' ; 22*>*. .6- ' 6' .,-125 ' D*>6 ; .*' 20 -*>, ' 6-5 ; ^ ? *2,' 1-',)*' 6 ; ,) 1- , ' 1 ',)*% <1.6 >' 8- , 25. '7 *',)*' 5-*6,*-' =1-, 12' 1 ',) 1.*' 8) >)' 1//18' D' 1 ; 20' 218)*-*' */.*% +*2' 2' ,) .' 6D- 05 ? *2,' 1 ',)*' 1/0*-' 5*2*6/1^ 5 *.',)*-*' .' ? 62 *.,*0' ? ; >)' 20*=*20*2>*% 2' =-11 ' 1 ',) .' ,' ,'12/ '2*>*. .6- ',1' 1D.*-+*' .1 ? *' 1 ',)*' 6=^ =*20*0' 21, >*. ' 1% 5I a' ')-12% ' ' : 6060' 0 *0' 6/.1 J' 62' 600 , 12' ,1' 4*2% LLL+ ' NR' ,' D* 25' 2 *--*0' D ' : *25.,*2D*-5' I ? ' " ' "1' ' K X' 620' 1,)*-.' -1 ? ' ,)*' /6,,*-' =6..65*' ,) 6,' //6060' 86.' ., // / + 25' 2',)*', ? *' 1 ' <1.*.% **' % ! ,*-') -12% ' K',)*' 5*2*6/15 >6/ / ...' 6-*' 2,*-.=*-.*0' 8 ,)' ;//*-' 0*,6 / . ' 620',)*' 81-9' 6,,6 2.',1' ? 1-*' >1 ? ^ =/*,*2*..' 620' 20*=*20*2>*% I ,')6.' D**2' 2_; -*0' 8)*,)*-' 1 ;-' =-*.*2,' D119.' 1 ' 6 ? ;*/ 620' 25.' 8*-*' 6 ? 125',)*' .1 ;->*.' 8)*2*',)*')-12 >/*' 8 -,*-' 0-*8') .' ? 6,*- 6/.' H ( )*' _ ;*., 12' .' 62. 8*-*0' 2',)*' 6 -?6, +*' D ' > & >,,>' <1+*-.' 620' /**91' D ' : 6+*? >9' 620' 1,)*-.' 2',)*' 2*56, +*% ( )*' -.,©26 ? *0' >- , >' 600 ; >*.',)-*' 6-5 ; ? *2,.' 2' 6+1-' 1 ',)*') A =1,)*. .',)6,',)*' =6-6//*/ 6>>1 ; 2,.' 8*-*' 0*- +*0' -1 ?' ,)*' *6-/ *-' D119.' 12/ ' 12*' 1 ' 8) >)' 6==*6-.',1' ; .' +6/ 0 ' + [% ',)*' >*-,6 2, ' 1 ',)*')-12 ., .')6+ 25' 92182',)*' *6-/ *-' D119.% ,*-' 0*2 25',)*' 1->*' 1 ' 6//',)*.*' 6-5 ; ? *2,. ' * /*=-1>**0.',1' 600 ; >*' .1 ? *' =1.^ , +*' 5-1 ; 20.' 656 2..',)*') =1,)*. .',)6,',)*' D119.' 1 ' 25.' 620' 6 ? ; */ 8*-*' ; .*0' 6.' .1 ; ->*.% ( )*' >12. 0^ *-6, 12' 600 ; >*0' D ') ? ') 18*+*-' 6-*' . 25 ; /6-/ ' 862, ^ 25' 2' +6/ 0 , ' I16 2 1'=% Q C QK ' -> % Q NX% ' ,)*' >1 ? = /*-' 1 ')-12 >/*.' 92*8',)*' >6212 >6/ D119.' 8) '.)1 ; /0' ,' D*',)1 ; 5),',)6,')*' 6D.,6 2*0' -1 ?' ; . 25' ,)*' ? ' H ( )*' 81 ; /0')6+*' 6> / ,6,*0') .' 81-9% ( )+ 6+1-' 1 ' ?1.,' >12+ 2> 25' =-11 ' ,)6,')*' D1,)' 92*8' 620' ; .*0' ,)*' ?' .' ; -2 .)*0' D ' .1 ? *' 1-, ' =6-6//*/. ' 8) >)' 6->' 1 ,*2' +*-D6/% ( ) ; . ' 2' K)-12% ' C ',)*-*' .' 6' =' -65-6-=)' 6/ ? 1.,' +*-D6// ' >1 2> 0 25' 8 ,)' ' 25.' L ' KS' CKR% 56 2' ')-12 ' L + ' 620' L + ' 6-*' 2' ? 62 ' =/6>*.' +*-D6// ' =6-6//*/ 8 ,)' K 6 ? % + ' 620' + % 1 ? ^ =6-*' 6/.1' ')-12% L L ' CLL ' ' 8 ,)' K 6 ? % LCL T' K)-12% L ' CL ' ' 8 ,)' ' 25.' L ' rK T' K)-12 ' L + ' SC Q' 8 ,)' ' 25.' L + ' NC T' K)-12% LL + ' C 7' C' KN' 8 ,)' K 25.' L + ' CS ' QCK T' K)-12% LLL ' CR' 8 ,)' K 25.' LL ' CRT' K)-12% LLL ' K CK ' 8 ,)' K 25.' LL ' RCKS ' *,>% 1-' >62' 6//',)*.*' >1 2> 0*2>*.' D*' *L=/6 2*0' D ' 6' >1 ? ? 12' ; .*' 1 ',)*' 1/0*-' 01>; ? *2,. ' 1-' 2' ? 62 ' 1 ',)*' =6..65*.' *+ 0*2,/ ' 6D- 05 ? *2,. ' ,)1' >1 ? =-*.. 1201-' .*/*>, 12' .' 0*2, >6/% **' > 4' % ' : 8 ' 3! 2',)*' 1,)*-')620' ?62A7=6-, > ; /6-. ' ? 1-1' *.=*> 6/^ / ' 2',)*'/ +*.' 1 ' 0+ 0' 620' 1/1 ? 12' -*>1-0*0' 2',)*.*' D119.' 6-*' *2, -*/ '=6..*0' 1+*-' 2',)*')-12 >/*.' 620' 2',)*-' .,*60' 6-*' 5 +*2' 21, >*.' 1 ',")*' .,6,*' 1 '-*/ 5 12' 620' 1 '=;D/ >' 81-.) =% M %X' - "]% % " ' " ( )*' ; ? /XJ .>*2*' D*,8**2' < >)6/' 620' 6+ 0' MK' 6 ? % + ' K CKNXT' 6+ 0 .'9 202*..',1' < *=) D1.)*,)'MK' 6 ? % LXT' //.' 60 ; /,*-' 8 ,)' 6,).)*D6' MK' 6 ? ' L ' KCL ' K XT') .' .12' ? 212 .' 0* /*?*2,' 1 ' (6 ? 6-' 620' ,)*' -*D*/^ / 12' 1 ' D.6/1 ? ' MK' 6 ? % L +CL LXT' ,)*' -*+1/,' 1 ')*^ D6' MK' 6 ? % LLXT' ,)*' 0*/ +*- 25' ; =' 1 ' 6 ; /.' .12.',1',)*' 4 D*12 ,.*.' MK' 6 ? % LL ' C XT' ,)*' 86-' 8 ,')*') /^ ., 2*.' MK' 6 ? % LL ' C XT' 6+ 0 .' =.6/ ? ' 1 ',)629.^ 5 + 25' 620' /6.,' 81-0.' MK' 6-6' LL CLL ' XT' 012' A6) 5' 6,,*?=,*0' ; . ; -=6, 12' 620',)*' 621 2, 25' 1 ' 1/^ 1 ? 12' M ' 25.' XT' 6+ 0 .' /6.,' 8 //' M ' 25.' ' CRXT' 1/1 ? 12 .',)-12*' *.,6D/ .)*0' D ',)*'=; 2 .) ? *2,' 1 ') .' 1==12*2,.' M ' 25.' ' NC SXT') .' ? 6-- 65*' 8 ,)')6^ -61) .' 06 ; 5),*-' M ' 25.' ' XT') .' 8 .*' 0*> . 12' M % ' (25.' ' SCKQXT') .' 1 >*-.' 5/1- ' 620' 8 .01 ? ' M ' 25.' +XT') .' .,-625*' 8 +*. ' 620' 01/6,- ' M ' 25.' L % C X% I ( )*' *2, -*' 2 ? .. 12' 1 ',)*') .,1- ' 1 ',)*' 9 25^ 01 ? ' 1 ' /6-6*/ ' *L>*=*,',)6,', ' 86.' >6-- *0' 686 ' >6=, +*' D ',)*' .. - 62.' 6.' 6' =; 2 .) ? *2,' 1-' ,'. 2.' M ')-12% ' K ' KSX' .' 21,*81-,) ' M.**' 6D1+*' g' X% MK%X' % ' ' " ' ( )*/ .,'1',)*)*-1*.' 8)1' >6 ? *',1' 6+ 0' 6,' U 9/65 ' 620' 1 ',)*')1.,.' 8)1' >6 ? *',1' : *D-12',1' ? 69*') ? ' 9 25' M ')-12% L X' 6+ 0 .'=-*=6-6, 12' 1-' D ; /0 25',)*' (*?=/*M>) ' L L X' ,)*' *2 ; ? *-6, 12' 620' 1-0*-' 1 ',)*' *+ ,*.' 620' =-*.,.' M>) % L L CLL+ X' ,)*' 1-0*-' 1 ',)*' 6-? ' 620' ,.' >6=^ ,6 2.' M>) % L L+ X' 6+ 0 .'0 -*T', 12' 2' =; D/ > ' 6..*?^ D/ '.)1-,/ ' D* 1-*') .' 0*6,)' M>) % L L+ ' L L LXT' *)1C D16 ? .' 1-, >6, 12.') .' -*>*=, 12' 1 ',)*' =-*..' 620' *+ ,*.' 8)1' /*0' -1 ? ',)*' 9 2501 ? ' 1 ' .-6*/ ') .' 8 +*.' 620' >) /0-*2' MK')-12% L ' CK XT' D A6) .' 86-' 8 ,)' B*C' 3 -1D16 ? ' ML ' NCK XT')1' 21, >*' 1 ' D A6) .' 8 +*.' 620' >) /0-*2' ML ' K XT' .6 .' 81-9.' 2' 1-, 25') .' 9 25^ 01 ? ' 620') .' + >,1- ' 1+*-' U*- '),)*' ; .) ,*' ML + ' NC XT' 6' =-1=)*>' 1 ' [6- 6D' 8) >)' 20 ; >*0' .6',1' = ; ,' 0182' 01/6,- ' ML+ ' C XT',)*' 600-*..' 1 ',)*' =-1=)*,' : 6262 ' ML+ ' C XT' B*) 1.) 6=) 6, .' *20*6+1-.',1' .-*.,1-*',)*' 81-.) =' 1 ' B*) 1+6) ') .' =18*-' 620' - >)*.' ML+ ' KC' L+ ' XT') .' 2.,-; >, 12.' 620' 1-0 262>*.' 6.',1' A ; 05^ ? *2,' M>) % L LXT') .' + >,1- ' 1+*-',)*' ? ? 12',*.' 620' <16D,*.' MLL ' CN XT') .' =-1+ . 12' 1-') .' .12.' 620' ,)*-' 0*6,)' D ') .' .12' 620' .; >>*..1-' B*) 1-6 ? ' MLL ' KC' XT' B*) 1-6 ? .' 01/6,- ' 620' =; 2 .) ? *2,' MLL ' C RXT' ,)*' 0*6,)' 1 ',)*') 5) C=-*.,' B*) 1 606 ' 620' ,)*' 6=1.C ,6. #71 ' B16.) ' MLL + ' CKKXT' ? 6[6) .' 86-/ 9*' =-*=^ 6-6, 12.' MLL+ ' C XT') .' 01/6,- ' MLL+ ' C SXT' $[C [/6) .' 86-.' + >,1- *.' 620' 1->*.' ML L+ ' SC XT' B1C' ,)6 ? .' 86-' 8 ,)' ,)*' ? ? 12',*.' MLL60 ' CSXT' : *.*C' 9 6) .' -* 1-? 6, 12' 620' =6..1+*-' MLL L ' NCLLL ' K XT') .' - >)*.' MLLL ' CN XT' <626..*) .' >6=, + , ' -*^ /*6.*' 620' -* 1-? 6, 12' MLLL ' C X% MN%X' ' ' ' ' ' " % ' 7()>/ .,' 1 ' 6+ 0 .')*-1*.' M ')-12% L ' C X' 1 ' 8) >)' ,)*' 26 ? *.' M+>-% KC X' 6-*' 862, 25' 2' K 6 ? % LL ' Q' *,>% ,)*' -*?1+6/ 1 ',)*' 6-9' -1 ?' -A6,) CA*6- ?' ,1' <1 ; 2, U 12' M ')-12% L T' L+ ' KCK T' L+ ' C NI' >1 ? = ' 8 ,)' K 6 ? % + XT',)1' >620/*.,>9.' ,6D/*.' 620' >0 ; -/.' 1 ',)*' (*?=/*' I \')-12% +' SCRT' >1 ? = ' 8 ,)' ' 25.' + ' NQ' N XT',)*' 0*.>- =, 12' 1 ',)*' D-6[*2' .>6 1/0' 12' 8) >)' 1/1 ? 12' 92*/',MK')-12% + ' K N' 8 ,)' ' 25.' + ' KKXT' 2' 1/1 ? 12 .' =-6 *-',)1' =6..65*' K')-12% + ' IK' -1 ?' .6' >LLL ' CRT',)*' ? *2, 12' 1 ',)*' -*' -1 ?')*6+*2' >12.; ? 25',)*' D ; -2, C1 / *- 25' MK')-12% + ' *,>%XT',)1' *2/6-5*?*2,'1',)1' 0 + 21' =-1 ? ' MK')-12% + ' K S' 8 ,)' ' 25.' L ' NXT') .)69 .' 2+6. 12' 1 ' B ; 06*67',)*' 600-*..' 1 ',)1' =-1=)*,')*?6 6)' MK')-12% L ' KCQ' 8 ,)' ' 25.' L + ' KNXT' ? 6[6) .' + >,1- ' 1+*-',)*' 01 ? ,.*.' MK')-12% LL + ' C S' 8 ,)' K 25.' L ' XT' $[[6) .' /*=-1. T' ,..' >6 ; .*' MK')-12% LL + ' SCK a' 8 ,)' K 25.' L + ' SXT',)*' =6..1+*-' ; 20*-' B1. 6)' MK')-12% LLL + ' KC R' 8 ,)' K 25.' LL ' K ' *,>%XT M %X' ,)*-' =*>; / 6- , *.' 0 .,25 ; .) 25',)*' 0119' 1 ')-12 >/*.' 620' ,, 25',' 1-',)1' 6/,*-*0' > ->; ? .,62>*.' 2',)*' , ? *' 1 ' ,.' >1 ? =1. , 12' 6->',)*' .; D . , ; , 12' 1 ' ? 10*-2' 620' ? 1-*' >1 ? ? 12' *L=-*.. 12.' 1-' .; >)' 6.')60' D*>1 ? *' ; 2 ; . ; 6/ 1-' 1D.1/*,*' M>)*' 2' ,)*' 1- 5 26/')-12% L ' K' 8 ,)' ' 6 ? % LLL ' KT' ')-12% L + ' KR' 8 ,)' K 6 ? % + ' S' *,>% ' =6-, > ; /6-/ ' ,)*' .; D . , ; , 12' 1-',)*' 1/0' 26 ? *.' 1 ' =/6>*. ' ,)1.*' 8) >)' 8*-*' 2' ; .*' 2',)1' 8 - ,*-.' 182' 06 ' ,) ; .' 4*[*-' M ')-12% L ' X' 2.,*60' 1 ' 41D' MK' 6 ? % LL ' QXT' D*/ <6 ? ' D*/ 12' ,)*' 86,*-' \ <*-1 ? N' MK')-12% L + T' X' 2.,*60' 1 ' D>/C' D*,)C<66>)6)' M ' 25.' L + ' K XI' 1' 6/.1',)*' 1 ? ... 12' 1 ' 5*15-6=) >6/ 26 ? *.' 8) >)' 60' D*>1 ? *' ; 2921 82 ' 1-')60' >*6.*0',1' D*' 1 ' 2,*-*.,' 6.' : */6 ? ' MK' 6 ? % L ' S X' 1 ? ,,*0' 2' ')-12% L L ' T' .1' 6/.1' U6 ,' MK' 25.' + ' K T' >1 ? = %72,)' K')-12% LL ' RX% *>' =6-, > ; /6-C K 6 ? % L L + ' CQ' >1 ? = 6-*0' 8 ,)' ')-12% ' LL ' % ( )*-*' .' 6/.1',)*' *20*6+1-',1' .; D . , . ; ,*' ? 1-*' 0* 2 ,* *L=-*.. 12.' 1-' .; >)' 6.' 8*-*' 20* 2 ,*' 620' .2' =1.^ . D/ ' 6 ? D 5 ; 1 ; .' M6.' K' 4 //-12%% LLLL ' NT' >1 ? = ' 8 ,)

K' 25.' L+ 'NT' K')-12% L . + 'K '8 ,)'K' 25.' LL ' SX%
,)*-'/ .,.' 1>>;-' 2')-12%' 8) >)' 6-*' 5 +*2' 8 ,)' >12. 0*-6D/*' *L,*2. 12' 1-' 2' 6' 0 / >-*2,' >122*>, 12' 2' ,)*' *6-/ *-'D119. ' *% 5%',) *' 62>*.,1-.' 1 ' 6+ 0 ' ')-12% ' C KT' >1?=% ;,)' + ' RCKK% , // 1,)*-'/ .,.' 6-*' =*>;/ 6-',1',)*')-12 >/*. ' 6.' % 7CSNT' ' SCK T' + ' KCKN ' N C NT' + ' CK4 ' NNCNST' + ' CN % ()*.*' /6,,*-' 5*2*6/15 *.' 6-*' 1D+ 1;./ ',-62.>- D*0' -1?' .1?*'-*5 .^ ,*-' 2' 8) >)' 8*-*' =-*.*-+*0',)*' 5*2*6/15 *.' 1 ',)*' ,- D*.' 620' 6? / *.' 0-682' ;=' 6,'0 *-*2,', ?*.% () .' 6==*6-.' -1?',)*' +*- '0 *-*2,' 65*.' 6,' 8) >)' 0 *-^ *2,' 5*2*6/15 *.' ,*-? 26,*' 20 >6, 25' 1' >1;-.*' ,)*' =6-, >;/6-'-* 52' 8)*2' *6>)' 86.' 0-682' ;=% ();.' *% 5%',)*' / 2*' 1 ',)*') 5)C=- *.,.' M ')-12%+ ' C X' ?;.,')6+*' D**2' 0-682' ;=' 0;- 25',)*' 6=, + , T' ,)6,' 2' C N' 2',)*' , ?*' 1 ' 6+ 0' 1-' 1/1?12T' ,)1.*' 1 ' :*?62' 620' .6=)' 2',)*' .6?*' >)6=,*-' 2',)*' , ?*' 1 ' 6+ 0T' ,)6,' 1',)*' .12.' 1 'U*-;DD6D*/ M ')-12% ' RCK X' 6.' /6,*' 6,'/*6.,' 2.',)*' >/1.*' 1 ',)*' >6212 ' 620' .1'12%
()*' .6?*' 8 0*' 0 +*-5*2>*' 2',)*' 65*' 1 '1,)*-'?6^ ,*- 6/.'*?D10 *0' 2',)*' D119.' 1 ')-12 >/*.' .'6/.1' 6=^ =6-*2,% ();.',)*' 2 1-?6, 12' 2' ')-12% ' >12>*-2^ 25',)*' 9 25.' 1 ' 01?' D* 1-*',)*' -* 52' 1 ' 6;/ ' 86.' 1D+ 1;./ ' >1?= /*0' -1?' +*- ' 62> *2,' .1;->*.% ()*' .6?*' ?6 'D*' .6 0' 1',)*' 2> 0*2,' 1',)*' ./6;5),*-' 1 ',)*' .12.' 1 ' =)-6 ?'D ',)*' 4 ,, ,*. ' ')-12% + ' K T' + ' NT' 620' 1',)*' 6>>1;2,' 1',)*' .12.' 1 ')*/6' 620' ,)* -'01? 2 12' 2' <16D' ')-12' + 'K KK% ()*' ? /^ ,6- '>*2.;.' 1',)*' ,- D*.' 1' ..6>)6-' *2A6?/' 620' .)*-' 2' ')-12% + '*+ 0*2,/' 1-?*0'=6-,'1',)*-.*^ ,;-2.' ?60*',1' 6+ 0' MK' 6?% LL + 'RX% ()*' >;-1;' 0*,6 /.' >12>*-2 25',)*' *;D*2,.*.' 620' 460,*.' 2')-12% + '?;.,')6+*' D**2' 0-682' -1?' >12,*?=1-6- ' 01>;?*2,.'*?D10 *0'=-1D6D/' 2',)*' 5*2*6/15 >6/-*>^ 1-0.' 1 'B1,)6?'C62OB*-1D16?'8)/*' 1,)*-'-*>1-0.';.*0' D',)*' >1?=/*-' 6-*' 6.' /6,*' 6.' 6 ,*-',)*' -*,:-2' -1?' 6D /12' .;>)' 6.' ')-12% L 'K'.._%T' K')-12' LLL+ ' K '._%T' 620' 1,)*-.' 6.' [-6' '620' + 'SCKN' 6-*' 6.' /6,*' 6.',)*' ,?*' 1 ' -,6L*-L*.' 620' *)*? 6)% : 7*2>*' ,.' ;-,)*-' ?62 *.',)6,',)*' D119.' 1 ')-12 >/*.' 620' [-6',)1;5)'=:,' 2,1',)*-'=-*.*2,' 1-?'D '12*')620' >12,6 2' 2' 6>,' *L,-6>,.' -1?',)*' 8-, 25.' 1 '?62 '0 ^ *-*2,' 8-,*-.' 8) >)' ' ' ' ' ' ' 9 % ' ' ! 1-',)*' ;//' 6>>1;2,' 1 ',)*' -* 52' 1 ' 6+ 0 ')*' ?60*' >1= 1;.' *L,-6>,.' -1?',)*' D119.' 1 ' 6?;*/ ,)*' .**-' 6,)62',)*' =-1=)*,' 620' 460',)*' .**-' M ')-12% LL L 'KRX% 1-',)*' -* 52' 1 ' 1/1?12')*' >1= *0' -1?' 'I,)*' D119' 1 ' 6,)62 J' -1?' I',)1' =-1=)*>' 1 ') A6)',)*') /12,* J'620' -1?' ,)*'+ .^ 12.' 1 ' 001',)*' .**-J' MK')-12% L 'KRX% 21,)*-' 81-9'1 ' 001' .;==/ *0' 62' 6>>1;2,' 1 ',)*' 6>,.' 620',)*' 86 .'620' .6 25.' 1 '9 25' D A6)'ML 'KKXT' 8) /*' *;' ? 1,)*-' D119' 1 ' 001' >12>*-2 25' 5*2*6/15 *.' 8 ,)',)*')119' 1 ',)*' =-1=)*,')*=66 6D' >12,6 2*0',)*' 6>,.' 1 ' 9 25' *)1D16?'ML ' X' 1-'/6,*-',?*.',)*' 119' 1 ',)*' 9 25.' 1 ' .-6*/ 620' B ;06)J' .' -*=*6,*0/ '>,*0' MK')-12% LL+ 'KST' LL+ ' T' LLL 'NKT' LLL ' Q' *,>%X'620' ,)*' .6 25.' 1',)*' .**-. J' 1-'=*-)6=.' 1 ' 1C [6 ' MLLL ' RXT' 620' 1-',)*' -* 52.' 1 ' $[[6)' 620' :*[*9 6)' ,)*' + . 12' 1',)*' =-1=)*,' .6 6)J' MLL+ ' KKT' LLL 'NKX% 2' 1,)*-'>6.*.' 8)*-*' 21' -* *-*2>*' ' 7?60>',1' 62 'D119' 6.'>12,6 2 25' 6-,)*-' 2 1-?6, 12' ' .' =-1D6D/*' ,)6,' ,)*' 8)1/*' 6>>1;2,' 1 ' .;>)' -* 52' ' ,-62.>- D*0% *. 0*.',)*' 6D1+*C26?*0' 81-9.',)*-* 86.' 6/.1',)*' =;D/ >' 26, 126/' -*>1-0 '>6//*0' D119' 1 ' ,)*')-12 >/*.J' ?*2, 12*0' 2 * 6% L 'KN' -1?' 8)>)' 01;D,/*..' ,)*' =-*.*2,')119.' ,119',)*-' 26?*'620' -1?' 8)>)',)*' 5*2*6/15 *.' 620' 1,)*-' ?6,,*-.% 2',)*?' 8*-*' =-1D6D/' 0*-+*0' 620' 8)>)'6-*' 6//;0*0',1'6.')6+ 25'*L .,*0'6.'*6-/ '6.',)*' 6D/ ',)*' .6?*' 6.',)1.*' M,)*' 6D1+*' -* *-^ -*0',1'6.' 8-.,,*2'D ' 6?;*/' 6,)62'620' 460% -1? ,) .',?*',)*' 6 6-.' 1 '*6>)'9 25 .'-* 52' 8*-*' -*5, /6-' / '-*>1-0*0' 2' 6' D119' >6//*0' 6,' -.,' ,)*' D119' 1 ',)*' 6>,.' 1 ' 1/1?12J' ' 25.' L ' X D ',)*' 26?*' 1 ',)*' 9 25 '6.' D* 1-*' 1 ' 6+ 0 'D;',6 ,*-^ 86-0.' 2' D1,)'9 2501?.' D ',)*' 5*2*-6/' 26?*' 1 '>)-12^ >/*.' 6.' 2',)*' >12.,62,/ C-*>;-- 25' 1-?;/6 ' 18' ,)*' -*.,' 1 ',)*' 6>,.' M$`!EN X' 1 ' *)1D16?' D A6 2' *,>%T B*-1D16?' 606D' *,>%' 6-*',)*' 21,' 8-.,*2' 2' ,)*' D119' 1 ',)*')-12 >/*.' 1 ',)*' 9 25.' 1 'B;06)J' ' 1 ' .-6*/J' M ' 25.' L +' KQT' L+ ' *,>%XH' ().' >12, 2;*.',1',)*' *20' 1 'B*)1 69 ? .'-* 52' 6.' 6==*6-.' -1?' K' 25.' LL +' T' K')-12% LLL+ ' Q% ,' 86.' 01;D,/*..' -1?',) .' >1?? 12' .1;->*',)6,',)*' =6..65*.' 2',)*' D119.' 1 ' 6?;*/ 620' 25.' 0*2, >6/ 8),)',)*' D119.' 1 ')-12 >/*.' 8*-*' 0*- +*0% //',)*.*' .*+*-6/ 81-9.')6+*' =*-.)*0'D;',)*' ?1.',?=1-,62,' ?6,,*-.' 2',)*?')6+*' D**2' =-1+ 0*2, 6// '=-*.*-+*0',1';.' 2' ,)*')-12 >/*.% % ' ' ' ()W >-*0 ^ D / ' 1',)*')119.' 1 ')-12 >/*.') 6.' D**2' 5-*6,/ '>12^ ,*.,*0' D '-6, 126/.,>' 8-.,*-.' D;',D ' 212*' 8 ,)' ?1-*' *26> ' ,)62' *' & *.,*' -.,' 2') .';' / '6 = ' M : 6//*' Q S' ' C NKX' 620' .;D.* _:*2,/' 2',)*' .;>>*.. +*' *0 , 12.' 1 ') .' 6 1' 8)*-*')*')6.' D-1;5),',15*,)*-' *+*- ' .1-,' 1 '0 >;/, ' 620' 6//*5*0' >12,-60 >, 12' ?62 ' 1 ' 8) >)' -*.,' 12/ ' 12' 6..;?=^ ,12.' 8) >)' 81;/0' 21,' D*' ,1/*-6,*0' '6==/ *0',1' 62 ' 1,)*-',)62' 6' D/ >6/' 8-,*-% ,' 20**0' >6221,' D*' 0*^ 2 *0',)6,' ?62 '0 >;/,*.' 01' *L .,' 2',) .' =1-, 12' 1 ' >-=,;-*' 620' 21,' 6' *8' 6==6-*2,' >12,-60 >, 12.' D*^ ,8**2',.' .,6,*?*2,.' 620',)1.*' 1',)*-',)-1- >6/ D119.' =6-, >;/6-/ '6.'-*56-0.' =-1=*-' 26?*.' 620' 2;?^ D*-.'T D;',)*.*' *+*2' ' ,)*' >6221,' D*' .6, .6>,1- ^ /' *L=/6 2*0' .>6->*/' 86--62,'>6// 25' 2' _;*., 12',)*' . 2>*-,' 1-',)*' >-*0 D /,' 1',)*' 8-.,*-% ();.' 1-' 2.,62>*' ,' .' 1DA*>,*0',)6,' ')-12% X' S' .%6' 6/.*' >1?D 26, 12' 1 ' ' 25.' +' \ + 'N hT');,', 0,) 257.' ?1-*' >1?? 12',)62',)*'-*>;--*2>*' 1',)*' .6?*' 26?*.' 2' 0 *-*2,' 6? /*.' 620',-D*.' 620' 6,'0 *-*2,' =*-.^ 10.T' 620' 6/,)125)' :6+*-2 >9' ;22*>*..6-/' 60? ,.' ,)67' .1?*' 1',)*' 26?*.' 2',)*',81'=6..65*.'6-*' 0*2, ^ >6/' ,' 81;/0'>*-,6 2/ ' 20 >6,*' -6-*' >12 ;. 12' 12',)*' =6-',1',)*' 8-,*-' 1',)*')-12 >/*.',1' D- 25',15*,)*-' ,?*.' 620' =*-.12.' .1' 6-' 6=6-,' -1?' 12*' 621,)*-% ,)62',)*' [-6),*'1',)*' 6? /'1'<*-6-'M ')-12% + ' KR' \ hX' 86.' 12*' 1 ' 6+ 0 .' ?6.,*-.' 1 '.125' M ')-12% L+ ' X' 620',)*' 6;,)1-' 1 ' .6% LLL L% : *C' ?62' 6/.1' 62' [-6),*' 620' 6;,)1-' 1 ' .6' LLL+ ' 86.' 6'/*60*-' 1 ' 6+ 0 .' .6>-*0'>)1-'M ')-12' L+ ' X' 620' ,' .';,,*-/ ' 2>12>* +6D/*',)6,'=*-.12.' 6.' ,'81;/0' 6==*6-' .1' 8*/' 92182',1',)*' 8-,*-' 1',)*')-12 >/*.' .)1;/0' .1' 2>12. 0*-6,*/ 'D1' -*>912*0' 6?125',)*' =1.^ ,*-.,' 1 'B;06)' 620' 6..52*0',1' 6',?*' .1' /125' 62,*^ >*0*2,',1',)6,'1' 6+ 0% *** % ! ()*-*' 6-*')18*+*-' -*6/' 0 >;/,*.'=6-,>;/6-/ ' 2' ,)*' 5*2*6/15 >6/,6D/*.' 620' 6/.1' 2' +6- 1;.' 2;?*- >6/ ..6,*?*2,..' 620',)*.*' ,' ?6 'D*' .;==1.*0' 6-1.*' 2' 6' 5-*6,' ?*6.;-*' -1?' >1--;=, 12' 1',)*L*L,T' 1-',' .' 2' .;>)' >6.*.',)6,',)*-*' .',)*' 5-*6,*.,' 6> / ,' 1-',)*')-12 >/*.' .-*' 620',)*'=*-=*,;6, 12' 1' 6/.*'-*60 25.',)*' >12,*L,' 6 1-0 25' / ,,/*' 6 0' (1-',)*' -' 0*,*>, 12' 1-'-*>, >6, 12' ' 0*,*>,*0% ()*' ,*L,' 1',)*')-12 >/*.' ;-2 .)*.' ?62' 2..62>*.' 1',;>)' >6.*.',)6,',)*-*' .',)*' >1--;=, 12.' 6/,)1;5)' 2' .*+^ *-6/ >6.*.' 8)*-*' ,'0 *-.' -1?',)*' >1--*;=120 25'=6.^ .65*.' 2',)*' D119.' 1 ' 6?;*/ 620' 1 ' 25. ' ,' .'A;.,' 6.'=1.. D/*',)6,',.')18.',)*',-;*'-*60 25% '-*?6-9C' D/*' >6.*' .')-12% + ' N' \KQh' 20',)*' .12.' 1 ' 6?;*/,)*' -.,CD1?' 6.)2'620' D 6)J' >1?=' 8,)' ' 6?% + 'K' ' 18',)*' 26?*' 1 ') .' -.,CD1?' 86.' B1*/'620',)*' 26?*' 1 ') .' .*>120' D 6)%J' ,' .' *6. ',1' .**)18 ,) .' >12,-60 >, 12')6.' 6-.*2% ()*' 26?=' B1*/)60' 6//*2' 1;,' 1 ' ')-12% + ' N' 620' .1?*' ,-62^ .>- D*-'.** 25',)*' 2*>*.. ,' 1-'.1?*' 26?*' 6 ,*-' ,)*' .*>120 J' 2,1' 6' =-1=*-' 26?*' 6.)2 % ()*' ? .^ ,69*' .' 6.' 1/0' 6.',)*' *=,% ''1' --%),1' 6 ' >67

?*12 ,*.' 6-*' .6 0' ,1' =1..*..' ,)*' .*6,.' 1 ',)*' ?6/C' >9 ,*.' 2' <1;2,' * -' 08*// 25' ,)*-*' I' ;2,1',) .' 06 J' M ')-12% + 'b\' NX' 6/,)1;5)'/125' =- 1-' ,1',)*' >1?^ =1. , 12' 1',)*') .,1-E ',)* ')60'D**2'-*?1+*0' -1?'6// ,)* -' =1..*.. 12.% 1' 6/.1' 2',)*' 6>>1;2,' 1',)*' -*^ ?1+6/ 1',)*' 6-9',1' 1/1?12.' (*?=/*' ,' .' 600*0' 620',)*-*' ,' .';2,1',) .'06 J'MK')-12% + 'RX%

!' ;','1'?1-*' ?=1-,62>*7' .',)*' 20 -*>,'>12 -?6^ , 12'5 +*2',1' .*+*-6/ .,6,*?*2,.' 2',)*')-12 >/*.' D ' 1,)*-'=6..65*.'1 ' >- =,;-*% ();.' :*[*9 6) .'=-*=6^ -6, 12.' 2' 1-, 25' B*-;.6/*?' 8)*2',)-*6,*2*0' D ' *226>)*- D ' D .' .,1== 25',)*');2,6 2.' 620',)*' D-119',)6,' -62',)-1;5)',)*' ? 0.,' 1 ',)*' /620J' MK')-12% LLL ' CSX' 6-' ;// ' >12 -?*0' D ' .6% LL ' RC % 56 2 ' .6/?' L/ ' N' *,>%' =-1D6D/ ' -* *-.' ,1',)*' + >,1-A71 'B*D1.)6=)6,'MK')-12(' LLX% ' ;-^ ,)*-' -* *-*2>*',1',) .' + >,1- ' 1 'B*D1.)6=)6,' .' 1;20' 2' B1*/ +' \ h' ,)*' =-1=)*,' >' + . 12' -*., 25' 12' ,) .') .,1- ' 8) >)' .',);.',)*' 1;206, 12' 1',)*' 0 + 2*' A;05?*2,' 12',)*' *2*? *.' 1 ',)*' ,)*1>-6> % M *>' /, +*-2 >9 '6 2 ' ' 'K S%X' 2',)*' -* 52'%1 ' B*)1-6?',)*') /., 2*.' 620' -6D 62.' 2+60*0' B;06) ' =/;20*-*0',)*' -1 76/ =6/6>*' 620' >6-- *0' 686 ',)*' 9 25 .' .12.' 620' 8 +*.' MK')-12% LL ' X% (1',) .' 2> 0*2,',)*' =-1=)*,' B1*/ -* *-.' M>)% +' \ h' ' X' 8)*-*',)*') /., 2*.' 6-*',)-*6,*2*0' 1-',)*' -' =/;20*-^ 25' 1',)*' 1-0 .' =-1=*-, ' 620' .6/*' 1',)*' .-6*/ , .)' >6=, +*.' .6?*' 6/.1' 2' ?1.' 4% ()*') /., 2*.' 656 2',2',)*', ?*' 1')6[' 2+60*0',)*' .1;,)' 1 'B;^ 06) '620',119' .*+*-6/ ?=1-,62,'>, *.' MK')-12% LL+ QX' & ,)',) .' 65-**.' ;) *' =-1=)*> ' 1 ' .6% L-+ ' KQC' NK' 8) >)' 656 2' 20.' ,.' ;/ /?*2,' 2' K' 25.' L+ ' Q% ,' .' ?=1-,62,' 6/.1',1' 21, >*')18',)*')-12 >/*.' 1-?' 6' >1? ?*2,6-A' 12' +6- 1;.' =6..65*.' 1',)*' 1,)*-' D119. ' 620' *+ 2>*',)*' 6>>;-6> ' 1 ' .;>)' .,6,*?*2,.' 6' 6,' -.,'. 5),'.**?',1' >12,6 2' 0 .>-*=62> *.% ();.' 2' K 6?% + ' 21' -*6.12' .' 6.. 52*0' 8) ' 6+-0' .)1;/0' 21,1'D; /0',)*')1;.*' 1',)*' 1-0' 620' 2' 25.' +' ' \Nh' 2',)*' ?*..65*' 1' 1/1?12',1' : -6? '62' *L,*-26/ -*6.12' 12/ ' .' 6.. 52*0' 6.',)*')*6,)*2' =- 2>*' >1;/0' 21,' >1?=-*)*20',)*' 0**=*-' 12*% ( ) .')18*+*-' .' 5 +*2' 2' 6+ 0 .' >1? ?;2>6, 12' -.,' ,1' 1/1?12' M ')-12% LL 'QX' 620' 6 ,*-86-0.',1' -6*/ 2' 6..*?D/E' M ')-12% LL+ ' NX% ()*' 600 , 12' ;' ')6+*' >)1.*2' B*-;.6/*?',)6,' ? ' 26?*' ? 5),' D*' ,)*-*J' MK')-12% + ' 4' >1?='8 ,)' ' 25.' + ' 4X' .' *L>**0^ 25/ ' ?=1-,62,a' ,)*' >)1 >*' 1 'B*-;.6/*?' 6.',)*' >*2^ ,-*' 1',)*' ,)*1>-6>E ' 86.' 0*=*20*2,' 12',)*' >)1 >*' = ' 6+ 0',1' D*' -;/*-' 1+*-' .-6*/ ',)*' 12*' 86.' 2>/;0*0' 2',)*' 1,)*-' MK' 6?% + X% ()*',-;,) ;/2*..'1',)*') .^ ,1- ' ?6 'D*' .6 0',1' D1' *+*2' 6,,*.,*0' D ',)*' 26?*.' 1 ',)*' *L /*.' D1-2' .)1-,/ ' D* 1-*' ,)*' -*.,1-6, 12' -1?' ,)* -' .1' 26,;-6// ' -* /*>, 25' ,)*')1=*.' 8) >)' 6D1;,' ,)6,', ?*' ?;.,')6+*' D**2' .,-125/E7*2,*-,6 2*0% ();.' ')62=6)*' R'K a' : 6262 6)'>D " "(' P8E *-'C >*) 6)'>D " "(' 9 8' 620' B;.)6D)*.*0'> (' 8 ' ,,1' .' % +% ?',)' .% %' 6 -D6 -2' .% +% ' 6 '# % %' ()*'=- 2> =6/ 81-9.' 2,-1^ ,)*' ,?*.' ,1' 8) >)' .'-* *-.' 2' ,.') .,1- >6/ =1-^ 0;>,1- ',1',)*.*' D119.' .=*> 6// '6-*'% 6)$-' # ' ! % ' 'M -5*2,% Q R Q+1X' 4-6?'C' D*-5' ' ' " +' "' + " !' " + '%: 6/^ /1' QKN' Q+1X' <1+*-.' 2 !' ' !' " +' M 122' QN ' Q+1X' * /' N "' "!' !' " +' M *-/% QNN' Q+>X' 6/.1' *' & *,,*' # =+ !]2 !' !' !' ; " ' !' " +' 2') .' ; !' / ') +' '& ! - ! ' C SK' 620' 656 2.',) .' : *-,[.' N !' /!' N " !' !' " +' M /,126' QKK' Q+1X% 1?=6-*',)*') '1' *' & *,,*' >D)1-2'B6)2' : 6+*?>9' * /'620' *.=*> 6/^ / ' /**9' M Q4 X' 6/.1' 6+ 0.12' 2' : 1-2* .' !' M2*81' *O% ' S NCSQQX' 26// ',)*' -*?6-9.' D ' 4*.*C' 2 ;.' ? "!' !'" " !' $% " ' M =[% Q X% **' ? 4 2 (' ! L=-*..' ' 12')-12 >/*.' 6-*' *8' 620' 0* *>,+*' 2' ,)*' 1//18 25' / .,' ,)*' ?1.,' +6/;6/ /* 2-*' 20 >6,*0' D ' 62' 6.,*- .9' \ I h' =-* L*Oa' B*-1?*' 'M 2') .' L%%!' Q$% (f ' ' QRX' ()>101-*, '>L%%!' ' =,% XT' -1>1= ;.' $ " ' M 2' ,%% (+ ' XT' <6;-;.' '# HP%XT' 6.D '620' ?C >) .' ' M 2' ;L,1- ' ; " ' !' +XT' 6->*-' ' M 6./' S ' ,1XT' ,- 5*/' ?n&762*O' M =.% QN' R ' 1)XT' I 6+6,*-' ' MU$-% NT' : * 0*/D*-5' RR' 1 XT' *12)6-,' # % ' M - % S Q' S ' Q+1XT' *--6-;.' ' M<15;2,% S RC ' K' +1/.% 1/%X' T' 62>,;.' ' M 2,8% SK T' 12.' SK ' 1/%XT' 12C' - -*' ' M(1?6> ' S N' K' +1/.% 1/%XT' B6>9C' .12' & ' M 6?D-% S' K' +1/.% ,1XT' *>9' %" ' " ' ' ' M ;5% 20% Q ' ,1XT' & /9 2.' 6DD' B1.*=) ' %+ !' " ' M 62C' ,6D% T' ?.,*-0% K ' ,1XT' 1-2' 6' 6= 0*' ' % ' M 2') .' 8T' < >)6*/.' 620' 6?C' D6>)' 2',)*' & ' 'D ' ' K S' M:6/% K XT' I :1-./* ' 71*.' M 2',)*' ,V% & ' XT' B* ,,*/*.' M *226' QN ' Q+1XT' & *..>' / / ' M -65;*' QNS' Q+1XT' 12 5. */0,' & ' M:6+F% QNR' Q+1XT' I *-,)*6;' ' !' ; " ' ' " +' + ' M =[% Q ' Q+1' D* 25' * % ' 1',)*' 6 ' # !:' 6/.1' 2' 25/.)' 0 2D;-5)' Q ' Q+1XT' 6)?>-' ' M()82' QSS' Q+1' +1/% X% **' #!

)-121/15 ',)*' .> *2>*' 8)>)' ?*6.;-*.',?*' D ',)*' .;>>*.. 12' 1' *+*2,.',)6,' 1>>;-' 2',)*')*6+*2.' 1-' 12',)*' *6-,)% >>1-0 25/ ' >)-121/15 ' ?6A' D*' 0^ + 0*0' 2,1',81' 9 20.',)*1-*, >6/ 1-',*>)2 >6/' 620' =-6>, >6/ 1-' 6==/ *0T 2' 1,)*-' 81-0.' 2,1' " 9 ' 620' " ! ()*' 1-' .' 1' >1;-.*',)*' ?1.,-;.,81-,) ' 6.' D* 25',)*' -*.;/,' 1' L*0' /68.' 8) /*',)*' /6,,*-' .',1' 6' 5-*6,' 0*5-**' >12, 25*2,' 620' --*5^ ;/6-% 2',) .' 6-, >/*' 8>')6+*',1' 01' 12/ ' 8 ,)' D/ ^ >6/ 06,*.' 620',)*' ?*,)10' 1',)* -' 0*,*-? 26, 12% >1' # f % 6 ! ' ()*' 9218/* /51' 1' ,)*' :*D-*8.' 2' >)-121/05EI7 -*.,*0' 6/75*,)*-' 12' 6==*6-62>*.T 21/ 6' ,-6>*' 1' 62 ,) 25' / 9*' 6' .> *2, >'+ *8' .',1' D1' 1;20' 2',)*' -' /,*-6,;-*% ()1' D119.' 1',)*' /0' (.,6?*2,' -*>152 .*' 212*' 1',)*' 5-*6,' .*-6.' 8) >)' 1,)*-' 26, 12.')6+*' *?=/1A>O% 1-' .',';2, /,)*' -.,' D119' 1',)1' <6>>6D**.',)6,' 62 '.;>)' 5; 0*' .' 1;20% 2.,*60' 1' ,)*.*',)*' :*D-*8' 8-',*-.';.;6// '*?1-*/ ? ,*0' 620' /1>6/1-' 26, 126/*=1>).% M **' D*/18%X' 4*2*6/15^ >6/ ,6D/*.' 20**0'6-*' 21,' 862, 25' D;',)*' 6-*' 1 f/ ,^ ,/*'.*-+ >*' 1-',)*' 5*2*-6/*=;-=1.*.'1 '>) 12>/15A% M **' D*/18%X' 1-?*-/ '5-*6,' *L6>,2*..' 86.')1=*0' 1-' 2' ,)*' 0*,*-? 26, 12' 1' :*D-*8' >)-121/15EW /,)1;5)' ,)*' ?6,*- 6/.' 8*-*' 1 ,*2' 21,' 0* 2 ,*' *21;5)' ,1' L' 6' 06,*' 8 ,) 2' 6' *8' A7*6-.' ' ,' 86.' 2*+*-,)*/*..' *L=*>,*0' ,)6,',)1'+*- '06 '>1;/0' D*' 6.>*-,6 2*0% : *2>*' 6-1.*' ;2.1;202*..' 620' +6- *,A' 1' -*.;/,.' 620' ;/, ?6,*/ '6' 5*2*-6/ **/ 25'1 '0 ..-;..% ';=-*.*2,'>- ,>.'6-*'-6,)^ *-' =-12*',1' -;2' 2,1',) .' /6,,*-' *L,-*?*% ()*',-1,)' 6.' ?5),' D*' *L=*>,*0' / *.' D*,8**2',)*.*',81'*L,-*?*' A;05?*2, % ()*')>)6-6>,*-' 1',)1'-*>1-0.' 8)*2>*' 81' 0-68' 1;-' 2 1-?6, 12' 1-D 0.' ;.',1')1=*' 1-' 6'=*-.*>,' !.,*?% ()*' D/*' 01>.' 21,(5+*' 6' 1?=/*,*') .,1-' ,)*' 6 '# % %' ()*=- 2> =6/ 81-9.' 2,-1^ ,)*' ,?*.' ,1' 8) >)' .'-* *-.' 2' ,.') .,1- >6/ =1-^ 0;>,1- ',1',)*.*' D119.' .=*> 6// '6-*'% 6)$-' # ' ! % ' 'M -5*2,% Q R Q+1XT' 4-6?'C' D*-5' ' ' " +' "' + " !' " + '%: 6/^ /1' QKN' Q+1XT' <1+*-.' 2 !' ' !' " +' M 122' QN ' Q+1XT' * /' N "' "!' !' " +' M *-/% QNN' Q+>XT' 6/.1' *' & *,,*' # =+ !]2 !' !' !' ; " ' !' " +' 2') .' ; !' / ') +' '& ! - ! ' C SKT' 620' 656 2.',) .' : *-,[.' N !' /!' N " !' !' " +' M /,126' QKK' Q+1X% 1?=6-*',)*') '1' *' & *,,*' >D)1-2'B6)2' : 6+*?>9' * /'620' *.=*> 6/^ / ' /**9' M Q4 XT' 6/.1' 6+ 0.12' 2' : 1-2* .' !' M2*81' *O% ' S NCSQQXT

L*0' =1 2,' 2' ,) 7'>6/*206-' .1' ,) 6,' ,)*' *6-.' 6-*' 6/0' 86A .' ,1' D*' 6>>1 ; 2,*0' ' ; //J' ; 2/*..' .=*> *0' 6.' > ; -^ -*2,%' *+*-,)*/*.. ' 2' >12.*_ ; *2>*' 1 ' ,)*' D- * ' 620' .1?*, ?*.' 01 ; D/*' / 2*.' 1 '. *-6_ ' D*5 22 25' 6,' +6- 1 ; .' .*6.12.' 1 ' ,)*' *6-' >12 ; .. 1- ' 1-' 6,' /*6..' 0 >;/, ')6.' 1 ,*2' >-*=,' 2,1',)*' ..6,*?*2,. ' 8) >)' .' *2)62>*0' D ' ,)*% 6>,' ,) 6,' ,)*' -;/*')*-*' ..6,*0' .' 21,' 1D.*-+*0' 8 ,)' 6D.1/ ; ,*' ; 2 1-? , % // ,) . .' *.=*> 6// ' //:,.^ ,-6,*0' 2' ,)*' =6-6//*/ / .,.' 1 ' ,)*' 9 25.' 1 ' ($ -' 620' ? '_%' +%X%

% ? ! ' ,' .' ,1? ?12/ ' .; ==1.*0' ,) 6,' ,)*' 5*2*6/15 *.' 5 +*2' 2' ,)*' D/*' 6-*' 2+6- 6D/ ' >12, 2 ; ^ 1 ; .%)*2')18*+*-' 81' >1?*' ,1' *L6? 2*' ,)*?' >/1.*/ ' 8*' 20' ,) 6,' ?62 '6-*' D-19*2' 8 ,) 1 ; ,' D* 25' 2' >12.*_ ; *2>*' " 2 '0* *>, +*' 6.' : *D-* 8' 5*2*6/^ 15 *.% '21,6D/*' 2..62>*' .' ,) 6,' 1 ' ,)*' 5*2*6/15 ' 1 ' 1 ; -' 6+ 1 ; -' 5 +*2' D ' <6,,)*8 ' 8)*-*' B1-6?' .' ? ?*^ 0 6,*/ ' 1//18*0' D ' [6.' 6.' ') .' .12C-C-)6[6) ' B1C' 6.) ' 620' ?6[6.)' D* 25' 1? ,,*0' M<6,,' ' X% ()6,' ,) .' .' 21,' 62' 6>> 0*2,6/ 1? .. 12' 1 ' 6' >1= .,' .' *+ ^ 0*2,' -1?' ,)*' .=*> >6, 12' 1 ' ,)*' 2 ; ?D*-' 1 ' 5*2*-6^ , 12.' -1?' D-6)6?',1' 6+ 0' -1?' 6+ 0',1' ,)*' 6D^ 12.) .)' 6=, + , ' 620' -1?' ,)*' 6D /12 .)' 6=, + , ' ,1')- .,' 2' *6>)' >6.*' 1 ; -,**2' 5*2*-6, 12.% -1D6^ D/ ' ,)*.*' ? .. 25' 26?*.' 8*-*' =; -=1.*/ C/* ,' 1 ; ,' ,1' ?69*' ,)*' 2 ; ?D*-' 1-' ,)*' 2,*-+6/*_ ; 6/',1' ,)6,' 1 ' ,)*' 1,)*-6/. ' .; >)' 62' 1? .. 12' D* 25' 1D+ 1 ; .' 620' 21,' / 6D/*' ,1' >6 ; .*' *--1-% 2' [-6 .' 5*2*6/15 ' M [6' + ' C X' ,)*-*' .'6' . ? /6-'1? .. 12' 8) >)' 2' .1' 6?1 ; .' 6' / 2*' >62' .>6->*/ ' D*' 6,,- D ; ,*0' ,1' ,)*' >6-*/*..2*..' 1 ' 6' >1= .,% ()*-*' 6-*' 6/.1' *L6?=/*.' 1 ' 6' ?62' D* 25' >6//*0' ,)*' .12' 1 ' 6' -*?1,*' 62>*.,1-' 6.')*D ; */' ,)*' .12' 1 '4*-.)12' \4*-.)1?h',)*' .12' 1 ' <1.*.J'M ')-12% LL+ 'K X% 1' 2') .,1- >6/' 26--6, +*.' B*) ; ' .'>6//*0' ,)*' .12' 1 ' ?.) J'M ' 25.' L L ' ST' K' 25.' L ' K T' K')-12% LL ' X' 6.' 8*// 6.' ',)*' .12' 1 'B*)1.)6C 1=)6,' ,)*' .12' 1 ' ?.) J'M ')5.' L ' K ' X% 6D62' .'>6//*0' ,)*' .12' 1 ' 6)1-J'M4*2% LL L ' X' 1-'5-620^ .12' MLL+ ' K' T' >1?=' LL ' K CKNX% & *' >6221, ' ,)*-* 1-*' +*2, ; -*' ,1' ; .*' ,)*' : *D-*8' 5*2*6/15 >6/ ' .. ,' ,1' >1?=; ,*' 2,*-+6/.' 1 ' , ? *' *L>*=,' 8)*-*' 8*' >62' =-1+*' *6>)' 0*.>*2,' ,1' D*' ? ?*0 6,*' 620' 8)*-*' ,)*' /*25,)' 1 '*6>)' 5*2*-6, 12' .'5 +*2% *** & #! 0*/*-' -*?6-9.' ,)6,' <1.*.' -*>912.' D ' 5*2*-6, 12.' "1' ' NXT' D ; ' ,) .' .' 21,' ,)*' ?622*-' 1 ' : *-101, ; .' 8)1' 6.. ; ?*.' 62' 6+*-65*' 1 ' ,) -**' 5*2*-6^ , 12.' ,1' 6' >*2, ; - 'M ' KX% ()*-*' .' 21' ; .*' 1 ' 6' 5*2^ *-6, 12' 6.' 6' 0 + . 12' 1 ' , ?*' 2' ,)*' *2,6, *; >) ' ; 2/*.. ' 8 ,)' .1?*' 8*' .; ==1.*' ,)6, ' 6' 5*2*-6, 12 J' 2' 4*2% d ' S' .' .1' ; .*0T' ,)1.*')18*+*-' 8)1')1/0' ,) .' 1= 2 12' ?69*' ,' 62' 2,*-+6/' 1 ' 6') ; 20-*0' *6-. ' . 2>*' ,' 81 ; /0' '6'=*- 10' 1 ' , ?*' .**?' ,1' D*' ,)*' 1 ; -,) =6-,' 1 ' ,)*' 6)0/% ,*-?' MZZ7I% ' *?=/1 *0% ()*' 5 =, 62.' 0 + 0*0' ,)*' 06 '620' 2 5),' 2,1')1 ; -.' / 9*' 1 ; -..*/+*.' -1?' 6,' /*6..' % %' > -' K ' M *=. ; .' " (' ' 6 f ' N X% ,' .' ,)*-* 1-*' 21,' ?^ =-1D6D/*' ,)6,' ,)*' .-6*/ ,*.' 8*-*' 6>_ ; 6 2,*0' <; ,)' ,)*')1 ; -' -1?' 62' *6-/ ' =*- 10% ()*' .' ; 2C0 6/1')6[J' 8/ 6,*+*-' 2.,-; ?*2,' L*0' 1-' ?1+6D/*' ,' ?6 ')6+*' D**2' ?=/*.' 6' 0 + . 12' 1 ' ,)*' 9 20% ** f 2' ,)*% ' (% 8*' 20' ,)*' .6?*' . .,*?' 6.' ,)*' ?10*-2' ,)*')1 ; -HD* 25' -*>912*0' -1?' ,)*' D*5 22 25' 1 ' ,)*' B*8^ .)' 2 5),' 620' 06AI% ** % $ f \ MK%' 6 C ' 1-' ,)*' > + /' B6 ' 1 ' K ')1 ; -.' 8*' 20' 2' 12*' =/6>*' M 62% + ' X' ,)*' ,*-?' '*+*2C" =-*../ ' ?*2, 12*0' 620' 8*')6+*' ,1' 2 *-' ,)*' L .,*2>*' >6,*' 6' =1 2,' 1 ' , ?*' D ; ,' 6//',1' 0*. 526,*' =*- 10. ' *+*2^ 25C?1-2 25 J' *=,% E ; 8 % 'M6/.1' 2' K' 1-%' L 'KX' * 1 '6',) -0' ,)*' -.,' 86,>)' 1 ',)1' 2 5),% M 2' 6?% ' % '6' 2 5),' 620' 6' 06X J X% &),6,*+*-' ?6 ' D*' ,)*' ' $ ' 1 ' >1 ; -.*' -* *-.' ,1' 8 ,)1 ; ,' 6D.1^ %=-1=*-' ?*62 25' 1 ' ,) .' : *D-*8' ,*2 ; ' ,' >6221,' D*' G/ ; ,*/ '0*. 526, 25',)*' -.,' 86,>)%' ()*' ?00/*' 86,>)

01 ; D,*0')*-*',1' . 52 '2 5),.' 620' 067 .%J' ()*' >1?^ ?12' 81-0' 1-' 06 '6.' 0 .,25 ; .)*0' 1-',)*I' > + /' 06 '1-' */.*' D1,)' 06 '620' 2 5),' 6-*' ?* , 12*0',1' 6+1 0' +65 ; *2*..' 6.' 2',)*' >6.*' 1 'B1C' J' 26) .' ,)-**' 06 .' 620',)-**' 2 5),. J' MB12% ' 'hT' >1?=% < 6,,' L ' X% ()*' > + /' 06 ' 86.' 0 ^ + 0*0' 2,1' 2 5),' 620' 26, ; -6/' 06 ',)*' =*- 10.' 1 '06-9^ 2*..' 620' / 5),' M4*2% 'SX% ,' >1? ?*2>*0' 8 ,)' 2 5),' 8)>)' .,620.' -.,' 2' ,)*' .=*> 6/ ,*-?' 5 +*2' 6D1+*% ()*' 2 5),' 620',)*-* 1-*',)*' > + /' 06 ' .' 5*2*-6/^ / ')*/0',1')6+*' D*5 ; 2' 6,' .; 2.*,% 0*/*-')18*+*-' 8)/*' 60? ,, 25',)6,',) .' =1 2,' 1 ' , ?*' 86.',)6,' 1 ',)*' >1? ?*2>* ?*2,' 1 ',)*' > + /' 06 ' 6?125' 6//' 1,)*-' 26^ , 12.' 9218 2',1' ; .' 8)>)' 1//18*0' 6%/ ; 26-' -*>912 25' 1DA*>,.' ,1',)*' 1= 2 12',)6,',) .' 86.',)*' >6.*' 8 ,)',)*' B*8.% : *' 6-5 ; *.' 2' 6+1-' 1',)*' D*5 22 25' 1 '0**=' 2 5),' -*6.12 25',)6,' 1-' 2.,62>*' 2',)*' 1-06 2 25' 1 ' ,)*' 6 ' 1 ' ,12*?*2,' 12',)*' ,)' 1',)*' ,)' ?12,)' ' .' .6 0' 2',)*' 2 2,)' \06 h' 1',)*' ?12,)' 6,' *+*2' -1?' *+*2' ; 2,1' *+*2' .)6//' 1' >*/*D-6,*' M/,*-6// ' 8 1 ; -' 6DD6,)J'M *+% LL 'NKXT' 8)*-*' ',)*' > + /' 06 ' D*562' 6,' .; 2.*,' ,' 81 ; /0')6+*' D**2' .6 0' ,)6,',)*' .)1 ; /0' >1? ?*2>*' ,)1' 1D.*-+62>*' 12',)*' +*+2 25' 1 ' ,)*' ,)' 06 '1-' ?*-*/ '12',)*' ,)' 06E' .; ==1. 25',)1' 81-0' *+*2 25J' M I\7 X ,1' ?*62',)*' /6,*-' =6-,' 1 '1 ; -' 6 ,*-2112% : *' > ,*. '6.' =-1D6D/ ' .; ==1-, 25',) .' + > +' ,)*' *L=-*.. 12' I N' D*,8**2',)*' ,81' *+*2^ 25.J' ; .*0 1 ',)*' , ?*' 1 '1 *- 25',)*' =6..1+*-' 620',)*' 06 / ' *+*2 25' .6>- >*' M L10% L ' S' ; ?% L ' NT' LL+ ' XT' 1-',)*')6- .**.' 8)1?',)*' =-*.*2,' B*8.' 1//18',119',1' D*',)*' , ?*' D*,8**2',)*' R,)' 620' ,)')1 ; -.' 1 ',)*' 06 '1-' 1 ; -' N 620' ' %<%' 6/,)1 ; 5)' ,)1' 6?6-,62.' 620' 6-6 ,*.' .; ==1.*0' ,' ,1' D*',)*' ,' D*,8**2' .; 2.*,' 620' ; // 06-92*..' =6-, > ; /6-/' 12' 6>^ >1 ; 2,' 1 ',)*' =)-6.*' dINN ' 8)*2',)1' .; 2' . .*,, 25 J' ; .*0' 2' 6' =6-6//*/ =6..65*' M *; ,% L+ ' X M.** 7 # " "1' ' QKC Q X% ()*.*' =6..65*.' 620' *L=-*.^ . 12.' ?6 ')18*+*-' D*' 21,' ; 2-*6.126D/ ')*/0',1' .; =^ =1-,',)*' >1? ?12' 1= 2 12',)6,',)*' > + /' 06 'D*562' 6,' .; 2.*,% ()*' ,*-?' D*,8**2',)*' ,81' *+*2 25. J' >62' .>6->*/ ' D*' .; ==1.*0',1')6+*' 1- 5 26// ' 20 >6,*0' 6' /125' =*- 10' 6' .=*> 6/ .)1-,' =*- 10',)1 ; 5)' .>6->*/ '6' =1 2,',)*' / ?*' 1 '. ; 2.*,' .' /.)182',1' >1--*.=120',1' ,% ()' .' 6' 26, ; -6/ 0 + . 12' D*,8**2',)*' /6,*' 6 ,*-2112' 8)*2',)*' .; 2' .' /18' 620',)*' +*+2 25' 8)*2') .' / 5),')6.' 21,' 8)1// ' 0 .6==*6-*0' ,)*' ,81' *+*2 25.' 2,1' 8)>)',)*' 26, ; -6/*+*2 25' 81 ; /0' D*' > ; ' D ',)*' >1?C 3 ? ?2>* ?*2,' 1 ',)*' > + /' 06 ' ' ' D*562' 6,' .; 2.*,% ()*-*' .' 21' 0 >; /, ' 2',)*' >1? ?620',)6,',)*' 1D.*-+^ 62>*' 1 '.1' .1/*?2' 6' 06 '6.',)6,'1 ' ,12*?*2,' .)1 ; /0' >1?*?2>*' 6' / ,,/*' D* 1-*',)*' ,-;*' D*5 22 25' 1 ',)*' > + /' 06E ',)6,' 0 ; *' =-*=6-6, 12' ? 5),' D*' ?60*' 1-',)*' .6>- >*.% 2' B ; 06*6' 8)*-*',)*' 0 ; -6, 12' 1 ',8 / 5),' .' +*-' ' .)1-,' 6,' 6//' , ?*.' ,)*' ?1.,' 26, ; -6/' 0 + . 12' 81 ; /0' D*' 6,' . ; 2.*,% ()*' 06A J' M> /!X =-1D6^ D/ ' 86.')*/0',1' >1? ?*2>*' 6,' .; 2- .*' ?1? 25C,8 I' / 5),' D* 25' 2>/ ; 0*0' 2',)*' /6..' 86,>)' 1 ',)*' 2 5),' 6>^ >1-0 25',1' ,)*' 1/0' 6.' 8*// 6.' ,)*' /6,*-' 0 + . 12' .1?*')18*+*-' ?60*' ,)*' ?1-2 25C86,>)' =6-,' 1 ',)*' 06 % *' #'g * ' ! 1 ; -'26, ; -6/ ='*- 10. ' .?6//*-',)62' ,)*' > + /' 06 ' 6->' ?*2, 12*0% ()*.*' 6-*' *+*2^ 25' 620' ?1-2 25' 1 ' 8)>)',)*-*' .' -*_ ; *2, ?*2, 12' 620',)*' /*..' ; .; 6/ ,)*' ,81' / 5),. J 6.' ,)1 ; 5)' 01 ; D/*' / 5),' J' 2112' 620' 1-' Kc2')6/',)*' 2 5),' J' ? 02 5),% 1' 12*' 1 ',)*.*' 8 ,)' 6' =*1=/*' 21,' 5 +*2',1' 6..-121 ? ' .**?.',1' 20 ^ >6,*' 6' =1 2,' 1 ' , ?*' D ; ,' 6//',1' 0*. 526,*' =*- 10. ' *+*2^ 25' 620' ?1-2 25' D* 25')18*+*-' ? ; >)' /125*-',)62' 2112' 620' ? 02 5),% ()*' 2 5),' 86.' 0 + 0*0' 2,1' 86,>)*.' M,7 7=$ d X% 7 2',)*' % (% D ; ,' ,81' 6-*' *L^ =-*../ ' ?*2, 12*0' 620' 8*')6+*' ,1' 2 *-',)*' *L .,*2>*' 1 '6',) -0' ,)*' -.,' 86,>)' 1 ',)1' 2 5),% M 2' 6?% ' $ ' 1 ' >1 ; -.*' -* *-.' ,1' 8 ,)1 ; ,' 6D.1^

1>>;-.' 2' B;05% + ' R' 8)*-*' E *=,' * (1' -1?' ,)*' -11,' ' ' :' 620' ,) *' >122*>, 12' 1 ' 86,>)*.' 8 ,)' ? / ,6-X' 6 6 -.' .' *+ -' 2' .=*69 25' 1 ',)*' -.,' 06 '1 '6' ?12,)',) .' 81-0' 86.' 0*2,á ' 20' 4 0*12' 620',) *') ;20-*0' ?*2',)6,'\8*-*h' .1?*, ?*.' ;.*0' 8 ,)',)*' 600 , 12' 1 '6' 2; ?D*-' D-' J 8 ,)') ?' 8*2,' 0182' ;2,1',)*' *L,-*? , ' 1 ',)*' >6?=' 1),)*' 8)1/*' *L=-*.. 12 ' 2' .;>)' 6' ?12,) '12',)*' -.', 06 J'6.' 2H2' 6 26 ' 2',)* 6,' ,)*' D*5 22 25' 1 ' ,)*' ? 00/*' 86,>)† \620h' ,)* ')60'D ; ,' .*,' ,)*' 86,>) ?*2' ()*' ?1-2 25C ',) -0' 2*8C-6112' % % % % ' 12' ,)6,' 06 J'M L10%L L ' XT 86,>)' %2/60dX' .' ?*2, 1- *0' 2' L10%L + ')*2>*',)*' 81-0'>6?*',1' . 52 ' ?12,) ',)1;5)',)*2' ,' K '620' ' 6?%L ' † 2',)*' 1-?*-' >6.*' 2',)*' 6>^ G86.'.1?*, ?*.'_;6/ *0' ()*'2*8C-61-2 >1;2,' 1 ',)*' =6..65*' 1 ',)*' *0' *6† 2',)*' /6,,*-' 2' 86.' 9*=,'6.' 6' .6>-*0' *., +6/ M_% +%X% 2',)*' *2,6^ ,)6,' 1 ' 6;/ .' .;-=-.*' 1 ',)*' ? ?12 ,*.' 8)*2')1' -*^ ,*;>)' 620'B1.);6'B;05*.' 620' _;D' 8*' 20');.' 12*' / *+*0'B6D*.)C5 /*60% 1?*' 6DD 2.')1/0',)6,' ,)*-*' ?12,)' ?*2, 12*0'D ' 6'.=** 6/ 26?*',)*' -*.,' D* 25' 8*-*' 1;-' 86,>)*.' M 0*/*-'D "' ' QSX% 2',)*' >/6//*0'6>>1-0 25',1',)* -' 1-0*-% ()*' ?12,)' 8 ,)' 6' % (% 1;-' 2 5),C86,>)*.' 6-*' ?*2, 12*0' 8) >)' 8*-*' .=*> 6/26?*' .',)*' -.,' 8) >)' .' >6//*0' =-1D6D/ '601=,*0' -1?',)*' 1?62.' 6.' 6' ?10 >6, 12' M *=,'1 * '- ' F 8' ,)*' ?12,)'1 '*6-.' 1 '>1? J'1-' 1 ',)*' 1/0' . .,*?% // 1;-' 1>>;-',15*,)*-' 2' <6-9' ' D D J',)6,' .',)*' ?12,)' 2' 8) >)',)*' *6-.' 1 '>1?' d 'N á ,)*' /6,*' 86,>)† ,-1+8-1+' ? 02 5),T D*>6?*' ;// 1-' -=*'620'12',)*' S,)'06 '1 '8) >)',)* O) % % 1',)*' >1>9C>-18 25† 620' (-=8 ',)*' *6-/A' .*>120'06 '1 ',)*' *6.,'1 ';2/*6+*2*0'D-*60'- =*' *6-.' 86,>)% **" ' ' * ' ! 8*-*',1'D*' 1 *-*0'M *+% ' † >1?=' LL 'N ' MN%X +' 6')*DO1?6OX% ' ()*' : *D-*8'8**9 X% () .' ;201;D,*0'0*- +6, 12' .)18.')18' *--1^ 86.'6'=*- =0'1 '.*+*2'06 .' *20 25'8 ,)',)*' 6DD6,)† 2*1;.' .',)*' 0*6',)6,' & ' >1?*.' -1?',)*' 5 =, 62' ,)*-* 1-*' ,' >1;/0' 21,')6+*' D**2' 6' 0 + . 12' 1 ',)*' 6%%" ' 2' ' 25.',)-*** 1,)*-' 26?*.' 1 ' ?12,)' 1^ ?12,)' 8) >)' 86.' /;26-' 8 ,)1;,' 2,*->6/6, 12% ;,' >;-' /(,)*' .*>120† ,)62 ?' ,)* ,)*-' 86.'21' .;>)' 2,*->6/6, 12' . 2>*' ,)*' 6DD6,)' 86.' .*+*2,)† 620' ; '77N',)*'* 5),)% ()*.*' 26?*.'6=^ ,1' D*' *+*- ' .*+*2,)' 06 † ,.' 26?*' .' ;.*0' 1-' 8**9' =*6-'/9*',)6,' 1 ' D D',1')*' >122*>,*0' 8 ,)',)*'=)*^ 620' 8**9.' 6-*' >1;2,*0' 12' 8 ,)1;,'62 '600 , 126/06 ' 21?*26'1 '6',-1= >6/ *6-% 1'1),)*-'26?*.'6-*' 1;20' 1-'06 .% ()*' ?*2, 12',15*,)*-' 1 ' 6DD6,).' 620'2*8' 2' 62 'D119'=- 1-',1',)*' 6= , + , 'D;,' 2',)*' D119.' ?112,)' 8) ?*2*2>25',)*' ?12,)% ()*' 8**9'8),)*-' 6'=*- 10'1 8-,,*2'6 ,*-',)*'-*,;-2',)*'/6,*-'21?*2>/6,;-*' ., // 2' .*+*2'06 .'1-'6'_;6-,*-'1',)*' ?12,)'86.'1 '>1? 212' ;.*' 2'62, _;, % ()*' 5 =, 62.'){18*+*-'8*-*' 8 ,)^ ; .*' 2'62, _;, % ()*' 5 =, 62.'){18*+*-'8*-*' 8 ,)^ 1;,' ,'M8 ,)' 12' 6.. ;.'LLL+ ' R' >1?=% *=. ;.' ' D' 8) >)',)*' ,?*' .' ?*6.;-*0' 2',)*' 6>>1;2,' 1',)* " ! !1 !' ' N NNX'0 + 0 25',)*-' ?12, '1 'Q' /110' ?6 ')6+*' D**2' 1 'N '06 .'*6>)'=1.. D/E7 1-?^ 06 .% ()*.*' 06,*.' ?6 ' 20**0')*' *L=/6 2*0' 2' 6>^ 06 '1' 6;/ .' .;-=-.*' 1 ',)*' *0' *6† 2',)*' /6,,*-' 2' 86.'6' *6-'1 ' 25' 1 ',)6,' 06 .' 1-',)*' -.,' D*562',1' . 29'6 ,*-' '06 .'M620',)*2' >1-062>*' 8 ,)' 6' *6-' 1 'NS' 06 7.% ()*' *+ 0*2>*' 1 ')60'D**2' ';D ,.' 6D1+*' 6//') 5)' ?1;2,6 2.X' ,' ?;.,' ,)*' *=-1=)*, >' >-=,;-*.' .')18*+*-'0*>. +*' .',1',)*')6+*' .;29' 1-' 1?*06 .'*-*',)*' 6-9' >1;/0')6+*'-*.,*0' 9218/*05*' 1 '6'A *6-'1',)*' 1-?*-'/*25,)% ()*' ,?*' 12' -6-6,'.1',)6,',)*' .*>120'06,*' ?;.,'D*' ?1-*',)62' , ?*.' 620'6')6/ J'1' 62%M+ 'K †L X')8)*-*' ' '06 .' /6,*-',)62',)*' -.,'>#" "'1' SR ' Q' ?*62.' 'M.**'L 'NNX'>6221,'D*'01;D,*0',1'D*'*_; +^ RX% () .' 6-5;?*2,'0*=*20.';=12',)*' ?*62 25'1' 6/*2,'*L=*-.. 12.',1',)*' *L=-*.. 12' 2'.;>)' 6' ?12,) '12',)*' -.', ') 5)' ?1;2,6 2.J' 620';=12',)*')*' 5),' 1',)1.*' ' K^ 10;.'>62'D*'>/*6-/ '0*,*-?2*0',)1;5)'8*'>6221,'6D^ ,)*' ?1;2,6 2.'1' 86.'1?*, ?*.'_;6/ *0' ()*'2*8C-61-2 .1/;,*/ ' L',)1.*' 1 '62 '. 25/*' *6-% ()*-*' >62'D*' 21'01;D,',)6,' ,'86H'*..*2, 6// ',-1= >6/'. 2>*' >*-,6 2' 1D.*-+62>*.' >122*>,*0' 8 ,)',)*' =-10;>*' 1 ',)*' /6=0' 8*-*' L*0',1'=6-, >;/6-'06A.%' ,' '* ;6/)'>/*6-',)6,' ,)*' ?12,).' 8*-*'/;26-'*6>)' >1?2*2>25'8 ,)' 6' 2*8' ?112% ;' 81;/0'6==*6-',)*-* 1-*',)6,',)*-*' ?;.,')6+*' D**2' .1?*' ?10*' 1 '60A;.,?*2,% (1' 6.>*-,6 2' 8)6,',) .' 6. ',' .' 2*>>..6-A7 -.',1'0*>0*' 8)*2',)* *6-' >1??*2>*0% 2',)*' D D'6.' 6/-*60 ' ?*2, 12*0'-=*' *6-.' 1 '>1-2' 8*-*',1' D*' 1 *-*0' 6.' -.,C -;,.' 1 ',)*')6-f>.,'M *+% ' † LL ' X% ()*' -*6= 25' 1 ',)*' D6-/*A7>1?2*>*0' ,)*')6-+*.,'MK' 6?% LL 'RX',)*' 80 *6,' 1//18 25'M ;,)' 'KNX% B1.*=);'*L=-*../ '.6A7.',)6,',)*' 1 *- 25' 86.' 1 'D6-/* '>& !' SX% ;' .',)*-* 1-*' 2>>*..6-A'7' 20' 8)*2',)*' D6-/* 'D*>1?*.'-=*' 2' 6/*.,2*% >C >1-6 25',1',)*' 1D.*-+6, 12' 1 ',-6+*//*-.',)*' D6-/* ' .' -=*' 2',)*' 86-?*.,'=6-,.' 1 ',)*' >1;2,- ' 2',)*' -.,' 06 .' 1 ' =-/ ' ()*' D6-/* C)6-+*.,)*-* 1-*' >1?^ ?*2>*.' 6D1;',)6,' 6' ?12,)'6,*-',)*' *+-26/*_D 21L' .1',)6,',)*7A*6-' 81;/0' D*5 2' 6,' 6D1;',)6,',1=>6/ =1 2,' 8*-*',21,'0 + 0*0' 2,1'/;26-'?12,),% & *' ?6A7 >12>/;0*',)6,',)*' 2*6-*.,'2*8' ?112' 6D1;,'1-'6 ,*-',)*' *_;21L'D;,'21,'?;>)'D* D-*' 86.'>)1.*2'6.',)*' >1?^ ?*2>*?*2,'1',)*' *6-' 0*/*-'8)1?'8*')6+*',);.' 6-' 1//18*0'6.',1',) .' *6-'>12>/;0*.',)6,',)*' -5), -.',06 '1 ',)*' ?12,)' .' >6//*0' 2*8' ?112TJ

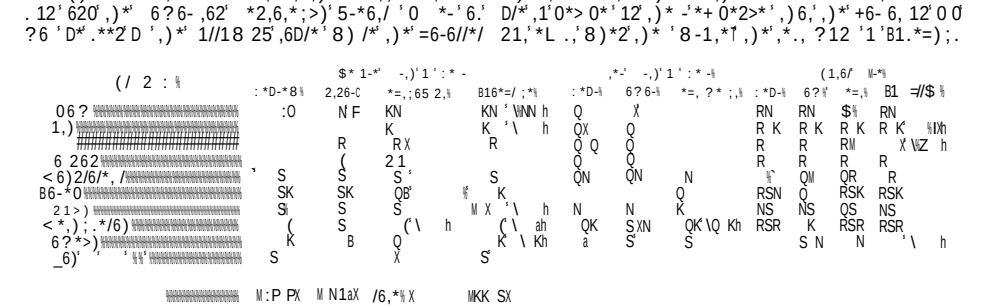
2*8' ?112' 86.' >)1.*2' ,)-1 ; 5)' 1D.*-+6, 12' 1 ',)*' 1-^ 86-02*..' 1 ',)*' D6-/* C>-1=.' 2' ,)*' 86-?*-' 0 .,- >,.' 1 ',)*' >1 ; 2,- ' !# "' ' R X% ()*-*' .')18*+*-' ,) .' 0 >;/, ',)6,',)*' 0 *-*2,', ?*.' 1 'D6-/* C)6-C7' +*.,' 2' +6- 1 ; .' =6-,.' 80 ; /0')6+*' D**2' / 6D/*' ,1' >6; .*' >12 ; . 12% ,' .**?.' ,)*-* 1-*' 21,' ; 2/ 9*/ ' ,)6,',)*' : *D-*8 .' 601=,*0',)*' .;-*-' ?*62.' 1 '0*,*-? 2 25',)*-' 2*8C *6-.' O6 'D ' 1D.*-+6, 12.' 1 ')*/ 6>6/ - . 25.' 1-' . ? /6-' .,*//6-' =)*21?*26' 9218 2',1' ?6-9',)*' - 5), , ?*' D* 1, ',)*' D6-/* C)6-+*.,% *-,6 2/ ',)*' 62> *2, 5 =, 62.' 620' ,)*' -6D.' ?60*' ;.*' 1 ' .;>)' ?*62.% ()*' ?*,)10' 1 ' 2,*->6/6, 12' >62' 12/ ')6+*' D**2',)6,' 8) >)' 1D,6 2*0' 6 ,*-',)*' 6=, + , ',)*' 600 , 12%I'1 '6',) -,**2,)' ?12,)' 8)*2*+*-',)*' ,8*/ ,)' *20*0',11'/125' D* 1-*',)*' ;- 21L' 1-',)*' -.,C -; ,.' 1 ',)*')6-+*.,',1' D*' 1 *-*0' 2',)*' ? 00/*' 1 ',)*' ?12,)' 1//18 25' 620' ,)*' . ? /6-' 1 *- 25.' 6,' ,)*' , ?*.' 6==1 2,*0% () .' ?*,)10' 81 ; /0' D*' 2' 6>>1-062>*' 8 ,)' ,)*' =*-? .. 12' 5-62,*0',1' =1.,=12*',)*' >*/*D-6, 12' 1 ',)*' 6..1+*-' 2' ,)*' >6.*' 1 '62 ' 12*' 8)1' 86.' * ,)*-'/*56// ' ;2>/*62' 1-' A1 ; -2* 25'6,'6'0 .,62>*' 1-'6' 8)1/*' ?12,)' ,1',)*' ,)' 06 '1 ',)*' .*>120' ?12,)'M ; ?% L'RC NX'1 '8)>)'=*-^ ? .. 12' 8*' 20' : *[*9 6)',1')6+*' 6+6 /*0') ?.*/ ' 1-' D1,)',)*' -*6.12.' 6//18*0' D*>6 ; .*',)*' =- *.,' 8*-*' 21,' .; > *2,/ '.62>, *0' 620',)*' =*1=/*' 8*-*' 21,' >1//*>,^ *0' MK')-12% LLL ' CN X% ()*' /6,*-' B*8.')60',81' D*5 22 25.',1',)*' *6-' 1-'6.' ' .'>1? ?12/ 'D ; ' .1?*^ 8)6,' 26>>; -6,*/ ' .6 0',81' *6-.% ',)*' , ?*' 1 ',)*' *>120' (*?=/*' ,)*.*' ,81' D*5 22 25.' 1D,6 2*0',)*' .*+*2,)' ?12,)' 1 ',)*' > + /' -*>912 25' D* 25' D D',)*' -.,' 1 ',)*' .6>-*0% : *2>*' ,')6.' D**2')*/0',)6,',)*' 2.., ; ., 12' 6,',)*' , ?*' 1 ',)*' L10 ; .' 86.' ?*-*/ ' 6' >)625*' 1 '>1? ?*2>*?*2,' 620' 21,',)*' 2,-10 ; >, 12' 1 ' 6' 2*8' AC*6-T' 620' 6/.1' ,)6,' -1?',) .', ?*' ,)*-*' 8*-*' ,)*',81' D*5 22 25.% ()*' 1-?*-' 1= 2 12' .' 6,'=-*..*2, =;-*/ ') =1,)*, >6/' 620') 6.' D**2',11' ?;>)' ? L*0' ;=' 8,)',)*' /6,,*-' 1-' 8)>)' 12',)*' >12,-6-A7',)*-*' .' .1?*' *+ 0*2>*% *' M %X' $ % ' ()*' 62> *2,' : *D-*8 .' 01' 21,' 6==*6-' ,1')6+*' 0 + 0*0',)* -' A7*6-' 2,1' L*0' .*6.12.% & *' 20' ?*2, 12' 1 ',)*' 26,,-6/ .*6.12.' .; ? ?*- J' 620' 8 2,*- J' 8)>)' 6-*' ;.*0' 1-',)*' 8)1/*' *6-' M 2' .6% LL + ' T' U*>)% L + ' QT' 620' =*-)6=.' 4*2% + ' KKX% ()*' 1-?*-' 1 ',)*.*' =-1=*-/ ' ?*62.',)*', ?*' 1 ' >;,, 25' -; ,.' 620',)*' /6,,*-',)6,' 1 '56,)*- 25' -; ,.' ,)*' 12*' -* *-- 25',1',)*' *6-/ ' -; ' .*6.12',)*' 1,)*-',1',)*' /6,*' 12*% ()*-',-;*' .52 >6, 12.' 6-*' ,)*-*^ 1-*',-6,)*-' .; ? ?*-' 620'6 ; ,; ? 2',)62',; ? ?*-' 620' 8 2^ ,*-% ()*-*' >62' D*' 21' 01 ; D, ')18*+*-',)6,',)* '>6?*' ,1' . 52 ',)*' ,81' 5-620' 0 + . 12.' 1 ',)*' *6-' D1,)' -1?',)*-' ;.*' ,15*,)*-' 6.',)*' ,81' .*6.12.' 620' -_?' ,)*' ?*2, 12' 1 ',)*' 8 2,*-C)1 ; .*J' M-A :/2' 2I KX' 620' ,)*' .; ? ?*-C)1 ; .*J' C %?1.' ' SX% ()*/6,,*-'+ 0*2>*' .',)*' .,-125*-' . 2>*',)*' 8 2,*-' .',)*', ?*' 2' 6/*., 2*' 8)*2' 6' =6/6>*' 1-')1 ; .*' 1 '0 *-*2,' >12.,-;>, 12' 81 ; /0' D*' 2**0*0' -1?',)*' / 5),' .; ? ?*-' =6+ / 12' 620' 2',)*' 12/A' =6..65*' D*. 0*I.',)6,'-* *--*0' ,1' 2' 8)>)',)*' 8 2,*-C)1 ; .*' .' ?*2, 12*0' 8*' -*60' ,)6,' B*)1 69 ?' .6,' 2',)*' 8 2,*-C)1 ; .*' 2',)*' 2 2,)' ?12,)TJ',)6,' .' 6/?1..',6,' ? 0C8 2,*-T' 620' \,)*-*' 86.' 6' -*H' 12',)*')*6-,)' D ; -2 25' D* 1-*') ?J' MB*-% LLL+ ' KKX% ' .' =-1D6D/*')17+*+*-', 6,' 8 2,*- J' 1-' hI72' 8)*2' ; .*0' 8 ,)1 ; .' -* *-*2>*' ,1',)*' *6-' 6.' 2' B1D' L L' ')6.' ,.' 1- 5 26/ . 52 >6, 12% ()*=)-6.*' 0 ?' 7=' >1/0' 620')*)*6, J' 2' 4*2% + ; ' KK' .', // ?1-*' 5*2*-6/ ' 620' >6221,' D*' D1/0',1' 20 >6,*' ?1-*',)62',)*' 5-*6,'6/,*-26, 12.' 1 ',*?=*-6,;-*' 8)>)' / 9*3,)1.*' 1 ' 06A7 620' 2 5),' 8*-*' =-1?.*0' 21,' ,1' >*6.*' M 0*/*-' # " "1' ' R X% ()*-*' 6-*',81' 65- >;/,;-6/ .*6.12.' 1 '6' ?1-*' .=*> 6/ >)6-6>,*-',)62',)*' =-*>*0 25' 2',)*' -' 1-0 26- ' ; .*% ()*. *' 6-*' .**OC, ?*' J' 620,7 7 =')6-+*.,%J' 0*/*-' ?69*.',)*.*' *_ ; 6/',1',)*' 1-*51 25' .*6.12.' 8)*2' . ? /6-/ ' ; .*0' ,15*,)*-' D ; ',)*')6.' 21,' =-1+*0',) . '620',)*' =6..65*')1' _ ; 1,*.' M 4*2% R' %X' >6221,' " ')*/0',1' 6 1-0' 62 '*+ 0*2>*' 1 ',)*' 9 20' ; 2, /' .1?*' 1,)*-',81',*-? .' 2' ,' 6->' =-1+*0',1' D*' .,- >,/ ' >1--*.=120*2,% ** ! N% @ ' # ' # ! ' *. 0*.',)*' 6DD6,).' 620' 2*8C?112. ',)*-*' 8*-*' 1 ; -' 5-*6,' *., +6/.' 620' 6' 6.,' 2',)*' 62> *2,' : *D-*8' *6-' 620' 6' 5-*6,' >*/*D-6^ , 12' *+*- ' .*+*2,)' 620' , *,)' *6-% ** ! M %X' ()*' *6.,' 1 ',)*' 6..1+*-' M : D X' 86.' =-1=*-/ ' 12/ ',)*' , ?*' 1 ',)*' .6>- >*' 620' *6, 25' 1 ',)*' =6.>)6/ /6?D',)6,' .',)*' *+*2 25' D*,8**2 ,)*',81' *+*2 25.J' M *+% LL ' X ' 6' =)-6.*' =-*+ 1 ; .^ / '>12. 0*-*0 ' 1 ',)*' ,)' 06 ' 1 ',)*' -.,' ?12,)' 620' ,)*' 2 5),' 1//18 25' ,)*' *6.,' 1 ' $2/*6+*2*0' -*60' M2 f' - :X>1? ?*2> 25' 12',)*' ?1-2 25' 1 ',)*' S,)' >/6 ' 1 ',)*' ?12,)' 620' /6., 25' .*+*2' 06 .' ; 2, /',)*' K .,' 2>/ ; .+*% ()*' ,)' 620' K .,' 06 .' 1 ',)*' ?12,)' 8*-*' 6DD6,).',)6,' .')1/ ' 06 .% ** + ! MK%X' ()*' *6.,' 1 ' & **9.' //X' 1-' *2,*>1., 86.' 9*=',6,',)*' >/1.*' 1 '.*+72' 8**9.' >1 ; 2,*0' -1?',)*' 06 ' 2>/ ; .+*' 1//18 25',)*' ,)' 1 ',)*' .,' ?12,)% : *2>*' ,.' 26?*' ?*62.',)*' *6.' 1 '.*+*2' 8 *9.' 6.' 2^ 0**0' ,.' >6//*0' 2' (1D',I ',8-*' ' X% .',)*' *6-.' 1 'D6-/*' 6.' -.,C -; ,.' 1 ',)*')6-+*.,' 8*-*' 1 *-*0' 12',)*' S,)' 06 ' 1 ',)*' .,' ?12,)' .1' 12',) .' 06 ',)629.5 + 25' 86.' =6 0' 1-',)*' D/*.. 25' 1 ',)*')6-^ +*.,' 620' -.,C -; ,.' 1 ' 8)*6,' 1 *-*0' 6.' 8*// 6.' 1 ' V-; ,.')*2>*',)*' 26?*.' ?,.=B ' *6.,' 1 ',)1' : 6-^ +*.,' 620' 6 ' 1 ',)1' -.,C -; ,.% ** + ! MN%X' ()*' *6.,' 1 ' (-; ?=*,.' ! ' ,-; ?=*,C 82MHX' <.1' >6//*0' % *% 67-*6,' *., +6/' 1 '>*/*D-6, 12' D ',)*' .1; ,0' 1 ',)*' ,-; ?=*, J' 86.',)*' .' 06 '1 ',)*' ,)' ?12,)',)*' > + /' >1? ?*2>*?*2,' 1 ',)*' *6-% ** 0 aS?/ ! M %X' ()*' 6 '1 ' ,12*?*2,' 0 I6' 86.',)*' ,)' 06 '1 ',)*' ,)' ?12,)% ,' 86.'6' 6DD6,)',)6,' .' 6')1/ '06 '620' 6/.1' 6' 6.,',)*' 12/ '12*' 2',)*' : *D-*8' *6-' D* 1-*' ,)*' 6D /12 .)' 6=, + , % $=M?',) .' 06 ',)*') 5) C=-*.,' ?60*' 62' 1 *- 25' 1 '6,12*?*2,' 1-',)1' 26, 12% () .' 622 ; 6/ .1/*?2' - .*%.**?.' ?;-*' 6==-1^ =- 6,*',1',)*' >1? ?*2>*?*2,',)62',1',)1' ? 00/*' 1 ',)*' *6-T' 620',)*' , ?*' 1 ',.' >*/*D-6, 12',) ; .' 6 1-0.' .1?*' *+ 0*2>*' 2' 6+1-' 1 ',)*',)*1- ' 1 '6' 01 ; D/*' D*5 22 25% *>' ' : #' 3! M %X' ()*' *6.,' 1 ' (6D*-26>/*.' 86.' 9*=, 2',)*' ,)' ?12,)' -1?',)*' ,)' ,1',)*' KK0' O6 .' 2>/ ; ^ . +*' ,.' >) * '06 .' 8*-*',)*' -.,' 620' /6.,' 8)>)' 8*-* 6DD6,).% ,.' 26?*' 86.',69*2' -1?',)*'=*1=/*' 08*//^ 25' 2' ,6D*-26>/*.',1' >1? ?*?1-6,*',)1' L10 ; .% ' 86.' 1,)*-8 .*' >6//*0' : ' % *% ,)*' *6.,' 1 56,)*- 25 J' D*>6 ; .*' ,' 86.' 6/.1' 2.., ; ,.*0' 6.' 6' , ?*' 1 ' ,)629.5 + 25' 1-',)*' *20' 1 ',)*' 7,)*- 25' 1 ' -; ,' 620' 1 ',)*' + 2,65*% ** 0 ' : ' 3! ()*.?6//2 ; ?D*-' 620' . ?=/ > , '1 ',)*.*' =- ? , +*' : *D-*8' *., +6/.' 620')1/ '06 .' .'*.=*> 6// '81-,)'1' 21,*% ,' .' 6/.1' 1D.*-+6D/*',)6,',)* '6->' 21,' 1 '62' 6.^ ,-121? >6/>)6-6>,*-T' 620',)6,' 8)*2',)* '6-*' >122*>,^ *0' 8 ,)' 26, ; -*' ,' .' 6.' O -*>, 25',)*' 5-6, ; O*' 1',)*' =*1=/*' 1')?' 8)1' 2' 5 + 25' 5110',) 25.' /*6+*.' 21,') ?.*/' 8 ,)1 ; ,' 8 ,2*..% 2' /6,*-',?*.' ?62 ')1/ ' 06 .' 8*-*' 600*0% I ',)*.*',)*' ?1.,' 81-,)' 1 '-*?6-9' 6-*',)*' *6.,' 1 ' ; -?' 1-' ' 1,. J'>1?*?1-6, 25',)1' 0*/ /*-62>*' 1 ',)*' B*8.' -1?' : 6=?62 .' =/1, ',)*' *6.,' 1 ',)*' *0 >6, 12' -*>1-0 25',)*' >/*62. 25' 620' -*C0*0^ >6, 12' 1 ',)*' (*?=/*' D 7B ; 06.' <6>>6D *; 6' 620' 6.,' 12',)*' 622 +*-.6-*.'1 '5-*6,'26, 126/?. 1-,; 2*.' >12^ 2*>,*0' 8 ,)',)*' 6D /12 .)' 6=, + , % ()*.*' /6.,' 8*-*' 01 ; D, /*.' 2., ; ,.*0' 0 ; - 25' ,)6,' =*- 10' M>1?=% U*>)% + 7' C X% **+ $ g ! MS%X' $ "" ' 'D ' < ! ' ()*' .6DD6, >6/' *6-' K' `:D*' 6//18' *6- J' 1-' =1.. D/ A7*6-' 1 '-*? .. 12 J' 1-')6 6$' 6/12*' 6/.1' >6//*0' 6' .6DD6,) J' 620P6' 5-*6,' .6DD6,)%J' 86.' 62' 2., ; ., 12' 1 '.,- >,/ ',)*' .6?*' >)6-6>,*-' 6.',)*' 6DD6,) ' 6' *6-

1 '-*.,' / 9*',)*' 06 ' 1 '-*.,% ,')6.' 21,'D**2'.; > *2,^ / ' 21, >*0',)6,'6.',)*' 06 ')6.' 6'. 0*' 1 '=) . >0/ 2*>*.^ . , ' 8 ,)' -* *-*2>*',1' ?62 ' .1',)*' *6-')6.' 6' . 0*' 1 ' =) . >6/ 2*>*.. , ' 8 ,)' -* *-*2>*',1',)*' *6-,)% +*- ' .*+*2,)' * I ' 6==*6-.',1' D*' 6' +*- ' . ; ,6D/*', ?*' 1-',)*' -*>;--*2>*' 1 '6' 6//18' *6- ' 12' 65- >;/, ; -6/ =- 2> =/*.% *. 0*.',)*' -*.,' -1?',)*' /6D1-.' 1 ',)*' */0' 620' + 2*^ 6-0 ',)*-*' 86.' 2',) .' *6-',1'D*' -*? .. 12',*?=1-6- ' 1-' 6D.1/;,*' 1 '0*D,.' 620' 1D/ 56, 12.' 6?125',)*' =*1^ =/% ()*' .6DD6, >6/ *6-' .**?.',1',)6+*' >1? ?*2>*0' 6,',)*' > + / D*5 22 25' 1 ',)*' *6-' 8 ,)',)*' .*+*2,)' ?12,)% /,)1;5)' 01;D,/*..')*/0',1' >1? ?*2>*' 8 ,)' ,)*' -.,' 1 ',)1' ?12,)' ,.' D*5 22 25' 6==*6-.',1')6+*' D**2' 9*=,' 6,' ,)*' *6.,' 1 ' (6D*-26>/*.' M *;,% LLL X' 8) /*',)6,'1 ',)*'A;D /**' *6-' 8 6.' 9*=,' 12',)*' 6 ' 1 ' ,12*?*2,% () .' 2., ,;, 12' .**?.',1')6+*' D**2' 5-*6,/ ' 2*5/*>,*0 ' 6.' 20**0' 86.' =-1=)*. *0' D ' <1.*.' 8)1' .=*69.' 1 ',)*' 0*.1/6, 12' 1 ',)*' /620' 6.' 62' *2A1 25' ,)*' .6DD6,) .' 8) >)')60' 21,' D**2' 9*=,'M *+% LL+ ' Q ' N ' NX% ()*' .*+*2, ' *6-.' >6=, + , ' .' 6/.1' .=19*2' 1 ' 2' K')-12% MLL+ ' K X' 6.' 62' *2A1 25' .6DD6,)' D ;,' ,) .' ?6 ' D*' 12' 6>>1;2,'1 ',)*' 2; ? D*-' D* 25' .6DD6, ^ >6/ ' 6.',*2' , ?*.' .*+*2' 8) >)' 20**0' .**?.',1' D*' 2^ 0 >6,*0' 2',)*' =6..65*% ,*-',)1' /6=.*' 1 '.*+*2' .6D^ D6, >6/ =*- 10.' 1-' 1-, C2 2*' *6-.' 6' *6-' 1 'A;D /**' 86.',1' D*' 9*=,' ? ? *0 6,*/ ' 1//18 25',)*' /6.,' .6DD6,^ >6/ *6-% () .' 86.' >6//*0' ,)*' *6-' 1 ,)*',-; ?=*, J' 1-' 6/12*' ,)*' /6,,*-' 81-0' ?*62 25' >,)*-',)1' .1;20' 1 ',)*',-; ?=*,' 1-',)1' 2.,-; ?*2,' ,^ .*/ ' D*>6;.*' ,)*' >1? ?*2>*?*2,'1 ',)*' *6-' 860' 62^ 21;2>*0' 12',)*' 6 ' 1 ' ,12*?*2,'D ' .1;20' 1 ',-; ?^ =*,% , 86.' . ? /6-',1',)*' .6DD6, >6/ *6-' 2' ,g' >)6-^ 6>,*-' 6/.,)1;5)' 01;D,/*..' *,' ?1-*' ?=1-,62,% 2',)*' A;D /**' *6-'0*D,.' 8*-*',1' D*' -*? ,,*0' 620' /6)0.' 8*-*' ,1' D*' -*.,1-*0',1',)*' -' 1-?*-' 182*-.% ,' .' 1D+ 1;.' -1?',)*' 81-0.' 1 ',)*' /68' M *+% LL+ ' QC X',)6,',) .' *6-' 1//18*0' *+*- '.*+*2,)' .6DD6, >6/ A *6-' .1',)6,' ,)*'1= 2 12',)6,' ,' 86.' 6/86 .' 0*2, >6/ 8 ,)' 6' .6DD6,^ >6/ *6-' .' ;2,*26D/*% ()*-*' .'6' ;-,)*-'_;*., 12' 6.' ,1',)*'/*25,)' 1 '*6>)'A;D /**' =*- 10' ' 8*' ?6 ' ;.*',)*' ,*-?' .1?*' D1/0 25',)6,' ,')60' 6' 0;-6, 12' 1 ' , 'D;,' 1,)*-.' 1 ' 1-, C2 2*' *6-.% ()*' /6,,*-' 1= 2 12' 01*.' 21,'0*=*20' ;=12',)*' .;==1. , 12',)6,',)*' .*+*2,)' .6D^ D6, >6/ *6-' 86.',)*' A;D /**' . 2>*',)*' A;D /**' ? 5),' D*',)*' -.,' *6-' 1 ',)*' 2*L,' .*+*2' *6-.' 6 ,*-% ()6,' .;>)' 86.',)*' >6.*' .' -*20*-*0' ?1.,' =-1D6D/*' D ',)*' 626/15 ' 1 ',)*' 8**9/ ' 6DD6,) ' 620',)*' >;.,1?' 1 ',)*' B*8.' 2',)*' -.,' 620' .*>120' >*2,;- *.' % %T 6/,)1;5)' ,' ?;.,')*' 21,*0',)6,' 6>>1-0 25',1' <6)212 0*.' ,)*' A;D /**' =*- 10' 86.' 1 ' ,' *6-.',)*' ,C -.,' *6-' >1? ?*2> 25' 6' 2*8' =*- 10 ' 620',)6,',)*' .6?*' 8 -.,*-' ?*2, 12.',)6,',)*' B*8.')60' 6',-60 , 12',)6,'6 ,*-',)*' 0*.,-;>, 12' 1 ',)*' -.,' (*?=/*' 12/ ' .6DD6, >6/ *6-.' 620' 21'A;D /**' *6-.I'8*-*' 1D.*-+*0'M 0*/*-.' " " ' N S X% ()*',*., ?12 ' 1 'B1.*=);' 01*.' 21,' .**?',1' ;.' 6,' 6// >12>/;. +*' 6/,)1;5)' 0>/*'M ' >%X')1/0.' ,' ,1' D*' .17 1-') ./625;65*' 1 ' I *) ' + ' *-' - ' f ' - 1'& ' ' K' NX' >6221,' D*')*/0' ,1' =-1+*' 6D.1/;,*/ ' ,)6,',)*'A;D /**' *6-' 86.' 21,',)*' -.,' *6-' 1 '6' .6DD6, >6/*- 10' 2.,*60' 1 '.,620 25' D*,8**2' ,81' .;>)' =*- 10.% ' ,' .' ?=1-,62,',1' 6.>*-,6 2' 8)*2' ,)*' -.,' .6DD6, >6/ *6-' 1;5),' .1')6+*' D**2' 9*=,'T 8)*,)*' .6DD6, >6/ 620'A;D /**' *=- 10.' .**?',1')6+*' D**2' >12, 2;1;.T 8)6,' =1. , +*' -*>1-0',)*-*' .' 1 ' 62 ' .6DD6, >6/ 1-'A;D /**' *6-.') 6+ 25' D**2' 9*=,'T 620' 8)6,' 20 >6, 12.',)*-*' 7 *' 1 '6'-*>912 25' ' .:>)' *6-.' 1 ' * ,)*-' 9 20% ' ,' >62' .>6->*/ ' D*' >12,*.,*0' ,)6,',)*' -.,' .6DD6, >6/ *6-' ,1' D*' 9*=,' 6 ,*-',)*' .^ -6*/ ,*.') 60' *2,*-*0' 62662' 81;/0' D*' 6D1;',)*' 1;-^ ,**2,)' MB*22 25. ' D "' & (1' D9 ' ' >6=%' RX% ,' .' =1.. D/*',)6,' ,' ? 5),')6 *' D**2' .1?*8 *,' *6-/ *-' 1-' /6,*-' T D;',',)*' 26--6, +*' 8 // 21,' 60 ? ,' 1 '?:>)' /6,^ ,;0*% K% ,' .' >/*6-',)6,' 62 7'.6DD6, >6/ 620'A;D /**' *6-.' 9*=,' -1?',)*' , ?*' 1 'B1.);6' ;2, /',)*' 0*.,-;>' , 12' 1 ',)*' -.,' (*?=/*' 81;/0')6+*' D**2' -*>912*0' -1?',)*' -.,' 12*' D;,' ,' ?6E7 D*' _;*., 12*0' ' 62 9*=,' 6 ,*-',)*' -*,;-2' 81;/0',)*' >1;2,*0' 2',)*' .6?*' ?622*-a -1?',)*' 26,;-*' 1 ',)*' 2., ,;, 12. ' ,' .'-6,)^ *-',1' D*' .;==1.*0',)6,',)*' -*>912 25' 2',)*' .*>120' >6.*' 81;/0' D*' -1?C,)*' -.,';>;/, +6, 12' 1 ',)*' >1;2,-' 6 ,*-',.'-*1>>;=6, 12% ()*'-*>1-0*0' .6DD6, >6/ *6-.' 01' 21,' *26D/*' ;.',1',*.,',) .' .;==1. , 12' D*>6;,*' 8 >' 01' 21,' 9218' *L6>,/ ',)*' *6-' 1 '-*,;-2' ',)6,' 1',)*' -.,' >;/, +6, 12' 1 ',)*' >1;2,- f' ()*' -*>1-0*0' 06,*.' 1 '.6DD6, >6/ *6-.' 81;/0' ?69*',)6,' 2*L,' 6 ,*-',)*' -*^ ,;-2',1' >1? ?*2>*' 2' % % KQ' 620' D*' >;--*2,' 2' % % K ' 8) >)' 81;/0' ?69*',)*' -.,' *6-' 1 ',)*' =*- 10' % % S CN I8) >)' 81;/0' 21,' ?=-1D6D/ ' D*',)*' -.,' *6-' 1 '>;/, +6, 12' T D;' ,' 2',)*' >6.*' 1 '.1' .)1-,' 6' =*^ -10' ,) .' >6221,' D*' -*56-0*0' 6.' *+ 0*2>*' 1 ' ?;>)' 8* 5),% N% ()*-*' .' 21' =1. , +*' -*>1-0' 1 '62 'A;D /**' *6-')6+ 25' D**2' 9*=,'6,'62 ' , ?*% ()*' 06,*.' 1 '),)-**' .6DD6, >6/ *6-.')6+*')18*+*-' D**2' =-*.*-+*0% ()*.* 8*-*' >;--*2,' % % SN N ' 620' N ' 620',)*-* 1-*' >1?^ ?*2>*0' 2',)*60)' >6.*' 6D1;',)-**' ?12,),)' *6-/ *-',)62',)*' D*5 22 25' 1 ',)*'.*' B;/ 62' *6-.' MB1.*=);.'& 'L ' R' T L 'Q T' L + ' S' KT' L+ ' 'KT' 1' 'K' T' 620' ' <6>%+ ' R' NX% % ()*-*' 6-*' .1?*' >)-121/15 >6/ 20 >6, 12.' 2',)*' %' (%,)6,' ?6 '21,' ;2-*6.126D/A7D*' .;==1.*0',1' D*' >122*>,*0' 8 ,)',)*' .6DD6, >6/ . ..*?% ()*' =-1=)*,' [*9 */ 06,*.') .' -.,' =-1=)*>' 1 ',)1.*' 2',)*' D119' ' 2',)*',) -, *,)' *6- J' *,>%' ' 8) >)' c86.N ,)*' ,)' *6-' 1 ' 9 25' B*)1 6*D 2 .' >6=,6+ J' M ' KXT' ,) ;.' 6==6-*2,/ ' 06, 25' 2',)*' 1-?*-' >6.*' -1?' 6' D*,^ ,*-' 92182' 6*-6' ,)62',)6,' 1 ' B>)1 6>) 2 .' >6=, + , ' 8) >)')*' ?=/1 .' 2' /6,*-' =/6>*. ' 8 ,)1;,')18*+*-' 2' 5*2*-6/ 656 2' 0*.>- D 25',% () .' 06,*' 1 ',)*' ,/' *6-')6.' D**2' +6- 1;./ ' *L=/6 2*0T .1?*' 8 ,)' $.)*-' .;==1.*',)6,',)*' 6*-6' .',)*' Q,)' *6-' 1 'B1. 6) ' 8)*2' ,)*' D119' 1 ',)*' /68' 86.' 1;20' 620' 6' 5-*6,'=6..1+*-' >*/*D-6,*0' M.**' : 6+>-2 >9 ' ' '6/ "' =% NK NX' () .' *6-' 1 'B1. 6)' 81;/0' >*-,6 2/ ' D*',)*' -.,' 1 ' , /*' -*>912 25' 620' ? 5),' D*' ;.*0' 6.' 6 9 20' 1 ' -* 1-?6, 12C6*-6 '21,' ;2/ 9*',)*' 6*-6' 1 ' ?12',)*' <6>C %6D*% ,)*-.' .;==1.*',)6,',)*'),)' -, *,)' *6-' 1 ',)*' =-1=)*, .' / *' .' ?*62, ' D;,',) .' .**?.' +*- ' ;2/ 9*/ % ,)*-.' 656 2' 2>/;0 25' >6/ 5*-' M *' 6 Y1! ' - % 1' =% R' K Q' *0% DNX' 620' 1.*2?;//>- I1$ " ! 2' /1>%X')1/0',)6,' ,)*' 06,*' -1?' ,)*' >1?^ ?*2>*?*2,' 1 ',)*' -* 52' 1 ' 6D1=1/6..6-% ()*-*' .' 21' -*>1-0' 1 '62' .*-6' 1 ' 6D1=1/6..6-T ,)6,' 9 25')60% D**2' 0*60' .1?*' *6-..T 620' 8*)6+*' 21' 2.,62>*' 2',)*' (*,' 1 ',)*' ;.*' 1 '6' 1-* 52' e-6% ()*' *+ 0*2>*' ,)*-* 1-*' .' 2' 6+1-' 1 'B1. 6) .' Q,)' *6-' % %SKN% ()*-*' .**2-.',1' D*' 621,)*-' -* *-*2>*',1',) .' 06,*' 2',)*' .6?*' D119' 8)*-*',)*' , ?*' 1 ',)*' 2 _; , ' 1 'B;^ 06)' .' .6 0',1' D*' ' *6-.T 1-' ,)*' 26/ >6=, + , ' 1 ' B;06)' MB*-' 'N X' 86.' 2',)*' ..,' *6-' 1 ',) .' -*>9^ 12 25% 2',)*' .6?*=/6>*' M [*9% + ' 'SX',)*' , ?*' 1 ',)*' 2 _; , ' 1 ' .-6*/ .' .6 0',1' D*' NR ' *6-.' 8)>)' .;?' 600*0',1',)*' 06,*' 1 ',)*' >6=, + , ' 1 ',) .' <6-' 1 ',)*' 26, 12 ' % ' K ' 51*.' D6>)',1' % % % () .' -*.,/,'/*60.',1',)*' 20 >6, 12' 1 '=1.. D/*'A;D /**' 06,*.T 1-' ,)*' 2,>-f 6/ D*, 8**2' % % ' 620' % % SKNCK' .' QQCR' *6-.' 6/?1.,' *L6>,/ ' ,*2' A;D /**' =*- 10.T 620' ,' ? ;.,' D*' -*?*?D*-*0',)6,',)*' .*+*2, ' 8**9=' 1 ',)*' =-1=)*,' 62 */.**?',1' 20 >6,*',)*' ;.*' 1 ' .;>)' 6' 5-*6,' >A>/*% ,'-*?6 2.',1' D*' 6.9*0' 8)*,)*-',)*' 6>>1;2,.' 1 'B1. 6) .' 1-*? 6, 12' =-*.*2,'62 ' D ',)*' 20 >6, 12.' 1 '>*/*^ D-6, 12.' >122*>,*0' 8 ,)',)*' .6DD6, >6/ . ..,*?% ()1' 20 25' 1 ',)*' D119' 1 ',)*' 68' ? 5),' .**?',1P=1 2,',1' ,.' D* 25' .=*> 6/, ' -* ; -*0' 1-' .1?*' =;D/ >' .*-+ >*% ;>)' 6' .*-+ >*' 86.',)*' 5-*6,'-*60 25' 1 ',)*' 68',1',)*' 8)1/*' >125-*56, 12' 6,',)*' *6-.' 1 ' (6)*?6>/*.' 2'*+^ *-E!' .6DD6, >6/ E7*6-' M *;,% LLL ' C NX% ()*' 20 25' 1 ',)*' D119' 86.' >*-,6 2, ' 1//18 *0' D ' 6' =;D/ >' -*60^ 25' 6==6-*2,/ ' 2' ,)*' -.,' ?12,)' D ',)*' 9 25',1',)=' 8)1/*' =*1=/*' 1 'B;06)' 620' B*-;.6/*? ' 620' 6 ,*-86-0.' 6' .1/*?2' =6..1+*-' 86.' 9*=,% ',)1',/6,.*-' >*/*D-6^ ,12' .' ,'.6 0' 2' 25.' ' ;-*, ',)*-*' 86.' 21,')1/0*2' .;>)' 6' =6..1+*-' -1?',)*' 06 .'1',)*' B;05*.',)6,'A;05^ *0' .-6*/' 21-' 2' 6//,)*' 06 .'1',)*' 9 25.' 1 ' .-6*/' 21-' 1 ',)*' 9 25.' 1 'B;06) J' MK' 25.' LL ' KKXT' 620' =

)-12 >/*. ' ( )*-*' 86.' 21' =6..1+*-' / 9*' ,1' ,) 6,' 9*=,' 2' ..-6*/' -1?' ,)*' 06 .' 1 ' 6? ;*/ ,)*' =-1=)*,1' 2* ^ ,)*-'0 0'6//',)*'9 25.'1 ' .-6*/9**=' .;>)'6' =6..1+*-'6.' B1. 6$' 9*=,J' MK')-12% LL+ ' QX7 ( )*' ?*2, 12' 1 ' 6? ;*/ .' >?6-96D/*' . 2>*' 2'/ .', ?*',)*'*6-/ *-' .;=^ =1.*0'06,*'M % % X 6//.% ,'?6 'D*' 1DA*>,*0',)6, ,)*'=6..1+*-' .'218)*-*'>122*>,*0'8 ,)',)*'.6DD6, >6/ -*>912 25† D;',)*.*'=6..1+*-.'>62'.>6->*/ ')6+*'D**2' 5-*6,*-' 2' .6>- >*.' ,)62' 6,' /*6..' 12*' 2' 1/1?12 .' -* 52 ' 21-' ' ,'/ 9*/ ',)6,',)* '6-*' ?*2, 12*0'6.'>)6-^ 6>,*- [*0'D ' 5-*6,*-' [*6/',)62' 62 ' 1,)*-.' 8)6,*+*-' .1',)6,' 8*' 6-*' 6/?1.,0- +*2',1',)*' 0*6' 1 ' .1?*' -*/6^ , 12',1' >)-121/15 % **' ' F g ($ L ! % *6 ! ' ( )*-*' 6-*' 20 >6, 12.' 1 ' .*+*-6/') .,1-^ >6/' I*-6.')6+ 25' D**2' ;.*0' D ',)*' 62> *2,' :*D-*8.' D;'1;-' 2 1-?6, 12' .' .1' .>62, ',)6,'8*' 6-*' 5*2*-6// ' ;26D/*',1'>1?*',1'=1. ,+*'>12>/;. 12.% 1?*' 1',)*.*' =1.. D/*' .*-6.' ?6 'D*' 21' ?1-*',)62'06,*.'*?=/1 *0'D ' 8-,*-.'620' 21,' 26, 126/ 6*-6.† 1,)*-.')18*+*-' >62' .>6->*/ ')6+*' D**2' ;.*0' 2',) .' .=*> 6/ 1-' 20 + 0;6/ ?622*-' -1?',)*' -'-* *-- 25',1' *+*2,.' 1',)*') 5)*.,' ?=1-,62>*',1',)*' 8)1/*'=*1=/*% **' > / ' ! M %X' ( )*' L10;.' .' ;.*0'6.' 62' .*-6' 2' ' 25.' + ' ' 2'5 + 25',)*'06,*'1',)*' 1;206, 12'1' 1/1?12 .' (*?^ =/*% ( ) .' .',)*' 12/ '=1. , +*' 2..62>*' 1',)*' 1>>;-^ -*2>*'1',) .' .*-6' 1-'8*'>6221,'65-**' 8 ,)' 0*/*-',)6,' ,' .'>*-,6 2/ '*?=/1 *0' 2',)*' *2,6,*;>)% :*'-*'*-.' ,1' L10% L L' ' 620' ;?% LLL ' NQ I "1' ' X% :*-*' 6.' */.*8)*-*' 2',)*' .6?*'=6-,'1',)*' ^ D/*',)*'D*5 22 25'1',)*' L10;.C *6- ' 21,' 1 '>1;-.*' ,)*'6>,;6/06,*'1',)*' L10;.'M.**'5 ' 'D*/18X' ' .';.*0'6.',)*'=1 2,'8)*2>*',?*' .' >1;2,*0T D;' 0;-25',)*' 2,*-+6/1'8)>)',' 1-?*0',)*'26,;-6/>1?^ ?*2>*?*2,' ,'>6221,'D*' .)182',1'D*' 62' ?-6',)1;5)' ,'?6 ')6+*'D**2'62 ' ?1-*',)62',)*'D*5 22 25'1'6' .1+*-*52.'-* 52' .'12*% **' > . ! MK%X' ( )*' 1;206, 12'1' 1/1?12 .' (*?=/*' .'>12A*>^ ,;-*0'D ' 0*/*-',1')6+*'D**2'62' .*-6% ( )*'=6..5*.' 1' 1' K')-12% + ' X ?*-*/ ',=*69'1'1>>;--*2>*.' .;D.*_;*2,',1',)*' 2,*-^ +6/1'K ' *6-.'1>>;=*0'2',)*'D; /0 25'1',)*' (*?=/*' 620',)*'9 25 .')1;.*D1,)'D*25'0 .,2>,/ '.=*> *0T .1',)6,') .'-*60 25'M U8 62[5'B6)-*'26>)0*?' 6/1^ ?*'06.' :6;.'0*.' :*-?'*-D6;,*JX/*6+*.'1;')6/',)*' .,6,*?*2,'620'.1'?69*.' ,' 2>1--*>,'I# "!' % >%X% ,' .'*/.*8)*-*' ..6,*0',)6,',)*'D; /0 25'1',)*'(*?=/*' 1>>;=*0'.*+*2' *6-.'M' 25.'+' 'N 'NQX'620',)6,'1 ' 1/1?12.')1;.*',) -,**2'M+ ' X'?69 25';=',)*'2,*-^ +6/1',8*2, ' *6-.% **'0 / ! MN%X' ()*'6T-6'12>*';.*0'D ' [*9 */''620'>1?7*2> 25' 2'B1. 6).' Q,)' *6-'8*')6+*'0.>;..*0'6D1+*% **' B1. T > - ! M %X' ()*'.*-6'1 'B*)1 6>) 2.'>6=, + , ' .' >12.,62,/ ';.*0'ŒT [*9 */% ()*'*6-/*.,'06,*'.',)*' ,)' *6-'M' KX'620',)*'/6,*.',)*'K ,)'MLL L' X% ()*'=-1=)*,' 5*2*-6// '5+*.',)*'06,*'8 ,)1;,'6==, 25'62 '0.^ , 2>, +*',*-?',1',)*';*-6% :*'.=*69.')18*+*-'1' ',)*' ,)' *6-'1'9 25'B*)1 6>) 2.'>6=, + , J'M'KX'620' ,)*',8*/ ,)'A7*6-'1'1;-'>6=, + , J'MLLL 'K X',)*' /6,,*-'1'8)>)'*L=-*.. 12.' ?6'*L=/6 2').'>12.,62,' ;.*'1',)*'.*-6% ( )*'.6?*'.*-6'.'2*>*..6- / '*?=/1A7*0' ,)1;5)'21,'6.';>)'8)*-*',)*'60+62>*?*2,'1'B*)1 C 6>) 2' 2',)*'N ,)' *6-'1') .'>6=, + , ' .' ?*2, 12*0'MK' 25.' dd 'K T B*-%/ 'N X% & *')6+*'21'=-11',)6, ,'86.';.*0'*L>*=,'D ',)1.*',1'8)1.*'>6=, + , ' ,'-*^ *--*O% ,' -.' *6-'86.'>;--*2,' % % RQ >1?7?*2>^ 25' 2',)*'.=- 25'1',)6, *6-% **' (' ' .! M %X' ()*'D*5 22 25'1',)*' .*+*2,A7 77*6-.'>6=, + , ' 01*g 21,'6==*6-',1')6+*'D**2' ;.*0'6.'62'>*-6† D;',)*' 0*,-;>, 12' 1 'B*-;.6/*?'D ',)*' 6D /12 62.' .'1>>*^ . 126// '-* *--*0',1' 1-')-121/15 >6/ =;-=1.*.'M [*9% L/' X% **' / # ! MS%X' ()*'-*,;-2' -1?' 6DAO12' 01*.' 21,'6==*6-',1'D*' *?=/1A>0'6.'62' .*-6† ,' .')18*+*-'-*>912*0' -1?' 2' [-6' M ' 'QX'6.' .',)*' L10;.' 2',)*' *2,6,*;>)% **' > - ! A M %X' ()*' -6'1',)*' */*;>06*' .';.*0' 2',)*' -.,'620' .*>120' D119.'1'<6>>6D**.% **' $ $! MQ%X' ()*' / D*-6, 12' 1',)*' B*8.' -1?',)*' - 62' !19*' 2',)*' -.,'A7*6-'1' ?12',)*'<6>>6D**' .',.,6,*0' ,1')6+*'D**2'>1?7*?1-6,*0'D '62' .*-6'/.*0' 2'>12^ ,-6>,.'620'65-**?*2,.'M'<6>>% L ' X% ()*' *6-.' 'K'620'N12',)*'>1 2.'6.>-D*0',1' ?12'\.**'<1LC # 'g ' ;'6-*'=-1D6D/'1',)'.'.*-6'6/,)1;5)',' .' -*/6,*0',)6,',)*'-5),'1'>1 2 25'?12*'8 ,)') .'182' ,,6?='86.'21,'>12>*0*0',1') ?' ;2,/.1?*8)6,'/6,*-' ,)62' ,.'D*5 22 25'ML+'4X' 1-' ,' ?6 'D*'-*6.126D/E' .;==1.*0'*,)*-',)6,' 2, 1>);.' '>12 -?*0'=- + ^ /*5*.'D* 1-*' 5-62,*0'D ') .' D-1,)*-' *?*,-;' M>1?=% d ' X' 1-',)6,')*'56+*') .' .62>, 12',1' ?12* ' 6/-*60 ' ..;*0'I6 !';!')Q,)'>0% .'+% ;?.?6,^ >.'=%N R'NQ X% **' ! MR%X5 '< ' ',)*' :*D-*8.' -*526/A*6-.' 6==*6-',1')6+*'D**2'>1;2,*0'-1?',)*'D*5 22 25'17' ,)*'*6-'21,'-1?',)*'06A/1',)*'9 25.'6>>*..12% ( );.' '6'9 25'>6?*',1',)7',)-12*' 2',)*'/6..'?12,)' 1'12*' *6-'-* 52*0' 1-',)*'8)1/*'1',)*'2*L,'EI>6-' 620'0*0'2',)*' -.,'?12,)'1',)*',) -0'EI*6-'8>'?5),')6+*'06,*.' 2') .' --,'.*>120'620',) -0' *6-.'6/^ ,)1;5)')*'51+*-2*0' 1-'21'?1-*',)62',) -,**2'1-' 1;-^ ,**2'?12,).% 2 '06,*.' 2',)*'AI*6-'1'/ .'6>>*..12' D* 1-*',)6,'*+*2,'1-' 2',)*'A*6-'1'/ .'0*6,)'6 ,*-' ,' 81;/0'D* 6.. 52*0',1',)*'/6..'A*6-'1') .'=-*0*>*..1-' 620',)*' -.,'1') .' .;>>*..1-% ()*' .6?*' =-2>=/* 81;/0'6==/' ,'1' -*>912 25' -1?' *-6,'1-' ?=1-,62,' *+*2,.') ;,)*'8)1/*' .,6,*0'/*25,).'1'-* 52.'1-'2,*-^ +6/.'81;/0'21,'X'6 *>,*0' % >1'1 'g 1 L ! % 1 % ' ( )*') .,1- >6/=6-,'1' : *D-*8' >)-121/1^ 5' .'21,'/*..'0 >;/,',)62',)*',*>)2>6/% ()*' 2 1-^ 2'6, 12' 2',)*' D/*' .' 20**'0'0 -*>,'-6,)*-',)62' 2 *-^ *2, 6/'6/,)1;5)',)*-*' .' +*- ' ?=1-,62,' *+ 0*2>*' 1' ,)*'/6,,*-'9 20T D;,',)*'=-*.*2,'..6,*' 1',)*' 2; ?D*-.' ?69*.' 6D.1/;,*' >*-,6 2, ' 2' .1?*' >6.*.' ?=1.. D/*% 2'600, 12',1',) .'0 >;/,E ',)*-*' 6->' .*+*-6/56=.' 2' ,)*'.*- *.'1' .?6//*-'2;?D*-.'8)>)'= ')6+*'21'?*62.' 1'.;==/ 25'8 ,)'*L6>,2*..% &)*2',)*-* 1-*'81'>62' >1?=6-*' .*+*-6/1',)*.*' .?6//*-'2;?D*-.'8 ,)'6'/6-^ 5*-'2;?D*-'1-'8 ,)' 20*=*0*2,'*+ 0*2>*'81'6-*' *C _;>2,/E'=-*+*2,*0'-1?'=;,, 25'6'>12>/;.+*',*.;'D ',)*' 0* > *2> *.' 2',)*' -.,'.*- *.% 6,*/'.1?*')6+*/6 0' 5-*6,'.,-*..';=12',)*' -*_;*2,'1>,;--*2>*1',)*2;?^ D*-' '6//*5 25',)6,',620' '6-*+65;*,*-?.'*_;+6^ /*2,',1' ?62 J'.1',)6,' 'A*6-.J 1-' 'A>6-.J 81;/0'?*62'21'?1-*',)62' ?62 'A*6-.%J' ' ' ,) .' 0*6'81;/0'.**?'-*6.126D/*'D;,'12'6' ;-,)*-'*L^ 10.'1' ' *6-.'6-*'5 +*2'620'.)18',),6,',)*2;?D*-' .' 21,' 20* 2,*' 8)*-*' ,' 81;/0'6,' -.,'*.=*>6// '.**?' ,1'D*'.1% ( );.',)*' 'A*6-.' 2',)*'8 /0*-2*..'>62'D1' 0+0*0'.2,1',)-**'=*- 10.†% -1?',)*' L10;.',1',)1' .*20 25'1;,'1',)*' .= *.' 86.' 6D1;,'12*'A*6-'620'6' _;6-.*-'M'A*6-A7/m6A'\K'HH'?12,).' ;?% L' T' L' T' >1?=% +*-% KR' /18 25' ,'86.',) .' *6-'620'L 'K ' =-1+25',)6,',)*' .*6>)'*20*0' .1?*8)6,'6 .*-' ?0^ .;?7*-X†K% ()*',?*'1'.*6->)' '06A.'M ;?% L ' K XT N% ()*',?*'1',)*' 8620*-25' ;2,/',)*' D-119' U*-*0'86.'>-1..*0'QQ' *6-.'M *;,% ' X' ?69 25'6/,1^ 5*,)*-'6/?1.,'NRB A*6-.% ( ) .'=*- *>,/'6>>1-0.'8,)' ,)*' 06,*'M - I ?% '0% X 1',)*' 600-*..'1'<1.*.' 6 ,*-',)*' >12_;*.,'1')12' 620' 5'M *;,% 'N' X' 8)>)' 86.' .;D.*_;*2,',1',)*'>-1.. 25'1',)*' D-119' U*-*0% ™ 1'656 2' 6+ 0 .'-* 52'1' ' .'0 + 0*0' 2,1' '>6-.'S ?12,).' 2' :*D-12'620'NN' 2'B*-;.6/*?' MK' 6?% ' T' + ' T')-12% : ' T' D;',' 25.' ' % *6-.'1? ,, 25',)*' ?12,).'620'NN% ( ) .',)*-*^ 1-*'>6221,'D*' 62' 20* 2,*' 2;?D*-'6.'1>>*' ?5),' >12A*>,;-*' -1?',.' 1//18 25' 6;/.' E*6-.'620'=-*^ >*0 25' 1/1?12.% ( )*'/6.,',81'-* 52.'656 2'>1;/0' 21,')6+*'D**2'?;>)' ?1-*'1-'/*..' -1?',)*'>-;?^ .,62>*.'1',)*')*-* 1-*'01*.' 21,'86--62,' 1;-' .;==1. 25' ,)*'>12.,62,';.*'1'+65;*'12*.% **'*$!

( )*' 6,,* ? =;' ,1' >1--*>,J' 1-' ?=-1+*' ,)*' : *D-* 8' >)-121/15 ' D ' ?*62.' 1 ' ,)*' 06,6' /6,*/ ' 0*> =)*-*0' -1?',)*' 5 =, 62'620' .. - 62' 2.>- =, 12.')6.' D**2' 6' 6+1- ,* ?*,)10' 1 '/6,* ' 6.' 86.' 2' =-*+ 1 ;.' , ?*.' 6' . ? /6-' >Z7=6- .12' 8 ,)' ,)*' -*/ >.' 1 ' 62> *2,'-*>1-0.' ' 2')*6,)*2' 6 ;.,)1-.% : , ' ; 2 1-, ; 26,*/ ' ,)*.*' .,6,*^ ? *2,.' 6-*' .1' 0 .>-*=62,' 8 ,)' 12* 621,)*-' 620',)*' -*^ .;/..' +6- ' .1' 8 0*/ ' 6.' ,1' D*' 1 '+*- ' / ,,/*' =-6>, >6/' +6/;*' 1-' .;>)' 6' =;-=1.*% ()*') *-15/ =) >6/' 06,6' 6->' ,11' -65 ? *2,6- ' 620' 0 .>122*>,*0 '6.' 8*// 6.' ,11' ;2>*-,6 2/ ' ,-62./6,*0') ,)*-,1' ,1' 6 1-0' 62 ' 0* 2 ,*' >)-121/15 >6/ >)6 2' 620',)*' >;2* 1-?' /*5*20.'01' 21,' - .*' .1' *6-/ ' 6.' ,)*' 0 .=:,*0' =6-,' 1 ' D/ >6/' >)-121/10' *' > # / '9 #

% @ '& ' '& (' % ' ' '2 !' ' //',)*' 2;?*- >6/' 06,6' 2',)*' D/*' 1-',)*' >)-121/^ 15 ' 1',) .' 2,*-+6/ 6-*' >1?=- .*0' 2',8 1' 5*2*6/15 >6/' 7 .,.' 2' 4*2*. . !',)*' -.,' -1?' 06?',1' 16)' 620') .' .12.' M4*2' + ' N ,1',)*' *2OX' 620',)*' .*>120' -1?')*?' ,1' D-6?' ML ' CKSX' 620' 2' >*-,6 2' =6..65*.' 2',)*' .;?1' /X119' M+ ' S T' + ' NT' L ' KQ' KRT' L ' NKT' L ' X% ()*' <6.1-*,>' : *D-*8',*L,',)*' *=,;65 2,' *-^ . 12' 620',)*' 6?6- ,62' *2,6,*;>)' 5-*6,/ ' 0 *-' 6.' ?6 ' D*' .**2' D ',)*' 1//18 25',6D/*' 8) /*',)*' =6-6//*/ >6;.*.' 8)6,*+*-% 7 .' 21',81' 1 ',)*' / .,.' >1--*.=120' ,)-1;5)1;,'620' 6.' 6') 5)'0*5-*' 1 '62, _;, ';201;D,^ */0' 'D*/125.',1',)*?' 6//' *6>)')6.')60' ,.' 60+1>6,*.' 6.' ,)*',-;*' 1- 5 26/% %()*' >6-0 26/ ?=1-,62>*' 1',)*.;D^ A*>,'0*?620.' 6' >/*6- ' ;// ' 620' ?=6-, 6/ *L6? 26, 12' 1',)*' 6-5;?*2,.',)6,'D*6-';=12',)*-;6>>;-6>' 1 '=6-,>;/6-' 2;?^ D*-.% .' 6' =->/ 2 26-E7',' ?;.,' D*' 21,*0',)6,',)*' +6^ - 6, 12.' 6->',)*' -*.;/,'1 '0*. 52' 21,' 6>> 0*2,' 6.' .'*+^ 0*2,' -1?',)*' *6-.' D* 1-*',)*' D -,)' 1 '6' .12' 620',)*' -*. 0;*.' 65-** 25' 2',)*-'.;2.' 2' 6/?1.,' 6// >6.*.' 2' ,)*' 62,*0 /;+ 62' 5*2*-6, 12.',)*' *L>*=, 12.' .6+*' 12*' M 6?*>)X' D* 25' 6==6-*2,/ ',)*' -*.;/,'1 '2*>*..,',)6,' / +*.' .)1;/0' 21,' 1+*-/6=',)*' 01,*' 1 ',)*' /110' M>1?=% / 2,12' @ &'# ' 'KQ X% & *')6+*' 21' >/*8',1',)*' 06,*' 1-' 06,*.' 1 ',)*' 6/,*-6, 12.' *L>*=,',)6,' 8*' >62' ,-6>*',)*' *=, ' 1-?',1',)*' .,'>*2,,- '1',)*')- ., 62' /*-6' ' 21,') 5)*-' 620',)*' : *D% ,1',)*' ,)' >*2,,;-A T' ',)*' 6?6-'2;?D*-.' D*' 6.' 1/0' 6.',)*' ,*L,' 81' >62' 6.. 52',)*?'6') 5)*-'62, _;, ',)62'8)6, .' 9218 2' 6.' ,1',)*' : *D% ()*/ ,,/*' 6 _;6 2,62>*' ?1.,'1',)*' *6-/ ')- ., 62' 8-,*-.')60' 8 ,)' : *D-*8' ?69*.' ' ?=1.. ^ D/*',1'0*> 0*' 12',)*-'*+ 0*2>*',)6,',)*' +6- 6, 12'0 0' 21,'*L .,'8)*2',)*' '8-1,*1',)*',*., ?12 '1'B1.*=);.



6>>1;2,.' 1 'B1.*=);.' M 8 % 'N' N' 620' ' T' ' T' X' 01' 21,' *L6>,/ ',6// ' 8 ,)' 62 ' 1 ',)*?% ()*' 6, 2' ;/56,*' .,- >,/ '>12 1-?.',1',)*' : *D-*8% ()*' =- 2^ > =6/ +6- 1;H -*60 25.' 6-*' 5 +*2' D*,8**2' D-6>9*,.' 620',)*' 2;?D*-.' 8)>)' 6-* ' -1?' .,6,*?*2,.' 2',)*',*L,'6-*' *2>/1.*0' 2' 6'=' -*2,)*. .% 2',) .'=*^ - 10',)*-*' 6-*' 6' 2;?D*-' 1 '.*- 1;.' 0 >;/,*.% M %X ()*' 2;?D*-' 1 '5*2*-6, 12.' 2',)*' *=, ' .' 12*' 2' *L>*.' 1 ',)*' : *D% 620' 6?6-%' 12' 6>>1;2,' 1 ',)*' *>120' 6 262 J' 8)1?' ,)*' D*.,' >)-121/15*-.' 6-*' 65-**0' 2' -*A*>, 25' 6.' .=;-1;.% : *' .' 1;20' */.*^ 8)*-*' 12/ ' 2' .1?*' >1=*.' 6,' ')-1_% ' ')20' 2' ;9*' 'NS% B1.*=);.') /1' 620',)*' *6-/ *-')-.^ , 62' 8-,*-.' 6==*6-')18*+*-',1')6+*' 9218 2' 21,) 25' 1 ') ?' 620',' .',)*-* 1-*' =-1D6D/*' *,)*-',)7)*' 86.' -.,' 2,-10;>*0' D '6' >1= .,' 2,1',)*' 41.=*/6<',)*2>*' 2,1',)*' *=,%' 1-'*/.*',)6,',)*' 86.' 1;20' 2' .1?*' < %' 1',)*' *=,' 620',)*2>*' 2,-10;>*0' 2,1',)*' 41.=*/' 620' 6 ,*-86-0.' 2,1' 6// 1,)*-'>1=*.' 1',)*' *=,% **' L ! MK%X ()*' -*?6-96D/*' 0 .> *=62> *.' 2' 2*6-/ '6//',)*' 26?*.' 6.',1',)*' -*.:=*>, +*' 65*.' D* 1-*' 620' 6 ,*-',)*' D -,)' 1',)*' */0*.,' .12' 8)/*',)*',1,6/.' 5 +*2' 5*2*-6/^ / '65-**')6.' 1>>6. 12*0' 5-*6,*-'+6- *, ' 2',)*' .>)*?*.' 1 '0 *-*2,' D/ >6/' >)-121/15*-.',)62' 62 '1-'6//' 1,)*- .')*-*' 1 '?1-*' 8* 5),'D;,' 2') .'=-*.*2,',*L,' ,'.)D8.' >12,-60>,12',)1;5)'=-*=120*-6, 25' 2' 6+1-' 1 ',)1' *=,' 2;?D*-.% '>1?=6-.12' 1 ',)*' /.,.' 81;/0' /160' ;.',1'.;==1.*'12' 2,*-26/'*+ 0*2>*',)6,',)*')60' -.,' 3,81' 1-?.'620',)6,',)*',) -0'+*-. 12' 1 ',)*?' 1- 5 26^ ,*0' -1?',)*.*' ,81% ()*' <*.. 6)' .)1;/0' >1?*' 2' ,)*' . L,)' ? //*26- ' 1',)*' 81-/0 .' 65*' ? 5),' 21,'D*' 9218 2',1' *' ;/ //*0' A2,)*' 60+*2,' 1 '1;-' 1-0% ()*' -*6.12' ? 6 'D*' .;^ > *2,' 2' ,.*/ ' D;,' ,'01*.')1,'-*.,';=12' .;> *2,' *+^ 0*2>*% ' .')18*+*-' 81-,) ' 1 '-*?6-9',)6,' 2',)*' 6=1.,1/>' 65*',)*-*' 8*-*')1,' 0 .>;.. 12.' -*.=*>, 25' 5*2*6/15 *.' M(,% ' RX' 8)>)' 81;/0' .**2' ,1' 20 >6,*',)6,' 5-*6,' ?=1-,62>*' 86.' 6.,6>)*0',1',)*?' =*-)6=.' 6/.1',)6,',)*' 0 *-*2>*.' 1-' .1?*' 0 *-*2>*',)*=' *L% .,*0% ()*' 0 *-*2,' =-1=1-, 12.' 1 ',)*' 5*2*-6, 12.' 620'/ +*.' 2',)*' *=,' 620' :*D%)6+*' D**2' 6..*-,*0',1' 6 1-0' 12' 6-5;?*2,' 2' 6+1-' 1 ',)1' 1-?*-% ,'6'/6,*-' =*- 10')18*+*-' 8)*2' 8*' 20' 2-,62>>.' 1 '/125*+ ,

-*>1-0*0' 2' 6//' +*-. 12. ' ,/ 1' , ?*' 1 ' ?6-- 65*' .' 21,' 0 0*-*2,' -1?' 8)6,' ,' .' 6,' ,)*' = .*;,' 06 '6/,)1;5)' ,)*-*' 6-*' .1?*' /125' 5*2*-6, 12.% ' .,-125*-' 6-5;^ ?*2,' 1-' ,)*' *=,%' 2' + *8' 1 ' ,)*' ;2 , '1 ' ,)*') ; ?62' -6>*' .' 1;20' 2' ,)*' /125' =*- 10' -*_; -*0' -1?' ,)*' /110' ,1' ,)*' .=*-. 12'620' ,)*' *.,6D/ .) ?*2,' 1 '9 25^ 01?.% () .' .;==1. , 12' 81;/0')18*+*-'-*_; -*' ,)6,' ,)*' =6,- 6->)6/ 5*2*-6, 12.' .)1;/0'D*' * ,)*-'*L>*=, 12^ 6/ 1-' -*=-*.*2,' =*- 10.% 1-' ,)*' 1-?*-' 1 ' ,)*'.*') ^ =1,)*.*.' 8*' .)6// .*' ,)*-*' .' .1?*5-1;20' 2' ,)*' . ?*^ /6-' >6.*' >*-,6 2' 5*2*-6, 12. ' A; .,' 6// ;0*0',1 ' -1?' D-6)6?'0182 86-0.% & ,)' .*.=*>,' ,1'=-1D6D / , '1 ' 6>>;-6> ' 6- . 25' -1?',)*' .,6,*' 1 ' ,)*' ,*%L,' ,)*' : *D% >*-,6 2/ ')6.' ,)*' 60+62,65*% ()*-*' .' *+*- ' -*6.12' ,1' ,) 29' ,)6,' ,)*' 6DD 2.')6+*' D**2' .>-;=;/1;.' 2' ,)*' *L,-*?*' 2' ?69 25' 6/,*-6, 12. ! ,)*' *=,%' 12' ,)*' 1,)^ *-')620' .)18.' . 52.' 1 ' 6' >6-*/*..2*..' ,)6,' 81;/0' 6/^ ?1.,'=*-? ,' >)625*' 620' 8*')6+*' ,)*' =-1D6D/*' 2,*-^ =1/6, 12' 1 ',)*' =1..,C0 /;+ 62' 2 262% ')18*+*-' 8*' >12. 0*-' ,)*' 6?6-' 1-?' 1 ',)*' / .,.' 6.' .=-;25' -1?' ,)*' 1,)*-',81 ',)*' *=,' 81;/0' .**?',1' D*' *6-/ *-' ,A 62' ,)*' : *D% .2>*' ,' .' ?1-*' =-1D6D/*' ,)6,' ,)*' 62,*0 /;^ + 62' 5*2*-6, 12.' 81;/0')6+*' D**2' .)1-,*2*0',1' 6' 5*2^ *-6/ 65-**?*2,' 8 ,)',)*' : *D% ,)62' ,)6,' ,)*' =1..C0 /;^ + 62' 81;/0')6+*' D**2' /*25,)*2*0',1' .;',)*' *=,%' 1-' ,' .' 1D+ 1;./ ' ?1.,'/ 9*/ ',)6,' .; >*2,'2;?D*-' 1 ' *6-.') 6+ 25' D**2' 0*0;>,*0' -1?',)*' *6-/ *-' 5*2*-6^ , 12. ' ,)*' 1=*-6, 12' 86.' 21,' >6-- *0' 12' 8 ,)' ,)*' /6,*-% ,' .' 21, >*6D/*',)6,' ,)*' .,6,*0' .;?.' 2' ,)*' =1..,C0 /;^ + 62' 5*2*-6, 12.' 2' ,)*' 6?6-' 5*2*-6// ' 65-**' 8 ,)' ,)*' >127=:,*0' .;?.' 1 ',)*' : *D% 620' 21,' 8 ,)',)1.*' 1 ' ,)*' *=,%' 8)>)' 81;/0' D*' *L=/6 2*0' D ',)*' ,/ *1- ' 1 ' 62' 606=,6, 12' 1 '12*' 1 ',)*.*' ,81',1',)*' 1,)*-'6/,)1;5)' ,' 81;/0' 21,' 5 +*' ;'-*6.12' 1-' .;==11. 25' * ,)*-' 1-?' ,1' D*' ,)*' *6-/ *-% ()*' 5*2*-6/=-*.;?=, 12' 12' *L,*-^ 26/ 5-1;20.' 81;/0' >*-,6 2/ ' D*' 2' +1-' 1 ' ,)*' : *D% D1,)' 6.' D* 25' ;2_;*., 126D/ ',)*' 1- 5 26/ -1?' 8)>)' ,)*' 1,)*-.' M*L>*=,' =*-)6=.' ,)*' 6?6-% 8)>)' .25^ /6-/ *'21;5)' .',)*' /*6.,' =-1D6D/*' 12' 1,)*-'>12. 0*-^ 6, 12. ' 1 '6//X' 6-*' 92182',1')6+*' D**2',-62./6,*0 ' 620' 6' +*-. 12' >62' 2*+*-' - .*') 5)*-' 2' 6;,)1- , ',)62' ,.' .1;>*' 620' 6/.1' D*>6;.*' 1 ',)*' ?62 *../ ' 5-*6,*-' .,6,*' 1 '=;- , ' 2' 8)>)',) .',*L,')6.' D**2',-62.? ,,*0' ,1' ;. ' 2' >1?=6- .12' 8 ,)' *,)*-' 1 ',)*' 1,)*-.% *' / $ 9 <% (% '= (% ;>:% ()*',*L,' 1 '81.*=);.' .',11' >1--;=,' 2' ,,' 2;?D*-.',1' D*' 6,'6//-*/ *0';=12' 6.' ?6 'D*' .**2' -1?',)*' ./ 5),*.,'>1?=6-^ .12' 1 ',)*' .;?.' 2',)*', ,/*' 1 ',)*' >)6=,*-.' 8 ,)',)*' 0*^ ,6 /*0' >12,*2,.')6+ 25' 01;D,/*..' D**2',6?=*-*0' 8 ,)' D '-*60*-.' 8)1' ;.*0' 12/ ',)*' *=,' 1-' ;/5%+*-. 12.% ' ()*-*' >62' D*' 21' _;*., 12' ,)6,',)*' 6;,)1-' 1-' /6.,' -*06>,1-' 1 ',)*' D119' 1 ' 4*2*. .' 2,*20*0',)6,',)*' 26-C (6, +*' .)1;/0' D*' >122*>,*0%DA?,) .' >12, 2;1;.' .*-*.' 1 ', ?*C?6-9.% B*8 .)' 620')- ., 62' >)-1215-6=)*-.' 6>>*=,*0',)*' ..,6,*?*2,.' ;2_;*., 12*0' 620',)*/0',)6,' ,)*' .*-*.' 1 ' *6-.' 1 ',)*' 81-/0',);.' 1-?*0' -1?',)*' >-*6, 12' 1 ',)*' -.,' ?62',1',)*' 0*6,)' 1 ' B1.*=)' 6>^ >1-0*0' 8 ,)',)*' ,-;,)' 1 ' 6>,.% ()*' ?=1-,' 620',)*' 6;,)1- , ' 1 ',)*' 2;?*- >6/ .,6,*?*2,.' 8*-*' ,1',)*?' ; ? ?=*6>)6D/*1',)*' 12/ ' _;*., 12' 86.',)6,' 8)>)' -*^ /6,*0',1' ,)*' -' 5*2; 2*' 1-?% 20' .;==1. 25',)*' 2^ _;-*-',1')6+*' 0*> 0*0' 2' 6+1-' 1 ',)*' 4-**9',*L,' *+*2' .1',)*-*' 6-*' 0 +*-. , *.' ,1' D*' 0 .>;..*0' 1-' ,)*' *=,')6.' +6- 1;.' -*60 25.' 1 ' .1?*' 1 ',)*' 2;?D*-.' D1,)' D*^ 1-*' 620' 6 ,*-',)*' /1101' 2' =6-,>;/6-' 8)/*' ?1.,' 1 ' ,)*' >1= *.')6+*' 6' .*>120' 6 262' 6 ,*-' -=)6L60' 8 ,)' 6' 0*.>*2,' 1 ' N ' *6-.' ,) .' 600, 12' .' 521-*0' D '1.,)^ *-' >1= *.' 620' D ' ?=1-,62,' 6;,)1- , *.' M..*' -182*' , '$ ' g N '620' 21,*1' < //' , ' " ' ' ' ' ' " ' $ 1'=% N' ._%X% ()*.*' >12. 0^ *-6, 12.' 8 // 6>>1;2,' 1-' c)1' *21-?1;.' 0 .>-*=62>' 1 '*+-?) ' % 8)>)' 6==*6-.' 2' ,)*' *., ?6,*.' 1-?*0' D ' 0 *-*2,' >)-121/15 .,.' 1 ',)*' 2;?D*-' 1 'A 7*6-.' >12,6 2*0' 2' ,)*' D119' 1 ' 4*2*. .' ()*' : *D-*8' 2;?D*-.' -1?' 06?' ,1' (*-6) .' ,)' *6-' ?69*' 4 S% 'KRK' *6-.' ,)*' *=,%' 8 ,)' ,.' +6- 1;.' -*60 25. ' KK K' 1-' 11I$1% ' R K' 1-' K' 1-' K' 1-' K' ,)*' 6?6-,62' N '% 'R K 1-*' ,)*' /110' 620' 622*L 25' ,' ,1' ,)*' 65*.' D*/18' ,)6, () .' /6., ')18*+*-'2**0' 21,' >1?*' 2,1' >12. 0*-6, 12' . 2>*' ,' .' 8*//' ;20*-.,110' ,)6,',)*' 6?6-,62',*L,')*-*' 6.' */.*8)*-*' .' ?*-*/' 6D- >6,*0' -1?',)*' 4-**9' M: *25.,*2D*-5'& "!' ' ' NK' ._%X' 620',)1.*' 8)1',-*6,' ,'6.' 62' 20*=*20*2,'6;,)1- , 'M*75% *=. ;. ' " ' 'D6 !'=% NR' ._%X' 12/ ' .)18',)*?.*/+*.' 5^ 21-62,'1 ',)*' -*. ;/,.' 1 '>-, > .?' 12',) .' .;D A*>,% ' >1;-.*',)*' *=,%' 2' 12** 1-' ?1-*' 1 ',.' *2;?*-6, 12. ' 81;/0' D*' 1//18*0' D ',)1.*' *6-/ ' 2_;-*-.' 8)1')60' 6>>*.',1',)6,',*L,'12/ ' .)*' *6-/ *.,' *L,62,'*.,?6,*' D ' *?*,-;.' 62' /*L620-2*' B*8' 1 ',)*' ,) -0' >*2^ ,;-' % %M_;1,*0' -1?' /*L620*-' 1/) .,1-' D ' ;^ .*D ;.' ;%' 6 !' L' K KX' ?69*.',)*' 2,*-+6/ -1?' 06?',1',)*' D -,)' 1' D-6)6?' KKSK% ' K% B1.*=);.' >*-,6 2/ '0 0'21,' 1//18',)*' *=,C% .' 2;?^ D*-.' 2',)*' 5*2*-6, 12.' D* 1-*' 620' 6 ,*-',)*' /110')6+*' D**2' 1->*0' 2,1' >12 1-?, '8 ,)',)*' 4-**9' D '6' /6,*-' 620' ;2.9 / ;/)620' 8)>)' D*,-6 .' ,.*' D '/*6+ 25' ,' 81-9' 2>1?=/*,*' M -182*' ,1 '$!' g N RCNK X% /' ,)*' >)-121/15 ' 1 ' -% : 6/*7' M8)>)' .1?*' ,, // 6>>*=,' 6.' 6;,)1-,6, +*X' =-1 *..*.' ,1' D1' D6.*0' 12' ,)*' *=,%' -*>, *0' D ',)*' 6 0' 1 'B1.*=);.' ,' %1;5),' 1' D*' 9218 2' ,)6,',)*' ,*L,' 1 ',) .' 6;,)1-' D*. 0*.')6+ 25' D**2' =6/^ =6D/ ' + , 6,*0' 2',) .' =1-, 12' 1 ' ,' N' ' S' X' .86-?.' 8 ,)' 5-1..' 2>12. .,*2> *.' >6;.*0 ' ,' 81;/0' .**?' D ') .' 601=, 25' 8 ,)1;,' -* *>, 12' .,6,*?*2.,' D*/125 25',1' 0 *-*2,' >)-121/15 >6/ . .,*?.' M.**' *^ D;)-' ? " " '& ' !' ; '=% N ' ._%X% ',)*')- ., 62' 8 -,*-.' 1 ',)*' -.,' ,)-**' >*2,;-*.' -7A*2' 6/12*' 92*8' : *D-*8' 620')*)' D*-.' ,' /*6+*.',)*' *=,%' D;,' 12/ ' 2' =6-,' B*-1?*' ,)*' /*6-2*0' : *D-6 .,' 0*>/6-*.' 1-' 7.,)*' : *D-*8' +*- , J' 620' 6.I) .' -*>*2. 12' 1 ',)*' 1/0' ,6/ >' +*-. 12' 1-?.' ,)*' D6. .' 1 ',)*' L, 2*' ;/^ 56,*' 8)>)' 6' >6212' 1 ' (-*2,' 0*>/6-*.';20*-' 626,)*^ ?6',1' D*' >6212 >6/ 620' 2 6// D/*',)*' : *D-*8' >)-1^ 21/15 ' .' + -,;6// ' =*-=*,;6,*0' 2',)*' >);->)*.' 1 ',)*' 1?62' 1D*0 *2>*% ()*' 4-**9');->)' ., //)1/0.' D ',)*' *=,% ;-' 182' =1=;/6-' D/*' >)-121/15 ' M$.)^ *-.' 8)>)' .)1=' /1 0' 6,,6>)*0',1',)*' ?6-5 2' 1 ' 1;-' D/*.X' 1//18.',)*' : *D-*8% ;-25',)*' /6.,'>*2^ ,;-' ',)*-*')6.' D**2' 6' 0 .=1. , 12' 2' .1?*' 1 '1;-' 182' 620' ,)*' 12, 2*2,6/' 8-,*-.',1' 6D62012',)*' : *D-*8' 1-',)*' *=,%' >) * / ' =-1?=,*D' ,)*' 8 .)' ,1' *2/6-5*' ,)*' =*-10' D* 1-*' D-6)6?' .1' 6.',1' 6//18' ?1-*' , ?*' 1-',)*' 5-18,)' 1 '26, 12.' 6 ,*-',)*' /110' 620' M?1-*' -*>*2,/ X',1' 6>/,6,*',)*' >122*>, 12' 1' .6>-*0' 620' =-1 62*' >)-121/15 J' 2',)*' *6-/ *.,' 65*.' 1 ' ?629 20' *.=*>6// ' 8 ,)' -*.=*>,' ,1' <62*,)1.' 5 =, 62' >)-1^ 21/15 % ()*' _;*., 12' 1 '=-1D6D / , '620' 20;>*?*2, ' ',1' *2/6-5*' 12' ,)*' =6-,'1 ',)*' /*L620-2*' B*8.' M>1?=% ;2.*2' 1 '$!'+' SQX',1' >12,-6>,' 12',)*' =6-,' 1 ',)*' <6.1-*,*. ' .' 0.>;..*0' 2' -182*.' , ' $ ' g N Q' ._%' 620',)*' 6-, >6/ =-1>*..*.' D ' 8)>)' ,)*' *=.*' 2;?D*-.' 6-*' 1-?*0' -1?',)*' *-*8' 620' 21,' ' ')6+S' D**2' *L=1.*0' D ',)*' .6?*' 8-,*-' !' g' N N' ._%' 620' ;-,)*-' 2' -" ' ' '6 % ' " ' g K' M -21/0.' -" ' ' ' ' ' .%X% ()*' ;206?*2,6/' ?=1-,62>*' 1 ',)*' .;D A*>,' 2' D/>6/ >)-121/15 '-*_; -*.' 6' ?1-*' 15'6>,' 620' 0*,6 /*0' *L6?^ 26, 12',)62' 8*' 20' 2',)*' >, 126-*.' 1 ' ? ,)' 620' ,,1' -1?' 8)>)' ,)*' =-*>*0 25' 2+*., 56, 12.' 6-*' >) * / ',69*2' 6.' 6-*' 6/.1' =1-, 12.' 1 '.;D.*_;*2,' 0 .^ >;..12.' 2',) .' 6-, >/*%

=1 2,†' 8) /*' ,)*' *=, ' M620' B1.*=) ; .X' 6,,6 2' 6' . ? /6-' 6->' ,)*' *6-.' 1 '*6>)' 1 ' ,)*' 1,)*-.' ,1,6// ' ; 2. ; ==1-,*0' ; 2 .' ,' D ' 600 25' 12*') ; 20-*0' *6-.' ,1' ,)*' 0* ^ D ' 12*' 621,)*-.' 7 * - *' ,)* ' 0 *.' -1 ?' ,) . ' ; 20*-' > *2,' 2 ; ? D*-.' ,) -1 ; 5) 1 ; ,† 8) *-*6.' ,)*' : *D⁋*L) D ,.' D1,)' ,)*.*' 26 ?*. ' 620' 6/.1' *?D6--6..*0' D ' +6- 1 ; .' 21' . ; >)' ?6-9.' 1 '5-606, 12 ' D ; ,' =-*.*2, ,' 6' 26, ; -6/' -^ -*60 25.' 1 '6' 5/6- 25' >)6-6>,*-' D ; ,' 6' >1?=6- .12' 1 ' -*5 ; /6- , ' 2' ,) .' -*.=*>, ' 6/,)1 ; 5)' ,)*' 2 ; ? D*-. ' 12' ,)*' 8)1/*' 0*>-*6.*' 6.' ,)*' =*- 10' 1 ' /125*+ , ' >12^ ,)6, ,)*' 0*?>-*6.*' 6.' ,)*' =*- 10' 1 ' /125*+ , ' >12^ ,-6>, .'† 8) /*' 12',)*' 1,)*-')620 ' '* ,)*-' 1 ' ,)*' 1,)*-' ,-6>, .'† 8) /*' 12',)*' 1,)*-')620 ' '* ,)*-' 1 ' ,)*' 1,)*-' / . ,.' D*' 6. . ; ? *0' 6.' ,)*' =-1,1, =*' 21' =1.. D/*' -*6.12' / . ,.' D*' 6.. ; ? *0' 6.' ,)*' =-1,1, =*' 21' =1.. D/*' -*6.12' >62' D*' 6.. 52*0' 1-' ?65 2*0' 1-' ,)*' 6-D ,-6- ' *2/6-5*^ >62' D*' 6.. 52*0' 1-' ?65 2*0' 1-' ,)*' 6-D ,-6- ' *2/6-5*^ ? *2,' 1-' 0 ? 2 ; . 12')*-*' 620' ,)*-*' 1 ' 6' =6-. >/6-' ? *2,' 1-' 0 ? 2 ; . 12')*-*' 620' ,)*-*' 1 ' 6' =6-. >/6-' 2 ; ? D*-⁋ ( )*' D- * *-' .>)*?*' 1 ',)*' : *D⁋=1. ,C0 / ; + ^ 62' 5*2*6/15 ' .' 6/.1' *L6>,/ ' . ; .,6 2*0' D ' ,)*' . ; ?' NS ' M⁋*⁋,)*' D -,)' 1 ' D-6 ?' KRK' *6-.' -1 ?' ,)*' */ ; 5*m ' *6-.' ,)' 1) .' 0*=6-, ; -*' -1 ?' : 6-62X' 0* 2 ,*/ ' 5 +*2' D ' B1.*=) ; . ' 2' 1==1. , 12',1') .' 182' ?652 *0' 2 ; ? ^ D*-.' 2' 0*,6 / '6/,)1 ; 5)' ,)*' 8* 5),' 1 ',) .' 6-5 ; ? *2,' . ' 6 *>,*0' D ',)*' *L .,*2>*' S ' +6- 1 ; .' -*60 25.' 1 ',)6, ' 3'655-*56,*' 2') .',*L,⁋ & *' ? ; .,' 21,' 1 ? ,',1' 1D.*-+*' ,)6, ',)1.*' 8)1' *.=1 ; .*' ,)*' .>)*0 ; /*' ,-62. ? ,,*0' D ' ,)*' *=,' 620' B1.*=) ; . ' 6.' 6 1-0 25' ,)*' /125*-' .=6>*' D*,8**2',)*' -*6, 12' 620',)*' */ ; 5*' 1-',)*' L,*2. +*' =-1=656, 12' 1 ',)*' 62,*0 / ; + 62' -6>*' 620' 6/.1' 6 ,*-' ,)*' /110' 1-',)*' 0 . .*? 26, 12' 1 ' ? 629 20' 2,1' =18^ *- ; /' 26, 12.' 2' ,)*' *6-/ *.' , ?*.')*-* 2' 12/ ' 0* *6,' ,)* -' 182' 6-5 ; ? *2,† 1-' ,' .' 1D+ 1 ; .' ,) 6, ' .1' /125' 6.' ,)*' *2,-*' /25,)' 1 ' *6>)' =6,- 6->) ./ ' *' -*? 6 2.' ; 2^ >)625*0' D ' 8)6,*+*-' 6?1 ; 2,' ,)*' =*- 10' =- 1-',1' ?6-^ - 65*' .' 6 ; 5 ? *2,*0' A ; .,' .1' ? ;>)', ?*' .' ,69*2' -1?' ,)*' -*?6 20*-' 1-' =-1>-*6, 12⁋ ,)*' *6-/ *-' ,)*' 65*' 1 ' =6,*-2 , ' ,)*' 5-*6,*-' 8 // 26, ; -6// ' D*' ,)*' 2>-*6.*' 1 ' =1= ; /6, 12' 2' 6' 5 +*2' 2 ; ? D*-' 1 ' 5*2*-6, 12.7' ( )*' -6= 0' 60+62>*' 2' 601/*.>*2>*' 6 ,.*-' ,)*' */ ; 5*' .1' ?6-9*0' 2' ,)*' : *D⁋2 ; ? D*-. ' 86.' 01 ; D,/*..' =-1+ 0*2^ , 6/ 1.' ,)*' =; -=1.*' 1 '-*=/*2 .) 25',)*' *6-,)' 6.' .=**0^ / ' 6.' =1.. D/*' 6 ,*-' ,)6, ' >6,6. ,-1=)*

MB⅋X' ' ' % f' ' ' 2' 600 , 12',1',)*' =1. ,C0 / ; + 62' 6 262' 21, >*0' 6D1+*' ,)*' 1//18 25' 26?*?%6=**6-',1' ; -2 .)' 0*> 0*0' =-11 ' 1 ',)*' .; *- 1-' ,-; . , 81-,) 2*..' 1 ',)*' : *D⁋/ .',M.**' ,)*' >12>/ ; . +*' ,-*6, .*' 1 ' < >)6*/ . ' 12' ,) .' . ; DA*>, ' ,-62 ./6, *0' 2' ,)*' & ! ' ; f' 5 % !!' KO' .*-⅋' + ' ' ._⅋†' 6/.1' .1?*' A ; 0 ^ > 1 ; .'-*?6 9.' D ' -⁋ 120' 2' ,)*' "!' f' 5 ' B ; / ' QS X

\ ⅋' 2',)*' >6.*.' 1 ' 06?' 620' *,)' ,)*' 600 , 12' 1 ' *6-.',1',)* -' 65*' D* 1-*' =6,*-2 , ' 0 .,; -D.' ,)*' 6+^ *-65*' -6, 1' D*,8**2',)*' .*6.12' 1 '5-18,)' 620',)*' ,1,6/ / *' 8) >)' 2' ?62' 6.' 2' 1,)*-' 62 ?6/. ' .' 6' 8*//C*.,6D^ / .)*0' =-1=1-, 12⁋ ( )*.*' ,81' =6,- 6->) .' =6..*0' 2*6-/ ' 12*' _ ; 6-,*-' 1 ' ,)* -' / +*.' >) /0/*.. ' 6/,)1 ; 5)' ,)* -' ? ? *0 6,*' .; >>*..1-.' 8*-*' D/*..*0' 8 ,)' 1 .=- 25' 8)*2' ,)* ')60' 60+62>*0' D ; ,' 6D1 ; ,' 12*' ,*2,)' ,1' 12*' ,8*/ ,)' 2' / *⁋ &76.' ,)*' >1? ?620' ,1' 2>-*6.*' 620' ? ; /, =/ ' 620' //,)*' *6-,)J' .1' ? ;>)' /*..' ; -5*2,' 2' ,)*' -.,' >*2^ , ; - *.' 1 ',)*' 81-/0' ,)62' .; D.*_ ; *2,/ 'H 2',)*' 2 ; ?^ D*-.' 6.. 52*0' ,1' ,)*' -..' ,81' 5*2*-6, 12. ' ?1-*1+*-' ,)*' +6- 1 ; .' -*60 25.' 1 ; 20' 2' ,)*' ,*L,' 1 ' B1.*=) ; . ' 2*6-/ '0*.,-1A' ,)*' .; ==1-,' 8) >)' ,'5 +*.',1' ,)*' *=,⅋' /*6+ 25' ,)*' D6/62>*' 1 '*+ 0*2>*' 0*> 0*0/ ' 2' 6+1-' 1 ' ,)*' ,6// 25' 2 ; ? D*-.' 2' ,)*' : *D⁋620' 6?6-⅋T 620' 2' ,)*' 2*L,' ,)-*-*' 5*2*-6, 12.' ,)*-*' .' 6,' /*6.,' 62' *_ ; ^ =1 .*D*,8**2',)*' 6 ; ,)1-, *.' 8) >)' 6-*' 6--6 *0' 2',)*' .6?*' ?622*-⅋

\K⅋h' ( )*' : *D⁋2 ; ? D*-.' 2' ,)*' >6.*' 1 'B6-*0' 6-*' .; .^ ,6 2*0' D ' 6// ,)*' 1,)*-' / .,.' *L>*=,',)*' 6?6-⅋08) >)' 21,' 12/ ' 0*0 ; >,.' ,)*' >*2, ; - ' -1?') .' ? 21-, ') ; ' ' 6/.1' 6-D ,-6- /A7>; -,6 /.') .' .; D.*_ ; *2,'AC7*6-.' D ' 6' 0 ^ *-*2,' 6?1 ; 2,' MK ' *6-.X' *+ 0*2,/ ' 2' 1-0*-' ,1' 1->*' A,)*' /6,,*-' / .' >12 1-? 25' 2' ,) .' -*⅋?=*>, ' .' ,*' >/1.*/ ' ,)*' ,1,6/ / *' 2,1' >12 1-? , ' 8 ,)' ,)*' =/62' 1 '5-60 ; 6/⁋ ,1' ,)*' : *D⁋' 8*' , ; -2' ,1' ,)*' *+ 0*2>*' 1 ' 62> *2, ' -*0 ; >, 12' D*/18' ,)*' /*25,)' 1 ' ,)*' =-*>*0 25' 5*2*-6C' ,*>_-0.' 620',-60 , 12 ' <*' 20' ,)*' 2 ; ? D*-.' 1 ',)*' *=,' , 12⁋ 2' ,)*' 2*L,' 26?*' ,)6,' 1 ' 21>)' ,)*' : *D⁋620' *>12 -?*0' -6,)*-' ,)62' ,)1.*' 1 ',)*' : */P⁋ ( )*') .,1- /7' 6?6-' 656 2' 6==*6-' 2' ;2 .12' 656 2.' ,)*' *=,' 620' 0 > + / [6, 12' 1 ' 5 =,' 6.' 8*// 6.' 1 ' 620' B1.*=) ; . ' ,)*' ,*.. ,?12 ' 1 ',)*' /6.,' D* 25' ?=6 -*0' D ' 6D /12 6 ' -*6>)' ,1' 6' , ?*' 6D1 ; ,' 6.' *6-/ ' 6.' ,)*' : 7D⁋ ,)*' >1--;=,' .,6,*' 1 ') .' 2 ; ? D*-.' 6',)' .' =1 2,⅋ 06,*' 1 ',)*' /110⁋ <1-*1+*-' ,)*' >12>; --*2,'*+ 0*2>*' 1 '62, _ ; , ' >6-- *.' ,)*' 1- 5 2' 1 ' 4*2, /*' > + / [6, 12' \N⅋A' ( )*' 2 ; ? D*-.' 5 +*2' ; 20*-' <*,) ; .*/6)' 620' 6C' ,1',)*' 16>) 62'-6>*.⁋ 8*// 6.' 1 ' 1 ' ,)*' : *D⁋2 ; ? D*-.' 8*' ? ; .,' =/6>*' M6.' 8*' *6. / ' ?6 X' ?*>)') 18*+*-' ?1.,' 0*> . +*/ ' D*,-6 ' 6>>1-0 25',1' ,)*' .*,,/*0' /68.' 1 ' 2,*-26/' >- , > .? ' ?6-9.' 1 ' 2,*2^ ,)*' 0 .=*-. 12' 1 '26, 12.' \.**' > ' ⁋ ; ' +*-A!' .112 , 126/' >1--;=, 12' 2' 6//' D ; ,' ,)*' : *D⁋/ . ,⁋ 1,' 12/ ,)*' 0 ..=*> 6/7 =; -=1.*' D*,8***2' 2..62>*.' 1 ' 5-*6,*-' /125*+ , ' ? ?*0 6,*/ ' D* 1-*' M*L>/ ; 0 25' 21>)' 8)1' 86.' ,-62./6,*0' 6/ +*X' 620' 6 ,=-⅋ ( )*' : *D⁋/ 7,'>62' 6/12*' D*' 0* *20*0' 6,' ,) .' =1 2,' D2' >- , >6/' 5-1 ; 20. ' J

\ ⅋h' ( )*' 5*2*-6/' 65-**?*2,' 2' 5-*6,*-' 65*' 6.. 52*0' ,1'7)*' =1. ,C0 / ; + 62' =6,- 6->) .'D ',)*' 6?6-' 620' 4-**9' / .,.' .' 21,' ?1-*' 0 >; /,' ,1' *L=/6 2' ,1' ,)*' 60+62,65*' 1 ',)*' : *D⁋ ',)*' 1-?*-' D*' ,)*' 1-5 26/ 1-?' 21' -*6.12' >62' D1' 6.. 52*0' 1-' ,)*' >)625*†' D ; ,' ',)*' /6,^ ,*-' D*' 6.. ; ?*0' 6.' 5 + 25' ,)*' 5*2 ; 2*' 2 ; ? D*-.' ,' ,' *6.E',1' =*->* +*')18' -*60 / ',)* ' ?6 ')6+*' D**2' 6 ; 5^ ?*2,*0' 2' 1-0*-',1' .8*// ,)*' =- ? , +*' 6*-6' 1 ' -*=1=; ^ /6, 12' 6 ,*-' ,)*' /110' 2,1' 6' 2*6-*-' >12 1-? , ' 8 ,)' ,)*' *L,-6+6562, ' ? ,) >6/ =*- 10.' 1 ' *6-/ ')*6,)*2') .,1- *. ' & ,)' ,)*' 5 =, 62.' 6?125' 8)1?' ,)*' *=, ' .' 92182' ,1')6+*' 1- 5 26,*0' ,)*' 2 / ; *2>*' 1 ' 8) >)' ?6 '=/6 2/ ')*' ,-6>*0' 2' ,)*' =-*.*2, ' 6>>1 ; 2, ' 1 ' B1.*=) ; .' M620' =1.. D/ ' ,)-1 ; 5)' .1?*' 20 -*>, ' >)62^ 2*/ ' ,)6, ' 1 ',)*' 6?6-' 6/.1X' ,) .',*?=,6, 12' 81 ; /0' D*' =*>; /6-/ ' .,-125⁋ ( )*' 2,*-26/' *+ 0*2>*' *-1')18^ *+*-' ' ? ; .')*' >12 *..*0' .' -6,)*-' 2' 6+1-' 1 ',)*' 6?6-' 2 ; ? D*-.' >1--1D1-6,*0' 6.',)*E76-*>' ,)-1 ; 5)1 ; ,' 6.',1' ,) ' 65*' 1 ' =6,*-2 , ' D ' ,)1.*' 1 ',)*' *=, ' 620' ⅋D ; ,' /*..' 6>>; -6,*/ X' B1.*=) ; .' 620' 8*' ? 5),' *+*2' D*' 2>/ 2*0' ,1' 601=, ' ,)*?' 6.' >12. ..*2, ' 2' 5-606, 12' 8 ,)' ,)1.*' =-* *--*0' 2' ,)*' 62,*0 / ; + 62' =1-, 12' 0 0' 21', ,)*' ?62 *.' , 862, 1 '6 ; ,)1-, ' 2' ,)*' 212C : *D-*8' .>)*?*.' 1-' ,)6, ' =6-, '>6..' 6' ..-125' 01 ; D, ' 1 '6>>; -6> ' 1+*-' ,)*?' 2' ,) .' =6-, ' / 9*8 .*⁋ ( ) .' ..; .= > 12' .' >12 -?*0' D ' ,)*' 862, 1 ')6-?12 ' D*,8**2',)*' 6?6-' 620' *=, ' 6.' ,1' ,)*' =1.,C0 / ; + 62' 65*.' 6 ,*-' =6,*-2 , ' ,)*' 6?6-' 656 2' 6==*6-' 2' ;2 .12' 656 2.' ,)*' *=,' 620' B1.*=) ; . ' ,)*' ,*.. ,?12 ' 1 ',)*' /6.,' D* 25' ?=6 -*0' D ' ,)*' >1--;=,' .,6,*' 1 ') .' 2 ; ? D*-.' 6',)' .' =1 2,⅋ \N⅋A' ( )*' 2 ; ? D*-.' 5 +*2' ; 20*-' <*,) ; .*/6)' 620' 6C' ?*>)') 18*+*-' ?1.,' 0*> . +*/ ' D*,-6 ' 6>>1-0 25',1' ,)*' .*,,/*0' /68.' 1 ' 2,*-26/' >- , > .? ' ?6-9.' 1 ' 2,*2^ , 126/' >1--;=, 12' 2' 6//' D ; ,' ,)*' : *D⁋/ . ,⁋ 1,' 12/ ,)*' 0 ..=*> 6/7 =; -=1.*' D*,8***2' 2..62>*.' 1 ' 5-*6,*-' /125*+ , ' ? ?*0 6,*/ ' D* 1-*' M*L>/ ; 0 25' 21>)' 8)1' 86.' ,-62./6,*0' 6/ +*X' 620' 6 ,=-⅋ ( )*' : *D⁋/ 7,'>62' 6/12*' D*' 0* *20*0' 6,' ,) .' =1 2,' D2' >- , >6/' 5-1 ; 20. ' J

\ ⅋h' ( )*' 5*2*-6/' 65-**?*2,' 2' 5-*6,*-' 65*' 6.. 52*0' ,1'7)*' =1. ,C0 / ; + 62' =6,- 6->) .'D ',)*' 6?6-' 620' 4-**9' / .,.' .' 21,' ?1-*' 0 >; /,' ,1' *L=/6 2' ,1' ,)*' 60+62,65*' 1 ',)*' : *D⁋ ',)*' 1-?*-' D*' ,)*' 1-5 26/ 1-?' 21' -*6.12' >62' D1' 6.. 52*0' 1-' ,)*' >)625*†' D ; ,' ',)*' /6,^ ,*-' D*' 6.. ; ?*0' 6.' 5 + 25' ,)*' 5*2 ; 2*' 2 ; ? D*-.' ,' ,' *6.E',1' =*->* +*')18' -*60 / ',)* ' ?6 ')6+*' D**2' 6 ; 5^ ?*2,*0' 2' 1-0*-',1' .8*// ,)*' =- ? , +*' 6*-6' 1 ' -*=1=; ^ /6, 12' 6 ,*-' ,)*' /110' 2,1' 6' 2*6-*-' >12 1-? , ' 8 ,)' ,)*' *L,-6+6562, ' ? ,) >6/ =*- 10.' 1 ' *6-/ ')*6,)*2') .,1- *. ' & ,)' ,)*' 5 =, 62.' 6?125' 8)1?' ,)*' *=, ' .' 92182' ,1')6+*' 1- 5 26,*0' ,)*' 2 / ; *2>*' 1 ' 8) >)' ?6 '=/6 2/ ')*' ,-6>*0' 2' ,)*' =-*.*2, ' 6>>1 ; 2, ' 1 ' B1.*=) ; .' M620' =1.. D/ ' ,)-1 ; 5)' .1?*' 20 -*>, ' >)62^ 2*/ ' ,)6, ' 1 ',)*' 6?6-' 6/.1X' ,) .',*?=,6, 12' 81 ; /0' D*' =*>; /6-/ ' .,-125⁋ ( )*' 2,*-26/' *+ 0*2>*' *-1')18^ *+*-' ' ? ; .')*' >12 *..*0' .' -6,)*-' 2' 6+1-' 1 ',)*' 6?6-' 2 ; ? D*-.' >1--1D1-6,*0' 6.',)*E76-*>' ,)-1 ; 5)1 ; ,' 6.',1' ,) ' 65*' 1 ' =6,*-2 , ' D ' ,)1.*' 1 ',)*' *=, ' 620' ⅋D ; ,' /*..' 6>>; -6,*/ X' B1.*=) ; .' 620' 8*' ? 5),' *+*2' D*' 2>/ 2*0' ,1' 601=, ' ,)*?' 6.' >12. ..*2, ' 2' 5-606, 12' 8 ,)' ,)1.*' =-* *--*0' 2' ,)*' 62,*0 / ; + 62' =1-, 12' 0 0' 21', ,)*' ?62 *.' , 862, 1 '6 ; ,)1-, ' 2' ,)*' 212C : *D-*8' .>)*?*.' 1-' ,)6, ' =6-, '>6..' 6' ..-125' 01 ; D, ' 1 '6>>; -6> ' 1+*-' ,)*?' 2' ,) .' =6-, ' / 9*8 .*⁋ ( ) .' ..; .= > 12' .' >12 -?*0' D ' ,)*' 862, 1 ')6-?12 ' D*,8**2',)*' 6?6-' 620' *=, ' 6.' ,1' ,)*' =1.,C0 / ; + 62' 65*.' 6 ,*-' =6,*-2 , ' ,)*' 6?6-' 656 2' 6==*6-' 2' ;2 .12' 656 2.' ,)*' *=,' 620' B1.*=) ; . ' ,)*' ,*.. ,?12 ' 1 ',)*' /6.,' D* 25' ?=6 -*0' D ' ,)*' >1--;=,' .,6,*' 1 ') .' 2 ; ? D*-.' 6',)' .' =1 2,⅋ \N⅋A' ( )*' 2 ; ? D*-.' 5 +*2' ; 20*-' <*,) ; .*/6)' 620' 6C' ?*>)') 18*+*-' ?1.,' 0*> . +*/ ' D*,-6 ' 6>>1-0 25',1' ,)*' .*,,/*0' /68.' 1 ' 2,*-26/' >- , > .? ' ?6-9.' 1 ' 2,*2^ , 126/' >1--;=, 12' 2' 6//' D ; ,' ,)*' : *D⁋/ . ,⁋ 1,' 12/ ,)*' 0 ..=*> 6/7 =; -=1.*' D*,8***2' 2..62>*.' 1 ' 5-*6,*-' /125*+ , ' ? ?*0 6,*/ ' D* 1-*' M*L>/ ; 0 25' 21>)' 8)1' 86.' ,-62./6,*0' 6/ +*X' 620' 6 ,=-⅋ ( )*' : *D⁋/ 7,'>62' 6/12*' D*' 0* *20*0' 6,' ,) .' =1 2,' D2' >- , >6/' 5-1 ; 20. ' J

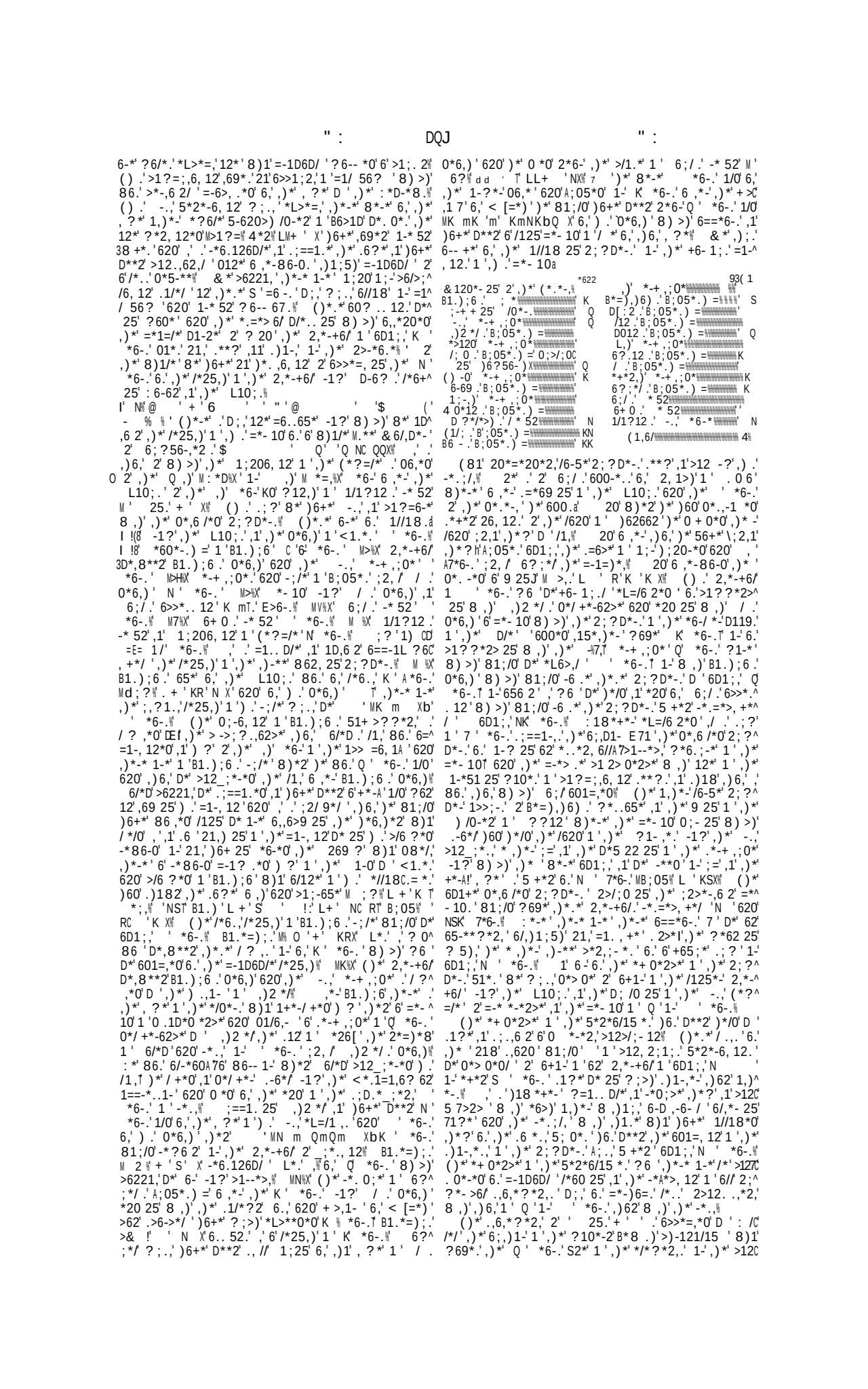
6 ,*-' ,)*' */;5*% ?=1-,62,' 6 0' 2' ,) .' 6==-1L ?6^ , 12' 1 ' .6>-*0' 8 ,)' =-1 62*' >)-12 /15 ' .' 6 1-0*0' D ' ,)*' >12. 0*-6D/*' *L,*2. 12' 1 ',)*' D/ >6/' =*- 10' 1 ',)*' B;05*. ' 21, >*0' D*/18 ' D* 120' ,) 6,' L*0' D ' $.)*-%
MN%X' 2' ?=1-,62,' -*>, >6, 12' 1 ',)*' /6..' 5*2*-6^ , 12' .' -* _ ; -*0' 2' 6// ,)*' / . .,% >>1-0 25' ,1' ,)*? ' ,' 81;0' 6==*6-' ,) 6,' (*-6)' 86.' ' *6-.' 1/0' 6,' D-6? .' D -,)% ' (*-6)' / +*0' .*+*2, ' *6-. '620' D*56,' D-6? ' 6)1-' 620' : 6-62J M4*2% L ' KM X% ;' .' 6 ,*-86-0.' .6 0',) 6,' (1-6)' 8*2,' -1?' $ -' 1 ',)*')6/0**.' ,1' : 6^ -62' 620' 0 *0' ,)*-*' 6,' ,)*' 65*' 1 ' K ' *6-.' \ 6?6-% H' ML ' N ' NKX1' 620' ,)*' 0*=6-.;-*' 1 ' D-6?' -1?' : 6-62',1' 62662' .' ,)*2' 26--6,*0' M>1?=% >,.' + ' X') .' 65*' D* 25' ..6,*0' ,1')6+*' D**2' 6,' ,)6,' , ?*' ' *6-.' ML ' ' X% $.)*-',)*-* 1-*' >12A*>,;-*.' ,)6,' (>C -6)' 86.' N ' *6-.'1/0' 6,' D-6? .'D -,)' MK ' b N X' 620' ;==1.*.' ,)*' /6,,*-' 21,' ,1')6+*' D**2' ,)*' */0*.,' .12' D;' ?*2, 12*0' -.,' 12' 6>>1;2,' 1') .' *? 2*2>*' 6.' .')*?' 2' .*+*-6/=/6>*.' M+' NKT' + ' T' + ' NT' L' Q' d X' 8)1' *,' 6==*6-.',1')6+*' D**2',)*' ,) -0' .12' 1' 16)' 620'>*-,6 2/ '21,',)*' 1/0*.,' ML ' K X% (1',/ .' ,' 6.' D**2' 1DA*>,*0')18*+*-',)6,' ,' .**?.' .>6->*/' =-1D6D/*' ,)6,' D-6?')60' D**2' D1?',1') .' 6,)*-' 6,' ,)*' 65*' 1 ' N ' *6-.')*' .)1;/0')6+*' 6.9*0' 2' 8120*-)6// \6' >) /Oh' D*' D1-2' ;2,1') ?',)6,' .' 6');20-*0' *6-.' 1/0' H 620' .)6// 6-6) ',)6,' .' 2 2*, ' *6-.' 1/0' D*6-' HJ' M4*2% L+ ' X% ;',)*' 1->*' 1 ',) .' 1DA*>^ , 12' .' 6/?1.,' *2, -*/ '1D+ 6,*0' 8)*2' ,' .' >12. 0*-*0' ,)6,' (*-6)')60' =-*+ 1;./ ')60' 6' .12' 8)*-*6.' D-6^)6?' 6,' ,)*' ,?*' 1 ') .' 1D.*-+6, 12' 86.' 6/,15*,)*-' >) /0/*..% ,' .' D*,,*-',)*-* 1-*' ,'1601=',) .'6 (625>C ?*2,',)62',1' ?69*' 62' 6-D ,-6- '>)625*' 2',)*' 2;?^ D*-.' 6.',)*' 6?6-'6==6-*2,/ ')6.'012*% K% @ !'&" (V' % ' ' '# ' ' " ' c0>1D .' *2,*- 25' 5 =,' 1',)*' L10;.%
' ()*' /*25,)' 1',) .' =*- 10' .' .,6,*0' D ' 6;/6. N ' *6-.' -1?',)*' =-1? .*',1' D-6)6?',1',)*' 5 + 25' 1',)*' 68' M46/% ' X',)*' -.,' *+*2,' D* 25')*/0',1' D*',)6,' -*>1-0*0' 2' 4*2% L ' C % ()*' .6?*' 2;?D*-' 1' *6-.' ' 5 +*2' 2' L10;.' ML ' ' X' 8)*-*',)*' : *D% -*60.' 18',)*' .1A1;-2 25' 1',)*' >) /0-*2' 1' .-6*/ 8)1' 08*/,' 2' 5A7=' \86.h' 1;-');20-*0' 620' ,) -,A7 *6 I.% 20',>6?*',1' =6..' 6,',)*' *20' 1',)*' 1;-');20-*0' 620',) -,A7 *6-.' *+*2',)*' */ .6?*' 06 ',>6?*',1' =6..',)6,'6//,)*' / 1.,.' 1',)*' 1-0' 8*2,'1;;' -1?',)*' /620' 1' 5 =,%J' :*-1',)*' *=,' 620' 6?6-' 600' 6 ,*-' 2' 5 =,J',)*' 81-0.' 620' 2' 62662 J' 8)/*,)*' /*L620- 62' 620' 1,)*-' < % 1',)*' 1-?*-' 6/.1' 600' 6 ,*-' ',)*' >) /0-*2' 1' .-6*/J',)*' 81-0.' '620' ,)*-' 6,)*-.%J' .' .**?.' ?1.,' -*6.126D/*',1' -*56-0' D1,)',)*' *' 600 , 12.' 6.' 5/1..*.1' ',)*' 6-*' *L>/;0*0' ,)*' =6..65*' 6==*6-.',1' ?69*',)*' 0;-6, 12' 1',)*' .1^ A1;-2' 2' 5 =,' N ' *6-.' D;',) .' .'21,'62' 6D.1/;,*/' >*-,6 2' >12>/;.12I% ()*' .1A1;-2 25J' ? 5),' 8*// 2^ >/;0*',)*' =*- 10' 6 ,*-',)*' =-1? .*',1' D-6)6?' 8)/*,)6,'=6,H 6>)' 620' .' 0*.>*2062,.' '.1A1;-2*0' 2',)*' /620' 1 '=-1? .*' 6.' \ 2h' 6' .,-625*' >1;2,- J' M : *D% L ' RX' 1-' ,' .' 21,'=1. ,+*/ '.6 0' 7',)*' .1A1;-2 25' 1',)*' >) /0-*2' 1' .-6*/' 2' 5 =, J' D;,' 8)1' 08*/,' 2' 5 =,%J' .' 1-',)*' +*- '06 '1' >/1.*' D* 25',)6,'1' >1?? *2>*?*2,',? 5),'-* *-'*,)*-',1' D-6)6? .'*2^ ,-62>*' 1-',1',)*' ,?*' 1',)*' =-1? .*% ',) -0' =6..65*' .',)*' 0 + 2*' 0*>/6-6, 12',1' D-6)6?'1',)*' ;,;-*') .^ ,1- '1') .'>) /0-*2% ' 218' 1 '6' .;-*, ',)6,',) '.**0' .)6// .*-+*',)*?' 620',)*' ,?*' 1',)*' =-1? .*% ',) -0' =6..65*' .',)*' 0 + 2*' 0*>/6-6, 12',1' D-6)6?'1',)*' ;,;-*') .^ ,1- '1') .'>) /0-*2% ' 218' 1 '6' .;-*, ',)6,',) '.**0' .)6// .*-+*' ,)*?' 620' ,)*' ' .)6// 6 />,',)*?' 1;-');20-*0' *6-.' 620' 6/.1' " '26, 12' 8)1?',)*A' .)6// .*-+*-' 8 // 'A;05*' 620' 6 ,*-86-0' .)6// ,)* ?1?*1;,' 8 ,)' 5-*6,' .;D.,62>*J' M4*2% L+ ' N' ' >1?=% >,.' + ' S X% ()*' 1;-');20-*0' A7*6-.' >6221,' D*')*/0',1' D*',)*' =*- 10' 1 '1==-*.. 12' 8 ,)1;,'6' 0*2 6/ 1',)*' .^ ,1- >6/' >)6-6>,*-' 1',)*' 26--6, +*' 1',)6,' ?*' D;,'>62' 12/ 'D*' .;==1.*0',1' ?*62',)*' ,?*' -1?',) .' 0*>/6-6^ , 12',1',)*' L10;.% ,' .' 6/.1' 21, >*6D/*',)6,C6 ,*-' ,)*' >,6, 12' 5 +*2 I' 6D1+*',)*' *+*2,.' 1',)*' 8)1/*' .1^ A1;-2' 6-*' -*=*6,*0' .)18 25',)6,',) .' 86.',)*' =*- 10' .=19*2' 1' 620' =*-)6=.*',)*-* 1-*',)*' =*- 10' 0* 2*0' ML+' SX' 6.' ,)*' 1;-,)' 5*2*-6, 12%J ;',)*' _;*., 12' -1?' 8)6,'=1 2,'1',?*' 6-1',)*.*' !>6-,' -*>912*OH')6.' D**2' +6- 1;./ ' 62.8*-*0' 620' >)-121/15 >6/' .>)*?*.' +6- ' 6>>1-0 25/ 7% 1?*' 6.' ,)*' *=,%' B1.*=);.',)*' B*8 .)' /-121/15 7 620' ?1.,')- ., 62' 8-,*-.' 6.. 52',)*' =*- 10',1',)*' *2, -*' .1^ A1;-2' 2' 62662' 620' 5 =,' D*5 22 25'*',)*-' 8,)',)*' 6// 1' D-6)6?' M4*2% L X' 1-',)*' -1? .*' ML+X' 3 1,B C *-.' 06,*' ,' -1?',)*' >/1.*' 1',)*' =*- 10' 0;-25' 8)>)' ,)*' -1? .*.' 8*-*' ?60*' M *- [12 ;.' >)1,,5*2X' .1?*' M6.' *25*/X' -1?',)*' D -,)' 1 'B6>1D' 8)/*' 2;^ ?*-1;.' -*>*2,' 8-,*-.'5 +*',)*' 8)1/*' =*- 10',1',)*' .1^ A1;-2' 2' 5 =,'-*>912*0' -1?',)*' 0*.>*2,' 1 'B6>1D' 620',)*' =6,-6->).' 2,1',)6,' >1;2,-7 M.**' 21D*/' 2' /1>%T -182*',' $!' g KQ CKQQX% ()*' 5*2*6/15 ' 1' <1.*.' .' 2>12. .,*2,' 8,)' .1' /125' 62' 2,*-+6/' 6.' N ' *6-.' D*,8**2' B6>1D .' N ,)' 620' <=.*.!' Q ,)' *6-' 1-' 8*' /*6-2',)6,' D*,8**2' *+' 620' <1.*.' 8*-*' 12/ 7' ,81' 0*.>*2,.. ' 20**0' D ',)*' ?1,)*-.' .0*' MB1>)*D*0 ''06;5),*-'' 1' *+ X' 12/ '12*' 620' 6.',)*' .;?' 1',)*' / +*.' 1' *+ ' 1)6,)' 620' ?-6?' .' N m NNm N ' ,' 1/18.',)6,' -1?',)*' D -,)' 1' *+',1',)*' D -,)' 1' <1.*.' ?;.,' D*' >12. 0*-6D/ '/*..',)62' ' *6-.% 1' 6/.1',)*' 1,)*-' 5*2*6/15 *.' 2' 8)>)' M8 ,)' 12*' *L>*=C' o' , 12' 620',)6,' 12/ '6==6-*2,X' 8*' >12.,62,/ '6-- +*' 6,' >12,*?=1-6-*.' 1' <1.*.' 2',)*' ,)' ,)' 620' S,)' 0*^ .>*2,' -1?',)1',8*/+*=6,-6->).' M -182*' , '$! g KQ CKQQX% : *2>*' 8*' ?;,.' ?*6.;-*',) .' 2,*-+6/' 1' N ' *6-.' M46/% ' X' -1?',)*' >6//' 1' D-6)6?' 2') .' ,)' *6-' M4*2% L ' X' 6 ,*-',)*' 0*6,)' 1' (*+6)' M >,.' + ' T' 4*2% L 'NKX',1',)*' L10;.%

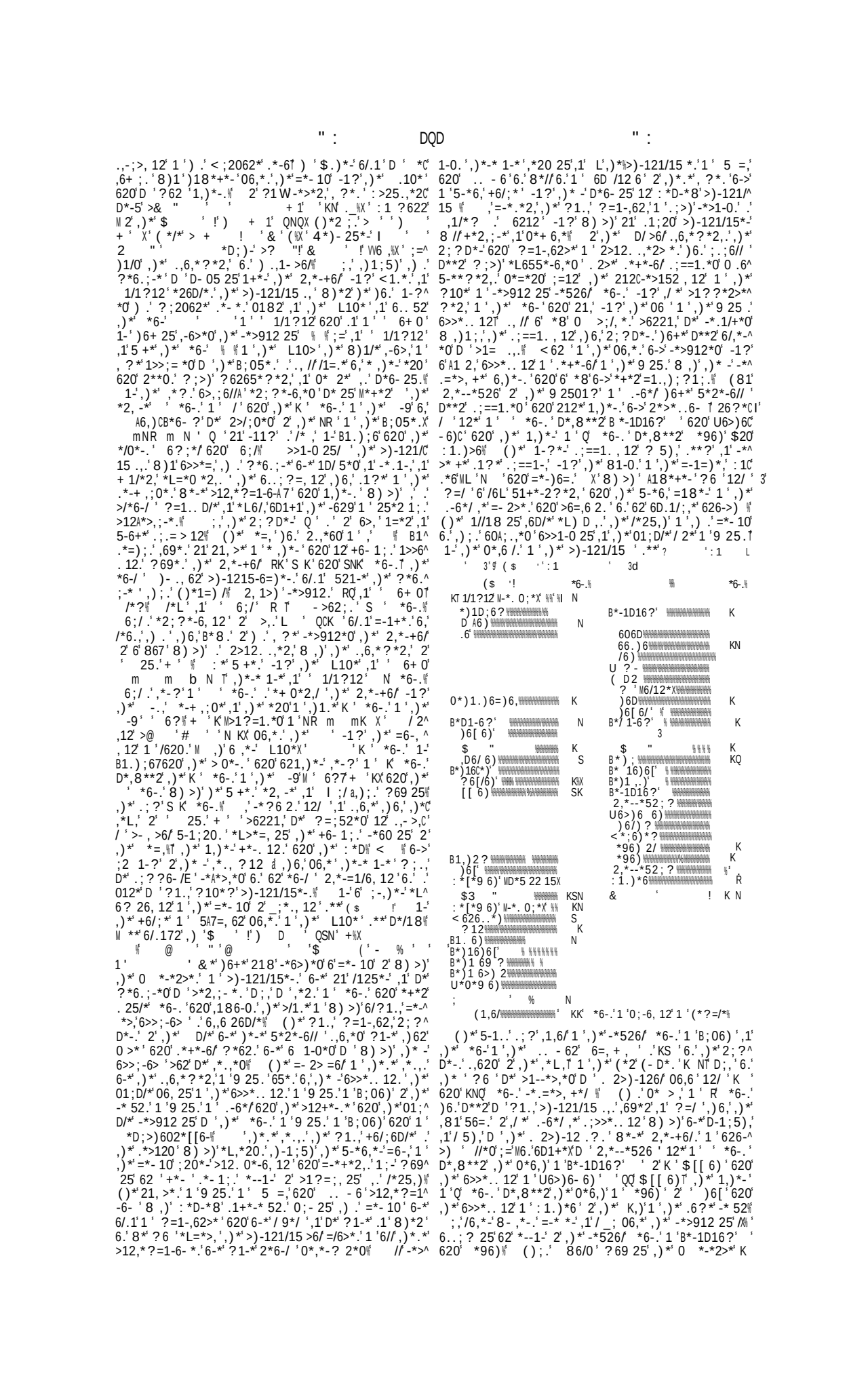
M %X' 5*' 1' D-6?' 12' /*6+ 25' : 6-62 ' -.%
5*' 1' D-6?' 6,' .66>.' D -,) *-*2>* K
5*' 1' .66>' 6,' B6>1D .' D -,) IS
5*' 1 'B6>1D' 12' *2,*- 25' 5 =, N

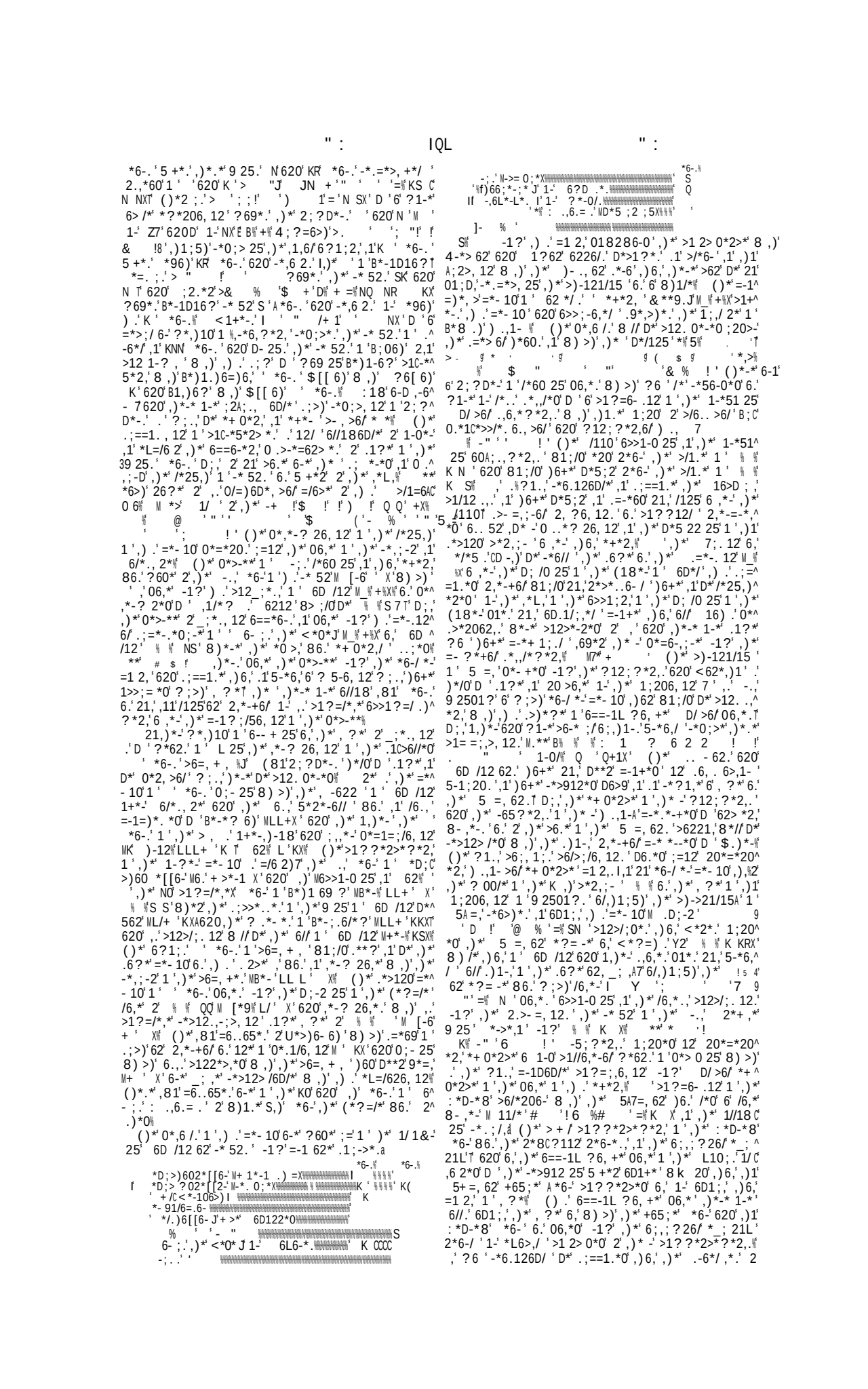
M %X' M %X' 5*' 1' *+' 12' *2,*- 25' 5 =, -%
. 0;' 1') .'/ * RK
==-*.. 12' 6 *-',)*' 0*6,)' 1 'B6>1D .' .12.
M L10% ' 4' 'P % H
5*' 1' <1.*.' 6,' L10;. Q
N K

MK%X' 5*' 1 'B1.*=)' 12' B6>1D .' *2,*- 25' 5 =, NR
. 0;' 1') .'/ * H
==-*.. 12 H
5*' 1' <1.*.' 6,' L10;. Q

()*' 06,6' ?69*';=' 6,'/*6.,' NQ '1-' NSS' *6-.' ,1' 8)>)' .1?*' 600 , 12' ?;.,' D*' ?60*' . 2>*' ,' 6==*6-.',)6,' 6// B1.*=).' 5*2*-6, 12' 0 *0' D* 1-*',)*' 1==-*.. 12' >1?^ ??*2>*0' 620',' .' =-1D6D/*',)6,' ,')60' D*5;2' .1?*' ,?*' D* 1-*',)*' D -,)' 1' <1.*.% ()1' .;?' 8*',;.' 1D,6 2' >6221,' D*' 6-' 0 *-*2,' -1?' N ' *6-.' 6' =*- 10' 1-',)*' 8)1/*' .1A1;-2',)6,',)*.*' 06,6' ?;.,',) ;.' D*')*/0',1' >12 -?%
()*' 5*2*6/15 *.' -*/6, 25',1',)*' , ?*' 1',)*' 08*//^ 25' 2' 5 =,' ' >12, 2;1;.' 6.',)*-*' .' ?;>)' -*6.12' ,1' .;==1.*',)6,' .1?*' 6-*' 01' 21,' .**?' -*=;5262,' ,1',) .' .>)*?*' D;,' 12',)*' 1,)*-')620' 12/ '12*' 1' ',)*?',)6,' 1' B1.);6' 2' ')-12% M+ 'KN' K 'KS' K X' ' ' 1' >62' D*' -*>12> /*0' 8 ,)',)*' 1= 2 12',)6, 06,*.',)*' N ' *6-.' -1?' B6>1D .' *2,*- 25' 2,1' 5 =,% 21,)*-' ?=1-,62,') .,1- >6/' =1 2,' 1 '*+ 0*2>*' .',)*-*6.*' 1',)*' .-6*/ .*.' -1?',)*' *8' .1;/ 8)1' 8*2,' 8 ,)' B6>1D' 2,1' 5 =,' 620' B1.*=)' 620') .' .12%.',1',)*' . L') ;20-*0',)1;.620' ?*2' 8)1' >6?*' 1;,' 6',)*' L1^ 0;.% ',)*' 1-?*-' 06,*' ,)*' 1//18 25' 6-*' *2;?*-^ 6,*0' d '0*. 0*.' B6>1D .' .12.' 8 +*. J' B6>1D') .' ;.' 8,*+/+*' .12.' 620' 12*' 06;5),*-' M NX' D .' , C12*' 5-620.12.' 620' 12*' 5-62006;5),*-' M KX' 620') .' 1;-' 5-*6,C5-620^ .12.' ?69 25' 8 ,)',)*' =6,- 6->)') ?.*/ '.*+*2, '.1;/.' M4*2% L/+ ' QCK X% *=' (! ()*' 5*2*-6, 12',1' 8)>)' >) /0-*2' 81;/0' D*' D1-2' 6D1;',) .' 06,*' ?6 ',);.')*')*/0',1')6+*' D**2' 1 '6,'/*6..' ' =6 -.' . 2>*' 6//





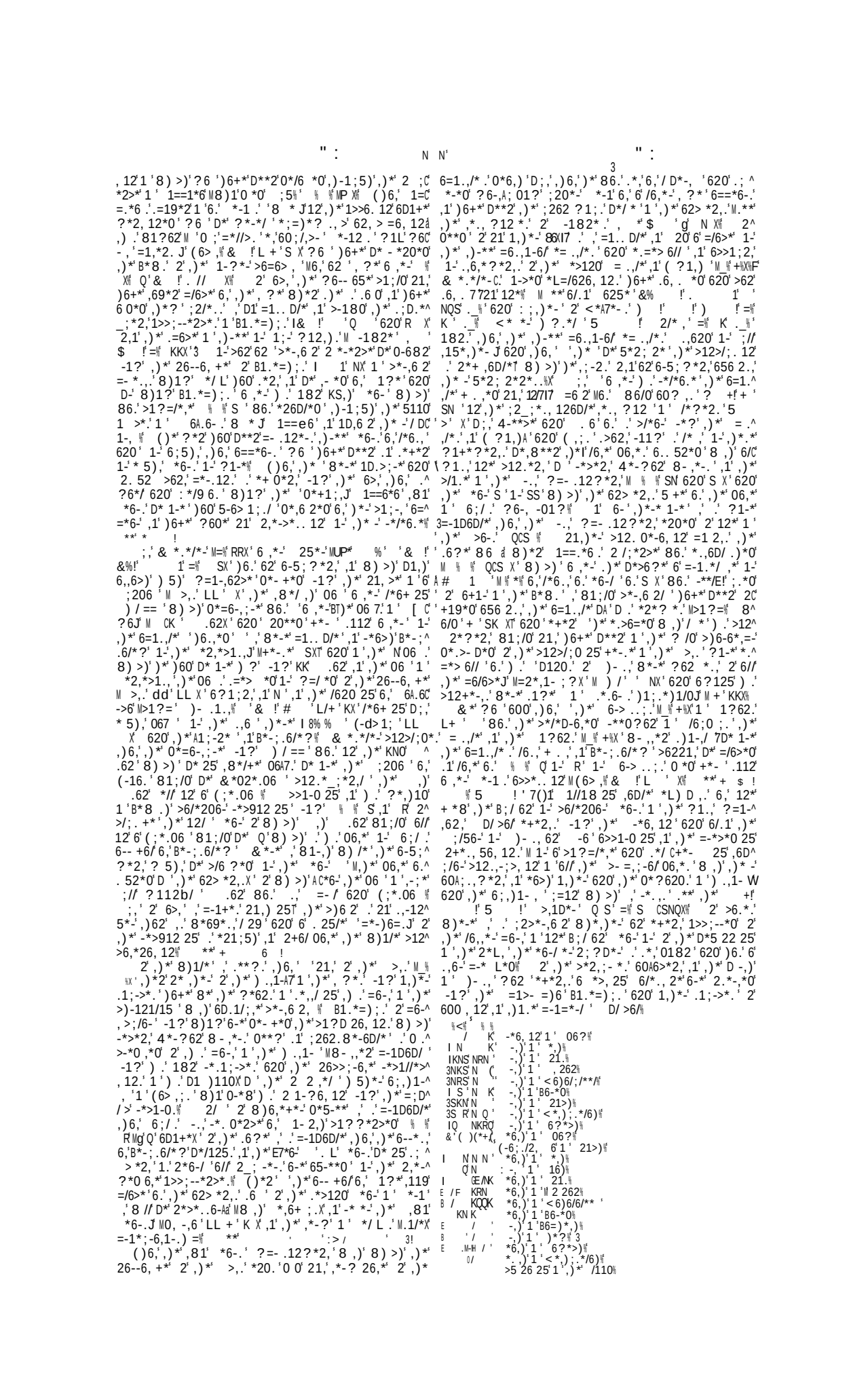


,)N , ?*' 1 ',)*' 1==-*.. 12)60 ?60*' ; .*' 1 ',)*' +65 ;*' *6-' 6.' ,)*' >1?7?12 *6-' 1 ' ,)*' >1;2,- ' 8)>)' 2^ 0**0 .'-*20*-*0) 5)/ '=-1D6D/*' D ',)*' > ->; ?.,62>*' ,)6',)*')60 ,1' 6' >12. 0*-6D/*' *L,*2,' 620 2' 21'+* '=- +6,*' ?622*-' 601=,*0 5 =, 62 -*/ 5 1;.' >;.,1?.' MB1.)' LL + ' Ť [*9 LL ' QX',)*' >*/*D-6, 12.' =-*^ .> D*0 D ' 8)>)' 8*-*' 9*=,' 6>>1-0 25 ,1' ,) .' *6-! &)*2',)*-* 1-*',)*' *., +6/.' 1',)*' 68' -*20*-*0 6' *6-' + -,;6// ',-1= >6/2*>*..6- ' 1',)*9 20 *,)*-'-*^ .,1-*0 1-' 2., ;,*0 6,',)*' L10;.' ,'.**?.' ?1.,'=-1D^ 6D/*',)6,',)*' >;--*2,' +65;*' *6-' 86.' L*0 ;2 0*-' <1^ .*.' ,) .' .;==1., 12 D*' >1--*>,' 8*' .)1;/0 *LIX>>,' ,1 20 ,)6,',)*' ,)' 06 ' 1 ' D D' 12 8)>)' */ ,)*' ;//C?112 1',)*' 6..1+*-' 1',)*' L10;.' >1--*.=120*0' ,1',)*' ,)' 06 ' 1 ' 6)6?*21,)' 2' 6' +65;*' *6-' >1?^ ?*2> 25 6D1;',)*' 6;,;?26/ *_; 21L ,')6.' D**2' 6.>*-,6 2*0 D ' >1?=;,6, 12 ,)6,' 6' ;// ?112 */ 12 ,)*' ,)' 06 ' 1 ')6?*21,)' 12 ( );-.06 ' =- / K .,' 2',)*' *6-' K ;// ?112 81;/0 21,' 6// 12 ,)*' .6?=' 06 ' 1 ',)*+65;*' *6-' 6,' 6' .)1-,*-' 2,*-+6/ ,)62 K ' *6-.' D* 1-*' 1-' 6 ,*-',) .' 06,*' 8)/*',)*' - =/*' >1 2> 0*2>*' 1 ',)*' 2*8' ?112 +65;*' *6-' 620 6;,;?C 26/ *_; 21L' >1;/0 21,' -*>;-' 2' /*..',)62 +65;*' *6-.' >6 % / ! Q,)*0 .' +5 =,' =Q X ()*' 06,*',);.' 1D,6 2*0' .' D;,' 1;-' *6-.' *6-/ *-',)62 : 6/*..'620',)*' 2,*-+6/ -1?',',1',)6,'1',)*' 1;20^ 6, 12' 1' 1/1?12.' (*?=/*' % ' 8 1;/0 D*' S K *6-.' 1-' 12/ ' . L' *6-.' 2' *L>*..' 1',)6,'=-*+ 1;./' 1D,6 2*0 -1?',)*' 2;?*- >6/ ..6,*?*2,.' 2' ,)*' D/* () .' >1 2> 0*2>*' .' 6,'/*6.',-*?6-96D/*' 6/,)1;5)',)*' 862,1' *L6>,' >1--*.=120*2>*' 2' ,)*' 06,*.' 0*,-6>,. >12. 0*-6D/ ' -1?',)*' 1->*' 1',)*' 6-5;?*2,' D6.*0' ;=12 ,) .' >1?=6- .12 *',, 25' 6. 0*' $.)*- .'=-* *-*2>*' 1-',)*' Q ' *6-.' 1 ' =5.'+ ' '6.'-*., 25';=12 *+ 0*2>*' 6-'/*..' .,-125' ,)62 ,/ *' /125*-' >1?=;,6, 12' 8*' ?;.,' ?*2, 12 ,)*' =- 2> =6/-*6.12.';-5*0 D ' ;2.*2 620 *=. ;.' 2' .;=^ =1-,'1',)*' //6DD 2 >6/ 06,*' M.**' ;2.*2 ' ; +1' =% >>L '>>L '>>A L '._ ť *=. ;.' " ! '1 % ' N '._ X ()*' -*>912 25 D ',)*' 5*2*6/15 *.' ;=12 8)>)',) .' 06,*' -*.,.' 8*)6+*' 6/->60A 7.)182',1' D*' ;2^ .6 * *+*-6/ =1 2,.' 1 ') .,1- >6/ *+ 0*2>*' 6-*')18^ *+*-' D-1;5),' M: 86-0 D ',)*' 8-,*-.' 6.' /*60 25',1' 1-' >12 -? 25',) .' 06,* ',)1. *',)*' ?1.,' ?=1-,62,' .',)*' .;==1.*0 6>>1;2,' 1',)*' L10;.' 5 +*2 D ' <6C 21,)1',)*' 5 =, 62') .,1- 62' =/6> 25',)*' *+*2,' 6,' 6D1;',)*' .6?*' , ?*' 6.',)*' 6DD 2 >6/ 06,* () .' 26--6, +*')18*+*-' .' 12',)*',*.,?12 1 1 'B1.*=);.' MW/W >8' ' Ť 6/.1' KS'*,>X 8)1')6.'=-*.*-+*0',',1',..' 8 /0/ '0*+1 0 1 '6;,)1- , 3D* 25 '6>>1-0 25',1' <62*C ,)1 .' 182 .)18 25' 6' -*>1-0 1 ';2>*-,6 2' 62, _; ,E ' 620 1 ' 62' ;2921822 8-,*-' 620 21,'=6-,' 1',)*' 5A=C , 62' 6226/.' 2' 20 >6, 12 1 '06,*')6.' 6/.1' D**2' .;=^ =1.*0 2',/*' ?*2, 12',)6,',)*' 26?*' 1 '12*' 1',)*',-*6.^ ;-*C>,.*.' /X;"7 1-')6-61)' DA',)*' .-*0 ;-25' ,)*' 1==-*.. 12 86.' 66?.*.' M L10 ' X' =-1D6D/ ',)*' .6?*' =/6>*' 6.',)*' 6?*.*.' */.*8)*-*' ?*2, 12*0' ,)*' >) * ',182 1 '6',-6>,'.1' >6//*0 *>' N ! (//.' 26?*' .',)*' .6?*' 6.',)6,'1'>*-,6 2' 8*//C9212 2' 9 25.' 1' 5A7=,'1',)*' =*- 10 ,1' 8)>)' 2!',) .' .>)*?*' ,/*' L10;.' 81;/0 D*' -* *--*0 ',)*' .,1- '5 +*2 D ' <62*,)1 D*' 1;20*0 12 6',-;*',-60 ,12',)*' 5-*6,'1=^ =-*..1-' 81;/0)6+*' D**2 6?*.*.' .*>120 9 25 1 ',)*' R,)' 0 26.,E7 8)1.*'-* 52' .'+6-1;./ '6.. 52*0',1' ,)*' ,)' 620 N,)' >*2,;-*.' ' ;-,)*-' ;-5*0' ,)6,',)*' -.,' 9 25' 6?*.*.' 1',)*' 57 =, 62' ?12;^ ?*2,.' 620 <62*,)1 .' / .,.' .',)*' 5-620 6,/*-' 1',) .' 9 25' 6?*.*.' '8)1' 86.',)*' /6.,' .1+*-* 52' 1',)*' Q,/'0 26.,E!'620'-* 52*0 6,',)*' ;,?1..'6D1;,'S ' *6-.' D* 1-*' D .' 5-620.12 ' ;?;.,')18*+*-' D*' 1D.*-+*0' ,)6,',)*-* .' 5-*6,' -*6.12 1-' ,69 25',)*' C/18*-' 06,*' 1'D1,)' 9 25.'8)>)' 81;/0 ?69*',)*' -* 52' 1',)*' .*>^ 120 6 ,*-',)*' 6DD 2 >6/ 06,*' 1',/f*' L10;.' 620',)6,' 2' ,) .' >6.*' D1,)' <62*,)1 .'..6,*?*2,' ?;.,' D*' 1' >1;-.*' .*,'6. 0*' 6.' =/6> 25',)*' L10;.' 2' ,)*' -* 52' 1' ,) .' 9 25 .12' 620',)*' 1-0*-' 1',)*' D/ >6/ 26--6^ , +*' ?;.,' D*' ,-62.=1.*0',)6,',)*' D; /0 25 1' 66?.*.' (% ' $.)1;/0 21,' 6// D* 1-*',)*' 6>>*.. 12 1' 6?*.*.' % ()*' 6-5;?*2,',)6,',)*-*' 21 9 25 6?*.*.' D* 1-*' 6^ 8)*2 8*' 20',)6,' 6' .12 1' 6)?*.' ?1..',)*')*60 1',)*' Q,)' 0E 26.,' +6-1;./ '6.. 52*0',1',)*' ,)I 620 ,)' >*2,;-*.' % %' D1-*',)*' 26?*' 1' 6?*.*.' 8)>)' 26?*' -1?',.' ?*62 25' M.12 ' 1-',)*' .;2' 5-*6, 1' 5E=,X' 81;/0 6/?1..'2*>*..6-/ 'D*' 6' 21,'+*-A I';2>1?^ ?12 12*' 620 66?.*.' ?5),',)*-* 1-*')6+*' D**2 26?*0 -1?' 62 *6-/ *-' 9 25 1-' =-2>*' D*6-25',)*H 26?*0 -1?' 62 *6-/ *-' 9 25 1-' =-2>*' D*6-25',)*H 26?*/125' D* 1-*' 6?*.*.' ()*') .,1-A' 1' 5 =,' =-*.*2,.' 5-*6,' 0 >;/,*.',1',)*' -*>*=,12 1',)*',)*^ 1-',15*,)*-' 8,)',)*' D/ >6/ 26--6,+*' 0 >;/,*.' .1' 5-*6,',)6,' 8*',) 29',)*' >1;/0 12/E7D*' -*?1+*0 D' 6D62012 25 6' D*/*' 2',)*' ,1-6/ >)6-6>,*-' 1',)6,' 26--6,+*' .1',' .' 1D+ 1_./' ;,/*',1 1;20 62 6-^ 5;?*2,';=12 6' ? 2;,*' =1 2,',)*' 1>>;--*2>*' 1' 6' . 2^ 5/*' 26?*' ()*') .,1-6/ 0 >;/,*.' 12',)*' : *D-*8' . 0*' 2' /*..' .*-1;.' 620')6+*' 20;>*0 ;2.*2',1' 62,*06,*' <1.*..' 86-' D* 120 B1-062' 620',1' >1?=-*..' B1.);6.' -;/*' 2,1',)*' 'E!*6-.' 2',)*' 8 /0*-2*..' I; ("1' =% >>LL+ '._X' 620 .1' 8*' +*2,;-*',1',) 29',1' 1-*.',) -' 5),',1'-*6.12 12',)*' 0*,6 /.' 1',)*' 26--6, +*'-*/6, 25' ,1',)*' *6-/ *-' =*- 10 ()*' .' >1?=-*.. 12 6- .*.' -1?' ,)*' 862,1' .=6>*' 1-',)*' B;05*.' ()*' >D-121/15A 71' *+*2,.' .1' 1D,6 2*0' .' 6/.1' 1=*2',1',)*' 1DA*>,12 D-1;5),' 656 2.',)*' /125*-' .>)*?*.',)6,',)*' .-6*/,*.' >1;/0' 21,')6+*' D**2 2 6/*.,2*' 0;-25',)*' >6?=6 52.' 2' ,)*' 6.',1',)*')6-61).' 1',)*' Q,)' R,)' 620 K ,)' 0 26.,*.' .2>*' ,' 01*.' 21,' .**?' =1.. D/*',1',)-18' ,)1.*' 1' 6?*.*.' '*6-/ *-',)62' ;2.*2.' 06,*' 1' ,)*' D*5 22 25' 1',)*' >12_;*.,'1'8*.,*-2' 6/*., 2*' D' ,)*' : *D-*8.'M.**',)*' ;9*' 1' 1-,);?D*-/620.'=6=*-' 2' & /9 2.12.' &' f 6 % 'A' CQ X ()*-*' 01>.' 21,' ,)*-* 1-*' 6==*6-',1' D*' 62' 5110' -*6.12 1-' 6D62012^ 25',)*' 0* 2,* ..6,*?*2,.' 1',)*' :*D-*8' -*>1-0.' 2' 6+1-' 1',)*' A*,'>-;0*' 620' >12 /> 25' >12.,-;>, 12.' 1' .A?>)-126/06,*.' -1?',)*' 5A=,62' ?12;?*2,.' M.**' >2- >9 .' 6 % ' ' " ' " " ' +1/ X **' > # / ! N ' + ' $+ " D !=' ()*' D/ >6/ *+ 0*2>*' 1-',) .' E!2>)-12 .?' .' 6.' 1//18 .a *)1D16?' >6?*' ,1',)*',)-12*' 2' % %' R N ()*' 2+6. 12 1' / .)69' ,119' =/6>*' 2') .' ,)' *6-' 1-' % %' RSR) .)69' 86.' 6/-*60 '12',)*',)-12*' 8)*2' B*-1D16?' /*0'/1') ?' -1?' 1-',) .' 12 M ' 25.' L ' X ()*' .' *+*2,')6==*2*0' 0;-^ 25',)*' D; /0 25' 1' < //1' *,>% 8)*2' B*-1D16?' 86.')*60' 1',)*' 81-9?*2' 1',)*' B 1;.*' 1' B1.*=)' M ' 25.' L ' K X ()*' D; /0 25' 1' < //1' 620' -*=6 - 25' 1',)*' D-*6>)*.' 1',)*' >, '1' 6+ 0' 86.' 6,+',)*' D; /0 25' 1',)*')1;.*' 1')6-61) .' 06;5),*-',)6,' 86.' >12^ ..-;>,*0' 6D1;',)*' .6?*',?*' 6.' 1/1?12.')7;.*',)*' >1?=/*, 12' 1' 8)>)' .' 06,*0' 2') .' K ,)' E>6-' M ' 25.' + ' 'N ' NQ ť + ' Ť K ')-12 + ' ' 8)*-*' Nm 'K 'b' m NX ()*' .' D; /0 25' .' -*>1-0*0' 6 ,*-',)*' 1>>;--*2>*.' 1',)6,' *6-' 1' 1/1?12' 1-')6-61) .' 06;5),*-' -*^ ?6 2*0' 2' B*-;.6/*?' ;2, /',)*' 9 25')60' *20*0' D; /0^ 25') .' 182)1;.*' 620',)*' (*?=/*' 620',)*' ?*,' 6,)6,',?*J' ML ' KRX D ')A6)' 620' 2' >12.*_;*2>*')60' 1' /** -1?',)*' >1;2,-E',)*' K ,)' 1-' K ,)' E *6-' .',)*' *6-/ *.,'=1.. D/* 06,* () ;.') .)69' 6==*6-.',1')6+*' >1?*',1',)*',)-12*' 6,' ?1.,' K ' 1-' KK *6-.' M ' "KN \1-' K hm X' D* 1-*' .' *L=*0, 12' 656 2.,' *)1D16?' 2' 2.>-=, 12' 6',.D*'_;6--*.' 1' /./.' 2' $ P=1-' 5 =,' -*>1-0.',)*' >;., 25' 1' .,12** 2',)*' KK0' A' *6-' 1')*C .)129' 1-').)69' 1-' >12.,-;>, 12.' 2',)*' >) * ',*?=/*' 1' ()*D*.' 8)*-*' 8** 218' 20' 6' -*>1-0' 1') .' >12_;*.,' > ' B;06)' M)6?=1// 12 ' =% R R X (% ' $

2' ,)*.*' 5-1;20.' 8*' ?6 ' =/6>*' ,)*' 6>>*.. 12' 1 ') .)69' 6,' % %> -%RR % ()*' *+ 0*2>*' 1 ' < 62>,)1 .' / .,.. ' >1 ?=6-*0' 8 ,)' ,)*' ?12; ?*2,. '81;/0' =/6>*',) .' *+*2,' 8 ,) 2' 6' *8' *6-.' 1 ',) .' 06,*' 1-' ,)* ' 01' 21,' 6//18' ;.',1' =;,' ,' ? ;>)' D* 1-*' 1-' 6 ,*-' % %% ' 62' 6==-16>)' ,1' >1--*>,2*..' 8) >)' 6 ,',) .' =*- 10' .' +*-A' +6/;6D/*% **' . . ! ' D +' ' " "' 7 " % ' ()*' 0*6),)' 1 'B1. 6)' >62' D*' >/*6-/ ' .)182' 12' D/ >6/' *+ 0*2>*' ,1')6+*' ,69*2' =/6>*' 2',)*' K .,' *6-' D* 1-*',)6,' 2' 8) >)',)*' (*?=/*' 86.' 0*.,-1A *0 ' ,)6,' .' 2',)*' B*8 .)' *6-' -1?' ,)*' .:- 25' 1 ' % % S R',1',)*' .:- 25' 1 ' 5 Q% *>)1 .' -7' *6-' .' =-1+*0' D ',)*' = .',6D/*,.' ,1')6+*' D**2',)*' 5 =, 62' +65 ;*' *6-' * ,)*-' B62;6- % % S RCQ' 1-' =-1D6D/ ' % % E G O' ()*' *L=*0 , 12M 2' 1==1. 25' 8) >)' B1. 6)' */ MK 25.' LL 'KRX>62^ 21,' -*6.126D/ ' D*' 06,*0' *6-/ *-' ,)62' *>)1I .' .*>120' *6-' % % EQO5I' 1-' S QC % **' * ' ! ' D " " ' '7 " I// =1E ' B*-% LL+' % ,)*' -.,' *6-' 1 ' *D;>)602*[[6-' >1 2> 0*. ' 8)1// ' 1-' 2' =6-,' 8 ,)' 'B*)1 69 ?' K' 25.' LL + ' K',)*' *=^ 1>)' 1 ' B*>12 6) .' >6=, + , ' 620' 1 ' U*0*9 6) .' -* 52' / *.' 2' Q' *D;>)602*[[6-' " 0' LL+ ' Q',)*' ,)' 1 ' U*0*9 6) ',)*' ,)' ?12,) ' ,)' 06 ' / *.' 2' R' *D;^ >)602*[[6-' 620' B*-% : ' Q ',)*' Q ,)' 1 ' B*>12 6D' K,)' ?12,) ' K ,)' 06 ' / *.' 2' ,)*' *6-',)6,' + /C' ?*-106>)' D*562' ,1' -* 52%J' -1?',)*.*' . 2>)-12^ .?.' ,' 1//18.' 0*?12.,-6D/E',)6,' 2',) .' -*>912 25' *D;>)602*[[6-')6.' ' *6-.' 1 '-* 52',81' *6-.' ?1-*',)62' 6-*' 6.. 52*0',1') ?' 2',)*' .,-121? >6/' 6212' 8)*-*') .'-* 52' 1 ' N' *6-.' D*5 2.' 6D% b % ' S ' >12.*.;*2,/ ',)6,') .' -* 52' 2',)*' B*8 .)' <-*>9^ 12 25' D*6-' 06,*' -1?',)*' *6-' % % S S' M -182*' , '$I 'g' C ' NQX' :*2>*',-*.;/,.',)6,',)*' *6-' 1 ',)*',69 25' 1 'B*-;.6/*?' 620' 0*.,-;>, 12' 1 ',)*' (*?=/*' .' % % QQ% ()1.*' >D-121/15 .,.' 8)1' 21,')6+ 25' >6-* ;// ' *21;5)' >1//6,*0' 620' 0 .>;..*0' ,)*' *.,. ?12 *.' 6>>*=,' ;2_;*.., 12*0',)*' *6-' % % S '6.' " ' -.,' *6-' 1 ' *D;>)602*[[6-' 8) >)' >1 2> 0*.' 8 ,)' 'B*)1 69 ?' =/6>*',)*' >6,6.,-1=)*',81' *6-.' /6,*-' % % SQS% & ,)',) .' /6, ;,0*' 1-' 0 / *-*2>*C' 1 '+ *8. ',)*' A(>)-1 .?' ' *D;>)602*[[6-ba 'B*)1 69 ?b % % S S' 1-' S ')6.' /125' D**2' 5*2*-6// ',69*2' D ' >)-121/C' 15 .,.' 6.',)*' >122*>, 25' / 29' D*, 8**2' .6>-*0' 620' =-1^ 62*' 6226/.',)*' ' '4 '1 ',)*' 6.>*20 25' -*>9^ 12 25% **' * $ - - ! S' D / + +('$ " % ' 2' K' 25.' L+ ' Q' L L ' R' ,'6==*6-.',)6,' *226>)*- D ' 9 25' 1 ' ..A(6' 620' (-)696D ' 9 25' 1 ' ,) 1= 6 ' 8*-*' D1,)' >12,*?^ =1-6- ' 8 ,)' :*[*9 6) ' 620' 6,' ,)*' ,)' *6-' 1 ') .' -* 52% 18 ' 2',)*'-*>*2,/ C-*>1+*-*0' -?*2 62'+*-^ . 12' 1 ' ;.*D ;. .' " 1' 8*')6+*' ,' 12',)*' 6;^ ,)1- , ' 1 ' *-1.;.'M_;1,*0' -1?' 1/).,1-X',)6,' -1?' *226>)*- D',1' *D;>)602*[[6-' 8*-*' QQ' *6-.' M,)*' 26?*.' 620' 2;?D*-.' 6-*' 5 +*2' 620' 65-*'* 8 ,)',)*' *L=-*..*0' . ; ?XT ,) .' 6>>1;2,'=/6>*.',)*' 6>>*.. 12' ' *226>)*- D' 6,' % % SRK' 8) >)' .' K ' *6-.'/6,*-',)62' ,)*' /18*.,'06,*',)6,',)*' D/ >6/' 2;?D*-.' 8 // 6//18' 1-' ' :*[*9 6)% >>1-0 25/ ' *D2)-'>) !'+ 'O% %+ !' $ " 1' ' K RX =-1=1.*0',1' .,- 9*' 1 ;,',)6, 2;?D*-' 1 ' *6-.' -1?',)*' ' 6.. 52*0',1' < 626..*)T ,)*2',)*' 2,*-+6/',1' 'B*)1 69 ?' D*>1?*.' QS' *6-.% ' QS T ()*2 ;.' =% T ;2.*2' +' NRQ' -*,6 2',)*' D/ >6/' ?D*-' 8)>)' 6/.1',)*' 1;25*-' *D;)-' I1? "!' & =' ' !';' =%RRC X/*6-2*0/ ';=)1/0.'656 2..'/ .' 6,)*-.' 1DA*>, 12.% & ,)',)*' 6.. .,62>*' ,11' 1 ',)*' 6212' 620' 1 ',)*' *L,-6>,' -1?' D 0*2;..' 6>>1;2,' 1 ',)*' .6?*' , ?*.' ,' .' 21,'0 >;/,',1' D- 25',)*' .,6,*^ ?*2,.' 1 ' *-1.;.' 2,1' >12 1-? ' ' 8 ,)',)*' D/ >6/ 2;?D*-.' 6.' D ' -182*' I , ' $ " 1' g' QR' -620 .' I5 ' & ' % ' 1' =% ' ._%T -*,-6>,*0')18*+*-' 2') .' /6,*-' 8 1-9' 2 ' "" !' ? ' ' ' 6 / !' ' & ' " !' =% S' NX' 620' 2' ,)*' 81-9' A;.,' > ,*0' 1 ',)*' 1;25*-' *^ D;)-' 2' ,)*' 1,)*-')620' *=. 2.' I) =; "' ' 1 % E' <1+*-.' I ' + / 1' ' ' K ._% \8)1.*' 6-5;?*2,.' % +% 4;,.>)?0'5" !' NV,8%' Q ',) 29.' ;262.8*-6D/*hX' >D*;>)[*-' I " ' !'7 " P81' 620 B% +% 4;?=6>)' I& ' ' "!1 !'? +!=% RQ' ._%X' >12,*20' 1-',)*'-*0;>*0' 2;?D*-.% **' o ' ' ! ()*'(-)696)' 2'_;*., 12' .';201;D,*0/ ',)*' (6-91.' (6-691.' 1 ' &62*,D1.' K ,)' 0 26.,%7' 2' 8) >)' 6>>1-0^ 25',1',)*' ;2>1--*>,*0' 2;?D*-.') .'-* 52' D*5 2.' 7' M -> 62;.X' QN 1-' QQ' M ;.*D% 2' 4-%X' Q Q '1-' RQ' M ;.*D% -?*2%X' D* 1-*' 6?D .*.' % % KS' ,)*' *L^ ,-*?*.',)*-* 1-*' 6-*' % % SR' 620' Q 1-').' *=1>)% ;,' 8*' 6-*' 21,' 0*=*20*2,' 12',)*' ,.,' 1-' ,)*', ?*' 1 ' ,) .' 9 25' - " D ! ()*' >)-121/15 ' 1 ',)*' KS,)' 0 ^ 26.,')60' 6/-*60 'D**2' =6-, 6// ' >/*6-*0' ;=' D ' ;2*-^ 6- ' 2.>-=, 12.' M218' 2',)*' ?;.*;?.' 1 ' /1-*2>*' 620' * 0*2X' 8) >)' D '-*>1-0 25',)6,',)*' 0*>*6.*0' D1?' 12' 6' 5 +*2' 06 ' ?12,)' 620' *6-' 1 ' *91' '/+*0' .7' ?62 ' *6-.' ?12,).' 620' 06 .' 62?D .*.' 8) >)' 6>>1-0*0' 2' 6' 5 +*2' *6-' ?12,)' 620' 06 ' 1 ' ?1..' *26D/*0' ;.',1' ?*6.^ ;-*',)*'=-*>.*' 2;?D*-' 1 ' *6-.' M X' -1?',)*' *=1>)' 1 ',)*' 12*' 9 25',1',)*' *=1>)' 1 ',)*' 1,)*-' M 0>9)' " 1' =% KR' ._%X' 620' 218' ,' .'=/6>*0' D* 120' ;-.,)*-_;*.^ ,12' D ' <6-*,,* .' 0 .>1+*-' 1 ' 6' 2;?D*-' 1 ' 2.>-=^ ,12.' 2' *6>)' 1 ' 8) >)',)*' D -,)' 0*6,)' 06 ' 1 ' ;2*-6/' 620' 65*' 1 ' 62' =.' 6-*' -*>1-0*0' 2' A;.,',)*' .6?*' <6 ' M.** <6-*,,* .' 182' 6>>1;2,' 5 ' ' 2' S ' &% 1' ' ' ' ' $"(% =1; +' '& "" !' ' N& " !' @ 1 1' >,%' Q T 620',)*' .*/*>,12' -1?',)*.*' D ' *=. ;.' , ' " ' KK,V ' 1' ,-62./6,*0' D ' & % *// ' Q QX% ()*-*' -*?6 2.' 12/ '6' ./5),'01;D,'6.',1',)*' *=1>)' 1 ' 6?D .*.' 8)*,)*-' 8 ,)' ,)*' >6212',) .' .',1' D*' -* *--*0',1' % % K ' M,)*' ;.;6/' 06,*X' 1-' 8 ,)' *' 1;5*',1' SK ' 1-' 8) >)' 12' 4;?^ =6>)' 6/.1' >12,*20.' 1-' KQ' < ,)' -% : 2>9.' I , ' " '& ' DE " ' KS, ' ' (8!' 1-' *+*2' KR' M 1>9)' " 1!' =% QR' ._%X% ()*' ?6 2' -*.;/,' .',)6,' .6?*, 9' ' D*562' ,1' -* 52' NQ' *6-.' D71-*',)*' *=1>)' 1 ' 6?D .*.',)*-*^ 1-*' % % SSN' M1-' 6,'?1.',),)-*** *6-.'*6-/ *-X% 18' <6^ - *,,*' M 1% K N X-*>1-0.',)6,' 62' = .' D1?' KS' (6)6-96' 0 *0' K' .6?*, 9' ' K,)' ?12,)' K ,)' 06 T .' 65** .' 21,' 5 +*2% .',)*' = .' 86.' 21,' ;.,;6// ' 6//18*0',1' / +*' ?1-*',)62' K ' *6-.',)1;5)' .1?*' 1 ',)*' 2.>-=^ ,12.' -*>1-0' 62' 65*' 1 'KS' *6-.' 12',). ' 6.' 62' *L,-*?*' .;==1. ,12',)*' 2,*-+6/ -1?' ' (6)6-96',1' ' .6?*, 9' 8 // D*' 6,' ?1.,'N ' *6-.' 620',)*') 5)*.,'=1.. D/*' *=1>)' 1-' (-)696)' M % % SR X% () .'-*.;/,' 2' ,.*/ ' .' 21,' 2*>*..6- / ' 1==1.*0',1' ,)*' D/ >6/' 06,*' 1-' ' :*[*^ 9 6)T 1-' 2',)*' 26--6, +*' ,.*/ ' 8) /*' 6')6-61)' 9 25' 1 ' 5 =, J' .' ?*2, 12*0' L+ 'K ',) .' (-)696)' .' ., /*0' 9 25' 1 ' ,) 1= 6 J' 620',)*' .**?.',1' 6==*6-' 12',)*' .>*2*' 6.' 62' ;2*L=*>,*0' *2*?' 1 ' *226>)*- D' M *D;)-' ' %T' =% K' ._% N' QX% :*' ?6 ')6+*' -* 52*0' 2' ,) 1= 6' /125' D* 1-*')*' D*>6?*' 9 25' 1 ' 5 =,T ,)1;5)' 12',)*' 1,)*-')620' ,' .' >/*6-',)6,',) .' 1- 5 26// ' ,) 1= 62' 0 26.,' 86.' >12,*?=1-62*1;.' 2' ,.' /18*-'=6-,' 8 ,)',)*' KS,)' 6' 6 ,*' 0 26.,' 1' 18*-' 5 =,' 620' =-0D6D/ ' 2' ,.' ;AX=*-'=6-,' 8 ,)',)*' =-*>*0^ 25' 6 ,*' 0 26.,' 6.' *=. ;.' ?69*.' ,% ()*' -*6/ 0 ^ >;/, ')08*+*-' >12. .,.' 2',) .' .),)6,',)*' ' 1' Md X' 9 25' 1 ' 5 =, J' 8)1.*' 6// 62>*' 656 2.,' .. - 6' 86.' .1;5),'D ' : 1.)*6' 2') .' S,)' 1-' S,)' *6-' MK 25.' L+ X' >62' D*' 21' 1,)*-',)62' 12*' 1 ',)*',81' =-*0*>*..1-.' 1 ' (-)696) ' *D*9' 1-' ',1',)*' -.,' 1 ' 8)1?' <62*,)1' 5 +*.' Q M+% -% KX',1',)*' 1,)*-' ' *6-.' 1 '-* 52% ();.' 6,',)*' *6-/ *.,',)*' 1-?*-81;/0' D*5 2',1'-* 52' % % HKN' 8) >)' .' 6,'/*6.,'12*' *6-',11'/18' 1-',)*' D/ >6/ 06,*% .' 6' >12A*>,;-6/ -*?*0 ' 1-',) .' 0*.=*-6,*' .,1,*' 1 ' ,) 25. J' 12' *D;)-' =% R' .;55*.,.',)6,',)*' ' *6-.' 1 ',)*' K ,)' 0 26.,' 8*-*'=1.. D/ '21,' >12, 2;1;.T 6 /^ 25',) .' * ,)*-' 62' *--1-' ?;.,' D*' 6..;?*0' 2',)*' >6212

.1-- /8)*-*'D*,8**2' ,.' KQ,)'620' ,.' KQ0' *6-'D1,)'1 ' 8) >)'6-*'6.,-121? >6// '6,,*.,*0'1-'*/.*',)*' -* 52'1 ' : 626..*)' ? ;.,' D*' -*0;>0%' 2' ,) *' 8)1/*' .',**?.' D*.','1'86 .' 1-' ;-,)*-'/ 5),' -1?',)*'?12;?*2,.%' ,' =-*.*2,',)*.*'6,,*..',)*' K,)' *6-'1 ' *D*9' 'D;','5 +*' 21'06,*.' 1 ') .' =-*0*>*..1-!' ,)*' 5*2*6/15 >6/'>122*>^ , 12' 1 ', /*' ,81'620'1 ' (6)6-96' .' ;2921821' 1 ' 1>C >)1- . ',)*'12/ '1>>;=62,'1 ',)*'=-*>*0 25'0 26., '21' ?12;?*2,')6.' D**2' 0 .>1+*-*0' 620' D;' .>62, ' 620' =-*>6-1;.',-6>*.'1 ',)*'(62 ,*'9 25.'1 ',)*'KNO'0 26., ' ,)*'/6.,'1 '8)1?'U*,' ?6 '*+*2' D*',)*' *,)1.'8)1?' : *-101,;. ' ' ?69*.',)*'-1' 1',)*' ? -6>;/1;.' 0* *6,' 1 ' *226>)*-D7.'6-? % 20**0' .6% L L' KT Iddd' 'D1,)' .**?',1' ?=/ ',)6,' U16A' M(62 .X' +6.' 6,',)6,',?*' ,)*' -*. 0*2>*' 1 ',)*')6-61)' 1 ' 78*-' 5 =,%' : *-*' .'6?=/*' .>1=*' 1-'>12A*>,;-*' 620' 6/.1' 1-'0 .>1+*-*.' 8) >)'?6 '.;=*-.*0*' 6//'2*>*.. ' 1-' >12A*>,;-*% **' 1% ()*'?*2, 12' 1 ' <*-106>)C 6/6062' .12' 1 ' 6/6C 062'9 25'1 ' 6D /12 J'6==6-*2,/ ' 2' 1-' 21,'/125'6 ^ ,*-' ' : *[*9 6)'MK' 25.' LL' KX' 1-?.' *,' 621,)*-' . 2>)-12 .?' 2' ,) .' -* 52% 1-' *226>)*-D.' 2^ .>-=, 12' -*>1-0.') .' 0* *6,' 1 ',) .' 6D /12 62' 9 25' 2') .' -.,' *6-!' 6' <6-;069)C 6/062' 6==*6-.' 2' 1/) .,1-.'*L,-6>,' -1?' *-1.;.'6.'9 25' 2' 6D /12' *6-/ ' 2' *226>)*-D.' -* 52'D;,' 8 ,)' > ->;?.,62>*.' 8) >)' ?69*' ,' *L,-*?*/ ' 0 >;/,' ,1' ?69*' 1;,',)*' 0*2, ,'1',)*',)-**'=*-.12.'8 ,)'*6>)'1,)*-' 620'8 ,)' * ,)*-',)*' +' ?=60'8)1' 2',)*' 6212'-* 52.' 2' 6D /12' -1?' K',1' R'1-',)*' <*.*.' +'1',)*' .6?*' 01>;?*2,' -1?' SRK',1' <<' **' ! " : *-*' ,'?6 'D*'.; >*2,',1'?*2, 12',)6,' -% : 2>9.'I- !' '5 ' "'& 1'+1/% LL ' NS X'-*,6 2 25',)*' 1' *6-.'1'<626..*)'=-1=1.*.',1' .1/+*',)*'0 >;/, 'D'=/6> 25' *226>)*-D.' 2+6. 12' 1 'B;0-16' 2' :*[*9 6).'K ,)' 2.,*60'1 ') .' ,)' *6-' 6,',)*' 06,*' ' % %T : *[*9 6).' //2*..'-*?6 2.'6,' ,.'*6-/ *-' 06,*% ;2.*2',6> ,/ '601=, 25',) .' >12^ .,-;>, 12' ?69*.' N *226>)*-D' 6// 2' K' : *[*9 6) ' 620' ?65 2*.',)6,',)*' 2+6. 12' 8) >)'1,)*-?26,*'0 .^ 6.,-1;./ ',1',)*' .. - 62'9 25'86.'6' .*>120' 2' : *[*C% 9 6).'KQ,)' *6-'12' 8) >)'/6,,*-' 1>>6. 12' ,' 86.',)6,' (-)696)'>6?*',1',)*' -*/ *'1'B*-;.6/*?' $!'D% +'=% X% *,6 2 25' 1-',) .' 5 =, 62' &25' 62' *=^ 1>)' % % K' 8) >)' .' =/6 2/ '0 .=-1+*0'D',)*' = .' 2.>-=, 12.'M.**'6/P1+*X')*'?69*.' ,'=1.. D/*' 1-' 1b' *+*9' ,1',)6+*'D**2'>12,*?=1-6 I'8 ,)' :1.)*6% ,' ?;.,'D*' 182*0',)6,',)*' -*>* +*0')-121/15 '1 ' :*[*^ 9 6).'-* 52' .'D*.*,' 8 ,)'0 >;/,*.'12',)*' .0*'D1,)' 1 ' 5 =,'620'1 ' .. - 6'620' 6D /12% ;' -1?'2* ^ ,)*-')6+*' 8*' 6.' *,'6//',)*' 6>,.' 81' 2**0'620',)*' ;//*-'620'>/*6-*-' 2 1-?6, 12' 8) >)' .'>12 0*2,/ '*L^ =*>,*0' -1?',)*' >;2* 1-?' 2.>-=, 12.' 2' =6-,>;/6-' 8 // =-1D6D/ ' ?69*' ?;>)' D-5),',)6,' .' 218' 06-9% 1/12*/ 68/2.12' 20**0' -*56-0.',' 6.' 218' 5*2*-C 6//E7 60?,,*0',)6,',)*-' 8*-*',81' 2+6. 12.'1 ' 6/*.^ , 2*' 0;-25',)*' -* 52' 1 ' :*[*9 6)'.',)*' -.,' 2' % % '8)*2' *226>)*-D' 1+*--62',)*' >1;2,-' 620' *L^ 6>,*0'6',)*6+ ',-D;,*'6.',.,6,*0' 2',)*' 2.>-=, 12.'620' K' 25.' L+ ' NC S'620',)*'.*>120'.1?*',) -,**2'1-' 1;-,**2' *6-.'/6,*-'8) >)'*20*0' 2',)*'0 .>1? ,;-*' 1',)*' .. - 62.J'> '& " 1' ;5;.,'KK7 QSN' =%K ' X% ;',)*'/*6-2*0'62, _;6-62')6.'521-*0' ,)*'9 25.'620',)*'06,*'1',)*'D;'0*2, *.',)1.*')*-*' 2+6. 12.'620',)*' D/*'*L=-*../'0*2, *.',)1.*')*-*' 6.. ;?*0'6.'0 ., 2>,% 20**0',)*'=6=*-' 2' 8) >)',) .' 620'1,)*-'8)1/*.6/*' >)625*.'1',)*' D/ >6/'2;?D*-.' 6-*'60+1>6,*0' >12,6 2.' 2' ,.*'/6D;2062,'*+ 0*2>*' 1' ,)*' =-*>6-1;.' */*?*2,.' ;=12' 8) >)',)*' 8)1/*' . .^ ,*?' 1' -*>12.,-;>,*0' .. - 62' >)-121/15A' 6.' 0-6 82' -1?',)*' ?12;?*2,.' .'D6.*0'T 620' 8*' **/' 12/ ',)*' ?1-*' >12 -?*0'D ' ,.' =*-;.6/ 2',)*' D*:*',)*' 8*' >6221,'.6 */ '>1--*>,',)*'0* 2,*'720'>12.*>;,+*'06,*.' 1',)*' D/ >6/'6>>1;2,.' D ' ?*62.' 1' .;>)' 65;*' 620' 2>1)*-*2,'06,6% ;'/*6.,',)*' 6,,*?=,' .' *,'*+ 0*2,^ / '=-*?6,;-*' 620' 8*' 6-*' A;., *0'D ',)*' >)625*.' 8) >)',)*.*'0*> =)*-*-.'620'>1//6,*-.'1',)*' >;2* 1-? /*5*20.'6-*' >12.,62,/ '1D/5*0',1' ?69*' 2',)* -'182' >1?=;,*0' -*.;/,.' 2',+6, 25';2,/',)* ')6+*' 6-- +*0' 6,'.1?*'.*,,/*0'620'>12. .,*2,')-121/15 'D* 1-*' 8*' 601=;,'6.',)*'D6..' 1-'-*>, 25',)*'*'*.,6D/.)*0'=1 2,.' 1' >-=,;-6/') .,1- % ** ' ! 2' >122*>, 12' 8 ,)' ,) .' 0 .>;.. 12' 6' =6..65*' 1' *?*,-;.'B;0.*;.')6.'D**2'0**?*0' ?=1-,62,'M 12' 4;?=6>)' ' %!'=%R Q X% :*'.**?.',1')6+*'=;', 1-,)'6' >)-121/15 >6/6>>1;2,'1',)*' D/ >6/') .,1-A' -1?' 8) >)' ;.*D;' ' %!'6 !' L' K 'KR'5 +*.'' _;1, 25',' -1?' 1/) .,1-'%8)6,'-*/6,*.',1',)*' =6^ ,-6->).' 620' <1.*.'T 621),)*-' =6..65*' =-*.*-+*0'D ' /*?%' /*L%$ ' 'g' .' 6',.;?*6-'1',)*' =*^ -10'*/6=.*0'-1?',)*' >6=, + ,'1',)*' (*2' (D*.',1') .'182',?*.% ,.';.;D.,62>*'.'6.'1//18.d -1?'*2^ 26>)*-D.' 2+6. 12' 1'B;06)',1',)*' /6.,'0*=1-,6, 12' -1?'B*-;.6/*?'D' *D;>)602*[[6-' KQ' *6-.' ?12,).T -1?',)*'>6=, + ,A'1',)*' (*2' (-D*.',1' ,1/^ *?' 'M) /1=6,1-X' Q' *)-.'R'?12,).'M.1'8>'?;.,' *60'1-' NX'3 -1?' *D;>)602*[[6-.'0*=1-,6, 12' -1?' B*-;.6/*?'NNQ' *6-.'N?12,).% .',)*'*=1>)'1',1/^ *?' ' 2',)*' 6212'.' % %KKK'MK ,)' >,1D*-X',) .' 5 +*.'1-' *D;>)602*[[6-.' /6.,'0*=1-,6, 12J % %SS ' MB;/XT' 1-' *226>)*-D.' 2+6. 12' % % 'MB62%XT' 620'1-',)*'>6=, + ,'1' 6?6-6' % %'SR'MB62%X% ;.' ;2/*..'8*' 6-*' =-*=6-*0',1' .*,'6. 0*',)*' .,-D21? >6/' 6212'6,'/*6.,',.'06,*.'1-' *D;>)602*[[6-I620' + /C ?*-106>)',)*'>6=, + ,';20*-' *D;>)602*[[6-'8)*',)^ *-',' D*',)6,'2') .' R,)' *6-'M//,D'U*0*9 6)X'1-' ,)*' /6.,J' 2') .'KNO' *6-B*-%/ 'N '>6221,' ;// .1'/18'6.' % % S% ()6,',)*' 26/0*=1-,6, 12' .'?*62,' .'=/6 2' -1?',)*'KL6>,'>1--A.=120*2>*'1',)*' .;?'8 ,)',)*' D^ />6/ ,*?. ' :*[*9 6)' T' <626..*)' T' ?12'KT' B1.,6)'N T' B*)1 ;9 ?'NT' *D;>)602*[[6-'KKb KQ' *6-.% ()*'?12,).'1+*-'6-*'=-*)6=.'0*-+*0' -1?' ,)*'N 1 'B*)16)6[' 620'N 1 'B*>12 6)% <%+% *D;)-' ' %'=% '._%'.*,.')?.*/',1'.1/+*',)*0 >;/, T D;',)*'8)1/*'?6,,*-'?6 '*6. /X7D*'*L=/6 2*0'D '62' *--1-' 2',)*'N *226>)*-D' 6// 2' K' :*[*9 6)' ,1/*?' -* *--*0',1% *,' ,)*'516/6,',1/*?' '*M ;*-5*,*.Xb % %'K ' >,% ,)*2' 8*')6+*' 1-',)*' >6=, + ,'1',)*' (*2' (-D*.' K'MB62%XT' 1-' *226>)*-D' 2'B;0.>6' N'MB62%XT' 1-' ,)*' 0*=1-,6, 12' 2' KN' *D;>)602*[[6-' Q'MB;/XT' 620'>12.*_;*2,/' QR' 1-',)*' 0*.,-;>, 12' 1',)*' (*?^ =/*'+*-'2*6-/' 2' 6>>1-062>*' 8 ,)',)*' 06,*' 1-',)*' /6.,'6..52*0'D' /*?*2,' 1' /*L620-6' % % QQ' $ I'g' K % 2' 6>,',)*')-121/15 >6/.,6,*?*2,.' 2',) .'=1-, 12'1',)*'$ '.86-?'8 ,)'2;?*-6>/ *--1-.'620'6'>6-*/*..'.>-D*?5),'*6./'?.-*60'(C ((-' 1-'((((-% *,)6,'6.',?6 ',.' 6'5-*6,'?.,69*',1'.;==1.*',)6,' *?*,-;.'1-'62'1),)^ *-'B*8'1').'1-'/6,*-',?*.'>62'D*>1?=*,*2,',1'-;/*' 6',;*.,12'1',) .'9 20'1-';.% :*'?6')6+*'D**2'6.' <% % *D;)-',)29.''6'.*2.D/*'8-,*-J'M,)1;5)'1,)^ *-.'A;05 25'-1?',)*' -65?*2,.'=,*.*-+*0'D ' ;.*D^ ;.'?6'6-/',)29'1,)*-8.*XT',)6,' D*'?',)6+*)620*0'0182'5110'?6,*-6/.J'.A;.,'=1.. D/*T',)*'=-1D^ 6D/,'.',)6,'D*'5+*.';.',)*.*.;/,.'1')'182'2_;^ -*.'>12 2*0',1',)1',*L,'1',)*'.6>-*0'D119.'*L>*=,' ,)6,')*-*0'-1?',)*' .,-1217>6/ 6212',)1'*6-' >1--*.=120 25',1'KN' *D;>)602*[[6-',)*/6.,'-*>1-0*0' 2',)*.6>-*0'D119.% **%- '! % 2'6-5;?*2,',*20 25',1'/18*-',)*8)1/*,?*1' ,)*'9 25.'620',)*06,*'1',)*'D;'0*2, *.',)1.*')*-* (*?=/*')6.'D**2'0*0;>*0'-1?'.1?*'62>*2,'06,6'1' (-62')-121/15 % B1.*=);.'M>%&%!' 'X'6221;2>*.' ,)6,',)*'D;/0 25'1',)*' (*?=/*'/*.' N *6-.' '?12,).' D*1-*',)*'1;20 25'1' 6-,)65*T)*'5+*.',) .'12',)*' 6;,)1-',' 1' <*2620*-'1' =)*. .'?*62 25').'182' .;?2?6, 12'1',)6,'6;,)1-.'*2;?*-6, 12'1'-*52.'=-1^ *..*0/''>1=*0'-1?'=;D/>'?12;?*2,.% 2'=-11')*' ;1,*.',)*'-*526/2;?D*-.'1',)*'9 25.'-1?':-1 2' ,)*' -*20'1' 1/1?12',1' 5?6/12' 2>/;.+*'*/*++*2' 2'0//'?69 25'6'.;?'M21,')18*+*-'*L=-*..*0X'1' *6-.' '?12,).% :*'600.'-1?') .'6;,)1-' ,'86.' 2',)*.+*2,)' *6-'1' 5?6/12',)6,' /.6'/*0'-1?'(-*'620' 1;20*0' 6-,)65*' 2' D 662 0'

,8 *2 6L6-*.' 620' : 6/ 6,,*. ' 2' 8) >)' ;0*? ; . ' ?1-*' ,)62' ,) *' 06,*' D*') . ' ?*-*/ ' -*=*6,.' : *-101^ ,; .'† D ; ' ,) *' 600 , 12' .' 6.'/ 9*/ ' ,1' D*' /* ? *2, .' 182‰ ( ) *' >/ =.*' 1 ' ( )6/*. ' ,) *-* 1-*' .' D ' 21' ? *62.' .1' >6-0 26/ 62' *+*2,' 6.') 6.' D**2' 6. . ; ? *0† 620',1' ;=) 1/0' ,) *' /11.*' .,6,* ? *2,' 1 ' : *-101,; . ' 2' >122*>, 12' 8 ,)' ,) *' *6-/ *-' 06,*' ‰ ‰ S ' .' 6.'=-*>6- 1 ; .' 6'=-1>**0 25' 6.' .' ,) *' 6, ,* ? =.', 1' ; -5*' ,' 8 ,)' ,) *' /18*-' 620 ' 2' 6// =-1D6D / , ' 6 ' ; ,) *2, >' 06,*' ‰ ‰ Q ',1' ,) *' . ; D+*-. 12' 1 ' ,) *' -*>* +*0' >)-121/15 H -*‰ 1.62_ ; *, ') 18*+*-' 1/1 0.' ,) 6, ' -1 ?' ,) *' , *-, ?12 ' 1 ' ,) . ' *>/ =.*' ,) *-*' .' 21' *.>6=*†" 20' . ; ==1-, 25' ,) . ' ,) *' 6-5 ; ? *2, .' 0*^ .>- D*0' ; 20*-' ,) *' 6D1+*') *60. ' ,15*,) *-' 8 ,)' 1,) *-.' 0*- +*0' -1 ?' 2*8'>1 ? D 26, 12. ') *' 01>.' 21, ') *. ,6,*' ,1' 2,*-=1. *' 7 K ' *6-.' 1 ' > ,) 6,A -; /*' 2' 6D /12J' D*^ ,8**2' 6D1=1/6..6-' 620' *D ; >)602*[[6-',) *-*D '/18^ *- 25',) *' *=1>)' 1 ',) *' /6,,*-' -1?' ‰ ‰ S ',1' R‰ ( ) *' * *>,' 1 ',) . ' . ',1' D- 25',) *' 0*. , -; >, 12' 1 ',) *' (*?=/*',1' ‰ ‰ S † *226>) *- D . ' NO' 620' //*[*9 6) . ' ,)' *6-',1' SQRT' 620',) *' ,)' 1 ' 1/1?12',1' RQR' 1-' R ‰ '>1 ; -.*' ,) . ' 2+1/+*. ' ,) *' 2*>*. . , ' 1 ' *L,*2^ . +*' >)625*.' 2',) *') . ,1- ' 620' >)-121/15 ' 1 ',) *'/18^ *-' =1-, 12' 1 ',) *' ,/ ' >*2, ; - ' ‰ ‰ ( ) ; . ' -; . ' . ' ?60*' 2,1', 81' =*-.12.' 1 ',) *' 26?*† ,) *' -. , ' D*5 2^ 2 25', 1' -* 52' 2' *-. 6' ‰ ‰ R' . ; >>**0*0' D ' 6?C D .*.' 6.' + >*-1 ' N ' M8) >)' . ' ?60*' ,) *' . ' *6-' 1' + /C?*-106>)X' 620' 6.' 9 25' ‰ ‰ KR' ,15*,) *-' 8 ,)' 6' .*>120' -; . ' 6.' A1 2,C9 25' 1 ' <*0 6' 2' N' 6?C D .*. b ‰ ‰ KN‰ ( ) *' /*25,) ' 1 ' -* 52' 1 ',) . ' -; . ' . ' 21,'6 . . 52*0†) *' 0 .6==*6-.' -1?' <-‰ ',6D/*' ,15*,) *-' 8 ,)' 6?D .*. ' 8) 1 ' 8 ,)' ?*-0 . ' D*, 8**2' . ' 1//18*0' 6,' S D ' 6- ; . ' : . ,6.= . ' 6.' 9 25 ' 8) >)' 6- ; . ') 60' D*>1?*' + >*-1E7 2' 6D /12' 620' <*0 6' 2' ‰ ‰ K ‰ . ' .) 1 ; /0' D*' -*?6-9*0',) 6, ' ,) . ' *60A ; . , ^ ?*2, J' 1 ',) *' >)-121/15 ' . ' =-1=1.*0' 8 ,)' 6' + *8', 1' 6' ; / /?*2, ' 1 ' 62 */ . ' -1=) *> ' 1 ',) *' *+*2, ' & **9.' ID(h" ! ' " ' - ' ' 1' 6/ 1' '7 + "1' ' $ X ' 26?*/ ',) *' =-*0 >, *0' . *+*2, ' A 7*6-.' 1 '0*.1/6^ , 12' -*6>) ' -1?',) *' 0*. , -; >, 12' 1 ',) *' (*?=/*' ‰ ‰ SS ', 1' ‰ ‰ R †',) *' 06,*' 1 ' 62 */ . ' =-1=) *> ' 2',) *' -. ,' 6D /12 62' *6-' 1 ' 6- ; . ' : E!. , 6.= . ' ,) *2' SK' *6-. ' 1/0J M 62‰ + ' X' . ' ?60*' ‰ ‰ RN' 8) *2>*', 1' ,) *' D -,) ' 1 ') - . , ' 8) >)',) *' 6 ; ,) 1-' =/6>*. ' M8-125/ X' 2' ‰ ‰ N' 6-*',) *' . *+*2, ', ?*. ' . *+*2' *6-. ' 1-*, 1/0† 6/.1',) . ' *6-' RN' . ' , .*/ ',) *' 516/1 '62' *6-/ *-' =*- 10' 1 ' R ' *6-. ' -*>912*0' -1?' ‰ ‰ RQN' <-‰ . ' 06, *' 1 ' ,) *' 0*0 >6, 12' 1 ' 1/1?12 . ' (*?=/*‰ 1' *L, *2. +*' 6' -* 6.) 12 25' 1 ',) *') . , 1- ' 8 //) 6-0/ ' D1' 6>>*=, *0' 12' ,) *' . , -*25,) ' 1 ',) *' 6//*5*0' =-11 . ' *. =*> 6// ' 6. ' ,) *' =-1=) *> ' 1 ' 62 */ ' 2' _ ; *. , 12' . ' , . */ ' . ; . >*=, D/*' C1' 6' D*, , -*-' >) -121/15 >6/ . 1/ ; , 12‰ ( ) . ' + *8' 86. ' D1/0^ / ' 1//18*0' 1 ; , ' 2' 521-62>*' 1-' . >1-2' 1 ' 6// 4*2, /*' >)-121/15 ' D ',) *' -6?*-. ' 1 ',) *' B*8 .) ' < ; 2062*' ; -6‰ . . ; ? 25',) 6, ' 6' =*- 10' 1 ' R ' *6-. ' -*>) ' -1?',) *' ‰ ‰ RQN' <-‰ . ' 06, *' 1 ' .*>120' 8) >)' /6, , *-',) *' . *, ' 6, ' ‰ ‰ SR' M6' *6-' , 11' *6-/ X' ,) *' 1D, 6 2*0' 1-' R' *D ; >) 602*[[6-' b ' U*0*9 6) ' ,) *' *6-' ‰ ‰ KK' M8) >) ' 2' =-1 62*' >)-1C' 21/15A7‰/*.' 2',) *' -* 52' 1 ' 6, -; ' 1,) ; . X‰ 2' / 9*' 5-1 ; 20. ' 5), 11, ' 01*. ' 21, ') *. , 6, *', 1' =/6>*' ,) *' -. , ' *6-' 1 ' -; . ' R ' *6-. ' D* 1-*',) *' 6. . 12' 1-' 8) >)') . ' 06, *' . ' ‰ ‰ NN‰ -1?',) . ' *6-' \ ‰ ‰ Q H', 1' ,) *' 0*6,) ' 1 ') - . ; 6-*' R ' *6-. ' 620',) *. -*' . ' 21' >6; . *' D*>6; . *' 1 ' 01; D, ; / -*>1-0. ' 6?125',) *') *6^ ,) *2', 1' ? 69*' 6' 01; D, ' 1 ',) *' L*02*. . ' 1 ',) *' , ?*' 8) >)' 62' 625*/ 1 ',) *' 1-0') 60' -*>1-0*0' 8 ,) ' . 1 ' ? ; >)' *L6>, 2*. . J ' > *' ' " ' , ' - ' 2' + 1' ' N KX‰ ' /6, *' 21D/*' 8 - , *-' M ; 9*' 1 ' < 62>) *. , *-' ' ' '" ' - ' Q X' 8 ,) ',) *' / 9*' *20' 2' + *8 ' 0*2, *. ' .) *' 6- ; . ' 1 ' [-6' : 6556 ' 620' U*>) 6- 6) ' 620' 1 ' 62' + ' M?60*' 0 *-*2, ' -1?') ?' 1 ' + ' X' 8 ,) ' 6- ; . ' 1,) ; . ' † 620' 2' 1-0*-', 1',) . ' -*. ; /, ' . *, . ') ?. */ ', 1' .) 18',) 6, ' ,) *' 1 ; 20*-' 1 ',) *' *-. 62?12^ 6->) ' 8) 1?',) *' 4-**9. ' >6// -; . ' . ' 2' 6>, ' *D ; C‰ >) 602*[[6-' 7) *' 6D1=1/6..6-' 1 ',) *' 6212X' 1-',) *' 1 . ? /J' 620',) *') 6/06*62. J' 6-*',) *' .6?*' =*1^ =/*†) . ' .12' 6?D . *. ' . ',) *' *D ; >) 602*[[6-' 1 ',) * D/*' 0*. , -1 *-' 1 ',) *' (*?=/*† */.) 6[[6-' . ',) *' /6. , ' 9 25' 1 ',) W A ($ ' 0 26. , ' 6, ' 6D /12†) . ' >12_ ; *-^ 1-' ' 6- ; . ',) *' < *0* J' 62‰ + ' ' . ' 6- ; . ' : . ,6.^ = . '† 620',) *' D/ >6/ 1-*.) ' ,) *' -*. , 1-*-' 1 ',) *' B*8 . ' M620' -; . ' 1 ‰ d*21=) 12 ' 6/, 15*,) *-' 0 *-*2, ' -1?') ?' 1 ' : *-101, ; . ' 620' . *. 6. X' . ' 6' .6, -6=' 1-' *; 06, 1- ' 1 ' d*-L*. ' 620' -, 6L*-L*. ‰ ,-625*', 1' .6 ' ,) . ' 8 /0' . =*>; /6, 12 ' 8 ,) ' ,. ' =1-, *2, 1 ; . ' >125/1?*-6C 12' 1 ', *., ?12*. ' .6>-*0' 620' =-1 62*' 62> *2, ' 620' ?10*-2 ' 5*2; 2*' 620' . =; - 1 ; . ' M>12. = >; 1 ; . ' 6D .-, 6-6=' 1-') ,) *. *' ,) *') /1J' 620' <*56. ,) *2*. J' 1 ',) *' ?=; ^ 0*2, ' 1-5*-' 22 ; . ' 1 ' , *-D1X') a . ' 21, ' 12/ ' D**2' 5-6+*/E ' / . , *2*0', 1' D ' . >) 1/6-. ' 1 ' 4*-?62 ' D ; , ') 6. ' 1 ; 20' 6?125',) *?' [*6/1 ; . ' 60+1>6> ' 620' ; - ,) *-62>*' M D-6-0' 2',) *' -+ !'$ ' ! ') + ' Q †' < *, [9* ‰ ' ' ? "P' ' ! ' 5 " ' ' ' " ' ' ; . ' * ' ' ' . 'D ' Q RX‰ **' #' " ! ' , ' .) 1 ; /0') 18*+*-' D*' -*^ ?6-9*0',) 6, ! ,) *' 0*2, >6, 12' 1 ' [-6 . ' 6- ; . ' 8 ,) ‰ 1,) ; . ') 6. ' >1?? *20*0' , . */ ' M . , // 8 ,)' 6' + *8', 1' 62 */ . ' =-1=) *> X', 1' ?1-*',) 62' 12*' *? 2*2, ' 8- , *-‰ -1=1. *0' D ' >6/ 5*-' , ' . ' 60+1>6, *0' D ' ,) *' /6, *' -‰ < // M 2') . ' - ' " ' ' ' ' ' ' E'$ ' Q K' =‰ NX‰ **' $! R‰ &% %" ' ; + ' " ' , ' - ! ' ' M ‰X' ( ) *' 119' 1 ' - " ' M_‰ +‰X' >12, 6 2. ' 62' 1 ' ; / 2*' 1 ' .. -C 62') . , 1-E ' M -1?',) *' 0*=1-, 6, 12' 1 ',) *' (*2' (- D*. ' , 1' ,) *' 6// 1 ' 2*+*) X', 1' 8) >)',) *' ?1-6/ >, 12' . ' 6, ^ , 6>) *0' M -182*' , ' $! ' =‰ S ' 21, *† *D ;) - ' ? "!' & ! ' =‰ ' 21, *† 1 ?' =‰ - , [. >) *' ' ; +' - " ' Q N' =‰ ' . _ ‰† 86/0' ? "!' ' N!' ! +' KNN' . ‰X‰ (1', -*6, ' , ' 6. ' 26--6, +*' 1 ' 6>, . ' 620' 6==/ ' , ' , 1' =; -=1. *. ' 1 ' >)-121/15 >6/ =-11 ' 6. ' .1?*' *+*2' -*^ >*2, ' 8 - , *-. ') 6+*' 012*' M*' 5‰ 12' 4 ; ?=6>) ' ; (*' ! . ! ' =‰ NQX' . ' _ ; , *', 1' ? . , 69*' , . ' >) 6-6>, *-‰ ' MK‰X' . ' -*56-0. ' ,) *' 119' 1 ' D "' M_‰ +‰X' , ' . ' ; -=- . 25' ,) 6, ' 62 ' 12*' >12+*-. 62 ' 8 ,) ') . , 1- ' 620' >- , > . ?' .) 1 ; /0' 6 / ', 1' . *',) 6, ' ,) . ' . ' 21, ' 6' -*>1-0' 1 ' 6>, . ' D ; , ' 6' -*/ 5 1 ; . ' _ ; 6. C=-1=) *, >6/ 6//*51- ' I , ' $! ' =‰ S ' 21, *† - , [. >) *' 1 ' ; ! ' D " ' =' KN' . _ ‰† 86/0' ? "!' ' N!' ' +' ‰ **' 6/.1' <1+*-.' 2',) *' ; ! ' . " ! ' + " ! ' -+ ' QN ' =‰ X‰ *' D ;) - ' 6>9218/*05 25',) . ' M8‰ ! ' =‰ K KCKQ X' 2*+*-, / *C' /*. ' 20. ' 2', ,' 06, *. ' 6>>1-0 25', 1',) *' 6, ‰ +*-. 12' 6' D6>95-1 ; 20' 1 ') . , 1- >6/ , -; ,) ' 8 ,) ' -* *-*2>*', 1',) *' , ? *. ' 1 ' *D ; >) 602*[[6-‰ 4 ; ?=6>) ' I ! ' ! =‰ S ' . _ ‰X' ?6 2, 6 2. ' , ') . , 1- >6/ >) 6-6>, *-' 620' 6==/ *. ' , ' , 1') . ' 182' =; -=1. *. ' 8 ,) ' *L, -61-0 26- ' >12 0*2>*' M. ** 6/.1' >) 1/[' 6 ' ' '" !'$ " ' Q X‰C7MN‰X' 2' ,) *' D119. ' 1 ' ' M_‰ +‰X',) *' *6-. ' 6-*' -*5 ; /6-/ ' >1 ; 2, *0' ; 20*-',) *' 26?*' f' * ' ; O ' ' I d C E>fN 8 ' ? *62 25',) *' /*-6' 1 ',) *' */*; >0. *' D*5 22 25' 2',) *' 6 ; , ; ? 2' 1 ' ‰ ‰ N KT *L>*=, ' ,) 6, ' 2',) *' -. , D119',) *' *=1>)' . ' ? 60*' . 62' 1 ',) 6, ' *6-' 8) /*' 2' ,) *' .*>120' D119', ' . ' (. -' 1 ',) *' 1//18 25' *6-' ‰ ‰ N ‰ ‰ *‰ * 5), **2' ? 12,) . ' /6, *-‰ ( ) . ' 8) >)') 6. ' D**2' . ; * *2, / ' =-1+*0' D ' *6-/ *-' 8 - , *-. ' M. **' 0*/*-' # ! ' " ! ' N ' . _ ‰† , ' $! ' g' C KX' . ' >12, *. , *0' 12' 260*_ ; 6, *' 5-1 ; 20. ' D ' 12' 4 ; ?=6>)' I . ' ' " '&"" ! ' QS X‰ ‰ 7 =- ' " ‰ ' ( ) *' 41. =*/. ' 620' >, . ' 1 ',) *' =1. , /*. ') 6+*' M8 ,)' 12*' *L>*=, 12' ; 9*' ' X' 21' *L=-*. . ' 06, *. † 2',) *' 6D. *2>*' 1 ',) *. *' >)1?^ D 26, 12. ' ?1-*' 1-' /*. . ' =-1D6D/*' 6-*' 6// ',) 6, ' ,) *' >)-1C' 1/15 . ') 6. ' , 1' 51' D ‰ ‰ 1-' 7 ' M_‰ +‰X',) *' > , *- 1-' / ? , ' . ' ; -^ 2 .) *0' D ' ,) *' 0*6,) ' 1 ' : *-10' M<6, , ' ' ' RT' ; 9*' X',) *' *6-' 1 ' 8) >)' *+*2, ' 6. ' , ' . ' 218) *-*' 26?*0' D ' B1. *=) ; . ' 1-' 62 ' 1,) *-' *L, 6 *) . , 1- 62 ') 6. ', 1' D*' 0*, *-? 2*0' D ' +6- 1 ; . ' > ->; 2 ,, 62>*. ‰ ( ) *. *' 6-*',) *' ? *2, 12' * ' 62' *>/ =. *' 1 ' ,) *' ? 112' 21, ' /125' D* 1-*' , ' I & ! ' L+ ' ' ' 2‰ W 8) *>) ' D ' >6/>; /6, 12' >62' 12/ ') 6+*' D**2',) 6, ' 1 ' < 6->)' KC N' ‰ ‰ T' ,) *' /*25,) ' 1 ' : *-10 . ' -* 52', 15*,) *-' 8 ,) ',) *' -*>1-0*0' 06, *' 1 ' , . ' >1?? *2>* ?*2, ' I & ! ' L+ ' T' >1?=' L + ' ' T' S' X' 620' 1 ',) 6, ' 1 ') . ' .12. ' ->D*/6 ; . ' I & ! ' L+ ' N NT' >1?=‰ ' ' ' NX',) *' >12. ; /6-' *6-' 1 ' 8) 1. *' 0*C



( ) .'/6.,'f+6.' ; .*0'D* 1-*' ,)*' 60+*2,'1 '1 ; -' 1-0 '620 ' D* 25' 1//18*0'D ' ,)*' 4-**9' 6,)*-.' 1 ',)*') ;->) ' 86.' 5*2*-6// ' >; --*2, ' , // ' 2' ,)*' * 5),)' >*2,;- ' 6' 0 .=1. , 12',1' *L>)625*' ,' 1-',)*' 6DD 2 >6/' ?*,)10' 1 ' -*>912 25' 86.' -.,' ?62 *.,*0'D ' ,)*' +*2*-6D/*' *0*% 1?62' 6,)1/ >' 6;,)1-. ')18*+7*-')6+*' ; .;^ 6// '601=,*0',)*' /6,,*-' -1?',)*' 2 /;*2>*' 1 ',)*' 6, 2' ;/56,*' 8) >)' .,- >,/ ' 1//18.' ,)*' : *D-*8' 2; ?D*-.% .66>' 1.. ;.' 2') .' ,-*6, .*' ' ' N ' 6 ' ' M : 65% S R ,1X' 86.',)*' ;.,'1 '62 ' 21,*' 8)1' 1-.119' ,)*' : *D-*8' 06,*.% *[-12' 2') .' + X-9 2& 4 ' ' - ' 1 ' ' D * ' ' ' 1' ' + ' M ?.,% SQ ' K?1X' =-10 ;>*0' 6' 5-*6,' ?=-*.. 12' 2' 6+1-' 1',)*' /*25,)*2*0' =*- 10' 60^ +1>6,*0'D ' 1.. ;.' ,' 86.' 21,') 18*+*-' , //' ,)_' ? 00/*' 1 ',)*' /6.,' >*2,;- ',)6,'B6>9.12' =-10 ;>*0') .' 5-*6,' 81-9',)*' " ' & 4 ' M 120% K' N+1/.% ,1X% : *' 60+1>6,*0',)*' /125*-' >)-121/15 ' 1 ' ,)*' *=,;65 2,% 2',)*' D*5 22 25'1 ',)*' =-*. *2,' >*2^ ;-' -% : 6/*.' =;D/ .)*0',)*' -.,' +1/; ?*' 1 '6'/6D1- ^ 1;.' 81-9' *2, ,/*0'&' 7 ' & ' ' " 1' 62' ;20*-,69 25' 8) >)' ;/, ?6,*/ ' *L,*20*0',1' 1 ;-' +1/^ ; ?*. ' >) * / ' 2' >12 -?6, 12' 620' //;.,6, 12' 1 ',)*' >12>/;. 12.' 1 'B6>9.12 ' <-% 6D*-' 2') .' 81-9' 12' =6562' 01/6,- ' 1 *-.' .1?*' A ;0 > 1 ;.' 1D.*-+6, 12.' 12' ,)*' >)-121/15 ' 1 '62> *2,') .,1- ',-*60 25' 5*2*-6// ' 2' ,)*' 11,.,*=.' 1 ' : 6/*.% ()*' , ' 1 ' -' & /^ / 6?' -; ? ?120' =-1>**0.' 6/.1' 12',)*' 5-1 ;20' .; ==/ *0' D ',)*' *=,;65 2,' >)-121/15 % ' 0*,6 /*0' ..,6,*?*2,' 1 '5-1 ;20.' 1-' 60? ,, 25',)*' 6 ;,)1- , ' 1 ',)*' *=,;6^ 5 2,' 2'=-* *-*2>*',1',)6,' 1 ',)*' 1- 5 26/ : *D-*8' 2 6 ' D*' 1 ;20' 2' 6 =-*/ ? 26- ' 0 ..*-,6, 12' =-* L*0',B',)*' -.,'+1/;?*' 1 ' -% < >)6*/ ;..*// .' 2 ' $ 9 ' ' ' # 1 ' ' " ' ' "' ' D " ' ' " ' ' ' ' ' " ') ' ' D "'M 120% QK ' N'+1/.% Q+1X% K% $=12',)*' 06,6' 8*')6+*' >12. 0*-*0'6D1+*' ,)-*10;.',1',)*' 1;206, 12' 1 ' 1/1?12 .' (*?=/*' $.)*-' =- 2> =6/' . .,*?.' 1 ' D/ >6/')-121/15A7')6+*' D**2' 1;20*0'8) >)' ?6 ' D*' ,*-?*0',)*' 125' !.,*?',)*')1-,' 620',)*' 6DD 2 >6/% //' 1-' 6/?1.,' 6// ')6+*' *--*0'12',)*' . 0*' 1 '>/6 ? 25' 1-',)* -'-*.;/,.' 6' 5-*6,*-' 6>>;-6> ',)62',)*' 26,;-*' 1 ',)*' *+ 0*2>*' ;=12' 8) >)' ,)* ' -*..*0' -*20*-*0' =1.. D/*' 21,)*-' 6 / 25' 1' ,)*.*' >)-121/15*-.' .' 6',*20*2*A',1' 6>>*=,',)-1;5)' 6' 9 20' 1 ' 6/.*'626/15 '/125'1-'.)1-,'2;?D*-.' 620' >1?^ =;,6, 12.' 1-' 2,*-+6/.'-6,)*-' 6>>1-0 25' 6.',)*')6+*' 601=,*0',)*' /125' 1-',)*' .)1-,'-*>912 25' 1',)*' =6,- ^ 6->)6/' 5*2*6/15 *.',)62' 12' 6' >12. 0*-6, 12' 1 '.=*> 6/ *+ 0*2>*% ' .'6.',)1;5)',)*' '8*-*'-*.1/+*0',1' ?69*' ,)*' .;?' 6.' 5-*6,' 1-' 6.' .?6// 6.' =1.. D/*% ()*' 6D^ D 2.')6+*' 2',)*-' >)-121/15 ' 6 1-0*0',)*' .,-125' 1.*' *L6?=/*' 1 ',) .' *--1-')6+ 25' .1' .)1-,*2*0',)*' 2,*-'C 5[' 6.' *+*2' *5-*5 1;./ ',1',)-18' 1;',)*' 06,*.' 1 ',)*' , ?*' 1 ',)*' *-. 62'-;/*% ()*' 4*-?62' .>)11/ .')*-*' 62' *L>*=, 12' 1-' ,')6.' 5*2*-6// ' 6//*2' 2,1' 62' 1==1^ . ,*' *L,-*?*' 620' -*_; -*0'6' 6-'5-*6,*-', ?*',)62' 62 7 0*- +6D/*' -1?',)*' D/ >6/' 2; ?D*-.' 1-' ,)*' *6-/ *-' 65*. ' 8) /*',69 25',)*' 6DD 2 >6/' 06,*' 1 ',)*' L10;.' 620' .1')6.' =;,',81' =1-, 12.' 1 ',.' >)-121/15 ' 2' + 1^ /*2,' >12,-6.,% & *' 01' 21,' /6 ' ?;>)' .,-*.' ;=12',)*' 1= 2 12.' 1 ',)*' *6-/ ')- ., 62' 8-,*-.' 1-' *+*2' B1.*^ =);.'d ,)* -' ?*,)10' 86.' ;2>- , >6/' 620',)*' '6>>*=,*0' ,)*' 2; ?D*-.' D*.,'92182',1',)*?' 8 ,)1;,' 62 ' **/ 25' 1 '01;D,% ()*' >) * ' 60+1>6,*.' 1 ',)*' 125')-121/15A7' 6-*' B6>9.12 ' : 6/*.' 620' *.' 521/*.' ()* ' ,69*',)*' *=,' 1-' ,)*' =6,- 6->)6/' 5*2*-6, 12.' 620' 601=,',)*' /125' 2,*-+6/' -1?',)*' L10;.' ,1',)*' 1;206, 12' 1 ' 1/1?12 .' (*?=/*% ()*' 6D^ D 2 >6/')-121/15 ').' /6,*&' >1?*' 2,1' ?>)' 21, >*' -1?' ,.' =6-, 6/' -*>*=, 12 ' >) * /E7 D ' 0)*' 4*-?62 .>)11/% ,' 6>>*=,.',)*' D/ >6/' 2; ?D*-.' D;,' ?69*.' ,)*' ?1.,' 6-D ,-6- ' >1--*>, 12.% 1-',)*' 06,*' 1 ',)*' L10;.' ,')6.' + -,;6// ' D***2' 6>>*=,*0' D ' ;2.*2' *=. ;.' 620' 1-0' % #Y ' ()*' . .,*?' 1 ' ;2^ .*2' 8*' ?6 ' -*56-0' 6.' >12., ,;, 25' 6' 1;-,)' >/6..' 1 ' ,.*/ ' D6.*0' ;=12',)*1- *.' 21,' 12/ ' 20*=*20*2,' 1 ' D;,' -*=;5262,' ,1',)*' D/*% 1-',)*' , ?*' D* 1-*',)*' L10;.')*' 0 .>6-0.' 6//' D/ >6/' >)-121/15 >6/' 06,6' 620' -*6.12.' 6/,15*,)*-' 6.' ,' 6==*6-.',1' ;.' 12' =) /1^ /15 >6/' >12. 0*-6, 12.% * 1C $.)*-% : 6/*.% -*6, 12' 1 ' 06?%% %' N QN K 1-T K ' /110▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒ KNK KN Q N N/ > -% D-6?'/*6+*.' //6-62% G K K Q K KN N M<Q RN NK 1;206, 12' =' (*?=/*' ? K K K # *.,-;>, 12' 1 ' (*?=/* .6 7 Q SQ 2',)*' =1.,C0 /;+ 62' =*- 10' : 6/*.' -*A*>,.',)*' *>120' 6 262 ' 620' -*>912.' (*-6) .' 65*' 6,' D-6? .' D7-,)' N ' 2.,*60' 1 ' ' *6-.T B6>9.12' 6>>*=,.',)*' *>120' 6 ^ 262 ' 620' 01*.' 21,' ?69*' 62 '>)625*' 2',)*' .*>120' >6.*T $.)*-' 620' *,6+ ;.' 1//18',)*' : *D% ');',)*' 1-?*-' 6/,*-.' ,)*' 5*2*-6, 12' 1 ' (*-6)' 8) /*',)*' /6,,*-' 01*.' 2*,% ;2.*2'-*_; -*.' ' 1-',)*' 16>) 62' =*- 10' 6D1;',*2' ? //*2 6' D* 1-*' 1;-' .*-6' 620' 1-',)*' D*5 22 25' 1 ' 1;-' -6>*' 621,)*-' ,*2' ,)1;.620' A *6-.' 1-' +*-' / ,,/*' ?1-*J' I , ' ' KX% ()*.*' >12>/;. 12.' 2*>*.. ^ ,6,*',)*' 6D62012?*2,' 1 ' 6//' D*/ *' 2',)*') .,1- >6/ >)6-6>,*-' 1 ',)*' D/ >6/' 6>>1;2,' 1 ',)*' , ?*.' D* 1-*' D-6)6?% ()*' 8-,*-' 01*.' 20**0' .=*69' 1 ' 6>,.' 620',-60 , 12.TJ') .' 6>,. ')18*+*-' 6.' 6-' 6.' 8*' >62' =*->* +*' 6-*',)*' -*.;/,.' 1 '6',)*1- ' 1 '/625;65*' 620' ,-60 , 12' .' -1?' ,.' 26,;-*' 2S' 5; 0*' 2' >/ -121/1=E% ,' .')18*+*-' >*-,6 2',)6,'21')*? , >' .>)1/6-')6.'6>^ >*=,*0' ;2.*2 .',)*1- % 1-',)*' , ?*' -1?',)*' L^ 1;.',1',)*' 1;206, 12' 1 ' 1/1?12 .' (*?=/*' $.)*-' 6/12*',697.',)*' Q ' A7*6-.T ',)*' -*.,' 601=,' /125*-' =*^ - 10.' 6>>1-0 25',1',)*-' *L=/626, 12.' 1 ',)*' 1,)*-' 2;?D*-.' 1 ',) .' 2,*-+6/T D;,' ;2.*2' >6/>;/6,*.' / ' 5*2*-6, 12.% ()*'=*- 10' 1 ',)*' 9 25 7' -1?',)*' 1;20^ 6, 12' 1 ' 1/1?12 .' (*?=/*' .'+*-A!' 2*6-/ ',)*' .6?*' 2' ,)*' >1?=;,6, 12.' 1 ' B6>9.12' $.)*-' 620' *,6+ ;.a' : 6/*.' /*25,)*2.' ,'D ' .;==1. 25' 62' 2,*--*52; ?' 1 ' ' *6-.'6 .*-',)*' 0*6,)' 1 ' ?6[6)T ;2.*2' .)1-,*2.' ' D '-*0;> 25',)*' -* 52' 1 ' <626..*)' -1?' ',1' 'A*6-.% ()*' 1-?*-',)*1- ' .' ?=-1D6D/*' 620' ;2>- , >6/T ',)*' /6,,*-' .' ?*-*/ ',)*' -*. ;/,' 1 '6' .;==1.*0' 2>>*.. ,A N% ()*'D*..',6;,)1- , *.' 12' >)-121/15A' 2' 5*2*-6/' 6->' 0*/*-.',)1-1;5)' # "' !' " ' ' 2 " "!' " ' ' M *-/% QQ X% ()*' ?*,)10.' 620' -*. ;/,.' 1 ',)*.*' 81-9.' ?1.',=*-, 2*2',1' D/ >6/' >)-121/15E'6->' 6/.1' =;-.;*0' 2',)*' -.,' =6-,' 1 ' -182* .' *L>*//*2,' , '$ " ' M 120% Q 7% 1?=!<6,[96' " !' ! ' /#% " ' M& *2' Q X% B6-+ . .' !' ' " ' # ' ' " ' " " M % % 620' 120% Q X .' 6' ;206?*2,6/' 2^ +*., 56, 12' 1 '62> *2,'.*-6.' 8 ,)'-* *-*2>*',1',)*')- .^ ,6 2' 620' .' -*?6-96D/*' 1-',)*' *+ 0*2>*' ,)*' 5 +*2' 1 '62' *--1-' 2',)*' 1?62' 6226/.' D*,8**2' % % ' 620' % % S ' 2' >1=.*_;12>*' 1 ' 8) >)',)*' 6;,)1-' >6-- *.' *+*-' *+*2,' D*,8**2' ,)*.*' =1 2,' 12*' A >6-' 6-,)*-' D6>9% ' . 21=. .' 1 ',)*' 6-5;?*2,' .'5 +*2' 2' ,-125 .' # ' 6 % ' ' + ' ? % ' M % % Q KX' =^ =*20% % 2*' 1 ',)*' *6-/ *.,')- ., 62' I .,*?6,>' >)-121/1^ 5 *.' .',)*' ' 1 'B;/ ; .' - >62 ; .' M 2',)*' 0' >*2 %X' 1 ' 8) >)' 12/ ' 6' *8' -65?*2,.' -*?6 2%' 2^ 1,)*-' .',)*' " ' 1 ' ; .*D ; .' M ,)' >*2,%X' 1 ',)*' 6, 2',-62./6, 12' 1 ' 8) >)' D ' B*-1?*' 62' *0 , 12' 8 ,)' `21,*.' 86.' =;D/ .)*0' D ' >6/ 5*-' 2' Q' 620',)*' -?*2 62' +*-. 12')6.' . 2>*' D**2' 0 .>1+*-*0' 620' =;D^ / .)*0'8 ,)'6' 6, 2',-62./6, 12'6,' *2>*' Q Q% ()*-*' .'6/.1'6' 6?1;.' =62 .)' >1?*2,6- ' ;=12',) .' >)-02C >/*D ' / 12.1' 1..6,1'M 6/6?62>6' S '71/.% 1DX% ()*' " ' ' M*O% ; -*.2*' 6-% SQR' 1D' 620' D ' 201- ' 122' QNKX' .' 6' [62, 2*' 81-9' 6-C

620' .6/,' =*-)6=.' 8 ,)' 1 /' 620' .1?*, ?*.' 8 ,)'= ; /. *† - . %J' : 1' 0 *0' 12')16-0' ,) *' .) =' 12') .' -*, ; -2', 1' ^ . 25'6',)629.5 + 25') ?2 '620'/6 ',)*? .*/+*.' 12',) * -' =-; .' M NX% ( ) *1=) /; .' 218' =-1>**0*0' ,1' 12..62, ^ =6//*,.' 1 '..-68' 8 ,)1 ; ,'>6-* '5- * '1-' ? ; -? ; -'‡ &) *2' 21=/*' 2' =*-.12 ' 620' 6,' 12>*' 6==*6-*0' 6.' 6>>; .*-' 620' 12*' 0 *.',)* %.6 ' ` : *' .' =*- *>,*0TI' 620',) * '6//=-6 ' ' A ; 05*' 1 ')- .1.,1?% : *' 8*// 92*8') 18', 1' ; .*',)*' 410' 1-'6'/ 9*' *20 ',) 6,',) * '6/.1' ?6 '>1?*', 1',) *' *,*-^ ' 0 ..6, . 6>, 12' 1 ',) *' >/*-5 ' 1 ',) *' *?=-*..' ;01L 6 26/' 6DD6,)C-*..' 620',1',) *' + . 12' 1 ')- .,%J ' 620' 1 ',) *' >1; -, '8 ,)')- .1.,1?' 12' 6>>1; 2,' 1 ') .' 2',) .' =*- 10') *' >1?=1.*0') .' *6-/ *.', 8 - , 25.' 2' ? 1-6/ .*+*-, ' 620') .' D1/0' 0*2; 2> 6, 12.% 2')-A C' =-6 .*' 1 ' ?126., > . ?' 620' >*/ D6> ' 620') .' , 81' /125' .1.,1? .' 182' 0 1>*.*' 12' 62' *-,6,*' 6,' ,) *' 169J' M. C' /*,,*-.' ,1',) *' 6//*2' ( )*101-*' M.; D.*_ ;*2,/ ' D .)1=' 1 ' 210; .' 60' _; *->; ?X' 2')6/>*012') *') */0' 6' .*>-*', <1=. ; *., 6X' 8)1')60' -*5-*,,*0') .' ?126., >' +18' 620' >1; 2> / 1 ',) -, C. L' D .)1=.' 656 2.,')- .>.,1? ' *20' -*.1/+*0', 1' -6677 7')- .1.,1?' -*56-0*0',) .' .? 6//' ,) *-*' =-1>; -*0' ; =12' 6/.*' >)6-5*.' 1 ' ? ?1-6/ , ' ; 2C' 6 6 -' -1?',) *' 6.>7 >' .,620C=1 2,' 1 ') .'65* '6.'6/?1.,' ; ->)) C>120; >,' 620') 5) ,-*6.12 ') .'0*=1. , 12' 620' *_; 6/ ,1' 62' 6=1.,6. ' -1?')- ., 62 , '62 / =/ *0' 6//' D62 .) ? *2,' 2' N% ?> , 5',) *' ,8*2,A7C2 2*' >)6-5*.') .' 1-6,1- >6/ 6-,.' 1 ' .60' . ?=6,) ',*20*-' *2,-*6, ' 8*-*' ,) *. *á ,) 6,')-A7.>.,1?' >6//*0',) *' .6 2,' = =)6^ D ,,*-' -*=-16>) ' 620' ,*-- D/*' 86-2 25', 1' -*>/6 ?') .' 2 ; .' 6' 11/ 620' 0*?12†' ,) 6,') *' 8-1,*' 6' 119' ; // 1' - *20', 1' 8) 6,') *' ,) 1 ; 5) ',) *' . ; -*. ,' 620' .6 *. ,' 86 ', 1' 6D; .*' 1 ',) *' I>/*-5A7' ,) 6,') *' -*>* +*0' + . ,' -1?' *^)*6+*2% ?6/*.' 8 ,) 1 ; ,' 8 ,2*. . *. †' ,) 6,') *' D6,) *0' 6/12*' 620' 6,1' 6/12*% ' *L>*.. +*' .*/ C?1-, >6, 12')- .1.,1?' ; 20*-^ ' Γ 3 ? 2*0') .') *6/,) ' 620' -*, ; -2*0' 6D1 ; ' NQM ',1' 2, 1>)% ')- .1.,1?' 86.' -*>6//*0' 20**0' 2' ,) -**' 06A .' 2' ( ) *-*') *' 86.' 1-06 2*0' 0*6>12' D ' < */*, ; .' M8) 1' 0 *0' >12.*_ ; *2>*' 1 ' 62' *6-,)_ ; 69*' 620' ,) *' 0 ..6, . 6>, 12' 2' NQ X' 620' =-*.D ,*-' D ' /6+ 62' 2' NQ % ') .' */1^ 11 ',) *' =*1=/*' D ; ' +6.' 656 2' >120* ? 2*0' D ' 6' >1; 2> / _; *2>*' 620' .' =; -*' 620' *6-2*.' >) 6-6>, *-') *' .112' 6>^ 2' ' 620' D62 .) *0' -1?' ,) *' >1; -, 'D*>6; .*' 2>*2.*0' _; -*0' 5-*6,' -*=; , 6, 12' 620' ,) *' /1+*' 1 ' ,) *' 8) 1/*' D ',) *' *-*>, 12' 1 ' 6' . /+*-' ., 6, ; *' 1 ' ; 01L 6' >/1.*' ,1' >) ; ->) % ; - 25',) *' . L, **2' 1-' .*+*2, **2' *6-.' 1 ') .' =1 6% 620' D ',) *',) *6, - >6/ =*- ZT-?C' /6/ 1-.' 2' 2, 1>)') *' 8-1, *',) *'5-*6, *-' =6-.' 1 ') .' : 1?^ 62>*.' >122*>, *0' +,)' , ') *') 60' +,)' ; 28 .*' 620' ; 2^ / *.' 620' 1? ? *2,6- *. ') .' 81-9' 12',) *' - *.,) 110' 6' A; ..' *L655*-6, 12' 1=*2*0' 6' .*-? 12' 12' < 6-9' ' '. %' >12.1/6,1- '*= ../*', 1',) *' 0*.=120*2,' ,65 - ; .' 620' 62' 2' >1? ? *? 1-6, 12' 1 'B1) 2',) *' 6=, .,' +,)',) *' =*-.12^ 60? 12 , 12', 1' 6' 1; 25' 8 018' 12',) *' 5/1- '1' 8 018^ 6/ 6//; . 12' 56 2' : *-10 6.' -65*.' 656 2' .) *' -6+*.') 110' 620', / *' 0; , '1 '>12, 2; 25' 2', % / *' 0 .6==-1+*0' 656 2' .) *' 062>*.' 620' 656 2' .) *' 0*?620.',) *') *60' 1 ' .*>120' ? 6-- 65*' 21,' 6.' . 2 ; /' 1-' //*56/' D ; ,' 6.' 2>12C' B1) 2' \ ) -A .1.,1? .' 182' 26? *h' ; =12' 6' >) 6-5*-J' M 1>C' . L.,*298 ,) ' 62' 0*6/*>12>*=, 12' 1 ' ? 6-- 65*' 620' 6/) 5) ' -6,*. ' # !' 6 0' + ' >% QX% -1?') .' *L /*' 2' ; >; C' 1-0*-' 1-0*.=120*2,' ' ; ;.' 620' -6D . . ; .') *' >1--*.=120*0' 8 ,) ' 6// =6-,.' 1 ',) *' (( ) -. 1.,1?' 86.') 1.*2' 8 ,) 1 ; ,') .' 182' 65*2> ' ') -. , 62' 81-/0 ',119' / 7*/A' 2,*-*., 2',) *' ? .. 12.' 2' =6,- 6->) ' 1 ' 12..62, 21=/*% ' ,') .' =1. ,' D*' /6D1-*0' ' *-. 6' 620' *A7,) 6' 620' 6==*6/*0' ,1' 6' 5*2*-6/ >1; 2> /% .'+*-6/ 7*6-.' 8 ,) ') 6==E' * *>,% A!' ,6/*2,' 620' >; /C' ; ' ; .' 620' -6D . . ; .') *' >1--*.=120*0' 8 ,) ' 6// =6-,.' 1 ',) *' .;-Z7') *' 86.' =*>; / 6-/ ' ,,*0' ,1' /6D1-' 2' 6' 5-*6,' ? *.-1=^ ; .'+*+2',) *' =1 +*- ;/ 2,*->*.. 12' 1 ' =1=*' 221>*2,' ' 620' ,) *' .A ?=6,) 71 ',) *' =*1=/*' 6,' 12..62, 21=/*' 1/ .% : *') 6== / ' 6+1 0*0',) *', *? =,6, 12' 1 ') *-6->) ^ ?1 '21' +6 / 656 2..',) *' 8-6,) ' 1 ',) *' >1; -, '620', /7*' *2 >6/ =- 0*' 620' 81-/0A7 >12 1-? ,E% 2' ,) *' ? 0..' 1 ' 1 '6'- 76/=6,- 6->) % ( ) *' *2*? *.' 1 ')- .1.,1?' =-1^ ,) *' .=/*201-.' 1 ' *8' 1?*') *' >12, 2; *0') .' 6.>*, >; >; -*0' -1?' ->60 ; .' 62' 1-0*-' 1-') .', -62.=1-, 6, 12', 1') 6D , - 620' 6==/ *0' 6//) .' 2>1?*1, ,1',) *' .>9' 620' ,) *' ,) *' =*1 +6',) ,) *-') *' =11-% : *' =-*6>) *0' 62' *6-2*.,' =-6>, >6/)- ., 62 ,E' 0 *0' 6, ' 1?626' 2' 12,; . ' % ' 2',) *' . L, *,) ' 2. .,*0' 12' >) ; ->) ' 0 .> =/ 2*' 620' D1/0/ '6,,6>9*0',) *' *6-' 1 ') .' ; 2?*- ,*0' =*-.*>; , 12.% : .' /6.,' +1-0.' 8*-*† + >*.' 1 ') .' 65*' 620',) *') 1//18' 81-/0) J' 620') AC=1>- ,C' & 1 ' -I*' ├ - ') ! ( ) *A!' *L=-*..',) *' ? 1,,1' >6/ -*/ 5 12' 1 ',) *' ?=*- 6/ >1; -,% 1 ') ./ *' 620' +1-9% ;,') .' ; 2.=6- 25' .*-? 12.' 6-1; .*0',) *' 625*-' 1 ',) *')- .1.,1?' 86.' +*2*-6,*0') 7,) *' =*1=/*' 6.' 6' 6 2,†' *?=-*.%H ;01L 6' 6' A? ; 25' 620' D*6; , ; /' 8 1?627' 8) 1' I620',) -,E7 *6-.'6 ,*-) .'0*6,) 'D '*-0*+' 1 ' ( ) *101. ; .' 0*.= .*0') *-') ; .D620' 620' 20; /5*0') *-' =6.. 12.% : .' - . 25' 6?*' ?1-*1+*-' *L> ,*0',) *' *2+ ' 1 ',) *' 6?D ^ A ' M NQX') .' D12*.' 8*-*' D-1; 5), ' D6>9' 2', -; ? =) ', 1' 620' ,) *') ;->) ' 1 ',) *' =1., /*.% ( ) *'*?=*-1-') ?.*/ ' ?7,' 12..62, 21=/*' 620' 0*=1. ,*0' 2',) *' ?=*- 6/ ,1?D' 2' , 1; .' =6,- 6->) ' ( ) *1=) /; .' 1 ' /*L620- 6' 8) 1' >1; /0')*' *-*?6 2.' 6,') 6/>*012' *//' 0182' D* 1-*' ,) *' >1 2' 21,' ,1/*-6,*' 6' .; >>*.. ; /- +6/' 2' 12..62, 21=/*% 2' 620' 2',) *' 26?*' 1 ') .'5; /,A' =6-*2., ' ->60 ; .' 620' C' 6>,' 1 ')- ., 62' /1+*' ,186-0',) *' =*-.*>; ,*0' - 5*2 ., >' >12^ f/1L 6' ?=/=-*0',) *' 1-5 +*2*.' 1 ',) *') 1A' ? 62% ( ) *1' ? 129.' 1 ' 5A =,' 2+1/+*0') ?' 2',) *' - 5*2 ., >' >12^ ,-1+*-. ' 8) >)' -65*0' 6,',) 6,', ? *' 8 ,)' 5-*6,'+ 1/*2>*' 65*' >1; /0' 21, ' 20**0' ; 20*-.,620' 620' 6=*-*> 6,*',) 1' 2' 5 =,' 620' - 6' 620' 6,' /6.',) *' ; 2 ,*0' 2 /; *2>*' 1 ' 1/0' .= - ,'1 ' - 5*2' D ; ' 86.' ., //' 6>>*.. D/*' ,1', / *' 26-C' ( ) *1=) /; .' 620' ; 01L 6' 1+*-,) -*8') ?% *-.*>; , 12' -1 -!=-*. *, '1 ' = =/ 62 ; .' 620', D>' 21D/*' -, ; >.' 1 ') -A C' 620' .' ; 2 ' ?*?1-' ',) *') 6/1' 1 ' ?6-,A-01?' 1-' ,) *' .1.,1?% 6>; .*' 1 '=; - , ' 620' >) 6-, % ( ) *1=) /; .' --,' .*2',) *' B1) 2')- .1.,1?' .' ,) *' 5-*6,*.,' >1? ? *2,6,1-' 620' 65*0' = =) 62 ; .' .1' 8*/' 92182' 1-%) .' 1-,) 101L' [*6/' =-*>6,*) *-' 1 ' ,) *' 4-**9') ; ->) ') *)' -*+*-*.') ?' 620') .') 6,-*0' 1 ',) *' 6->) C) *-*, >' -5*2', 1' 12^ 6D1 >' 6// 6,) *-.% : *' /*.' 6' =1, /*=-.*.*2,6, +*' 1',) 1' .,62, 21=/*' 6.' 6', 11/' 1 ') .') *-6->) >6/ =/62.' 2',) *') 6' 0 + 2*') *' 86.' *? _>2//E' .1; 20' ? 10*-6,*') 1=*',) 6,',) *' 81; /0' 0*.,-1 !',) *',) 1; .620C) *60*0') 0-6' 620' =-6>, >6/1' /*%O.'=-1 1; 20' 620' 1- 5 26/', D62' ,) 626^ 1 ') *-*. ' 620' -; 2')- .1.,1?' 1-') .' 6==6-*2,' >12^ . ; .' 1-' ; 5; ., 2*' ? D ; ,' . ; =*- 1-', 1' DM%,) ' 6.' 62' *L*5FI,*' 2*>, 12' 8 ,)' %)-+.1.,1 2' 6.' 6' =; =-6>, >6/ 0 + 2*') 60' 620' .*-? 12 [*-% : *' . ',) *' D*.', -*=-*. *2,6, +*' 1',) 1' 21' .)*' 2, 1>) 62' .>) 11/ 1',) *1/15E7' 620' 6.' 6' =-6>, >6/ 0 + 2*') 60' 2, D>) 62' .>) 11/ 6.' 0 .,2>,' -1?' ,/ 6,' 1' /*L620- 6% 21' . ?=6,) ' 8 ,) ',) *' =) /1.1=) >6/ .=*>; /6, 12.' 620' : *' 6 1 0*0',) *' *--1-.' 2,1' 8) >)') .' >20' ( ) *101-* 6//*51- >6/ 62> *. 1 ' - 5*2' D ; ') *' 92*8') 18', 1' 6=^ <1=. ; *., 6' 620') .' . ; >>*..1-' ,) *' ; 2) 6== J >..,1-/C' =-*> 6,*',) *' ?*- , .' 1',) .' 5-*6,' ?62' 620' 86.' =-1?=,C' . ' 1',) *' 4-*9') ; ->) ') *)' -*+*-*.') ?' 620' *0' D '6'.*2.*' 1 'A' ; ., >*' 6? ') - ., 62' /1+*', 1' 2,*->*0*' >1?=6-*.') ?', 1' =*2*-' ,) *' =-6>, >6/ -* 1-?*-' 1',) *' 2' D*) 6/ ' 1',) *' - 5*2 ., >' ?129.' 8) 1?' ( ) *1=) /; .' %; ,) *-62') ; ->) ' 2' ,) *' ,) ' >>2, ; - 7' //*?6 2' 60' ; 2?*-> ;// '*L=*//*0' -1?' 5A7=,' 620') *' .) 18*0' >/6 ?.' 1-') ?' ,) *' ; 2 12' 1 ' 6// ,) *' 1-6, 1- >6/ 6,,- C' ,) *?' 9 202*%.4' 8) *2',) * '6-- +*0' 6,' 12..62, 21 P/*' ; D ; .*. ') *' 26, ; -6/ ',) *' =6,) *, > ' 620', /A1' 5-620 ' +) ,/' 6/,) 1 ;) ') *' 0 0' 21,' 60? , ' ,) *?' ,1',) *') 1/ ' >1? ? ; C') 6+*' ?60*' ,%B1) 2') .1.,1?',) *' 5-*6,*.,' 1-6,1-' 1 ' 72 12', // ,) *-' 221>*2>*' .) 1 ; /0' D*' = ; D/ >/ ' *.,6) / .) C' 1 ',) *' =-*.*,*-' 1 ',) 6,' -*?6-96D/*' *=1>) %J' 6-/ : 6.*' .6A .' 3 *0% = =) 62 ; .') ?.*/ ' 1; 20',) 6,' 2A; ., >*') 60' D**2' 1 /9,62, 21=/*' 8 ,)' ,) *' >1?=/*?*2,*0',) *' .1D*-' >/*6-2*.' .' 1' 012*' ,1',) 1.*' ?129.' 620' /*. ' 1 /9,62, 21=/*' 8 ,)' ,) *') *' 620' ,) *' -) *,1- >6/ 6-,.' 1 ' C' 81-0.' ' /*6+*', 1' A 16',) *' > , ' ,) *' =6/6>*' 620') 7 =1>C' 1 ') ?',) 6,') *' >1 ? =/*?*2,*0',) *' .) =' 12') .' -*, ; -2', 1' ^ =-; .' M NX% ( ) *1=) /; .' 218' =-1>**0*0', 1' 12..62, ^ 21=/*' 2' =*-.12 ' 620' 6,' 12>*' 6==*6-*0' 6.' 6>>; .*-' 620' 0 ..6, . 6>, 12' 1 ',) *' >/*-5 ' 1 ',) *' *?=-*..' ;01L 6 620' 1 ',) *' >1; -, '8 ,)')- .1.,1?' 12' 6>>1; 2,' 1 ') .' ? 1-6/ .*+*-, ' 620') .' D1/0' 0*2; 2> 6, 12.% 2')-A C' .1.,1? .' 182' 0 1>*.*' 12' 62' *-,6,*' 6,' ,) *' 169J' M. C' 210; .' 60' _; *->; ?X' 2')6/>*012') *') */0' 6' .*>-*',) *' *-*>, 12' 1 ' 6' . /+*-' ., 6, ; *' 1 ' ; 01L 6' >/1.*' ,1') ; ->) % ; - 25',) *' . L, **2' 1-' .*+*2, **2' *6-.' 1 ') .' =1 6% 620' D ',) *',) *6, - >6/ =*- ZT-?C' 62>*.' >122*>, *0' +,)' , ') *') 60' +,)' ; 28 .*' 620' ; 2^ A; ..' *L655*-6, 12' 1=*2*0' 6' .*-? 12' 12' < 6-9' ' '. %' 2' >1? ? *? 1-6, 12' 1 'B1) 2',) *' 6=, .,' +,)',) *' =*-.12^ 6/ 6//; . 12' 56 2' : *-10 6.' -65*.' 656 2' .) *' -6+*.' 656 2' .) *' 062>*.' 620' 656 2' .) *' 0*?620.',) *') *60' 1 ' B1) 2' \ ) -A .1.,1? .' 182' 26? *h' ; =12' 6' >) 6-5*-J' M 1>C' -6,*. ' # !' 6 0' + ' >% QX% -1?') .' *L /*' 2' ; >; C' ' . ; .' 620' -6D . . ; .') *' >1--*.=120*0' 8 ,) ' 6// =6-,.' 1 ',) *') - ., 62' 81-/0 ',119' / 7*/A' 2,*-*., 2',) *' ? .. 12.' 2' *-. 6' 620' *A7,) 6' 620' 6==*6/*0' ,1' 6' 5*2*-6/ >1; 2> /% .' ; .' +*+2',) *' =1 +*- ;/ 2,*->*.. 12' 1 ' =1=*' 221>*2,' ' ?1 '21' +6 / 656 2..',) *' 8-6,) ' 1 ',) *' >1; -, '620', /7*' *2 ' 1 '6'- 76/=6,- 6->) % ( ) *' *2*? *.' 1 ')- .1.,1?' =-1^ >; -*0' -1?' ->60 ; .' 62' 1-0*-' 1-') .', -62.=1-, 6, 12', 1') *' =*-.*>; , 12.% : .' /6.,' +1-0.' 8*-*† + >*.' 1 ') .' 65*' 620',) *') 1//18' 81-/0) J' 620') AC=1>- ,C' & 1 ' -I*' ├ - ') ! ( ) *A!' *L=-*..',) *' ? 1,,1' >6/ -*/ 5 12' 1 ',) *' ?=*- 6/ >1; -,% 1 ') ./ *' 620' +1-9% ;,') .' ; 2.=6- 25' .*-? 12.' 6-1; .*0',) *' 625*-' 1 ',) *')- .1.,1?' 86.' +*2*-6,*0') 7,) *' =*1=/*' 6.' 6' 6 2,†' *?=-*.%H ;01L 6' 6' A? ; 25' 620' D*6; , ; /' 8 1?627' 8) 1' I620',) -,E7 *6-.'6 ,*-) .'0*6,) 'D '*-0*+' 1 ' ( ) *101. ; .' 0*.= .*0') *-') ; .D620' 620' 20; /5*0') *-' =6.. 12.% : .' - . 25' 6?*' ?1-*1+*-' *L> ,*0',) *' *2+ ' 1 ',) *' 6?D ^ A ' M NQX') .' D12*.' 8*-*' D-1; 5), ' D6>9' 2', -; ? =) ', 1' 620' ,) *') ;->) ' 1 ',) *' =1., /*.% ( ) *'*?=*-1-') ?.*/ ' ?7,' 12..62, 21=/*' 620' 0*=1. ,*0' 2',) *' ?=*- 6/ ,1?D' 2' , 1; .' =6,- 6->) ' ( ) *1=) /; .' 620' ; 01L 6' 1+*-,) -*8') ?% *-.*>; , 12' 620' 6=*-*> 6,*',) 1' 2' 5 =,' 620' - 6' 620' 6,' /6.',) *' ; 2 ,*0' 2 /; *2>*' 1 ' 1/0' .= - ,'1 ' - 5*2' D ; ' 86.' ., //' 6>>*.. D/*' ,1', / *' 26-C' ( ) *1=) /; .' 620' ; 01L 6' 1+*-,) -*8') ?% *-.*>; , 12' -1 -!=-*. *, '1 ' = =/ 62 ; .' 620', D>' 21D/*' -, ; >.' 1 ') -A C' 620' .' ; 2 ' ?*?1-' ',) *') 6/1' 1 ' ?6-,A-01?' 1-' ,) *' .1.,1?% 6>; .*' 1 '=; - , ' 620' >) 6-, % ( ) *1=) /; .' --,' .*2',) *' B1) 2')- .1.,1?' .' ,) *' 5-*6,*.,' >1? ? *2,6,1-' 620' 65*0' = =) 62 ; .' .1' 8*/' 92182' 1-%) .' 1-,) 101L' [*6/' =-*>6,*) *-' 1 ' ,) *' 4-**9') ; ->) ') *)' -*+*-*.') ?' 620') .') 6,-*0' 1 ',) *' 6->) C) *-*, >' -5*2', 1' 12^ 6D1 >' 6// 6,) *-.% : *' /*.' 6' =1, /*=-.*.*2,6, +*' 1',) 1' .,62, 21=/*' 6.' 6', 11/' 1 ') .') *-6->) >6/ =/62.' 2',) *') 6' 0 + 2*') *' 86.' *? _>2//E' .1; 20' ? 10*-6,*') 1=*',) 6,',) *' 81; /0' 0*.,-1 !',) *',) 1; .620C) *60*0') 0-6' 620' =-6>, >6/1' /*%O.'=-1 1; 20' 620' 1- 5 26/', D62' ,) 626^ 1 ') *-*. ' 620' -; 2')- .1.,1?' 1-') .' 6==6-*2,' >12^ . ; .' 1-' ; 5; ., 2*' ? D ; ,' . ; =*- 1-', 1' DM%,) ' 6.' 62' *L*5FI,*' 2*>, 12' 8 ,)' %)-+.1.,1 2' 6.' 6' =; =-6>, >6/ 0 + 2*') 60' 620' .*-? 12 [*-% : *' . ',) *' D*.', -*=-*. *

D62 ;.' 8 ,)' ,)*' 0*=,)' 1 ') .' 86-?')- ., 62')*6-,' 620' ,)6,')*' >6-- *0' 1 ; , 2') .' 182' / *' 6.' 6-'6.' ?1-^ ,6/' ?62' >62' 01' , ',)*' 0*6/1 ',)*' =- *.,)110' 8) >)' 2' 1 ;,) ;/ *2,) ;. 6.? ')*' 12>*' 0*.>- D*0J' I " "' # =' 1' g X *02*-' >)6-6>,*- [*.') ?' ,) ; .' ' 2') ?' 8*' 20' 6' ?1.,' >1?=/*,*' ?; , ;6/' 2,*-=*2', -6, 12' 1 ',)*1-*, >6/' 620' =-6>, _6/ ,)*1/15 '6.' 8*// 6.' 1 ',)*' 015?6, >6/' 620' *,) >6/' */*?*2,.' *L) D ,*0' ?6 2/ ' 2' ,)*' ;. 12' 1 ',)*' *L>5*, >6/' 620')1? /*, >6/ : *2>*') .' *L*5*. .' 86.' 5 ; 6-0*0' 656 2. ,'D6--*2' =) /1/15 '620' 015?6' 620') .' =; /= ,'0 .>1 ; -.*' 86.' -**' -1?'01>,- 26/ 6D.,-6>, 12' 620' *?=, '-)*,7 >' ()*' 2,-10 ;>, 12' 1 ',)*' 9218/*05*' 1 ')- ., 62 , ' -1?' ,)*' .1 ; -> *.' 2,1' ,)*' =*1=/* /* , ') ?' / ,,/*', ?*' 1-' ,)*' 0*+*/1=? *2,' 1 '.=*> 6/ 015?6.J' I? I1 " ' ' " ') " 1' Q S' =' NKNX%

& *' / 6-7' -1?')- .1.,1?' 1+*-'. L') ; 20-*0')1? ^ / *.' 0*/ +*-*0' 6,' 2, 1>)' 620' 12..,62, 21=/*' D ' 6-',)*' ?1.,'+6/ ; 6D/*' 1 ') .' 8- , 25.' ()* '6-*' >12.*>;^ , +*' *L=1. ,1- ' .*-?12.' 12' 4*2*. . ' ,)*' .6/?. ' 620' ?1.,'1 ',)*' D119.' 1 ',)*' *8' (*.,6?*2,' ()* ' >12' ,6-7) .' L*5*. .' 620')*2>*' 6-*' .1' 1 ,*2' _ ; 1,*0' D' ?10*-2' >1?2*2,6,1-.' *.=*> 6// ',)*')1? /*.' 12' ,)*' = ../*.' 1 ' 6 ;/' *. 0*.',)*?')*' 8-1,*' 0 .>1 ;-.*.' 12' .=*> 6/ 1>>6. 12.' 6?125' 8) >)',)*', 8*2, C12*')1? ^ / *.' 12' ,)*' ,6, ; ,*. ' 1>>6. 12*0' D '6'-*D*// 12' 6,' 2, ^ 1>)' 2' NQ '6-*',)*' ?1.,'>*/*D-6,*0' ()*' 1,)*-' 81-9.' 1 ')- .1.,1?' 6-*') .' 1 ; ,) ; /',-*6, .*' 12' ,)*' =- *..^)110' 6/-*60 ' 6// ; 0*0' ,1' 6' 2 ; ?D*-' 1 ' 01>,- 26/ 620' ?1-6/ *..6E7. 2' 0* *2>*' 1 ',)*')- ., 62' 6,) '620' 2' >1?2*206, 12' 1 ' >*/ D6> ' 620' ,)*' 21D/*-' 1-?.' 1 ' ?126., >' / *' 620' ,81') ; 20-*0' 620' 1-, C, 81' /*.,*-.' 2*6-/ ' 6// 8- ,,*2' 0 ; - 25') .' *L /*' D*, 8**2' N' 620' ' ()*' ?1.,' ?=1-,62, ' 1 ',)*' /*,,*-.' 6-*', 81' 60^ 0-*..*0' ,1' ,)*' ' 1?62' D .)1=' 221>*2,' ' 8 ,)') .' -*^ =/ '620' .*+*2,**2' /125'/*,,*-.' ,1') .' - *20' / ?= 6. ' 6' = 1 ; .' 8 018' 620' 0*6>12*..' ()* ' 6// D-*6,)*' 6' 21^ D/*')-.,62' .= - ,' 21,' 0*. - 25' ,1' D*' -*>6//*0' -1?' *L /*' >12+ 2>*0',)6,',)*-*' .' D ; ,' 12*' ? . 1-.; 2*' 0*^ =6-.; -*' -1?' ,)*' =6,)' 1 '= *, ' 620' + -.; *' 620' //*0' 8 ,)' >1-0 6/ - *20.) =' 6A,) ; /' >6-*' 1-' 6// ,)*' 2,*-^ *.,.' 1 ',)*') ; ->) '620' 6' >6/?' 620' >)**-. ; /' /119 25' 1-86-0',1',)*' 5/1-*.' 1 ')*6+*2' ()*' .1C>6//*0' =' ' 1 ')- .1.,1?' 8) >)' .' ., // 2' -*5 ; /6-' ; .*' 2' ,)*' 4-**9' 620' ; .. 62' >) ; ->)*.' D*6-.',)*' ; 2? .,69^ 6D/*' ?6-9.' 1 '6'/6,*-' 65*%

% ' ()*' D*.,'*0 , 12' 1 ',)*' 81-9.' 1 ')- ^ .1.,1?' 2' ,)*' 1-5 26/ 4-**9' 8 ,)' 6' 6, 2', -62./6, 12' .' ,)*' *2*0 >, 2*' =-*=6-*0' D ' *-26-0' 0*' <12, 6 ; C >12' -.,' =; D/ .)*0' 2' 6-.' QC NQ' 2' N 1/%+1/.%T -*=- 2, *0' 2' *2>*' (N C T' 2' 6-.' M46; ?*X' QN C NRT' 620' 2< 52* . 1' Q RCS %' ()*' :1? ^ / *.')6+*' D**2' 1 ,*2', -62./6, *0' 2, 1' -*2>) '4*-?62' 25/ .) ' 620' 1,)*-' /625; 65*.' M 25/ .)', -62./6, 12' 2' ,)*' L 1-0' / D-6- ' 1 ',)*' 6,)*-. ' Q KC NXT' .1' 6/.1') .' 1 ; ,) ; /' 81-9' 12' ,)*' - *.,)110' M.**' 6D1+*X' 2' ,)*' / *' 620' >)6-6>,*-' 1 ')- .1.,1?' .**' *.=*> 6// ',)*' N ' 2' +1/%' L : ' 1 ',)*' ,% 1' =' R C QT' (//*?12, ' " 1' +1/%' L ' =' C T' , /, 25 ' & ' $ ' 1-' *=,' T' *620*-' ' '" !' " ' M *-/ 2 ' QK NO' *0' Q Q ' 2' K+1/.' M,)*' -.,'+1/; ?*' ,-62./6, *0' D ' ,6=/*,12 ' 120' QNQXT' //*?6 2 ' - ' ' 4 ' + + ' ' N1' ' M 6-' Q R ' =' CK X' TI *-,)*. ' ' " ' M 1.,12 ' Q K?1XT' DDS 1>)*,' 2 ' $!' D ' " ' M 6-' QSSX' 1?='6/.1' >)6 .' " "' # Y(' QSS'+1/' '=' K .' 620' RNN ._' M -1?' 8) >)' 6' =6-,' 1 ',)*' 6D1+*' .9*,>)')6.' D**2', 69*2X%

) ; D' \=-12 ' ; H' MN7N ' : *D ') "1' 0*- +' ;2>*-^ ,6 2T' *=, '6==6-*2,/ ' ZN; >F D ; ' ,-62. =1. *. T' ; /5' " "E 6' 81-0' 1>>; -- 25' 12/ ' 12>*' 6.' ,)*' 26?*' 1 ' 6' =*1=/*' 2' 6// A?>*' 8 ,)' 5 =,' 2' ,)*' , ?*' 1 ' *D ; ^ >)602*[[6-' M [*9' ddd' XT' 7' ; .) ' 620') ; , ' 620' ; 0' 620' 6//' ,)*' ? 25/*0' =*1=/*' MNI/NX7620') ; D' M *=,' 6' ; = ') ') % ') ' & ') ' & $ ') ' - 2) - , ' " ' +' -' & 1) ' & 11

-- ') ' & ') ' ' g' =OWNO6X' 620' ,)*' >) /0-*2' 1 ',)*' /620' 1 ',)*' >1+*262,' .)6// 6//' D ' ,)*' .81-0' 8 ,)',)*? J' M *' 21' 01 ; D, ',)*' 5 =, 62.' .**' +*-' X' ()*' -.,',)-**' 1 ',)*.*' 26?*.' 1-' 0*. 526, 12.' 6-*' 1 ' - >62' =*1=/*.' ; 2/*.' MD ; ' ,) .' .' ?=-1D6D/*X' ,)*')*? ,*' ; 0' D*' 2,*20*0' D ',)*' ,) -0' M.**')18*+*-' LL+ ' T' LLL+ ' T' .6' L+ ' RT' B*-' L/+ 'RXT' ,/ 1' 1 ; -,)' .' 1 '6' =*1=/*' 12' ,)*' 5 =, 62' -12, *-' 620' ,)*' . L,)' =-1D6D/ '6==/ *.',1',)*' *-*? 262,'1 ',)*' B*8.' 8) 1')60' /*0' 2,1' 5 =,' M>1?=' 62' L ' KQ ' NK' *.=*^ > 6// ',)*' /6., ' 8) *-*',)*' >1+*262,' .' 21,' _ ; 6/ *0' 6.')1/ JX' 8) >)' 86.' =-1=)*. *0',1' =6- .)' 1-',)*' ?1.,' =6-,' D ',)*' .81-0' 620' 1,)*-8 .*' 2',)6,' >1 ; 2,-E7 MB*-' L/ ' S' ' KKT' L/ + ' K' N' ' K ' KQX' (.) .' ,)' 26?*' .',)*-* 1-*',)6,' 1 '6' >1 ; 2,- ' 1-' =*1=/*' 2' 6// ^ 62>*' ff ,)' 5 =, '620' =-1D6D/ ' 1 ' 1-, ,*-6' ->6' 1-' 1 ',)*' /620.' 2*6-' 5 =, ',1',)*' .1 ; ,) 1?*')6+*' =-1^ =1.*0',1' ->>=52 .*' " ' 2',)*' 26?*.' 1 '+6- 1 ; .' -^ >62' =/6>*. ' ' I) IC 81' 6' =1-, ' 12',)*' 20 62' >*62' M ,1' +' 'g XT' " " 'Md6F/]0-' 1-' d 8 VNOSX' 2' <6 ; ^ - ,62 6' M +' K' g' RXT' 620' * ' I) C ' 1-') 8' 2' ,)*' <6-*1, >' 21?1' 2' 5 =,' M +' X' >12A*>, ; -*.' 8) >)' 6->' 1 '21' +6/ ; *' *L>*=', 6.' .) 18 25' ,)*' *L . ,*2>*' 1 '. ? /6-' 26?*.' 8) *-*' 81' ? 5), ' *L=*>', .) .' ,1') 6+*') 60' ,.' =/6>*' 1>) 6-,' ..-625*/ ' -*56-0.' ,' 6.' ,) 1' > , ' 1' 2' <6-?6- >6' M ,-6D1' L 'QNQXT' 8) /*' : 6+*-2 >9' .**9.' ,' 2',)*' =*1=/*' >6//*0') ' 12',)*' 5 =, 62' ?12 ; ?*2,.' M & /9 2.12' ' N R . %X' ,)^ *-.') 18*+*-' ,) 29',)*' =-*.*2,' : *D*,*L,' >1--; =,' 2' ,) .' 81-0' ,') 6.' D**2',)*-* 1-*' =-1=1.*0',1' -*60' 7 ' MNI NX' 1-' 7 ! ' 6.',)*' -6D' +*-. ') 6.' ',)*' =*==/*',)*' 7 " "(1' 8) *2>*' ,' ? 5),' D*' .; ==1.*0',)6,' 6,' /*6.,' 12*' >1= ' 1 ',)*' *=, ') 60' 0*- +*0',)*' -.,' /*,,*-' I ' 1-',)*' ; . ; 6/ dXT' 12*' : *D' < % 20**0' -*60.',) ; .' MN N=' 10' R' 6=' 0*' 1.. X' ()*' -6D' +*-. ' .') 18*+*-' 1 '+*- '. / 5),' 8* 5), '620' 8*') 6+*' 2 '6 ; ,) 1-. ' 1 ',) .' 9 20' 1-' 6==/ 25',)*' 81-0' 7 'M1-') ' ,.' 5 =^ , 62' =-12 ; 2> 6, 12' T' .**' ; 2.*2 'D$ % !' $! ' SX' ,1' 7 '1-' -6,)*-',)1' 7 " 'M 1 ; V 6, ' ,-6D1' L+ ' QS' Q RT' +' 'N T' / 2' + ' N T' ,*=)' " /!' =' RSX' ,)*' 3>1 ; 2,-*.')*/0' D ' 8) 1?' -1?' ,-6D1 . ', ?*' ,1' 1 ; -' 182' 6-*' D ',)*' 5 =, 62' 2.>- =, 12.' 2>/ ; 0*0' 2' **.)' 1-*.D' ,) 6, ' . ' ; .) T' ,)*' ; D6*') 18*+*-' ?6 '21, ' 2' ,)*' =-1=)*, .' 06 .') 6+*' D**2' .*, ,/*0' 2' 62 '=6-,' 1 ',)*' ,*-- ,1- ' 8) >)') 6.',69*2' -1?',)*?' .' 26?*' 21,) ^ *-' >12A*>, ; -*' M-*56-0*0' 6.' _ ; .*' *_ ; 6/ 2' =-1D6D / , ' D ' 4*.*2 ; .' -+ !' # !' =' SS X' .' ,)*' *?*206, 12' 8) >/' : ,[5' =-1=1.*.' I ; ') + ' =' KRX' 26?*/A ' MNI / X' ()*' " '01 ; D, /*..',)*' < [-6 ,*' " " '1' 4*2' d' NT' ') -12' ' '6-*' ?*2, 12*0' 6.' .*-+ 25' 8 ,)' ; .) ?' 2',)*' 6-? '1') .) 69' MK') -12' L ' K NX' 620' 2' ,)6,' 1 ' U*-6)' ML+ ' QT' >1?=' L + ' RX' 8) 1' 86.' ?1.,'=-1D6D/ '6/.1' 6' 9 25' 1' 5 =, '620' >*-,6 2/ ' ,)*' /*60*-' 1 '62' 5 =, 62' 6-? ' **' $ ' 9 2 $ ' ! 6) ; ?' .=*69.' 1 ',)*?' 6.')*/=*-.' 1 ' ()*D*.' ,15*,)*-' 8 ,)' ; ,' M) ; ,X' 8) /*' ; .)' 620' 5 =A' 8*-*')*-' .,-*25,)' M 'Q' RXT' 620' 62*/ ?*2, 12.' ,)*' ; D ?' 620' ; .) ?' 6.' . ; D ? ,, 25', 1' 1-' >1 ; -, 25' 6' >12_ ; *-1-' 1 ' 5 =,' ML ' NX' ()*' ; D ?' ? 5), ' ,)*-* 1-*' 8*// 1>>; -' 6?125',)*' 26, 12.' . ; *- 25' 2',)*' 6//1 ' 5 =, ' ()*-*' .')18*+*-',) .' 1DA*>, 12',)6,' 8*')6+*' 2=' 2^ ..,62>*' 1 ',)*' . ; ==1.*0' 1-?' ' 2',)*' . 25' ,)1' 21 ; 2' D* 25' 6/86 .' 5 +*2' 2' ,)*' =/ ; -6/ ' ') $ ' M ,' +' X' T')*2>*' : ,[5')6.') ?.*/' . 2>*' -*A*>, *0' ,) .' + *8' I) / !' !' 2 ' '6/ " ' 2' /1>' X' ()*' . ; 5^ 5*., 12' 1 ' : 6+*-2 >9' ,)6,',)*' 26?*') ; D' .' ,1' D1' >12^ 2*>, *0' 8 ,)') ' 8) >)' 1>>; -.' 12' ,)*' 5 =, 62' ?12^ ; ?*2,.' 6.',)6,' 1' 6' =*1=/*' >12_ ; *-*0' D ',)*' 5 =, 62.' M & /9 2.12' 2>' 6 % ' 'NS N' X' 81 ; /0' D*' *.+*- 25' 1 '21, >*' 8*-*' ,' 21,',)6,' ,' 2+1/+*.',)*' .1?*8) 6,' +1^ /*2,' =-1=1. , 12',)6,' 6' =*1=/*' 1 ' 8) 1?' 8*' 12/ ' 9218' ,)6,',)*' 8*-*' ,)*' 6// *.' 1 ',)*' 5E =, 62.' .) 1 ; /0' D* 0*2, *0' 8 ,)' 6' =*1=/*' 1 ' 8) 1?' 8*' 12/ ' 9218' ,)6,' 0 ,)*' 8*-*' ,)*' >12_ ; *-*0' *2*? *.' 1 ',)*' 5 =, 62.' ,)1 ; 5)' ,' .' >*-,6 2/ ' =1.. D/*' ,)6,',)*' 8) 1' 8*-*' 6, 62' *6-/ ' =*- 10' 1*.' ?6 ' 6, ' 6' /6, *-' =*- 10') 6+*' D*C

DJD

DJL

)- ., .' 1-0 262>*' 2' 6//',)1.*',) 2A-.',)6,'6-*' 1 '2*>*.^ . , '-*_; . ,*',1',)*' .6?*J M6-,% L LX% ' 7()*' .6?*'0* ^ 2 , 12' .' 5 +*2' D ',)*' <*,)10 .,' = .>1=6/);->)% ' ()*');->)' .'6'>1?? ;2 , '1 'D*/ *+*-.'1-'.6 2,. ' 56,)*-*0' 1 ;,' 1 ',)*' 381-/0' 8)1.*' 0 ., 2>, 12' ,' .' ,1' 9218' 620' ,1' 81-.) =',)-1;5)' ,)*' & 1-0' 620' D ' ,)*' = - , ',)*',-;*' 410' 2')- .,'_6-' 1 ;-' 620' D ' 6 ,)',1' =6-, > =6,*' 2' 6//',)*' D/*.. 25. -**/ '5 +*2',1' ;.',)-1;5)')- .,% ()1.*' 6-*' 6//>, [*2.' 1 '12*' =1/^ , ' .;DA*>,.' 1 ',)*' .6?*' 1-0' ;20*-',)*' .6?*' /68. ' 620' -*> = *2,.' 1 ',)*'%.6?*' .= - ,;6/ D/*.. 25.J' I# 9 ' 1' SSX% ' ()*' 6,)1/>');->)' .',)*' >1?? ;2 , '1 '6// ,-;*' D*/ *+*-.'+ [%',)1.*' 8)1')1=*' 2')- .,'6/12*' 1-'.6/+6, 12 '620' 6-*' .62>, *0' D ') .' = - ,% ,' .' 21,'6,,6>)*0',1' 62 '12*' =/6>*' 1-'/ ? ,*0' ,1' =6-, >;/6-' =*-.12. ',)*' ?*?D*-.' 1 ' ,' D* 25' 0 .^ =*-.*0',)-1;5)1;',)*' 81-/0J I ; ! 1' .*>% K ' KRX% ' ()*' >1,>)' 12 *.. 12' I '$!Y f' L+ X' 0*^ 2*.',)*');->)' ,1' D*' 6' .1> *, ' 1 ',)*' */*>,' 1 '6// 65*.' 620' >1;2,-*. 'D1,)'B*8.' 620' 4*2, /*.!',) .' .',)*' >6,)1/>' 1-' ;2 +*-.6/);->)% ()1.*' 8)1' 6-*' ?*?^ D*-.' 1 ',' 81-.) =' 410' 2')- .,' 620' *2A1E7 *//18.) =' 8 ,)') ?',)-1;5)',)*' = - ,% -'" ' " "' ' 1' + ' " ' " ' 620' >1?=-*)*20.' D1,)',)*' 0*=6-,*0' 2',)*' 1-0' 620',)*' */*>,';=12' *6-,)%J ' ()*' 12 *.. 12' 1 ' 1/ .)' >);->)^ *.'d ()*-*' 6-*' =6-,>;/6-' >);->)*.' 620',)*');->) ;2 +*-.6/% ()*' ,-;*' ;2 +*-.6/);->)' .',)*' >1?^ ? ;2 , '1 '6//D*/ *+*-.'0 .=*-.*0',)-1;5)1;',)*' 81-/0' 8)1' 6-*' 620' 8)1'-*?6 2' 12*' >6,)1/>');->)' .1'/125' 6.',)*' 6-*' ;2 ,*0' D ' .;DA*>, 1-',1' 12*' :*60' B - .,' D ',)*' 208*// 25' 1 '12*' .= - ,' 620',)*' =-1 *.. 12' 1 ',)*' .6?*' 6 ,)' 620',) .',)1;5)',)*' D*' 21,'6..1> 6^ ,*0' 2' 12*' >1?? 12' *L,*-26/' =1/ , ' D ;, ' 6.' -*56-0.' *L,*-26/' *//18.) =' 620' *>>/*. 6.,>6/ -*5 ?*2')*' 21,' 2' >1?? ;2 12' 8 ,)' *6>)' 1,)*-%J ' ',-;*' =6-, >;/6-);->)' .' 0 ., 25; .)*0' -1?' 6' 6/.*' 12*' D ',)*' =-1^ *.. 12' 1 ',)*',-;*' 6 ,)',)*' ;2?;,$6,*0' 60? 2 .,-6^ ,12.' 1 ',)*' .6>-6?*2,.' 620',)*' *L*-> .*' 1 '0 .> =/ 2*J' I ' -+](8! ' -% 4*-)6-,' .=*69 25' 1-' ,)*' 4*-?62' * 1-?*0');->)' 1 ' ?*-> 6' 2' ,.' /6,*-' 1-?' 1 ',)1;5), ';20*-',)*' 2 /;*2>*' 1 ',)*' .1C>6//*0' <*->*-.D;-5',)*1/15 '.6A7.d ()*')-., 62');->)' .' 6' 0 + 2*C);?62' >12., ,;, 12' 2', ?*' 620' .=6>*d 0 + 2*' 6.',1',.' ;/, ?6,*'5-1;20' 620' 2,*- 1-'/ *' 620');?62' 6.',1',.' 1-?↑D-1;5),' 2,1' *L .,*2>*' D ',)*' ? -6>;/1;.' 81-9 25' 1 ',)*' : 1/ '4)1.,' 12',)*' 06 '1 ' *2,*>1.,'8)1' .' .*2,' D ')- .,' 6.',)*' D*6-*-' 1 ') .' 2>6-26,*' / *' 620' .6/+6, 12 ' 2' 1-0*-',1' >12, 2;*' 620' 0*+*/1=',)' .'/ *' 620' .6/+6, 12 ' 6>>1-0 25',1',)*'/68'1 ' ,)*' = - ,' 2' ,.' ?*?D*-.)=' 0182',1',)*' *20' 1 ', ?*' ;2 2,*-:=,*0/ % .' .;>)' ,' .' 21,' 6' >1//*>, 12' 1 ' ;2 ,.' D ;,' 62' 1DA*>, +*' 1-562 .?',)6,')6.' =- 2> =/*' 6' ;2 , ' 6' /68' 1-562.' 620' -*.1;->*.' 1 '=18*-' 620' 5-6>*' 8)>)' 6->' 2' ,' 620' ,.' 182' 6D.1/;,*/ J' I ; 9 " $ ' QSN' =% N' % **' 6/.1' -% *+ 2 ' 2' D1 " '5 ' +1/% L' \6-, >/*.' 12' ' : 105*' 12' =)*. 62.Jh' ' +1/% L' \ ()1;5),.' 12',)*');->) J',81' 6-, >/*.hX%

;>)' .',)*' >, 12' 1 ',)*');->)' 6.'=-*.*2,*0' 2',)*' 5-*6,'/*60 25' . ?D1/.' 1 ',)*' =- 2> =6/*>);->)*.' 620' D ',)*' -'-*=-*.*2,6, +*' ?*2% ()*' .;DA*>,' .' 12*' D*.*,' 8 ,)' 0 >;/, *.'D*>6;.*' 1 ',)*' 6/;-*' 6/86 .',1' 0 .' >- ?A26,*' D*, 8**2' ,)*' + . D/*' 620' 2+ . D/*');->)' 620' D*>6;.*' *+*-' 0*21? 26, 12' 2' 1-0*-',1' -*20*-' ,.*/' =18*- ;/ 620' =-6>, >6/' ? ;.,' 6..;?*',)*' 1-?' 1 ' ');->)' 620' .' >12.*_;*2,/ '0- +*2',1' 0* 2*',)*');->)',1' .;' 182' =1. , 12' 620') .,1- % ()*' 0 ., 2>, 12' D*, 8**2',)*' + . D/*' 620' 2+ . D/*');->)' 86.' -*>152 .*0' D ' ;5;., 2*' 2') .' >12,-1+*-.' 8 ,)',)*' 126, ...' 8)1')*/0',)6,',1' =-*0 >6,*' >6,)1^ /> ,'1 ',)*');->)',' 86.'2*>*..6-A' .',)1;/0')6+*' ;D^ A*>, +*' =;-, ' 2' .' ?*?D*-.' 620',)6,' .1' .112' 6.' ,' 6//18*0' >1--;=,' 620' ;281-,) ' ?*?D*-.' ,' >*6.*.',1' D*' >6,)1/>')*' ?6 2,6 2*0' ' <62 'D '=6-,69 25' 1 ',)*' .6>-6?*2,'6-*' "',)*');->)'62Y' *',6-*' 21,' ,)*');->)%J' ;-,)*-d ()1.*' 8)1'6==*6-',1'D*',)1);->)' 620',1' >12,-60 >,')- .,',)*-* 1-*' 01' 21,'D*^ /125' ,1',)6,');->)' 8)>)' .' >6//*0',)*' D10 ' 1 ')- .,J M.**' *620*-' " ' ' ' N%C X' ()6,' ,)*-*' .' 12*' + . D/*');->)' 6//',)*.*' 12 *.. 12.' >12^ >*0*' D;,' 8)*,)*-' 1-' 21,',)*-*' D*' 6' + . D/*');->)' 12' *6-,)' *2, ,/*0',1')*' >6//*0',)*',-;*');->)' 620',)*' 12/ ' ,-;*');->)' .',)*' ;*.,12' 6,' ..;*' D*,8**2' 1?62.,.' 620' -1,*.,62,.% *-,6 2/ ' ' 8*' A;05*' 1',)*' +6-1;.' >);->)*.' 2,1'8)>)')- .,*201?' .' 0^ + 0*0' DE',)*-' >12 1-? 25' 2' 6//-*.=*>,.' D ',)*' =- 2^ > =/*.' 620' -*_; -*?*2,7' 1',)*' 41.=*/.' 8*' >6221, 6/^ /18',)6,'62 '12*' 1',)*?*.',)*' =*- *>,'-*=-*.*2,6, 12' 1 ', 6,' 0*6/ ..6,*' 6,'8)>)',)* '6//6 ?'P21-' 12',)*' 1,)*-')620'>62' 8*' *2, -*/ '0*2 ',)*' 26?*' 1 '6')- .^ , 62');->)',1'62 '12*' 8)>)'=-1 *..*.',1' D*' D; /,'12' ,)*' 41.=*/1 ')- .,% ()*')6+*' 6//.1'?;>)' 2'>1?^ ?12' 2',) .'-*/5 1;.' 6 ,)'620/ *'620'.1'?;>)'8)>)' 0 ., 25; .)*.',)*?' -1?' 6//1,)*-'-*/5 1;.' .1> *, *.' 6.',1'A;., ';.' 2'>12. 0*- 25',)*?' 6.' 12*' 8)1/*'620' >6// 25',)*?' 2' 6' 8 0*' .*2.*' ()*')- ., 62');->)J' M4 *.*/*-' " "' # '+1/% 'g X%

N% 7 '@ "' & ' '" ' "' "! ' M %X' ()*' 1',)*');->)'6-*',)*. 52.'D '8)>)',)*'+ .^ D/*');->)' .' 0 ., 25; .)*0' 620' 0 *-' 6>>1-0 25',1',)*+ *8.'8)>)'6-*')*/0' 2',)*0* 2, 12'1',)*');->)' M6X' ()*' 1?62' 6,*>) .?' .,6,*.',)*?',1' D*' ;2 , .62>, , '>6,)1/>, '620'6=1.,1/*, 'LI' ' =% Q 'Q X% >//6-? 2*' 6.. 52.' 2' 600/, 16',1',)*.*' 62, _; ,E ' ;2 2,*--;=,*0' 0;-6, 12' 6?=/ ,;0* '65-**^ ?*2',' 2' 01>,-2*' 8 ,)' ,)*' =- ? , +*');->)↑.62>C , ,E' 1 '01>,-2*' * >6>' 1',)*' 01>,-2*',)*' 5/1- ' 1 ' ? -6>/*.',)*' / 5),' 1 '=-1=)*> ',)*' >12 *.. 1 f 1 '60^ +*-.6-*.',)*' ;2)6== '*20' 1',)*');->) .'*2*? *.' 620',*?=1-6/ */>, 'I; '6 "' ' 1;0% Q7 X% ()*' ;2)6== '*20' 1',)*');->) .'*2*? *.J' 620' ,* ==1-6/=-1.=*-, J' 6-*' -*I*>,*0' D ' (12-2*/ ' 6 // '620' 5*2*-6// ' D ' ?10*-2' 1? .)')*1?5 62.' M.**' 6/?*-' ' " ' "' ' K X' M X' ()*');->)' 1 ' 25/620')6.'21'6;,)1-,6, +*' 0*>/6-6, 12' D* 120',.' L L,)' 6-, >/*' ',)*'=-*6>) 25'1',)*'=; O*C81-0' 1 '410' 620',)*' 0;*' 60? 2 .,-6, 12' 1',)*' .6>-6?*2,.' *,>%' D;',)*'=-1=*-' 60? 2 .,-6, 12' 1',)*' .6>-6?*2,.' D ' ? 2 .,*-.' -*5;/6-/ '6;,)1-[*0')6.'/*0',1' 6' 0 *-*2>*' 1 ' 1= 2 12' 2' 0*,*-? 2 25I',)*.*' 21,*.' 8)>)')6.' D*^ >1?*' 6' 8 0*' 0 +*-5*2> ',)*' 12*' . 0*' 60)*- 25',1' 6' -*** 2,*-=-*,6, 12' 2' >1?? 12' 8 ,)' 6// -1,*.,62,.' 620',)*' 1),)*-'6==-16>) 25',1',)*' .,-> ,*-' 1?62' 6,)^ 1/>+*8% ()*' .,-> ,' .1C>6//*0' >);->)/' 2,*-=-*,6I' , 12' D*5 2.' & ,)',)*' 2>/;. 12' 1 '6=1.,1/*, 'M 6/?*-X' 620' *L,*20.',1',-;,)' 1 '01>,-2*' ;.*' 1 ' ?*62.'M6.' 8*// 6.'.6>-6?*2,.X' 2., ,;,*0' D ')- .,' 62, _; , '8 ,)1;, >)625*' 1 '01>,-2*' 620' ;2 +*-.6/ , ' 2' ,)*' .*=.>' % >*',)*' =-*+6/*2>*' 1',)*');->)' .;>>*.. +*/ ' 2' 6// 26, 12.' M -% */OX% ()., .*20*2> ',186-0.' 1?62^ [25'+*8.')6.'>;/? 26,*0' 2' 8)6,'.A 1-'>12+*2 *2>*' ,*-?*0',)*' :5)C);->) ' 1-' 6>-6?*2,6- 62' =6-, .1?*1'8)1?'1=*2/ '60+1>6,*' 6' ;2 1 '1',)*');->)' 1 ' 25/620' 8,)',)*');->)' 1 ' 1?*' 620',)*' 4-**9');->) ' 2' 1-0*-',1' -*6/ [*C',)*-' 21,*' 1 ',)*' + . D/*' ;2 , '1 ',)*');- >)% ' ,' .' 81-,) '1 '-*?6-9 J' .6 . ,,12' ',)6,'*+*- ',)*1- '1',)*');->)' 8)*,)*-' ,' 1-' 21,*8)>)',*6>)*.',)6,',)1 .' .*' ,1' D*' 1?62.',1-'21,*8)>)',*6>)*.',)6,',)1 ;.-;*' D* 25' ,)*-*1 '/*-' 2' ,.' + . D/*I' >)6-6>,*- .,>' 601=,. 2., 2>, +*/ ',)*' 1? .)' 21,*.' 620' -*A*>,.',)*' = 1,*.,62,%J M>X' ()*0 ., 2>, +*/ ' ,1,*.,62,'21,*.J' 'C()*=-*6>) 25'1',)*=;-*' %1-0' 410' 620',)*-5),' 60? 2 .,-6, 12'1',)*' .6>-6?*2, - '6-*'6==/ >6D/*'21,',1' ,)*? .,>6/ D10 '1' >)-.,'D;',1',)*' + . D/*');->)' 1-' -6,)*-',1' >);->)*.' 1' >125-*56, 12.' 1 'D*/ *+*-.^ ()*' -1,*.,62,' .6 .' 2' 5*2*-6/',)*' >);->)' M1-/6' =6-,'1 ',X' .',)*-*' 8)*-*',)*' & 1-0' 620',)*' .6>-6?*2,.' 6-*↑ 620',)*' .1> *, ' 2' 8)>)',)*' 12*' .'=-*6>)*0' 620' ,)*' 1,)*-'60? 2 .,*-*0' .' 6//*5, ?6,*' =6-,'1 ',)*' + . ^ D/*' 6,)1/>');->)J' M ,12' , ' " ' "') /6% =% K X' ' 1?*' 1-?;/6- *. ' *% 5% ,)1' >1,>)' 12 'M6-,%

DJE

1= 2 12 ,' .' 1 '21' 6+6 / ' . 6 .' =- 62 ' 8) 6,' 6' ? 62' .*6>) * .' ,' .' *21 ; 5)',) 6,') *' ,*6Z7*.' 1 ; ,' 1 ',) *') ; ->) ' W+) *-*' ,) *' D .) 1=' .' ,) *-*' .',) *' >) ; ->) ' *,> ( ) *' -11,.' 1 ',) *' *L,-* ? *' >) ; ->)' 01>,- 2*' 6-*' ,1' D*' ,-6>*0' ,) ; .' I >6-/ ' -*6>, 12 ') 1 8 *+*-' .112',119' =/6>*' 5-1 8 25' 1 ; ,' 1 ' 6' ? 1-*' .> *2, >' 0 .>*-2 ? *2,' 1 ' ,) *' .= - ,; 6/ 0*6' 1 ',) *') ; ->) /* ? *2,' >6//.' ,) *') ; ->)' 6' >1 ? ^ ? ; 2 , ' 1 ' ? *2' /*0' D ',) *' 0 + 2*' ' 62' 2+ 2> D/*' > , ' ;=12' *6-,) ' 8) >)' 21' 1->*' ' . ; D0 ; * ' 8) *-*' ,) * 8 // 1 ' 410' .'012*' 6.' ,' .' 2') *6+*2 ,) *-.' >1 ? D6,^ *0' ,) *' 1 ; , 8 6-0' ; 2 , ' 1 ' ,) *') ; ->) ' 6.' ; 2 .>- =, ; -6/ < 12,62 . ?' 2. ..,*0' ,) 6,' ,) *' ; 2 , ' .' 2 8 6-0 ' ,' -*^ 56-0*0' ,) *' 2,*-26/ 6>,' 1 ' =1 .. *.. 25' ,) *' = - ,' 6.' ,) *' ; 206 ? *2,6/ ,) 25 ' 21',' ,) *' 1-0 26- ' 2 / ; *2>*' 1 ' 1 ' ,) *' .= - ,' .62>, >6, 12 ' D ; ,') .' *L,-61-0 26- ' =18*-' 2' 5 + 25' 2*8' -*+*/6, 12. ' 8) >)' 8*-*' ,) *' .1 ; ->*.' 1 '6 ' ; ,) 1- , ' 620' ; 2 , ' 2' ,) *') ; ->) 6-^ ,) *-' -*6>, 12' 1 ' .*=6-6, . ?' 656 2. ' ,) *' 6,) 1/ >' 0*6' ,119' =/6>*' 2' 1+6, 62' 620') .' 1//180 .' ( ) *' 2^ . .,*0' ,) 6,' ,) *' 6,) 1/ >') ; ->) .' *..*2, 6// ') 1/ ' 2' 6// ,.' ?*? D*-.' 620') *2>*' ? ; .,' *L>/ ; 0*' -1 ?' ,.' >1 ? ^ ? ; 2 12' 6// ; 2 8 1-,) ' ?*? D*.' 620' 2*+*-' -*60 ? ,/ *? ' 1,) *-8 .*' ,' 8 1 ; /0' /1.*' ,.' >6,) 1/ > , ' ( ) *' >12.*_ ; *2,/ ' 8 ,) 0-*8 ' 620' >/6 ?*0',1' D*',) *' 6,) 1/ >) ; ->) ' ( ) *' 6/.*' 0*6/ . ?' 1 ',) *' 4 21.,>. 620',) *' .;DA*>, +*') *-*, >6/' 620' .>) . ?6, >6/ ,*20*2> *.' 1 ' .*=6-6,*' .*>,.. ' *.=*> 6// ' 1 ',) *' < 12,62 .,.' 620',) *' 1/^ /18*-.' 1 ' 1+6, 62' M,) *' =- ? , +*' ; - ,62.X ' 1-?' 6' .,- 9 25' >12,-6.,' 8 ,) ',) . ' 6/.*' *L,*-26/ ; 2 , ' 1 ',) *' 6,) 1/ >) ; ->) J' M.**' : 65*2D6>) ' 620' *620*-X' ' (81' >6 ; .*.' >12,-D ; ,*0' M 2' ,) *' .*>120' =*- 10M1',) *') ; ->) ') .,1- X',1' 0*,*-? 2*' 6D1 ; ,' ,) *') ; ->) a' ( ) *' *L,*-26/ ,- ; ? =) ' 1 ',) *') ; ->) ' ,.*/ ' 2' ,.' + >^ ,1-X' 1+*-' 6562 . ? ' 620' ,.' - . 25' =18*-' ; 20*-' ,) *' =-1,*>, 12' 1 ' ,) *' .,6,*' K' ( ) *' + >,1- ' 1 ' ; 5 ; ., 2C' .?' 1+*-' ,) *' 01>,- 2*.' 1 ',) *' */65 62 . ' < 62 >).*62.' 620' 126, .,. ' 8) >)' 2' 0 *-*2,' 86 .' ,) -*6,*2*0',1' 0*.,-1 '*>>/*. 6., >6/ ; 2 , ' 2' 1=1. , 12',1',) *' 1^ 26, .,. ' ; 5 ; ., 2*' 6..*-,*0',) 6,' ,) *') ; ->) ' >12. .,.' 1 ',) *' .; ?' ,1,6/ 1 '6// 8) 1' 6-*' D6=, [*0' 620',) 6,' ,) *' M 0*6/X' .62>, , ' 1 ',) *') ; ->) ' .' 21,' ?=6 -*0' D ',) *' ?=; -*' */*? *2,.' *L,*-26// '>122*>,*0' 8 ,)' ,' ( ) *' D .) 1=.' 1 ' 1?*' ?=-*..*0' ; =12',) .' 6,) 1/ > .' ?',) *' .,6 ? =' 1 ',) *' =6=6/) *-6->) 'D '>/6 ? 25' 1-',) *? .*/+*.' ,) *' =- ?6> ' 1 ' *,*-' ; ,' 8') 6,*+*-' +6- 62,' 1= 2 12.' 8*-*') *0' -*. ,=*>, 25',) *' .*6,' 620' 26,; -*' 1 ' ,) *' ,-;*') ; ->) ' ,) *' =-1=1. , 12',) 6,' I" ' ' ' ' ' ' " ' " '" 86.' -?/ '60) *-*0',1 '620' >6-- *0' 1 ; ' 2' 6// ,.' >12.*_ ; *2>*.J' M : 65*2D6>) ' +1/' =N KX' ,' .' 81-,) ' 1 ' 21,*' ,) 6,' 6',) .' =*- 10' B1+ 2 62',6 ; 5),' ,) 6,' ,) *') ; ->) ' .' 1 ; 20*0' 12' 6 ,) ' : 1=*' 620' 1+*' 2' ,) .') ; ->) ' ,) *-*' .' 21,) 25' ? =; -*' *+*- ' 12*' .' ,6 ; 5),' 1 ' 410' 21' 12*' >62' D-*69' 2,1' ,' D ' + 1/*2>*' 1-' ..*6/' 2,1' ,' D ' 6-, >*%J' .' B1+ 2 62',6 ; 5),' ,) *' 6 ; / 2*' 0*6' 1 ' ,) *' 2+ . X/*') ; ->) ' 8) /*' ; 5 ; ., 2*' 1D..-; >,*0') .' . ? /6-' ; 206 ? *2,6/ 0*6' D ' 6' ? L, ; -*' 1 ' ,) *' 6,) 1/ > 0*6' 1 ',) *') ; ->) %J' : *-*' 656 2' 8*') 6+*' 6' . 52' 1 ' ,) *' -1,*.,62,'*/*? *2,' 2' ; 5 ; ., 2* ' M) >1 ? ? *2,' 12' ,) *' ( ) 1 ;' 6-,' *,*-J X ,) 6,' 6//-*/ 5 1 ; .' >12.> 1 ; .^ 2*..' .' ? ? *0 6,*/ ' ,1' D*' ,-6>*0' ; =',1') - . , I 620',) 6,' 8 ,) ') ?',) *' >1 ? ? ; 2 , '1- 5 26,*.' 8) >)' .' >6//*0',) *') ; ->) J' M *620*-' " ' ' +1/%' =% NR ' NR : X% $2, /' ,) *' ,) ' >*2, ; - ' ,) *' 1? 62') *-6->) ') 60' >1 ? =6-6, +*/ '21' 1==1. , 12' 2' >6-- 25' 1 ; ,' .; =-*? 6^ > ' 2' ,) *' &*.',1' ,' ;//*.,'*L,*2,1' 5,' ,) .', ? *' 6 -**-' ,3.=-.' D*562' ,1' .) 18' ,.*/ % +*2' 12' ,) *' 6,) 1/ > .,620C=1 2,' 6' 0 *-*2>*' 86.' ., --*0' -*.=*>, 25',) *' -*^ /6, 12' 1 ',) *' >) 625*6D/*' 620' ; 2>) 625*6D/*' 2' ,) *' 0*C I+*/1=? *2,' 1 ',) *') ; ->) 1' 12' ,) *' =1. , 12' 1 ',) *' =6=6^ > ' 2' -*.=*>,' 1 ',) *') ; ->) 1' 8) *,) *-',) *' =1=*' 86.' ,1' D*' -*56-0*0' 6.' ,.' -*=-*.*2,6, +*' 1-' .1+*-* 52') *60 1' 8) *,) *-',) *' 5*2*-6/>1 ; 2> /.' 1-',) *' =1=*' .,110') 5) *.,% ( ) *' $2 +*-.' ,' 1 ' 6- . ' 8 ,)' >) 62>*//1-' 4*-.12' 6,' ,.')*60 ' /*0' 12',) .' >12,-1+*-. % **' & ' ( ) *' ? ., >6/ 0*6' 1 ',) *') ; ->) ' 620',) 6' 21, 12' 1 ' 6' ; 2 +*-^ .6/ =- *.,) 110 ' 8) >)' 86.' 2, ? 6,*/ ' >122*>,*0' 8 ,)' ,' 86.' =-1=1 ; 20*0 ' 8 ,)' ? 1-*' 1-' /*..' 6>> ; -6> ' 1 ' 0* 2 ^ , 12 ' D ' : ; 51' 1 ' ,% >,1- ' 6.' 8 *// 6.' ',) *' 1-*-; 2^ 2*-.' 1 ',) *' * 1-? 6, 12 ' & >/ * ' < 6,,) 6.' 1 ' B6218 ' : ; .. ' B1) 2' 1 ' & *. */A & *. .*/ ' 620' 6+126-1/6J' M : 65*2^ D6>) X% ( ) *.*' .*20*2> *.' 8 *-*' ;// ' 0*+*/1=*0' 2' ,) * * 1-? 6, 12' 620' 2' : .' -*. ; /,.% ( ) *' & *. ,*-2' -*/ 5 1 ; .' 81-/0' D*>6 ? *' 0 + 0*0' 2' ,) *' ..6,*? *2,' 1 ',) *7) ->)' 015 ? 6 ' 6.' ,' /119*0' 6,' ,) *' _ ; *., 12' 1 ' .6/+6, 12% ( ) *' -1,*.,62,' -*56-0 25' ,) *' 01>,- 2*' 1 ' A ; ., >6, 12' D ' 6 ,)' 6.' ; 206 ? *2,6/ ' .6 0' ,) *') ; ->)' .' 6==-16>) *0' ,) -1 ; 5)' ,' ,) *' 1 ? 62 .., ' ., // 60) *- 25',1' ,) *') ; ->)' 6.' ,) *' 1 ; 2,6 2' 1 ' .= - ,; 6/ / * ' 6 - ? *0' ,) 6,' A ; ., >6' , 12 .' 1D,6 2*0' ,) -1 ; 5)' ,) *') ; ->) ' 0*+*/1=*0' 2' ,) *' .*-,' ,) 6,' ,) *) ; ->)' >12. .,' 2' ,) *' 2+ . D/*' *//18.) = 1 ' 6//' ,) 1.*' 8) 1' 6-*' ; 2 ,*0' D ' ,) *' D120.' 1 ' ,-; *' 6 ,) ' 8) >)' 0*6/ ; 2 12' .' D ; ,' ?=*- *>,/ ' -*=-*.*2,*0' D ' ,) *' + . D/*') ; ->) ' 2' 8) >)') ,' ,-; *' 41.=*/ .',6 ; 5), ' 620',) *' .6>-6? *=,.' 6-*' - 5),/ ' 60? 2 .,*-*0 ' ,) *' 1^ ? 62' 6,) 1/ >.' ,) 6,' ,) *') ; ->) ' .' 6' + . D/*' .1> *, ' 1 ' 6// D6=, [*0' =*-.12.' 8) 1' 601=,' 6' >*-,6 2' *L,*-26/ >-**0') 6+*' ,) *' .6?*' .6>-6?*2,. ' 620' 6>9218/*05*' ,) *' =1=*' 6.' ,) *-' >1? ? 12') *60% O ( ) *' -*>*2,' >12,-1+*-. *.' >12>*-2 25' ,) *' 0*6' 620' 26, ; -*' 1 ',) *') ; ->) ' 6// -*+1/+*' 6D1 ; ,') *' 12*' =1 2, ' + [% ' 8) *,) *-' ,) *') ; ->) ' 1 ' 8) >)') - . ,' . ,) *' ' : *60J' .' 1-' .' 21, ' 6' + . D/*' >1-=1-6, 12') *-*' 12' *6-,) ' *2, ./*0',1' ,) *' =-1? .*.' =- + /*5*. ' 20' 6 ; ,) 1-^ , ' 8) >)' ,) *' >- =, ; -*.' 6.. 52',1' ,) *' .= - ,; 6/) ; ->) % -1,*.,62,.' 5*2*-6// '0*2 1' ,) *' 1? 62 ..' ,) *' : 5) C 25/ >62.' 620' 6' *8' 8 - ,*-.' 2' 1,) *-' D-62>) *.' 1 ',) *' -1,*.,62,') ; ->) ' 6 -? % ( ) *' .1C>6//*0' *8C ; C ,) *-62' 0 + 2*.' 1 ' 4*-? 62 ') 6+*' 0*+*/1=*0' 6' ,) *1- ' 1 ',) *') ; ->) ' 2' 8) >)' ,) *' -1,*.,62,' 0*6' 5 +*.' +-6 ' ,1' ,) *') *-6->) >6/1' 2' 87A >/' ,) *' .6>-6? *2,. ' 6-*' 21, ? *-*/ ' 21,*.' 1 ',) *' ,-; *') ; ->) ' D ; ,' ,D*' -*6/ 5 ; 6-0.' 1 ' ,.' >ZP2, 2 ; >0 / *% ( ) *' =-1 1 ; 20' 620' ? .,*- 1 ; .' . 2,) *. .' 1 ',) *' 0 + 2*' 620' ? ; 62' .' 1 ; 20' 2' 6,) ' 6>>1-0 25',1' ,) *' 1/0' -1,*.,62,' . .,*? 1' 6>>1-0 25',1' ,) 1' 2*8 ' ,' .' 1 ; 20' 2' ,) *' .6>-6? *2,.' M>1 ? =6-*' >7 86-,[' . ' ? " " ' !' 2 ' -" ' D9% ') % X% 1,) *') 6. 0*+*/1=*0' 8 ,)') .' ; .; 6/ + 51-' 6',) *1- ' 1 ',) *') ; ->) ' 69 2',1' ,) 6,' 1 ' -21/0' + [% ' ,) 6,' ,) *') ; ->)' .' 20 .=*2.6D/*' ,1' ,) *' ? 1-6/ *0 ; >6^ , 12' 1 ') ; ? 62 , 1' D ; ,' ,) 6, ' 6.') ; = 62 , ' ?=-1+*.' ,) *' 2*>*.. , ' 1-',) *') ; ->)' 0 ? 2 .) *.1' 620' 26// ' ,) *' .,6,*' 8 // D*>1 ? *' -*/ 5 1 ; .' M6' -*6/ ,) *1>-6> X' 620' ,) *') ; ->)' 8 // D*>1 ? *' 6D.1-D*0' 2' ,) *' .,6,*% ' ' " ' " ' " ')- . ,' 0 0' 21,' .1' ? ;)' >-*6,*' 6') ; ->)' 0 ; - 25') .' .1A1 ; -2' 12' *6-,)' 6.' ? =/62,' =- 2> =/*.' 8) >)' 81 ; /0' D1' . ; D.*_ ; *2,/ ' 0*^ +*/1=*0' 2,1' 6') ; ->) % &) /. ,') *' 86.' *,' 8 ,)') .' 0 .> =/*. ' ,) * ' 2**0*0' 21' 1,) *-' D120',1') 1/0' ,) *? ',1^ 5*,) *-',) 62') .' =*-.12% ( ) *' 1; 20*-' 1 ',) *' 2*8' ? 62^ *.,6, 12' 1 ',) *' 9 2501?' 1 ' 410' .** ? *0' 21,',1' 0*. 52' ,1' >1 // *>,' 6D1 ; ,') ?' 2 ; ? *-1 ; .' 60) *-*2,. ' D ; ,' ,1' ?^ =/62,' 0**=/ ' 2,1' ,) *' ? 20.' 1 '6' *8',) *') 5) *-' 62 ^ ? 6, 25' .= - ,' 1 ',) .' 9 2501?' 1 ' 8) >)' ,) -1 ; 5)' ,) *' -/ + *.' .) 1 ; /0' 81-9' 1 ; ,' 2,1' 6' >1 ? =/*.*' 620' *>, +*' 1-^ 562 [6, 12% : *' 1 ; 20',) 1.*' 8) 1 ? ') *' >6//*0' 1-',) .' 81-9' B*8 .') *' 6..1> 6,*0' 8 ,)' 620' 2.,-; >,*0',) *? ' 6 ^ ,*-',) *' >$L ,12?.' 1 'B ; 06 . ? ' 0 ., 2>,/ ' ,1/0',) *? ') 18*+*-' ,) 6,' ,) * ' 2' ,) *' -' =*-.12.' 6 ,) ' / *' 620' ,*6>) 25' 8*-*' ,1' >12.. ; ,.*' ,) *' D*==22 25' 620',) *' 65*2> ' 1 ' 6' 2*8' 1-0*-' 1 ' ,) 25.% ( ) *' 8*-*' >1 ? C I' ? 620*0' ,1' 51' 1-,)' 6 ,*-') .' 0*6,)' 620' 0 .> =/*' 36// 26, 12. ' 620',1' D6=, [*' ,) *? ' 2' ,) *' 26 ? *' 1 ',) *' 6C ,2*-' ,) *' 12' 620',) *' : 1/ ' 4) 1. ,' 620',) ; .' D- 25' 0// =*1=/*' 2,1' ,) *' 9 2501?' 1 ' 410% ,' .' ,) ; .' >/*6-' ,) 6,' ,) *' -*/ 5 12' 1 ') - .,' 86.' 0*. 52*0' D ') ?' ,1' .;=*-.*0*' 6// 1,) *-.' 21,' 12' 1 ' ,) *' =6=6-' ; .*2>*' D ; ,' 6/.1' 2' ,) *' =6-, > ; /6-' ? *,) 10' 1-' 1-?' ' ,.' ? 62 *.,6, 12% :*' ? 60*' =-1+ . 12' 1-' ,) .' -*. ; /,' D ' >12. , ; , . 25' 6=1. /*. ' 8) 1' .) 1 ; /0' 6 ; ,) 1- ,6, +*^ / ' >1 ? ? 620' 620' ,*6>) ' .) 1_/0' 1=*2' 620' .) ; ,' ,) *' 9 2501?' 1 ') *6+*2' D 20' 620' /11.*' 12' *6-,) ' 620' .1' -*20*-' + . D/*' 620' =18*- ; /') .' & 1-0' 6? 125' ? *2%

* 1-*' *2,*- 25' ;=12',)* -' ? .. 12 ',)* '8*-*',1',6-- ' 2' B*-; .6/*?' ;2, /' *20;*0' 8 ,)'=18*-' -1?' 12') 5)' M ;9*X'8) >)' =18*-',)* ' 8*-*' 6. . ;-*0' 81;/0' >1?*' 21,' ?62 ' 06 .' 6 ,*-' ,)*' 6.>*2. 12' 1 ',)* -' 1-0% ( )6,',)* ' 6/-*60 ' -*>152 .*0',)*?.*/+*.' 6.' >)1.*2' 1-' 6') 5)' *.=*> 6/ 81-9' .' *+ 0*2,'D ',)* -' // 25' ;=' ,)*' +6>62> ' 2' ,)* -' 2; ?D*-' >6; .*0' D ',)*' 6=1..,6. ' 620' 0*6,)' 1 'B;06.' .>6- 1,' 8 ,)',)*' .*/*>, 12' 1 ' 62C ' 1,)*- /6,,) 6.',1' //') .' =/6>*' M >,.' ' 'KS X% ( ) ;.' >1?=/*,*',)* ' >12, 2;*0',1' 86 ,' 620' =-6 ' 1-' ,)*' .=6>*' 1 '.*+*2' 06 .% &)*2',)*' 06 '1 ' *2,*>1.,') 60' ;// '>1?*' 8) /*',)*' 6=1.,/*.' 620' 0 .> =/*.' 6') ;2^ 0-*0' 620',8*2, ' 2' 2;?D*-' 8*-*' 6..*?D/*0A2' 1-' 2*6-' ,)*' (*?=/*' 1-' ,)*' ?1-2 25' 0*+1, 12.' 1 ',)*' *.,6/ 06 '620' 8*-*' 86 , 25' 2' =-6 *-' 1-',)*' ;/ /?*2,'1 ' ,)*' =-1? .*' ,)*' *L6/,*0' 6+ 1;-' =1;-*0' 0182' -1?') .')*6+*2/ ',)-12*' ,)*' ;/2*..' 1 ',)*' : 1/ ' 4)1.,' ;=12' ,)*?' 620' 1;20*0') .') ;->)' ;=12' *6-,)J' M >)6 ' " '" # 1'+1/% '=% RX% ( )*' 06 '1 ' *2^ ,*>1.,' ?6 ' D*' -*56-0*0' 6.',)*' D -,)06 '1 ',)*')- .^ , 62') ;->)% ( )*2',' 86.' 1-?*0',)*2>*' ,.'5-60;6/ 0*+*/1=?*2,'=-1>**0*0% ( )*-*' .' 6' 0 +*-. , '1 '1= 2^ 12' 6.',1',)*' 2,*-26/ =1/ , ' ,'6. . ;?*0' 6.% ? 5),'D* *L=*>,*0'D ;,' ,'? ; .,'D*'>12>*0*0'D '6//',)6,',)*' 6=1.^ ,/*.' 81;/0')6+*' .; > *2,'5; 062>*J'6.',1',)*' ?62^ 2*-' 2' P)>)' ,' 86.' ,1'D*' 1-562 [*0% ( ) .' 5; 062>*' 01*.' 21,' ?=/ ',)6,',.'% ' ? ; .,')6+*' D*'2' 5 +*2',1'A,)*?'D ')-.,'D;,' 12/ ' .;>)' 0 -*>, 12' 6.' 81;/0'/*60',)*?',1'=;-.;*',)*' 8 .*.,'?*,)10.% 12^ .*_;*2,/ ',)* 'D*562'D '=-*6>) 25' 620'6.'>12+*-,.' 8*-*' ?60*'D 'D6=, [25',)*?'620',)*2',69 25',)*?' 2,1'6'>/1.*-' *//18.) =' 1-',)*' >*/*D-6, 12'1',)*' 1-0 .' ;==*-' .= - ,;6/' 2.,-;>, 12'620'81-.) ='M >,.' ' K' *,>%X% .' ,)*' 8*-*' B*8.' ,' 86.' / 9*/ ',)*' 81;/0' 601=',)*' ?*,)10.' 1' 81-.) =' 51+*-2?*2,' *,>% ',1' 8)>)',)*' 8*-*' 6>>;.,1?*0% ->)D .)1=' &)6,*/' .6 6' I) ' '" ' 1' =% QQX ' ,' 6=^ =*6-.') 5)/ '=-1D6D/*' ' ? 5),' .6 ' ?1-6// '>*-,6 2' ,)6,',)*' . 26515;*' 86.' D-1;5), ',)*' 8)1/*' 1-' >)*' =6-,' 1 ' , ' ',1' *?D-6>*',)*' 41.=*/% ( )*' 6=1.,/*.' 0 0' 21,',)*2' .1' ?;>)' 1-?' 6')-.,62');->)' M1-' >125-*56,12' (8 6.' ?69*' 62' *L .,25' >125-*^ 56,12')-.,62' D ' 2,-10;>25',)*')-.,62' .6>-6^ ?*2,.' 620' 81-.) ='620'*.,6D/.) 25' 8)6,*+*-'-*5;/6^ ,12.' 8*-*' 2*>*..6-' 1-',)*' 2*8/ C601=,*0' 6,) '/*6+Fl' I 25',)*' ?6>) 2*-' M ' ' ?6 ' .1' .=*69X' 1 '51+*-2?*2,' ;2>)625*0' ,)*'-;/*-.' 1 '. 26515;*.' */0*-.' 620' 1,)^ *-' 1 >*-.' 8)*,)*-' .= - ,;6/' 1-' *>>/*. 6.,>6/' 1-' D1,)' D* 25' 6/-*60 ' =-1+ 0*0' 2',)*' *L .,25' 2.,;, 12.%J' ,- 256'M.**') .' ' '$ 'N 11' *620*-' ,,12' 620' ?62 '1,)*-.' 65-**' 2',) .' 1= 2 12',)6,',)*' . 26^ 515;*.' 8*-*',)*' =6,,*-2' 8)>)',)*' 6=1.,/*.' =-1=1.*0' ,1',)*?.*/+*.',)1;5)' ,' ' 21' ?*62.' >*-,6 2',)6,',)*' 601=,*0' 62 ' ?10*/ % //',)6,'>62' D*' 012*' 2',)*' 0*,*-? 26, 12' 1',)*' =1/ ' =',)*' % ' " '" .' ,1',-6>*',)*' =-6>,>*' 1',)*' 6=1./*.' 6.'-*>1-0*0' 2',)*' -' 6>,.' 620' 8- , 25.% ( ) .' =1/ ' .' 21,'=-*.*2,*0' 6.'/*5 ./6, +*' *26>,?*2,. ' D;.' ?=/ '6.' 6>,.' .)18 25')18',)*' 6=1.,/*.' 6>,*0' 2' 5 +*2'>6.*.% 2',)*' -.,'6>>1;2,'8*' 20',)*');->)' >1?=1.*0' 1',)*' 6=1../*.' 620' 1,)*-'0 .> =/*.' 620',)*2' 1',)*' 6=1./*.' 620' ,)*');/, ;0*' 1',)*?',)6,'D*^ /*+*0GJ' :*2>*' ,' 6==*6-.',)6,',)*');->)' 86.' 6,' -.,' >1?=1.*0' *2, -*/ ' 1' ?*?D*-.' .,620 25' 12' 62' *_;6/ , ' 8 ,)' 12*' 621,)*-' 620',)6,',)*' 6=1.,/*.' 6/12*')*/0' 6') 5)*-' -629' 620' *L*-> .*0' 6' 0 -*>, 25' 2/;^ *2>*' 1 *-' ,)*' 8)1/*' 8)>)' 6-1.*' -1?',)*' 1- 5 26/ =1. , 12' 2' 8)>)')-.-',)60' =/6>*0',)*?' 2' -*/6, 12' ,1' 1,)*-' D*/ *+*-.' M *620*-' ' - 1' =% NKX% ( )*' 6=1../*.' 6.' 2*>*.. , ' -* _; -*0' >-*6,*0' 1,)*-' 1 >*.',)*' -.,' 1' 8)>)' 8*')6+*' ?*2, 12' .' ,)6,' 1 ' 'I") (8 M >,.' I+' X' 1//18*0' .112' 6 ,*-'D ',)7,'1 ' 'I- % 1 -I 8 M >,.' L 'N X% ( )*' , ?*' 1 ',)*' >-*6, 12' 1 ',)*' 1 >*' 1 ' *'/0*-' 1-' =-*.D ^ ,*-' .' 21,'5 +*2 ' -1?' 8)>)' ,' .' 21,'>/*6-' 8)*,)*-' 6-1.*' D* 1-*' 1-' 6 ,*-',)*' 0 6>126,*% ( )*' -.,' -* *-^ *2>*',1' > 0*-.' 6..; ?*.',)*' -' *L .,*2>*% ( )*' 1 >*' 1 */0*-' 620',)6,' 1 'D .)1=' 6-*' 5*2*-6// ' >12>*0*0',1')*' 0*2, >6/% ( )*' 6=1.,/*.' 0*6>12.' 620' */0*-.' 8 ,)' ,)*' 8)1/*' D10 ' 1 ', D/ *+*-.' 2' *+*-' ' =/6>*' >12.,,;^ ,*0',)*' ?*?D*-.) =' 620' 51+*-2?*2,' 1 ',)*');->)% ** 8 ' / ( )*' 0*6>12.' 8*-*' 1+*-.**-.' 1 ',)*' =11-' 620' =-1D6D/ ' >120;>,*0' -*/ 5 1;.' 81-.) =' 620' 60? 2 .,*-*0',)*' .6>-6?*2,.' M >,.' + 'NQX% ( )*' >/*-^ >6/ ;2>, 12' 1 ',)*' 0*6>12' .' 0 .=;,*0' M.**' & ' "!' ' -+ !' ' +1/% +' =% N X% ( )*' */0*-.' 8*-*' 6==1 2,*0' 21,' 12/ ',1',*6>)' 620' 60? 2 .,*-',)*' .6>-.65*' =)*?2,.') ;,' 6/.1',1' 51+*-2',)*');->)^ *.' 2',)*' 6D.*2>*' 1',)*' 6=1.,/*.' M >,.' LL' KQ' *,>%X% ( )*' ? 2 .,- !')18*+*-' 86.' 21,'>12 2*0',1',)*.*' 1-^ 0*-.' ' ,' 86.' -6,)*-' 6' 5 ,' 8)>)' 62 '12*' =1..*.. 25' >1;/0' *L*-> .*' ;20*-' 0;*' -*5;/6, 12.% ' -* *-*2>*' ,1' ' 1-% L ' C K' 6/.1' KQ' ,' 8 // D*' .**2',)6,' 6=1.^ ,/*. J' =-1=)*,. J')*/=. J' 620' 51+*-2?*2,. J' 6//' =*-,6 2',1',)*' ? 2 .,- ' 6/.1' 2',)*' >1--*.=120 25' =6..65*' =)*.% + ' K',)*' ? 2 .,*- 6/ 1 >*' .' 6.^ >- D*0',1',)*' 0 -*>,'65*2>' 1',)*' : 1/ ' 4)1.,a' :*' 56+*' .1?*' 6=1../*.' 620' .17*' =-1=)*,.' 620' .1?*' *+625*/ .,.' 620' .1?*' =6.,1-.' 620',*6>)*-.' 1-',)*' =*- *>, 25' 1',)*' .6 2,.' 1-',)*' 81-9' 1',)*' ? 2 .,- ' 1-',)*' *0 25' 1',)*' D10 ' 1 ')- .,%J' 3 ( )*.*' =6.^ .65*.' *..6D/ .)'21,) 25'-*.=*>, 25',)*' ? 2 ..*- 6/ 1',)*' 6=1.,1/ >' 65*T' 8)6,',)*' '01',*6>)' ;.' .',)6,' .= - ,;6/' *2018?*2,'2*>*..6- ' 1-',)*' 1' 62' 6=1../*' 6' =6.,1-' 6' ,*6>)*-' 1-' 6' 51+*-21-' 1',)*');->)' 8)*,)*-',)*.*' ;2>, 12.' 8*-*' ;2 ,*0' 2',)*' .6?*' =*-.12' 1-' 21,' /18' 0 -*>,/' -1?')- .,' 620' 6-*' 6' =6-,' 1',)*' .,620 25',.= - ,;6/' 12>.,;, 12' 1',)*');->)J' M ,,12' =% N X% ( )*' ?62 1/0' 5 ,.' 1',)*' = - ,' 8*-*',*-?*0' 5*2*- >6// ' " 'I 1% % =' (8' 620' 8*-*' * ,)*-' 6' 26,;-6/' *2018?*2,'.62>, *0' 620' 6==/ *0';20*-',)*' 2/;*2>*' 1',)*' 1' / = - ,' 1',)*' *0 25' 1',)*');->)' 1-' 6' .;=*-26,;-6/' 5 ,' 1' 6' ? -6>;/1;.' >)6-6>,*-' 2',)*' *L*-> .*' 1' 8)>)',)*' 0 ^ + 2*' 65*2,' 86.' ?1-*' >12.=>;1;.',)62',)*');?62% 21,)*-' 0 + . 12' .' 2,1',)1.*' 8)>)' 0 .=/6 *0',)*?^ .*/+*.' 2' '620',)1.*' 8)>)')60' 6' ?1-*' =6-,>;/6-' -* *-*2>*',1' 6>, 12' M ,,12' *620*-' - :' /.)6;.*2' :119*-' *,>%X% ( )*.*' 5 ,.' ,' 6==*6-.' 8*-*' 21,' >12 2*0',1' 62 ' =6-,>;/6-' >/6..' D;,' 8*-*' D*.,18*0' 6.',)*' = - ,' .68' ,',1' 0 .,- D;,*' ,)*?% **' & ' / $! ( )*' % ' ;2>, 12' =*-,6 2*0',1',)*' ? 2 .,*- 6/ 1 >*' 12/ ' 2',)*' .*2.*' ,)6,' 6// D*/ *+*-.' 8*-*' =- *,., ' ,1' 1 *-' ;=' .= - ,;6/' .6>- >*.',1' 410' D ')- .,' M ' (*,*-' ' ' ' *,>%X' 620' 21' 21' .*2.*' 86.',)*-*' 6' .62>, , '6,,6>) 25',1',)*' ? 2 .,*-' 8)>)' 0 0' 21,'6,,6>)',1',)*' 1-0 26- 'D*/ *+*-' *L>*=,' =*-)6=.' ,1',)*' 1 >*' 86.' 21,' ,1' D*' =*-?62*2,' 2',)*');->)% 1')?62' ?*0 6^ ,12' .' -*=-*.*2,*0' 2',)*' *8' (*.,'6.' 2*>*..6- ' ,1' ,)*' .1;/ .**9 25',)*' 1-5 +*2*..' 1' .2.' 620',)*' -;,.' 1',)*' = - ,'*L>*=,' .;>)' 6.' ?6 '9218/*05*' 620' 6 ,)'D;,'2*+*-' 6.' % !)- .,' 620').' .6/^ +6, 12' 6->' *_;6// '6>>*.. D/*',1' ? 2 .,*-' 620' =*1=/*' 620' 12',)*' .6?*',*-?.% ( )*' % '1',)*' 6=1.,1/>');->)'>1?=-*)*20*0' 1;-'=6-,>;/6-.' 2' ,.'*L*->.*d ' 1,) 25'.>6206/1;.' 1-' 1 *2. +*' ;2,1' 62 ' *.=*>6// ' ;2,1',)*');->)' 1' 410' >1;/0' D*' 6//18*0' M ' 1-% L' 7 X T K% //',) 25.' 8*-*',1')*' 012*' 8 ,)'.**?/2*..' 620' 2' 1-0*-' M ' 1-% L + ' XT N% //' ;2,1' *0 >6, 12' M ' 1-' L + ' KSXT % //' ;2,1',)*' 5/1-' 1' 410' M ' 1-' L' N X% ( )*' %" ' 1' ,.' 51+*-2?*2,' 86.' . - >,/ ' .= - ,;6/% ( )*' 6=1.^ ,/*.')121-*0',)*>+/6;,)1-,'6.' 6' 0 +2*' 2.,;,12' 620' 2*A1 2*0' 1D*0*2>*' 2',)*' 06 .' 1 ' /6;0;.' 620' *-1' 6.' 0 0' 1;-' 6+ 1;-' 2' 6//,*?=1-6/' ?6,,*-.' -*2^ 0*-' 1D*0 *2>*',1' : *-10' 620'>1?*?620',)6,' ,)*',) 25.' 8)>)' D*/125',1' 6*.6-' .)1;/0' D*' -*20*-*0',1' *.6-%J' 6,' 2',)*' .= - ,;6/*>6// 25',)*'-;/*' 86.' ,1' 1 /*' 410' -6,)*-',)62' ?62 J' 620' 1-',) .' =- 2> =/*' ,)*' 8*-*' -*60 ',1' 0 *%

DJI

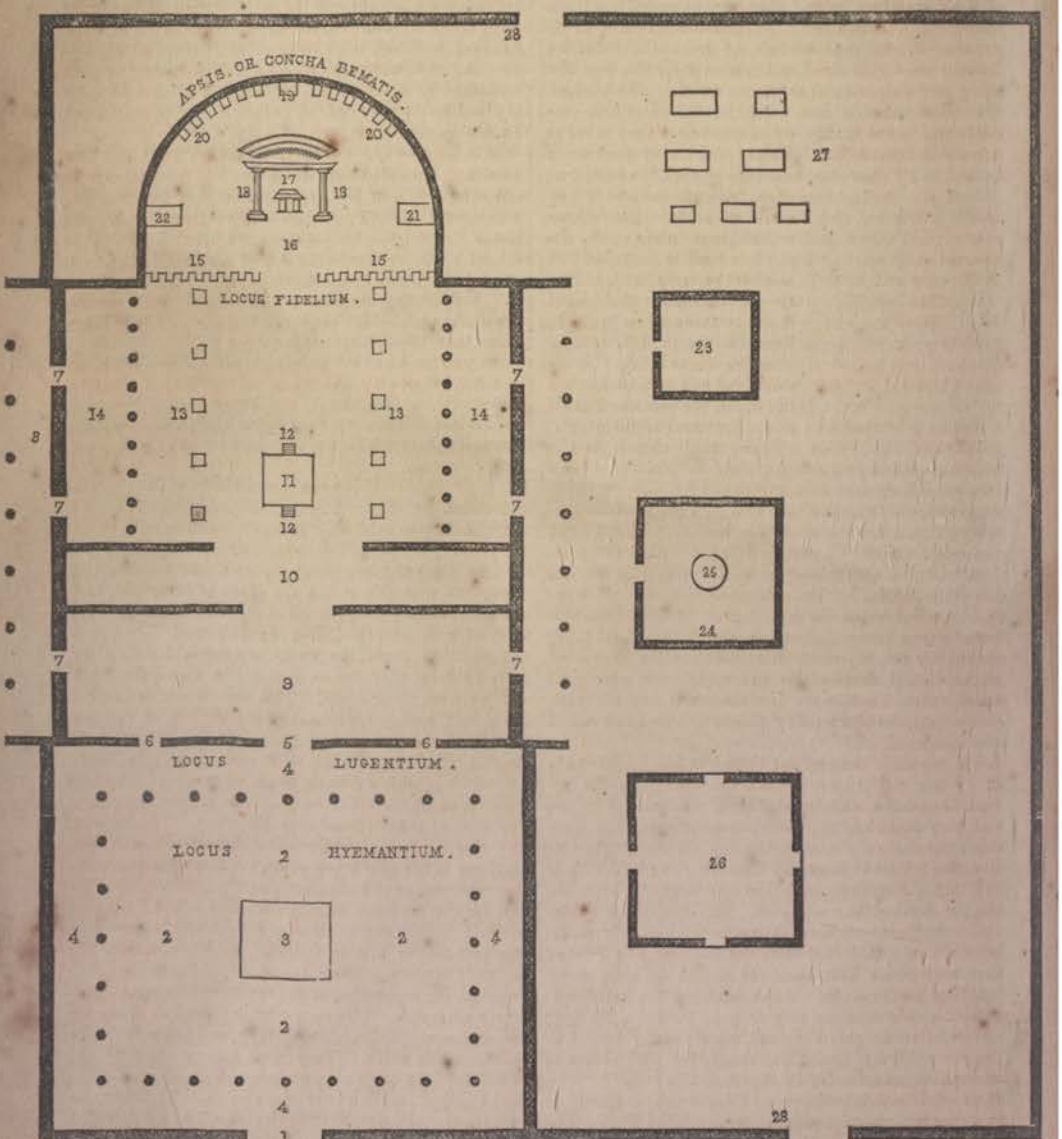
D*5 2.' 8 ,)' ,)*' -* 52' 1 ' 12..62, 2*' ,)*' 4-*6,% 2' ,)*' *6-.' Q K 620' N N ;// -**01 A' 86.' 5;6-62,**0',1' ,)*')- ., 62');->)',)-1;5)1;',)*' *?= -*% 112' ?=*- 6/ *0 >,.' 5-62,*0' ? 62 '=- + /*5*.',1',)*'>/*-5 % 8*69' .;>>*..1-.' 1 ')6-/*?652*' 8*-*' 21,'6D/*',1'>6-^ ( )* ' -*>* +*0',)*' .6?*' ? ?;2 , *.' 8)>)' 0*6.' 1 ',)*' 5-*6,' *?=*-1-' 620',)*' - ',)-1;5)',)*' 0*6.' 1 ',)*' 5-*6,' *?=*-1-' 620',)*' .*..*0'D ',)*'=6562'=- *.,. ' 620' .112' 8*-*'=-* *--*0',1' 26,,;-6/',*20*2> ' 1 ',)*');->)' 620' 2'=6-, >;/6-' 1 ',/*/6,,*-.'',)*'=6-, >;/6-' >)';->)*.'1D,6 2*0',)*'- 5),' ,)*'=1=*.','1'*/*+6,*',)* -' 0 52 , '6,',)*'*L=*2.*' 1 ' 1 '-*>* + 25'/*56> *.' ,)*' D .)1=.'-*>* +*0' .1?*' 9 20'),6,'1',)*'*?=*-1-.' ?*;' 8 ,)' D;,'/ ,,/*' -*. .,62>% 1 ' 20*=*20*2,'A;- .0 >, 12% ()*' *?=*-1-' 2' >12 *.^ ()*' . 210.' 1',) .', ?*'5*2*-6// '=-1=1;20*0', *'01>^ - 25',)*.*' - 5),. ' 6>,*0' -1?',)*' 1/0' 1?62' .,620^ ,- 2*',)6,',)*'=1=*')*/0',)*') 5)*.',=1. , 12' 2',)*' =1 2,'1 '>) * '1 ',)*'.,6,*' 2' ?6,,*-.'-*/ 5 1;.' 6.' 8*// 51+*-2?*2,'1',)*')- ., 62');->)'620',)*'*?=*-1-' 6.' .*>;/6-% ()*' -.,'*L) D , 12' 1 '6')- ., 62' ..,6,*' >)';-*D .?' 86.' 6' 0 -*>,' *?626, 12' -1?' =6562' ..,62>' 1 ' 20*=*20*2>*' 1 ')-., 62' 81-/0' D;,' ,)6,',)*');->)' 86.' ?1-*' ?^ + *8.',-62. *--*0',1',)*')- ., 62');->)% ()*' *?^ =1-,62,',)62',)*' .,6,*' 620',)*' 0 52 , ' = ',)*' =1=*' =*-1-' -*,6 2*0',)*' 620',)*' 26?*' 1 ' 5) *-',)62',)6,'1',)*' *?=*-1-% ()*' 2' =6-, >;/6-' =-1=656,*0' D ',)*' =.*201¢ . 01- 62' 0*^ !' 4-6, 62' 86.',)*' -.,' 8)1' /6 0' 6. 0*',)*' >-*,6/.' 8)>)' 6D1;',) .', ?*' 1D,6 2*0'6'/*60 25' 2 /;^ B8N ',)*'26?*' 86.'-*,6 2*0' ?;>)'/125*-% 2' *2>*' ;=12');->)'/*5 ./6, 12% ()*' 20*=*20*2>*' 1 ' ,)*' >*1 2.' 12..62, 2*'=/6>*0',)*'>-1..'6.'6'. ?D1/' 1 ?=*- 6/'=18*-' 1;20')18*+*-'.1?*' +*-.' *2*-^)- ., 62 , 'D ',)*'. 0*' 1',)*' .;2©510'6.',)*'-*=-*^ 5*,>' >)6?=12.' *+*2' 6?125',)*'D .)1=.!' 6.' 1-' 2^ .*2,6, +*' 1',)*'1/0'-*/ 5 12% ()*'*?=*-1-.',);.'-1?' ,>42>*' :2>?6-'1')* ?.'% QQ X% ;- 25',)*'2 2,)' , *' .,6-,' D*562',1' + *8',)*?.*/*+*.' ?1-*' 6.'=6,-12.' 620' 2*,2,)' >*2,;-*.',)*' 6;,)1-,A' 1 ',/ *' =6=6/% .** 6 2' 6.' ?*?D*-.' 1 ',)*')- ., 62');->)' 620' ,)*' 5-*6,/ ' .; *-*0' -1?',)*' ?7 1-6/ >)6-6>,*-' 1 ' .1?*' >) * .' 1 ',/ *');->)' 8*-*' 12' ,)*' 8)1/*' 8*// =/*6.*0' 1 ',.'1>>;=62,. ' 620' ,' 86.',)*-* 1-*' *6. ' 1-',)*' 5-*6, 8 ,)',)*'=- + /*5*.' 8)>)' 8*-*' >12 *--*0' ;=12',)*?' 4*-?62' *?=*-1-.' 1',)*' 5-*6,' 620',)1;5),/ ,,/*' 1 '0 .=;, 25',)*' 2 /;*2>*' 8)>)',)*' =18*-'6.',)*' *L=*2.*' 1',)*'=6=6/% ()*' *?=*-1-.' ,// *?=*-1-' 5-60;6// ' >/6 ?*0',1' *L*-> .*' ;=12');->)' 0**?*0',',)* -'0;, ',1'*L*>;,*',)*'/68.'1',)*');->)' 6 6-% 2',)*' 6.',) .' .;D*>, 12' 1',)*' *>>/*. 6.^ 620'*L>1?2;2>6, 12' 86.' -*_;*2,/ ' 1//18*0'D',)*' , >6,/ 6;,)1-, *.',1',)*' .,6,*' 51+*-2?*2,.' 8*2,' ?;>)' D62'D;,'6,',)*'.6?*',)*'*?=*-1-.' -*>1+*-*0' ;-,)*-2' 6;,)2' 2',)*' & *.,' 620')6.'-*?6 2*0'6'>)6-6>^ ,)*-' 1-?*-' 2/;*2>*' ;=12')*'*/*>, 12' 1',)*'=1=*.% ,*- .,>'1',)*' 6.,*-2'>);->)*.';='1',)*'=-*.*2,'06 % ()*' ./6.,*0';2,/',)*'?00/*'1',)*' ,)'=*2,;-f78)*2' ()*' *?=*-1-.' >12+19*0',)*' .210.'620'>/6?*0',)*' ,)*'=I6=6/.**';20*-',)*'2/;*2>*'1',)*'?129'=/0*^ -5),'1'.62>, 12 25',)*-*.1/;, 12.% +*2'01>,-26/ D-620'D*562',1'*L) D,'5-*6,*-'..-*25,)'620'=;,'1-,)' 1-?;/6.'8*-*'.1?*, ?*.'0-68'2=' D ',)*'*?=*-1-.' ?1-*' *L1-D ,62,' >/6 ?.' ,)62'*+*-' D* 1-*% 2' R 620'2*2,'1'D.)1=.' 1-'21,'>12>;-- 25' 2',)*'-*.1/;, 12.' >)1/6.' 622;//*0',)*' 0 -*>,'=18*-' 1',)*'*?=*-^ ?*2,'1'D.)1=.' 1-'21,'>12>;-- 25' 2',)*'-*.1/;, 12.' 1-' 2',)*'*/*>, 12' 1'=1=*.' 8)>)' 86.' ,-62. *--*0' =6..*0'D '. 210.'>12+19*0'D',)*'*?=*-1-.'620' -*^ 1//*5*'1' 6-0 26/. 28)/*,1',)*'*?=*-1-'12/' _;*2,/ '6>, 25';20*-',)*0 -*>,' 2 /;*2>*'1',)*'*?=*-^ ,)*'>12 -?6, 12' 1',)*'=1=*'*/*>,' 86.'/* ,% &)*2' 1-.' D*562'*+*2'0;- 25',)*-*'52'1' 12..62, 2*% :/0*D-620')?.*/''2' Q';20*-',)*'26?*'1'4-*5^ 2',)*'8*..*-2'>1;2,-*.'1',)*'*?=-*',)*'=-1?^ 1-' '6.>*20*0',)*'=6=6/,)-12*')*'D1/0/'620'+5^ 2*2,'=1. , 12' 8)>)'86.'*6-/'686-0*0',)*'D .)1='1' 1-;./ '=-1>/6?*0'6'2'8',)*-'1'',)*'-*/6, 12' D*^ 1?*'620'.;D.*_;*2,/ ',)*'/1>6/.*=6-6, 12'-1?',)*' ,8**2');->)'620',6,%' :*'>/6?*0'1-%,)*');->)' .*-*'1-'1',)*'*?=*-1-' 6/12*'6'0+2*'1-52'6.>-D 25',1'6//.*>;/6-'2.,;^ 6/12*'6'0+2*'1-52'6.>-D 25',1'6//.*>;/6-'2.,;^ 2'),)*'=*-'1',)*'*?=*-1-' 2'),)*'=1. , 12' 8)>)' 86.' *6-/ '686-0*0',)*'D .)1='1' , 12.' 620'.;D.*_;*2,/ ',)*'/1>6/.*=6-6, 12'-1?',)*' .*6,'1',)*'*?=*-1-' 1?*'1',)*'?1..'=-1? 2*2,'D .)^ 1=.'620'=- *.,.'% ?D-1.*'B*-1?*'*,>%'-*=*//*0' 2'*2^ *-5*,>' /625;65*',)*' - 5),' >/6 ?*0'D',)*'*?=*-1-.' ,1'0*>0*');->)'_;*.,12.% *+*-6/'1',)*' 6.,*-2' *?=*-1-.' ,)1;5),',' ?1-*1+*-' 2' ,)*' -' 2,*-*.',1' 56 2',)*' - *20.)='1',)*' 1?62'D .)1=.'D ' ?69 25' ,1',)*?' /6-5*' >12>*.. 12.' 620',);.' *2>1;-65*0',)*' 6.=-6, 12.' 1',)*' /6,,*-' ,1' 6' .;=-*?*' =18*-' 2',)*');->)% ()*' 1?62'D .)1=' 4*/6. ;.' 2' R >/6 ?*0' 6'.;=*- 1- ', '1',)*'*>>/*. 6., >6/'1+*-',)*.*>;/6-'=18^ *-' 620'6' . 2*7'>12+19*0'D',)*' 1?62'D .)1=' ?¢ ?6>);.' 2' K' >120*?2*0',)*'*2>-16>)?*2,'1'9 25' 016>*-' ;=12',)*-5),.' 1',)*');->)% &)*2',)*' 4*-?62',-D*.' 620' 2'=6-, >;/6-',)*' -629.'D*>6?*')- ., 62,'.)*-'9 25.'56+*',1',)*'>/5-5'5-*6,'=-+C 3/*5*.' 620'6'5-*6,' 2/;*2>*' ;=12',)*'60? 2.,-6, 12' 1'26, 126/6 6 -.'D;,' 2' -*,;-2'>/6?*0',)*'.;=-*?*' =18*-' 2'*>>/*. 6., >6/6.'8*//6.'.*>;/6-'6 6-% <**,^ 25.'1',)*'>/*-5 '>1;/0'21,'69*'=/6>*' 8 ,)1;'-1 6/ =*-? .. 12' 620'6//',)*.'-*.1/;, 12.' 2**0*0'D* 1-* D* 25'=-1?;/56,*0',)*'.62>, 12'1',)*'9 25,% +*2' 6==1 2,?*2,'1',)*'D .)1=.' .112'>6?*',1'D*'-*56-0^ *0'6.' 6'-1 6/=-*-156, +*%)6-/*?652*'8)1'86.' >-18 2*0'D ' 1=*' *1' 6.' 1?62' *?=*-1-'>12^ >*+*0',)*'D1/0'0*6'1'6';2+*-.6/)-., 62'?126->)% 2'),)*'.;1=2 12' ,'86.',)*'>)*'0';, '1',)*'*?=*-1-',1' 0* *20',)*');->)'1')-.,'*+*-8)*-*'656 2.,'=6^ 562.'620'2 0*/.'620',1'*L,*20')*-',*--,1-W ()*);->)'12',)*'1,)*-')620'86.',1'6 0'2',)*'*L*>;^ ,12'1',).'=/62'D '.=-.;6/?*62.% ()*'=1=*'2')*.' * *.'86.',)*' -.,'7>/*-5 ?62'1',)*'*?=-*'8)1.*' */*>, 12'6.'),)*'D .)1=.')60',S')*-6,^ *0'D ',)*'*?=*-1-% :*'87.'62L 1;./'2,*2,';=12' 6+1 0 25'6//*>12/>,.'D*,8**2');->)'620',6,*'D;,' -*1-562 [*0',)*'8)1/*'*>0/*. 6., >6/*>12., ,;, 12'1',)*

?=-'620'*+*2' ..;*0'0*>. 12.'12'01>,-26/_;*.^ , 12.'6.'1-'2.,62>*',)*')*-*. '1',)*' 01=, 62 .,% 8*69' .;>>*..1-.'1')6-/*?652*' 8*-*' 21,'6D/*',1'>6-^ -',)-1;5)',)*' 0*6.' 1',)*' 5-*6,' *?=*-1-' 620',)*' 26,,;-6/',*20*2> '1',)*');->)'620' 2'=6-, >;/6-'1' ,)*'=1=*.','1'*/*+6,*',)*-'0 52 ,'6,',)*'*L=*2.*'1'),)6,'1',)*'*?=*-1-.' ?*;' 8 ,)' D;,'/ ,,/*' -*. .,62>% ()*' . 210.'1',) .', ?*'5*2*-6// '=-1=1;20*0', *'01>^ ,- 2*',)6,',)*'=1=*')*/0',)*') 5)*.',=1. , 12' 2',)*' 51+*-2?*2,'1',)*')- ., 62');->)'620',)*'*?=*-1-' ,)*') 5)*.',=1. , 12' 2',)*' .*>;/6-'51+*-2?*2,'1',)*')- ., 62' 81-/0' D;,',),)*' .',?*'1D,6 2*0'6'/*60 25' 2 /;^ *2>*' ;=12');->)'/*5 ./6, 12% ()*' 20*=*20*2>*' 1 ' ,)*' ?=*-6/'=18*-' 1;20')18*+*-'.1?*' +*-.' *2*-^ 5*,>' >)6?=12.' *+*2' 6?125',)*'D .)1=.!' 6.' 1-' 2^ .*2,6, +*' 1',)*'1/0'-*/ 5 12% ()*'*?=*-1-.',);.'-1?' ,' .,62>*' :2>?6-'1')* ?.'% QQ X% ;- 25',)*'2 2,)' ,)62' 6.' ?*?D*-.' 1',)*')- ., 62');->)' 620',)*' 620',*2,)'>*2,;-*.',)*'6;,)1-,A' 1',/ *' =6=6/% .** >) * .' 1',/ *');->)' 8*-*' 12' ,)*' 8)1/*' 8*// =/*6.*0' 5-*6,/ ' .; *-*0' -1?',)*' ?7 1-6/ >)6-6>,*-' 1' .1?*' 8 ,)',)*'=- + /*5*.' 8)>)' 8*-*' >12 *--*0' ;=12',)*?' 1 ' .,' 1>>;=62,. ' 620' ,' 86.',)*-* 1-*' *6. ' 1-',)*' 5-*6,' 620',)1;5),/ ,,/*' 1 '0 .=;, 25',)*' 2 /;*2>*' 8)>)',)*' 4*-?62' *?=*-1-.' 1',)*' 5-*6,' 5-60;6// ' >/6 ?*0',1' *L*-> .*' ;=12');->)' =18*-'6.',)*' *L=*2.*' 1',)*'=6=6/% ()*' *?=*-1-.' ,// 6 6-% 2',)*' 6.',) .' .;D*>, 12' 1',)*' *>>/*. 6.^ 0**?*0',',)*-'0;, ',1'*L*>;,*',)*'/68.'1',)*');->)' , >6/' 6;,)1-, *.',1',)*' .,6,*' 51+*-2?*2,.' 8*2,' ?;>)' 620'*L>1?2;2>6, 12' 86.' -*_;*2,/ ' 1//18*0'D',)*' ;-,)*-' 6/2' 2',)*' & *.,' 620')6.'-*?6 2*0'6'>)6-6>^ D62'D;,'6,',)*'.6?*',)*'*?=*-1-.' -*>1+*-*0' ,)*-' 1-?*-' 2/;*2>*' ;=12')*'*/*>, 12' 1',)*'=1=*.% ,*- .,>'1',)*' 6.,*-2'>);->)*.';='1',)*'=-*.*2,'06 % ()*' *?=*-1-.' >12+19*0',)*' . 210.' 620'>/6?*0',)*' - 5),'1'.62>, 12 25',)*-*.1/;, 12.% +*2'01>,-26/ 1-?;/6.'8*-*'.1?*, ?*.'0-68'2=' D ',)*'*?=*-1-.' 620' -*^ 620'12/ '=-1?;/56,*0'D ',)*'D .)1=.% ()*' D62 .)^ _;*2,/ '6>, 25';20*-',)*'0 -*>,' 2 /;*2>*'1',)*'*?=*-^ ?*2,'1'D.)1=.' 1-'21,'>12>;-- 25' 2',)*'-*.1/;, 12.' 1-' 2',)*'*/*>, 12' 1'=1=*.' 8)>)' 86.' ,-62. *--*0' =6..*0'D '. 210.'>12+19*0'D',)*'*?=*-1-.'620' -*^ 1//*5*'1' 6-0 26/. 28)/*,1',)*'*?=*-1-'12/' _;*2,/ '6>, 25';20*-',)*'0 -*>,' 2 /;*2>*'1',)*'*?=*-^ ,)*'>12 -?6, 12' 1',)*'=1=*'*/*>,' 86.'/* ,% &)*2' 1-.' D*562'*+*2'0;- 25',)*-*'52'1' 12..62, 2*% :/0*D-620')?.*/''2' Q';20*-',)*'26?*'1'4-*5^ 2',)*'8*..*-2'>1;2,-*.'1',)*'*?=-*',)*'=-1?^ 1-' '6.>*20*0',)*'=6=6/,)-12*')*'D1/0/'620'+5^ 2*2,'=1. , 12' 8)>)'86.'*6-/'686-0*0',)*'D .)1='1' 1-;./ '=-1>/6?*0'6'2'8',)*-'1'',)*'-*/6, 12' D*^ 1?*'620'.;D.*_;*2,/ ',)*'/1>6/.*=6-6, 12'-1?',)*' ,8**2');->)'620',6,%' :*'>/6?*0'1-%,)*');->)' .*-*'1-'1',)*'*?=*-1-' 6/12*'6'0+2*'1-52'6.>-D 25',1'6//.*>;/6-'2.,;^ 6/12*'6'0+2*'1-52'6.>-D 25',1'6//.*>;/6-'2.,;^ 2'),)*'=*-'1',)*'*?=*-1-' 2'),)*'=1. , 12' 8)>)' 86.' *6-/ '686-0*0',)*'D .)1='1' , 12.' 620'.;D.*_;*2,/ ',)*'/1>6/.*=6-6, 12'-1?',)*' .*6,'1',)*'*?=*-1-' 1?*'1',)*'?1..'=-1? 2*2,'D .)^ 1=.'620'=- *.,.'% ?D-1.*'B*-1?*'*,>%'-*=*//*0' 2'*2^ *-5*,>' /625;65*',)*' - 5),' >/6 ?*0'D',)*'*?=*-1-.' ,1'0*>0*');->)'_;*.,12.% *+*-6/'1',)*' 6.,*-2' *?=*-1-.' ,)1;5),',' ?1-*1+*-' 2' ,)*' -' 2,*-*.',1' 56 2',)*' - *20.)='1',)*' 1?62'D .)1=.'D ' ?69 25' ,1',)*?' /6-5*' >12>*.. 12.' 620',);.' *2>1;-65*0',)*' 6.=-6, 12.' 1',)*' /6,,*-' ,1' 6' .;=-*?*' =18*-' 2',)*');->)% ()*' 1?62'D .)1=' 4*/6. ;.' 2' R >/6 ?*0' 6'.;=*- 1- ', '1',)*'*>>/*. 6., >6/'1+*-',)*.*>;/6-'=18^ *-' 620'6' . 2*7'>12+19*0'D',)*' 1?62'D .)1=' ?¢ ?6>);.' 2' K' >120*?2*0',)*'*2>-16>)?*2,'1'9 25' 016>*-' ;=12',)*-5),.' 1',)*');->)% &)*2',)*' 4*-?62',-D*.' 620' 2'=6-, >;/6-',)*' -629.'D*>6?*')- ., 62,'.)*-'9 25.'56+*',1',)*'>/5-5'5-*6,'=-+C 3/*5*.' 620'6'5-*6,' 2/;*2>*' ;=12',)*'60? 2.,-6, 12' 1'26, 126/6 6 -.'D;,' 2' -*,;-2'>/6?*0',)*'.;=-*?*' =18*-' 2'*>>/*. 6., >6/6.'8*//6.'.*>;/6-'6 6-% <**,^ 25.'1',)*'>/*-5 '>1;/0'21,'69*'=/6>*' 8 ,)1;'-1 6/ =*-? .. 12' 620'6//',)*.'-*.1/;, 12.' 2**0*0'D* 1-* D* 25'=-1?;/56,*0',)*'.62>, 12'1',)*'9 25,% +*2' 6==1 2,?*2,'1',)*'D .)1=.' .112'>6?*',1'D*'-*56-0^ *0'6.' 6'-1 6/=-*-156, +*%)6-/*?652*'8)1'86.' >-18 2*0'D ' 1=*' *1' 6.' 1?62' *?=*-1-'>12^ >*+*0',)*'D1/0'0*6'1'6';2+*-.6/)-., 62'?126->)% 2'),)*'.;1=2 12' ,'86.',)*'>)*'0';, '1',)*'*?=*-1-',1' 0* *20',)*');->)'1')-.,'*+*-8)*-*'656 2.,'=6^ 562.'620'2 0*/.'620',1'*L,*20')*-',*--,1-W ()*);->)'12',)*'1,)*-')620'86.',1'6 0'2',)*'*L*>;^ ,12'1',).'=/62'D '.=-.;6/?*62.% ()*'=1=*'2')*.' * *.'86.',)*' -.,'7>/*-5 ?62'1',)*'*?=-*'8)1.*' */*>, 12'6.'),)*'D .)1=.')60',S')*-6,^ *0'D ',)*'*?=*-1-% :*'87.'62L 1;./'2,*2,';=12' 6+1 0 25'6//*>12/>,.'D*,8**2');->)'620',6,*'D;,' -*1-562 [*0',)*'8)1/*'*>0/*. 6., >6/*>12., ,;, 12'1',)*

>*-,6 2’ .6 2,.’620’>6//*0’D ’,D*’ 26?*.’1 ’,)1.*’ .6 2,.’)1/ *. ’ ,)*’ .62>,;6- ’620’,)*’ >1;-,’ ()*’,)-**’=6-,.’ 1?*’ 1 ’ ,)*’ -1,*.,62,’ 0*21? 26, 12.’ 26?*’ ,)*’ -’ 8*-*’d ’ ()*’ 1’1-’ .62>,;6- ’ 2’ 8) >)’,)*’ >/*-5 ’ >) ;->)’*0 >*.’6 ,*-’,)*’6=1../*.’D ;’12/ ’ 1-’,)*’=;-^ 1 >6,*0’ K’ ()*’ 1’1-’ 26+*’6==-1=- 6,*0’,1’,)*’ =1.*’1’0 ., 2>, 12’ -1?’*6>)’1,)*-’ ;- ,62. ’620’,)*’ 6 ,) ;/’,)*’ /6 C?*?D*-.’1’,)*’>);->)’ N’ ()*’ 86-C’ >);->)*.’ 2 /;*2>*0’D ’,)*?’26?*’,)*-’>);->)*.’D ’ " ’1-’62,*C,*?=/*’,)*’=/6>*’1’=*2 .*2,.’620’>6,*>);^ ,)*-’1-0 26/ 2; ?D*-.’6.’,)*’ -.,’.*>120’*,>’1-’D ’ ?*2.’ 1?*, ?*.’1.;-’1-’ +*’0 + . 12.’6-*’*2; ?*-6^ ,)*’.,-**’,’12’8) >)’,)* ’6-*’0*6,*O’ 2’,)*’<*,)10 .,’ *-’620’22*-’620’6/.1’->912 25’,)*’ ’1-’1;,*-’) ;->)’,)*’26?*.’1’,)*’6=1../*.’6-*’1 ,*2’;.*0’620’ D; /0 25.’6’=1-, 12’1’,)*’>);->) ’ >)’,)*’0 >*.’6-*’.1?*, ?*.’26?*0’2’)121-’1’&*.^ ’ -’’ ’; ’ $ ’ ’ ()*’ 22*-’=6-,’1’,)*’ /* ’1-’.1?*1,)*-’0 ., 25; .)*0’/*60*-’2’,)*’);->) ’ @ 1’ ’ ’’ ! ’ 7()*’*6-/ *.,’5-1;20C 1-?)’;->)’ 6==-1=- 6,*0’,1’,)*’>/*-5XI7d -1?’*$ N’ 1-’ +*-*’ 1D/125’ ()*’ D6. /’>6.’M_’ +%X%8*-*’ 6.) 12*0’ $ #N’ ’ ! ()./26?*’%86.’.1?*, ?*.’5 +^ 7 ,*-’,)*’626/15 ’1’6’.) =’ ’=*-)6=.’-6,)*-’6 ,*-’ *2’,1’,)*’-6 .*0’=/6, 1-?’8) >)’.;==1-,*0’,)*’,)-12*’ ,)*’1D/125’1-?’)60’D**2’.*,,/*0’;=12’ ’1),)*-’2 /;^ 1-’>)6 -’1’,)*’D .)1=’620’,)*’.*6,.’1’,)*’=-*.DTP,*-H’ *2>*. ’6.’1’6->) ,*>,;-6/*>12+*2*2>*’*,>% ’,)6,’=6-,’ 620’.1?*, ?*.’,1’,)*’8)1/*’1’,)6,’=6-,’1’,)*’>);->)’ 1’,)*’>);->)’,1’-*>*+*’D*/*+*-.’86.’>6//*0’,)*’26+*’ 2’8) >)’,)*’=6/, 1-?’620’,)*’6/,6-’.,110% /7+6.’6/.1’ I $’.) =X% () .’86.’6,.*-86-0’>122*>,*0’8 ,)’6/^ >6//*0’ N’ % ’ ‘0 ,8 ’ ’’ ’’ 1’1-’ ’’ ’ /*51->6/ 1-’ ? ., >6/ ?*62 25.’ *% 5’,1’0*21,*’ ,)*’ ’’ :’2% ’620’-% *$ *% % 1’D*^ 0625*-.’ ,1’8) >)’ ,)*’);->)’86.’*L=1.*0’620’,)*’ >6;.*’ ,’86.’,)*’=/6>*’2’8) >)’,)*’=-*.D .*-.’.6,’620’ .6 *, ’8) >)’ ,’1 *-*0’,1’ ,.’ ?*?D*-.% ()*’D16,’1’ 0 .>)6-5*0’,)*-’0 ; , *.’1 * *% N’D*>6;.*’,)*’6/^ *’ .’) ’ ’ ’ ’ ’ ’ ,6-’.,110’)*-*’ $ ’ - ’1-’?1-*’>1?2/ ’ 2’ *’ 6-9’1’ 16)’8*-*’*L=/6 2*0’6.’*?D/*?^ =/;-6/’07;-6’0W6-6’% ’ ’ ’ ’ ’ ’ ’ 6, >’1’,)*’);->)’2’,)*.*’,81’-*.=*>,.% 2’,)*’1,)*-’ 1’D*>6;.*’/6 ?*2’620’ *?6/*.’8*-*’21,’6//18*0’)a 20’,)*’ [62, 2*’>);->)*.’620’?62’,)6,’8*-*’ ,’1*2,*-% *>6;.*’9 25.’620’*?=*-1-.’8*-*’=- + /*5*0’ 2 /;*2>*0’D ’,)*?’8*-*’ ! ;- 25’,)*’ " ’ 8 ,)’6/.1’2’>12 1-’ ’5 = ’’=*- 10’1)-’%N’ % ! ()*’=/6, 1-?’1’,) .’=6-,’1’,)*’ 6->) ,*>,;-*’,)*’>);->)*.’6.^ 6-*>)’ 86.’62’*// =, >6/ -.*>*.’8 ,)’6’>1--*.,=120 25’ .;?*0’,)*’ 1-?’1’6’>-1..% 2’)-%N’ % ! ()*’=/6, 1-?’1’,) .’=6-,’1’,)*’ .;?*0’,)*’ 86.’62’*// =, >6/ -.*>*.’8 ,)’6’>1--*.,=120 25’ 6->)’1+*-)*60’620’.*=6-6,*0’ -1?’,)*’26+*’D ’6’-6 /’ 7’)*60’1’,)*’>-1..’D*2,’,1’-*=^ >;-1;./’8-1;5),’/9*’2*,C81-9’>6//*0’ ’>)62C’ -*.*2,’,)*’D18 25’1’,)*’)*60’ >*/% & ,) 2’8*-*’,)*’D .)1=.’,)-12*’620’.;D1-0 26,*’ 1’,)*’ 6+ 1;-8)*2’,)*’0 *0Ø .*6,.’-5),’620’/* ,’1-’,)*’/18*-’>/*-5 ’ ()*’D .)1=.’ ,);.’6, 1;*2’M ,% ;*2X% -.)-12*’86.’;.;6// ’>1+*-*0’8 ,)’6’+* /’620’1-’,) .’ ()*’,-62.*=,.’1’,)*’>-1..’ -*6.12’86.’>6//*0’ " ’ !’ 2’,)*’?00/*.,110’ 1 ,*2’0 0’21,’*L,*20’D* 120’ ,)*’6/,6-’2’.;>)’6’=1. , 12’6.’,1’D*’*6. / ’*2>1?=6..*0’)*’86//.’21,’6==*6-25’6,’6//’ 12’=+*-’. 0*’ 2’12*’.0*’1’,’86.’6’,?6//,6D/*’1-’ 2’,)*’*L,*-26/6->),*>,;-*% -*>*+25’1D/6, 12.’12’,)*’1,)*-’6’-*>*..’>6//*0’ ’ ’ ’ ’ ’

from the chambers. It was separated from the chancel by a partition or lattice-work, with a curtain, and the entrance to the choir was by folding-doors in this partition. These doors were provided with curtains, which, as well as the larger curtain, called *καταπέτασμα* and *καταπέτασμα μυστικόν*, were drawn aside during the celebration of the Eucharist, and during the delivery of the sermon.

3. *The Narthex*, or *Ante-temple*.—This was the outer division within the walls. It was called *πρόναος*, *ante-temple*; *πρόπυλα*, *portico*; and *νάρθηξ*, or *ferula*. The latter name is supposed to have been given it in consequence of its oblong shape, resembling in this respect a *ferula*, or rod. It was an oblong section of the building, extending quite across the front of the church. It was entered by three doors leading from the outer porch. The great entrance was at the west, opposite to the altar; it was called (after the corresponding part of the temple) *ὡραία* or *βασιλική*, the *beautiful* or *royal gate*. The *vestibule*, or *πρόναος*, in the stricter sense, was allotted to the catechumens and penitents. Heretics and unbelievers were also allowed a place here, though this was forbidden by some Eastern synods. The *πρόπυλα*, or *portico*, was chiefly used for the performance of funerals. But, in the larger churches, meetings on ecclesiastical affairs were held in it. The primitive Christians were accustomed to wash before entering a church, as a symbol of the purity becoming that holy place. In due time the vessel used for that purpose was introduced into the porch. The vessel



Plan of an ancient Basilica, with its Exedræ.

1. *Propylæum*, or *vestibulum magnum*, the great porch, or first entrance into the area before the church. 2. The *atrium*, or area leading from the porch to the church. 3. *Cantharus*, or *phiala*: the fountain of water in the middle of the square. 4. The porticoes, or cloisters about the area, otherwise called the exterior *narthex* of the church, and place of mourners. 5. The great gate into the church. 6. The two smaller gates on each side of the other. 7. The northern and southern gates. 8. The cloisters on the north and south sides of the church. 9. The inner *narthex*, where the catechumens and hearers stood. 10. The place of the *substrati*, behind the *ambo*. 11. The *ambo*, or reading-desk. 12. The ascent on both sides of the *ambo*. 13. The inner porticoes, or cloisters for men below. 14. The *catechumenia*, or *hyperoa*, upper galleries for women, above the portions of the men, upon pillars. 15. *Cancelli lunati*, the rails of the chancel. 16. *Bema*, or chancel. 17. The altar, or communion-table. 18. The arched canopy over the altar. 19. The bishop's throne. 20. The seats of presbyters, in a semicircle about the altar. 21. *Diaconicum minus*, the inner vestry. 22. *Prothesis*, or *paratorium*. 23. *Diaconicum magnum*, the great repository, or greeting-house. 24. The baptistery. 25. The font. 26. *Pastophoria*, dwelling-houses, libraries, school-rooms, etc. 27. *Exedræ*, outer buildings. 28. *Περίβολος*, the outermost boundary allowed for refuge, or sanctuary.

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D*',-*0'6,'>1?*12'8$ g L .*+*-6/*.,+6/.',)*');->)' 1' 1?*' ?69*.',)*' 0.^
#! 2, 12' 1' .?=/*J' .*?C01;D/*7'620' 01;D/*J'
()*'>12,-1/'1',)*' >);->,CA6-0.'6.'5+*2'-.*',1' *.,+6/.T ,)*' /6,,*-' D* 25' 656 2' .;D0+0*0' 2,1'
?62E7>12/>,'D*,8**2');->)'620',6,*% ()*');->)' 01;D/*' .*>120'>/6..J'620' 01;D/*' -.,'>/6..J'M,)1'
1' 1?*' 1-D 0.',)*'KP N-6/1')*-*,>.' .;>0*.' *L^ *6.12.' 1',)*' >);->)C *6-'6)0',)1.*' 1',)*' 26,;-6/
>1?? ;2>6,*0'=*-.12.C620';2D6=,[*0'>)/0-*2';=12C *6-'6)0',)1.*' 1',)*' 26,;-6/'1'6//0*60'8,)1;,'0.,2>,12' 2',)*' .6?*'>*?*,*-A% *6-'M)-.,?6.',)*'6==*6-62>*' 1')-.,' 2',)*'F/1,'
1'6//0*60'8,)1;,'0.,2>,12' 2',)*' .6?*'>*?*,*-A% 2',)*' $2,*0' ,6,*.',)*' 51+*-2?*2,'01*.' 21,' ?*0^ 81-/0' 2' 8 2,*-' 8)*2' 26,;-*' 6==*6-.' ,1' D*' 0*60'3
0/*8,)',)*' =/6>*.'6_0'?10*.'1'D;-6/'620'-*/5 1;.' 6.,*-' 2' .=-25'8)*2'26,;-*' .**?.',1%-* +*T *2^
D10*.'6.'8*//6.'.25/*'>125-*56, 12.'620'20+0;^ ,*>1.,' 2',.;?2*-'8)*2'*+*-' ,)25' .' 2')5)*.;
6/.'>62'?69*'62'=-1+.12.',)*E'=/*6.*'1-',)*'D;-6/A D/11?X'*2,-*/' 1-5*,,25',),)6,',) .'>1--*.=120*2>*'
1',)*-'0*60% '&*,[*-',%&*/*') " = '+'K B%)1/0.'5110'12/'1',)*'21-,)*-2')*? .=)*-% ,)*-'
: *-[15'5 =6 + %!+' 4 8-,*-.')6+*' ?1-*'-*6.126D/',->6*0'2',/.'>1--^
: $: C % *,)*-',)*' *8'(*.,6?*2,'21-',)*')>);->)'/,*-6,;-*'1',)*' -.,',D-*7'>*2,;-*.'>12^ .=120*2>*'62' 2/;*2>*'.'+6/.'2'8)>)'
,6 2'62' 2 ?6,12',)6,',)*')- ., 62.'1',)6,',?*' .'9 20'1'11--*.=120*2>1'>62'D*',-6>*0',1'6'+*-'
A7C*8*0',)*' *6-' -1?'62'1,)*-'.,620C=1 2,',)62',)6,' /6-5*'*L,*2,';=12',)1'01>,-2*.'620'2.,,;,12.'1f,)*'
1';.;DA*>,.'1',)*' 1?62'*?=*-1-'1-'1,)*-'=-2>*.%);->)' 1'1?*T D;,'6/,)1;5)'2'.1?*'2.,62>*.',)*'
** g ' #' ' f ()*' -.,' 2/;*2>*% .';20*2 6/*',' .'0 6>;/,'1'.6')18'6-',
?=;/.*',1',)*'0*6'1'6')>);->)' *6-'0 .,2>,' -1?$)* *L,*20*0% ()*>)*6,;-*.'1',)*>);->)C *6-'8*-*' ;// '0*+*/1=*0'8)*2',)*'.*=6-6, 12'D*,8**2',)*' 6, 2

,)6,'6'+*- '0 *-*2,'>120 , 12' 1 ',) 25.' ?6 ') 6+*' *L^ .,*0' 2') .' 06 % 2' ,) *' 8*69' 620' 0 + 0*0' .,6,*' 1 ' & *.,*-2' . 6'6,',) .', ?*' ,'86.'*6. ' 1-'6'D-6+*' 620' .9 / ; /' >) * ',1' D ; /0' ;=' -6= 0/ '6' +6..'=18*-' 8) >)' 86.'6=,',1'>-; ?D/*' 686 '6/?1.,'6.'_; >9/ ' ;2.*2')18*+*-' >6//.') ?' ?*-*/E!' <*.1=1,6? 62' .6,-6= J' 6..; ? 25' ,)6,')*' ? ; .,')6+*' D**2' =1.,*- 1-' ,1' ,/ *' .. - 62' .;=-*?6> 'I6 %1' '7 KX');.)62C .)C 6,)6 ? .' 19*' 86.'D-19*2' -1?',)*' 2*>9'1',)*' =*1=/*' 1' .-6*/'6,',)*' *20'1'* 5),' *6-.'D ' ,)2 */' 6/*D.' 2*=)*8'MB;05% ' X'620' 21,) 25' ?1-*' .') *6-0' 1' <*.1=1,6? 6'6.'62'655-*.. +*'=18*-% ()*'- .*'1',)*' .. - 62' *?= -*' 6D1;',% % K '81;/0'26,;-6// '-*^ 0;>*',)*' D1-0*- 25'26, 12.',1' 2. 52 >62>*'M.**' 68C / 2.12' # '6 1=%!N X ' ? ,)' .'+% *>' / !

) ; 7.' IO '+%-% d1;>' ;/5% 1? ,..XC'6' =/6>*' 26?*0' 12/ ' 2' B;0 ,)' + ' Q' 6.' 2*6-' 9-*D*/' 620' ;=12' ,)*' D-119' <1>) ?;-% ',)*') .,1- ' D1' 6,' 6//' 5*2; 2*',) .' 86.' 01;D,/*..' 2' *2,-6/ 6/*., 2*' D ;,' 6//',)*' 26?*.' 6==*6-',1'D*'+*- '>1 -;=,' 620'6-*' 21,' -*>152 .6D/*% **' ($ '! 3

) ; [6' \=-12% / E'M-6,)*-' + / ' d1;70 ' 1-')6/0% Z(G2' %*% 71. *. ,12XC,)*' .,*86-0J M,((.-=1(1>X' 1' : *-10' M 2, =6.X' 8)1.*' 8 *' B16226' M_%-%X')6+ 25' D**2' >;-*0' D ' 1;-' 1-0' * ,)*-' 1' =1.^ .*.. 12' D ' 62' *+ / .= - ,' 1-' 1 ,6' 0 .*6.* ' D*>6?*' 6,^ ,6>)*0',1',)6,'D10 ' 1 '81?*2' 8)1' 6>>1?=62 *0') ?' M % %K X' 12') .' A1;?* 25.' M ;9*'+ ' NXT' 620',1^ 5*,)*-' 8 ,)' <6- ' <6506/*2' 620' ' <6- ' ,)*' ?1,)*-' 1 'B6?*. J')6+ 25' >1?*' *6-/ ',1',)*' .*=;/>)-*"12',)*' ?1-2 25' 1 ',)*' -*. ;--*>, 12' M % %KRX',1' D- 25' .= >*.' 620' 1 2,?*2,.',1' >1?=/*.*',)*' D ; - 6/ ' D-1 ; 5),' 81-0',1' ,)*' 6=1../*.',)6,',)*' 1-0' 86.'- .*2' M ;9*' LL + ' X% ()*.*' > ->; ?.,62>*.'81;/0'.**?',1' ?=/ ',)6,'.)*' 86.' 6,',) .', ?*' 6' 8 018%

) ,-6*; . ' 'M=-1=*-/ ')g "" E'12*' 1I',)*' ?1.,'*? 2*2,'1',)*' ;,)*-62',)*1/15 62.' 1',)*',*>^ 120')6/'1',)*' .L,**2,)' >*2,;- '86.'D1?'6,' 25*/C 025*$X' *D% KS' SN % : 6+ 25' .,;0 *0' ,)*' 62> *2,' /625;65*.'6,' (;D 25*2')*' 8*2,',1' & ,,*2D*-5'6D1;,' 620'D*>6?*' 6' =;=/'1'<*/62>,)12' 2',)*1/15 % 2' Q')*' D*562',1'/*>,;-*' 6,' & ,,*2D*-5'12'=) .>.' 620'6/.1'12',)*1/15 % ,*-' 62'*L,*20*0'B1;-2*' 2' 4*-?62' 8 ,[*-/620' 620' ,6/ ')*' 86.'>6//*0' 2' ',1' 1.,1>9?' 620') .'>)6-6>,*-' 1-'.>)1/6-.,)='620' 8 .01?'56 2*0') ?' 5-*6,' 2/;*2>*' 2' <*>9/*2D;-5' 620'6/.1' 2' 8 0*-' .=)*-*.% :*' 86.' *?=/1 *0' D ' <6L ?/62' ,1'6--625*' *>>/*. 6.,>6/6 6 -.' 2' ;.^ ,-6% :*' 86.'=-2>=6/6;.)1-' 1',)*',,6,;,*.' 1',)*' $2O*(,'1' :*/?.,60,'620'86.'12*' 1',)*' 6;,)1-.' 1',)*' @ ' ' 'M_%+%X% :*'0 *0'B;2*' K ' S % ?125') .' 8-,25_6-*' # ' ' & 'M -629 1-,' R'Q+1X' ' ' ' N2' $ 'M 1.,1>9' R'Q+1X' :.' 81-9.'8*-*' >1/^ /*>,*0'620'=-2,*0' 2'K+1/.% 1/1'M *=[5' RR' :62^ 1+*-' S X% 'D 15-6=) 1'),-6*;.'8,)'6'.*/*>^ ,12' -1?') .' 81-9.'86.';D/.)*0'D ' -*..*/2',)*' Q,)'+1/%1',)*'81-> ' *'H' !' '$ " ' ' N ' ' "') + 'M /D*- */0' QSNX% *>*) >);,[C ;.'' 'N ''!' " 'M:6?D;-5' K CKQ'=-* L*0',1' ,)*'8-,25.'1') ,-6*;.'N+1/.%Q+SX' <*/>)1-' 06?' N '-" " 'M -62* 1-,' X'=% NKNT' :*-[15' 6 26 2 % 1' ' %

D1- ; ?' M>MN8=1V f6' *8=X'6' /6-5*' >)6/ >*' M6' .=*> *.' 1' = L' %+%X' 1-' >;=' 1 ,*2' 1 '51/0' 1-' ./*-' 8 ,)' 6' >1+*-' .;-?1;2,*0' >1? ?12/ 'D ' 6' >-1.% ' .' ;.*0',1'>12,6 2',)*')1.,'1-'>12.*>-6,*0'86 *-' 2',)*' ?6..% ()*26?*' " '86./.1'5 +*2',1'6'>621=' 12',)*'6/,6-' .;==1-,*0'D ' 1;-'>1/;?2.',1'8)>)',)*' >;=' 2',)*' .)6=*' 1'6' 01+*'86.'6.,6>)*0'D ' >)6 2.' >12,6 2 25',)*' 86 *-' 1-',)*'>1?7;2 12'1',)*' .>9% ' , *,[*-'6% & */,*') + 1 + ' 7' %

>>6-'M7NN'2++ E' '*.='1',)*'B1-062X' ** 0 / / ' '0 'g 0 ! e

*/ 25% *>' !

/ * 6'M d, ?'12',)*'0>-+%'.**'D*/18X'6'?6-^ , ?*'=-1+ 2>*' 2',)*' .1;,)C*6.,*-2'=6-,'1' . 6'< 21-' D1;20*0'12',)*'86*.;'D ' 6?=) /6' .*=6-6,*0'12',)*' 21-,)' -1?' 6==601> 6'D ',)*'(6;-;.'-625*'620'12' ,)*'*6.;'D ' ?62;.' -1?' - 6' 620')6+ 25',)*'4;/' 1' . .;.'M .9*201-112X' 620',)*' /> 62' *6'M >,.' LL+ ' X' 12',)*' .1;,)% ()*.*' /1 , ' ?1;2,6 2' D6-C % - *-.'>62')*'.;-?1;2,*0'12/ 'D '6' *8'0 >;/,'=6..*.' ,)*' 1-?*-'D ',)*% 1-,6X' ?62 0*.'6,',)*')*60'1 ,)1' +6//*'1',)*' 26?.',)*'/6,,*-'D ',)*' 1-,e' />6H' 2*6-',)*' .1;->*.' 1'7*' 02;.T%,1'86-0.',)*' .1;,)')18*+*-'62' 1;/*,'86.'6 1-0*0'D*,8**2',)*' 2;.' .. >;.'620',)*'.=;-.'1' ?62;.' 1-'6'-160')>)'6^ ,*-86-0.'>-1..*0',)*' 1-,6X' $ ' 2',)*'0 -*>, 12' 1' 2, 1>)'M)*2>*',)*'>/1. H>122*>, 12'8)>)'*L .,*0'D*^ ,8**2' -6'620' />6'6.' 20 >6,*0'2' >,.' L+'KN' 'A 46/% 'K X% ()*' .*6C>16.,' .' -1>9CD1;20' 2',)*' 8*.,'/18'620'.)*/+ 25' 2',)*' *6.,'),)*' >)*'- +*-.'' 6-;.' 02;.'620' 6/ >602;.' 8*-*' 26>>*.. D/*',1' +*..*/.' 1'62'. [*' -1?' .620CD6-.' 1-?*0' 6,',)*' -' ?1;,).% ',)*' 62> *2,.',)*' *6.,*-2' =6-,'86.'>6//*0' % 'I8' U ')O) ' ,1/*? X'1-',)*' />6'6'I8'(-.705' ,-6D1X' 620',)*' 8*.,*-2',)*' I8'-% ' ,-6D1'L+' 1-' 'MAT' % *' :*-10' 'N X% ()*' 1-?*-' 86.' 8*//C86,*-*0' 620' 6D1;20*0' 2'+6-1;.'9 20.' 1'5-6 2.' 620' -; ,.'Md*2C-' 1=)% & !' 'K Ig KKT' ??62;.' <6->*//'L+'Q'g X% ()*>)*',182.' 2',) .' 0 + . 12' 8*-*' D 'Md*21=)% & "!' X'6,',)*' .1;,)C*6.,*-2'*L,-*?, '>*/*D-6,*0' 1-',)*'+>,1-' ' /*L620*-'1+*-' 6-;.' 101?62;.' M % %NNNX')20' 21,' 6-' -1?',)*' =6..*.' 1' ?62;.' ' 'M& 8'O % ' :;d6-' 1/ D% L 'QXT' $ I;' 1-5 26// '6' >1/12A7 1' -5 +*.' 620')10 62.' ,)*' D -,)=/6>*' 1' <*2620*-',)*' >1?>' =1*',M % % KSKX',)*' ,1>' =) /1.1=)*/')-. ==;.'M % %K SX'620' 1' -6,;.'M_%+%X'6;,)1-' 1',)*' 6.,-121?>6/'=1*?' ' 1 %" 'M % %K XT' 620' - 1',)*' D -,)=/6>*' 1',)*' 6=1../*' 6;/'M_%+%X% />6'(-6>)*6' ;-2 .)*0' 62' 2*L)6;., D/*' .;==/' 1'>*06-.' 620' -.' 1-' .) =^ D; /0 25'1' ,'86./.1'21,*0' 1-'6'.=*>*.'1'516,'M<6-^ ,6/'L+' NQX'1'8)1.*' .9 2.' >/169.' 620',* ,.' 8*-*' ?62;6>,;-*0% ..' D-**0'1')1-.*.' 86.' .1' .;=*-1-'),)6,'NS'M12*' 1-'*6>)'06 '1',)*7*6-X' 1-?*0'=6-,'1' ,)*' 622;6/,-D;,*',1',)*' 9 25'1' *-. 6'M:*-10' ' R X% ()*' 2*5)D1-)110'1' 1-A>;.' =-10;>*0'/6-51' _;62,,*.'1'.6 -12'M /2%7 !'# 'LL' X% B1.*C' =);.'0*2, *0' />6'8,)',)*' - " +' 1'4*2%L'b E& ' 'S' X% :*-101,;.'.6 .',)6,',)*' -.,' 2)6D^ ,62,.'1',)*' >1;2,-' 8*-*' >6//*0' % + 'M 6C' d O 1 T!620'0*-+*.',)*' 26?*' 1' />6'-1?' 2 1' .12'1' 5*21-'6')**2>62'.*,,/*-'M+ 'R X% ()' .' >12 -?*0'D ')1*2>62' 2.>-=,12.'12'8)>)',)*' 26?*' .'8-,,*2' " +'M77:'4*.*2;7 !' " ! =%K RX% :*-101,;./6/.1'..6,*.',)6,',)*' />62.'620' >62.'6.',)*' 2)6D,62,.'1',)*' 12/'26,12.'27,)2',)*' :6/.'8)1' 8*-*' 21,'>12_;*-*0'D ' -1*.;'M'KQX% ()1;5)'=6-^ ,6// '.;DA*>,*0',1',)*' .. - 62.' <*0*.' *-. 62.' - 62.'620' 1?62.',)*' /*;,)*-1C M1-' -**X' /^ >62.'6.',)*' 2)6D,62,.'1',)*' ?1;2,6 21;.'0 .,-> ,.' 8*-*'>6//*0'8*-*'51+*-2*0'D ',)*.'182'9 257'M' *5C ;/''' (6>,' ' QX',//',)*',?*'1' *.=6. 62% (/A*'.*6C >16.,'86. 1-'6'/125',?*'1>>;=*0'D 7-6,*.'8)1'0)-C - *0'12',)*'6==-1=-6,*'+1>6,12'1' ./6+*C?*->)62,. 620' 1;20'6?=/*' *2>1;-65*?*2,' 1-',)6,'2* 6-1;.' ,-6 >' 6?125',)*' 1=;/*2,' 1?62.'M<622*-,'? ! + V/T' ,-6D1'L+'SXT' D;,'6,'/6.,',)*'-' 0*=-*06, 12.' D*>6?*' .1' 1-? 06D/*',)6,' 0?=* '86.' 2+*.,*0'8 ,)' *L/,-61-0 26-A'=18*-.' 1-',)*' .;==-*.. 12'8)>)')*' 6>>1?=/ .)*0' 2' 1-, '06 .% :*'.*,,/*0',)*.;-+ + 25' -**D11,*-.'6,' 1/.*')8)>)')*'-*D; /,'620'26?*0' 1 2C =* 1=1/.% >*-1'f 6-'=-1>02.;/ 1' />6'M % % KX' 620'56 2*0'.1?*',>>*..*.'1+*-',)*' ?1;2,6 2**-.'1' ?62;.' 1-'8)>)')*'86.'-*86-0*0'8 ,)'6',-;?=)' I6% !' '@ !'L+'NX% *.,)*' ?1-*'/*+*/'=1-,12' 86.'-*?6-96D/*' 1-',.'D*6;,'620' *-,/,'6.'8*//

1-' ,.'/;L;- 1;.'>/ ?6,*' ,'D*>6?*'6' 6+1- ,*'-*. 0*2>*' 1',)*' 4-**9.' 6 ,*-' ,.' 2>1-=1-6, 12' 2,1',)*' <6>*^ 012 62' *?= -*'620' ,.'>6= ,6/'(6-.=.'M_%'+%X' $ '*/*^ +6,*0' 2,1',)*' .*6,' 1 '6' >*/*D-6,*0' .>)11/ 71'=) /1.1^ =) % ()*' >122*>, 12' D*,8**2',)*' B*8.' 620' />6' 06,*.' -1?',)*', ?*'8)*2',D*>6?*'=6-,'1',)*' - 62' 9 2501?' M.**' <6>>% L ' 1' K' <6>>' +' NST' >1?=% B;0,)' ' KT' 'K 'K X% 2, 1>);.',)*' 4-*6,' .' .6 0',1')6+*' 2,-10;>*0'K ' 6? /*.'1',)*'B*8.' 2,1' . 6' < 21-'MB1.*=);.' & !' L 'N' X' ?62 '1'8)1?' =-1 6D/' *,,/*0' 2' />6'M)/1' ' ' ' 1' N X% 2',)*'6=1.,1/>'65*',)*' 8*-*' ., //',)*-*' 2'>12^ .0*-6D/*'2;?D*-.'M >,.'+ 'RX% />62'?*->*26-*.' =-1D6D/' -1?'(-6>)*6'.*-+*0' 2',)*'D10 C5;6-0'1' /*L620*-'B62266;.'MB1.*=)% 'L /'N' T ' ' NX% ()*. 26515;*'1' ,)*?'6,' />6J'M >,.'+' RX'86.'6'=/6>*'1'B*8 .)'81-.)='2'B*-;.6/*?'6=-=-1^ =-6,*0',1',)*';.*'1',)*'B*8.'8)1'?5),'D*'6,'B*-;.6^ /*?' -1?',)*'=-1+2>*'1' />6% *** # $! />6'86.' -1?',.' 5*15-6=)>6/' =1.,12',)*')5)' -160'D*,8**2' -6'620',)*'&*.,'620',' 86.'6/.1',)*' 26,+*'>1;2,-'1' 6;/T ,' 86.'+.,*0'D')?' -.,' .112'6,*-')'>12+*-.12'M46/% 'K T >,.' L'N X'12' 8)>)'1>>6.12')*'=-1D6D/' 1;20*0',)*');->)',)*-*' M *620*-' ' - ' T 12 D*6-*' 620':18.12'X !' ' ' CK 'K RX'620'656 2' 2').' .*>120'6=1.,1/>6/'A1;-2* '8)*2')*'*2,*-*0',12',)*' . 0*'1' -6'620'>-1..*0' 2,C(6;-;.'D',)*' /6.' $> e' 2,1' >612 6'M >,.' L+' X%)-.,62,' >12, 2;*0',1' /1;-.)';)*-*';2,/',)*'Q,)'>*2,;-A'8)*2' ,)*'>1;2,I77 */' 2,1',)*')620.'1',)*' 6-6>*2.'D' 8)1?'620'D',)*-'.;>>*..1-.',)*'(/-9.',)*'/5),'1' ,-;*'-*/5 12')6.'D**2'6/?1.,'*L, 25;.)*0% >>1-0^ 25',1',)*'?10*?'(;-9.)'0+.12.'1' .6'<21-' />6' -1=*-'D*/125.',1',)*'=6.)6/>'%1' 0626'620' />6'(-6>)*6',1',)*' 86)'1',>)/'2',)*'<1;..>-' /?/9'1' =-;.'M.**' ' % '.%+%T *,% 625/1.'N ' ' ! ' ' 6-% QS X% ' ,,1'.%+%T ?,)'.%+% **' '

?*/6->D% **' '!ET !

22)?12' 6 AdH' (:' 4-%)% :!'6' 81-0'6>>1-0 25,1':*-101,;.'\ ' h'1')1*2>62' 1-5 2T 6>>1-0 25',1':4*.*2;.'Q-" '# "'=% KKNh' -1?'IA7=',1' ';=-5),X'1>>;-.' -.,' 2' L10%LLL' KN'8)*-*' ,' .'*2;?*-6,*0'6.'12*'1',)*' 25-*0*2,.' *?=/1 *0'2',)*'=-*=6-6, 12'1',)*')1/'621 2, 25'1/a (69*',)1;'6/.1';2,1',)**'=18*-;/.=>*.'?--)' 620'1'.8* ' ')6/'6.'?;>)'M%*%K '.)*9*/.X' ,15*,)*-'8,)'.8**;'>6/6?;.'620'>6..6%J' ,' .'2*L,' ?*2,12*0'2' -1+%+ ' a' ')6+*'=*-;?*0'?'D*0' 8,)'?--)'6/1*.'620' !(1' 56 2' 2' 62,' + ' a' = 9*A6-0'620'.6 -12'>6/6?;.'620' '8,)'6//,-**.'1'-629 2>*2.*T --)'620'6/1*.' 8,)'6//,)*')'.=>*.%J' 2' *+% LL 'N'6?125' ,)*'?*->)620.*'1' 6D /12'M 1?*X'8*')6+*' >02C '620'1 1-.'620'1 2,?*2,.'620'-629 2>*2.*%J' /.1' 2% >>/,,.% LL +' ' ' '56+*'6'.8**,'.?*//'/9* '620'6.=6/6,);.%J' 226?12'86.'=-1D6D/' 62'6-,>/*'1'>1?7*->*' 2'62>*2,' 6D /12% ()*' :*^ D-*8.'-*>* +*0',).' 20 62'=-10;>,12',)-1;5)',)*' <0 62,*.'620' 6D6,)6*62.'8)1'D-1;5),' ,'-1?',)*' -A D 62'4;/% .**?.',)6,',)*' -6D 62.'6,'62'*6-^ /'=*-10')60'>1?7*-> 6/2,*->1;-.*'8,)' * /12'620' 12, 2*2,6/20 6'6.',)*'8*-*',)*' -.,'26+ 56,1-.' 1',)*' 20 62' >*62'M4*2%LLL+ 'K X% <62'8-.*-.')6+*'01;D,*0'8)*,)*-',)*' 1',)*':*D-*8.' .',)*.6?*'6-,>/*',)6,'8*'218'>6//'>226?12% /^ .;.';1,*.% %*2C<*/*>D'I ' ' X'620' 66C 0 6.'M L10%LLLX'6.'>12.0*-25',',)*' &'1-' & " !' ,)*-.')6+*'01;D,*0'8)*,)*-'1;-'>2^ 26?12'86.'6,'6//'92182',1',)*'62>*2,.% ;',)*' .6?*',)25')6.'D**2'.60'1'6/?1.,'*+*-'1,)*-'0-;5' 8)>)'.'21,>*0'D',)*?% ()*'81-0')) % 1>^ >;-.'2'?62'1',)*'4-**9'6;,)1-.'6.':*-101,;.':=C' ,>-6,*.'()*1=)-6.,;.' 1.>1-0*.'46/*2'*7>% ()*

-.,'1',)*.*'+(,25' '*6-.'D*1-*',)*')-.,62'e-6' 0*.>-D*.' -6D 6'6.',)*/6.,'2)6D,*0'>1;2,-',186-0.' ,)*'.1;,)'620'6.',)*'12/'-*5 12'1',)*%*6-,)'8)>)' =-10;>*.' -629 2>*2.*7 ?A(-)'>226?12'>6..6'620' /*062;?'M ' X% :*.,6,*.'?1-*1+*-',)6,',)*' -6^ D 62.'8*-*' ;26>_;6 2,*0'8,)',)*'=6-,>;/6-'.=1,'2' 8)>)','86.'=-10;>*0'D;,',)6,'.1?*6..*-,*0',5-*8' 2',)*'-*5 12'8)*-*' 6>>);.'86.'*0;>6,*0% -1?'6//' ,).'8*'>62'12/'2*-',)6,','86.',)*'=-10;>,12'1'6' 0.,62,'>1;2,-'=-1D6D/'20 6'620',)6,',86.'1D,6 2^ *0'D',)*'-1;,*'1',)*' *0' *6% ()*1=)-6..;.'M L' X 5+*.'6';//*-'D;'.,//*D;/1;.'6>>1;2,'1',.'=-10;>^ ,12'T 620',' .'21,';2,/,)*',?*'1' 1.>1-0*.7 46/*2' 620',)*' *-=/;.'1',)*' -,)-e62' *6',)6,'8* 5*,' ?1-*0* 2,* 2 1-?6,12% 46/*2'.6 .',)6,'>6..6'620' >226?12'6-*'.1' ?;>)'6/9* ,)6,',' .'21,'62' *6. ' ?6,,*-',1'0.,25;.)',)*'12*' -1?',)*'1,)*-% 226^ ?12'1',)*'D*.',_;6/,' .' ?=1-,*0'2',)*'=-*.*2,'06 ' -1?' * /12'620'6/.1' -1?',)*'<6/6D6-'>16..' 2'>12^ .*_;*2>*'1',)*'>226?12'= 62,'I . =' 8)6+25'D**2' 2,-10;>*0',)*-*' -1?' * /12% 2' 2 *-1-'9 20' .'6/.1'*L=1-,*0' -1?',)*'=*2 2.;/6'1' 20 6',)*'=-10;>*'1',)*-'.=*>*.'1' !'6>^ >1-0 25',1' -% & 5),% -1?',)*.*'>1;2,-*.',)*'>2^ 26?12'620'>6..6'1',)*'62>*2,.'?;..'?1.,'/9*/')6+*'D**2'1D,6 2*0',)1;5)'D1,)'6-*'6/.1'=-10;>*0'2' ,)*'./620.'1' ;?6,-6'620' 1-2*1' 2',GXD 26'620'2' 1>)2')26% 22 ?12'.' ?=1-,*0'2'D6/*.'620' >)*..',)*'D;20/*.'8*5)25'6D1;,'/D% *6>)% ()* =*>*.'>12..',1'>1?=1;20'_;//.'6-*'6D1;',)-**' **,' /125'./*20*-'620'2>/1.*'8,)2',)*?'.+*-6/.?6//*-' _;//.% ()*.*'6-*',)2'.?11,)'1'6'D-182.)'>1/1-' 1'6'86-?'.8**,.)'620'65-**6D/*,6.,*'620'-65-62,' 101-T'D;,'.*+*-6/9 20.'6-*'92182' 2'?10*-2'?6-^ 9*,.'6.',)*'8*-*'2'62>*2,',?*.% 2' * /12'>226^

?12'.'>6-*;//'>;/,+6,*0',)*'D*.,'>226?12056-0*2.' D*25'12',)*'.1;,)C8*.,*-2'>16.,'8)*-*',)*'.1/.' /5),'620'.620 '620',)*'6,?1.=)*-*'?1.,'-1?',)* =-*+6/*2,.1;,)*-2'820.% ()./,,/*,-**'D*/125.',1' ,)*'/6;-*/6# / '620',)*'/*6'.'21,';2/9*',)*/6;-*/' ,)1;5)'1'6'/5),*-'5-**2% ()*'8),*'D/1..1?'>1?*.' 1;,'8,)'5-*6,'=-1;.12'620'1-'?62'/*.'6-1;20' 1/1?D1'D-5),*2.'6//',)*'/620.>6=*'2',.'.*6.12'6/^ ,)1;5)','0 ;.*.')6-0/'62'=*->*=,D/*'101-',)-1;5)' ,)*'6-% ()*',-**'.'6D1;',8*2,'**',2')*5),'620' .=-*60.'2,1'2;?*-1;.'D-62>)*.T ,)*' -;'1-'2;.' ' 6D1;',)*'.[*'1'6'06?.12'620'8)*2'-=*'.'1'6'D/6>9' >1/1-% ()*'=/62,.'D*52',1'*/0' >226?12'8)*2' 6D1;,'.L'1-'.*+*2'*6-.'1/0'6,*-'8)>)',)*'.)11,.'?6' D*D;,'*+*-',)-**'1-'1;-'*6-.% ()*D*.,'9 20.'1'>2C

,)6,',)*' .9 ' ' .1/ 0 '620' *L,*20*0'/ 9*' 62' 6->)' 1+*-' ,)*' *6-,)% ()*' ' .' 6/.1' -* *--*0',1',)*' '" 2' .6% L/ ' KK' 620',1',)*' .;- 6>*' 1 ',)*' ' 2' -1+% + ' K ' 8)*-*' ,' .' -*20*-*0' II>1?=6..' 2' D1,)' 8) >)' =6..65*.' ,' ., // .**?.' ,1' ?*62',)*' >*/*., 6/ +6;/,' 6.' .=622 25',)*.*% 2' & .0% L ' K',)*' 4-**9' ,*-?' ' .' .1' -*20*-*0 ' 8 ,)' -* *-*2>*',1',)*'=6,)' 1 ',)*' .,6-.% ** $!

->; ,' M2.7/=2 ' " %+ "(8' . 52 *.' ,)*' 6>,' 1 ' 51 25' -1;20 ' 6. ' 1-' *L6?=/*' ,)*' 6==6-*2,' 0 ;-26/ -*+1/;, 1/ ' 1 ',)*' .;2'6-1;20',)*'*6-,)' M 66% L L ' 4X' ,' .' 6/.1';.*0' 8 ,)' -* *-*2>*',1',)*' >1?=/*, 12' 1 '6' 76- 2',)*' 1- 5 26/ 1 'K) -12% LL + ' KN' L10% LLL + ' KK' M 2' 8) >)' =6..65*.' ,' .' -*20*-*0' '*20JX' 1-' 1 ',)*' ,*-?' 1 '=-*5262> ' 2' ' 6?% ' K ' M 8)*2' % % % 86.' >1?*' 6D1;,JX% ()*' >- =,;-*.')18*+*-' 6 1-0' ;.' +*- '/ ,,/*' 2 1-?6, 12' 6.' ,1',)*' 6.,-121? >6/ 9218/^ *05*' 1',)*' B*8.% ** #!' 2' B1D' LL ' ' ,)*' :*D% 81-0' .' 0 *-*2,% ** ' 2' ' 6?% ' S' 620' >>/*.% ' S' 6/.1' 6' 0 *-*2,' 1-?' 1 ' *L=-*.. 12' .';.*0' 2',)*' 1- 5 26/ ,1' . 52 ' 2',)*' 1-^ ?*-'=6..65*' M e ' ;.;6// '-*20*-*0' >1?^ =6..JX' 6' -*5;/6-',1;-' 1 ' 2.=*>, 12' 620' 2',)*' /6,,*-' M I X',)*' =*- 10 >6/ .*- *.' 1 ' 5 -6, 12.' 1-' -6,)*-' 0 -*>, 12.' 1 ',)*' 8 20.' 8) >)' 2',)*' 6.,' 6-* _;,*' -*5;/6-' 2',)*' -'.*6.12.% 2' >>/;.% LL + ' ',)*' 1- 5^ 26/ 81-0' .' % ',)*' '1',)*')*6+*2.' D;,' 2' K' <6>%+ ' ',' .' .?=/ ' - % O ' 62' !' >% 5% 1',)*' (*?=/*%

$ (% 2',)*' /f *,)10 Q,' = .>1=6/);->)' 6' . 25/*' >);->)' .;==/ *0' D '6'=6.,1-' .'>6//*0' 6' .' D;,' 8)*2' 12*' 1-' ?1-*' 6==1 2,?*2,.' 8 ,) 2' 6' 0* 2 ,*' ,*--,1- ' 6->' ;2 ,*0' 2,1' 12*' >)6-5*' ;20*-' 12*' 1-' ?1-*' ? 2 .,* .' ,' .'>6//*0' 6' '> ->; ,%J' ()*' 25/ .)' ? 2;,*.' 1 ' S' 5 +*' ,)*' -.,' 2, ? , 12' 1' 0* 2 ,*' > ->; ,.' ,)1;5)' ,' .' .;==1.*0' ,)*' *L .,*0' D* 1-*% // 25/620' 86.' ?6==*0' 2,1' .*+*2' 1 ',)*.*' , 2*-62,' 0 .,- >,.%J' 2' ?*- >6',)*' > ->; ,' . .,*?' 86.' ;2 ^ +*-.6/' 2',)*' D*5 22 25' 1 ' <*,)10 .?'620' ,' .' .., // 8 0*/ ' 2';.*' 2' -;-6/ 0 .,- >,.' 620' 2',)*' & *.,*-2' ,6,*.% ' ,*+*2.' # ' ' " ' ' N Q% ** ' ' >/ / ' '$ '!

->; ?>*// 62.' 6' 626, >6/ .1-,' 1 ' $126, .,.' 2' ,)*' 1;-,)' >*2,;- ' 1 ';2>*-,6 2' 1- 5 2% -1?' ,)*' 8620*- 25')6D ,.' ,)*' 8*-*' >6//*0' M -1?' ' ,)*' >1,,65*.' 1 ',)*' =*6.62,.' 6-1;20' 8) >)' ,)*')1+*-*0' ' ' ((8' ()*' -6?D/*0';=' 620' 0182'=/;20*- 25' D;-2 25')1;.*.' 620' ?;-0*- 25' 6// 8)1' -*. .,*0',)*?' =-1 *.. 25',1' .**9' ,)*' >-182' 1 ' ?6-, -01?% ()*' >6//*0',)*?.*/+*.' ' " ' &1 ' ()*-*' .' 21' *+ 0*2>*',1' .)18',)6,' ,)* -' >120;>,' 86.' 6==-1+*0' D ',)*' 126' , .,.' D;,' ,)*-' =-1>**0 25.' D-1;5),' 5-*6,' 10 ;?' 12' ,)6,'=6-, % ' <1.)*?' "!' # !' >*2,' +' =,% ' >)% +' 620' >*2,% ' =,% ' >)% +' 4 *.*/*-' "!' # ' =*-% ' 0 +' ' g' Q ' 4 DD12' ' ' ' @ ' >)% LL ' LL % ** !

->; ?>. 12' "(:' *=,' 620' ' (% ,*>)2 >6// ' - -, *' 8)>)' .',-62./6,*0' D ',)*' 6, 2' ' % *% 6' ' 8' 6' >;.,1?' 6?125' ?62 ' 6.,*-2' 26, 12.' 1 '>;,, 25' 1 '=6-,' 1 ',)*' =-*^ =;>*' 6.' 6' -*/ 5 1;.' >*-*?12 % ()*' B*8.',)-1;5)' D-6)6?' -*>* +*0',)*' -,*' -1?' B*)1+6)' <1.*.' *.^ ,6D/.)*0',' 6.' 6' 26, 126/ 1-0 262>*' 6720 B1.);6' >6-^ - *0',' 2,1' * *>,' D* 1-*',)*' .-6*/,*.' *2,*-*0',)*' /620' 1 ' 6266;'M.**' 5*2*-6// ' < >)6*/.' ' ' ' +' N' .%X% <6/*.' 12/ ' 8*-*' .;DA*>,*0',1',)*' 1=*-6, 12' 620' ' 86.',1' D*' =*- 1-?*0' 1)',)*' * 5),)' 06 ' 1 ',)*' >) /0 .' / *' 1-* 52' ./6+*.' 6/.1' 8*-*' 1->*0',1' .;D? ',1',' 12' *2,*- 25' 62' .-6*/,*.' 6? / % B 1.*) 1' 6-*' ;26>_;6 2,*0' 8 ,)' 1),)*-' .1;->*.' 1 ' 2 1-?6, 12' 12',)*' .;DA*>,' D*. 0*.' ,)*' >- =,;-*.' ? 5),' *6. / ' .;==1.*' ,)6,',)*' - ,*' 86.' 1- 5 26/ 8 ,)' D-6)6?' >)6-6>,*- .^ ,>' 1 ') .' .**0' 620' =-6>, .*0' 6?125',)1.*' 26, 12.' 12/ ' "-)1')60' /*6-2*0' ,' -1?' ,)*?' ()' .')18*+*-' 6=^

=*6-.' 21,',1')6+*' D**2',)*' >6.*' M */.;.' 6=% - 5% >12^ ,-6' ' ' 'K T' B;/ 62' 6=% -/' 'D ' d' N T' >1?=6-*' <6-.)6?' ' " !' =% N' ._%T 6;*-' ? 1 !' N ' 'N' ._%T B6)2' ' ' 'K' ._%T .**' 1-)*>9' D ' ;' " ' % "' " "g' \ ; .D% 620' *?51' RNhX% % 1' ! ' -.,' 1' 6// ' " ' 6 % ' 8*-*' 6' > ->; ?>. *0' =*1=/*% 12>9' I* ' ' f >% ' =' SSX' 1//18*0' D ' & *..*/ 25' I ' # ' ' N X' 620' D ' 2;?*-1;.' 6D/*' 8-,*-.' 6//*5*0',)6,',)6,' .' 86.' 21,',-;*' 1 ',)*' 8)1/*' 26, 12' D;,' 1 ',)*'=-*.,.' 12/ d ,)6,' 6,' /*6.',)*' =-*.,.' 8*-*' >->; ?>. *0' .' D* 120' >12,-1+*-. % 1' 12*' >62' 1-' 6' ?1?*2,' ?65 2*',)6,' ,)*' 601=,*0',)*' -,*' 71?',)*' 0*.=.*0'.)*=)*-0.' 1' 41.)*2T 620' 8*' 6-*' ??*0 6,*/' 1->*0',1' D*/*+*' ,)6,' 5A_,62'>->;?>.12')60'62' 20*=*20*2,'1-5 2% ' 5-*6,' =-*=120*-62>*' 1' 6-5;?*2,')18*+*-' 6=^ =*6-.',1';.',1'=-1+*',)6,',)*-.*' 86.';2+*-.6/6?125' ,)*' 1/0' 5A7=,62.' 6.' /125' 6.' ,)*' -' 26, +*' 2.,,;^ ,12.' /1;-.)*0' 6/,)1;5)',)*-*' .' 21' _;*.,12',)6,' ;20*-' *-. 62' 620' 4-**9' -;/*' ,' 5-60;6// ' */// 2,1' 0.;,.*' 620' 86.'-*,6 2*0' M)*/'D',)*'=-*.,.' 620' D' ,)1.*' 8)1' 0*. -*0',1';>;/,+6,*' 62>*2,' 8 .0_?' M.**' - 5*2' 'D !' +' RT' 6/ "!' LLL ' QT' LL% ' RT' 620' !' 5 !' ' NT' B*-1?*' '? !' +' =% T' :1-6' =1//% # !'*6 !' ' '=% N' *0% 6;2T /*?% /*L% $ ' ' N X% :*-101,;.'0 ., 2>,/ '0*>/6-*.',)6,',)* 5 =,62.'=-6>,.*0' >->;?>.12' 620',)6,')*'?*62,' ,1'.,6,*',) .' 1',)*' 8)1/*' 26, 12' .' ?62 *.,' 21,' 12/ ' . 2>*',)*' 6/86 .' 1? ,.',1' 600' 62 '-*.,-> , 12' D;,' D*^ >6;.*' ??*0 6,*/ ' 1//18 25') .' -.,',,6,*?*2,' 1',)*' 6>,')*'622*L*.,) .'-*?6-9% ' ()*A=2*.7.'?1-*1+*-' .)6+*',)* -' 8)1/*' D10A7*+*- '1,)*-'06 J'*,>% M:*-10' ' N X% ,' .' 0 *;/,' ,1' .;==1.* ,)6,',)*') ,.,1-62' >1;/0')6+*' D**2' ? .,69*2' 12',) .' =1 2,' >12. 0*- 25') .' =*-.126/6>_;6 2,62>*' 8 ,)' 5 =,% M -,6=66;. ')18*+*-' ?69*.' 6' 0 .,2>, 12' D*,8**2' B*8 .)' 620' 5 =,62'>->;?>.12' 6=% ;.*D% %%f' 6 !' +' K %X ;-,)*-')*' 2 1-?.';.',)6,',)*' 1/>) 62.' 8*-*' 6' >1/1^ 2' -1?' 5 =,' >12. .,25' 1' 1/0 *-.' -1?',)*' 6-?' 1' *.1.,-.% & ,)',)*.*' D*' D60' >12+*-.*0' M 'B X' 620')*' =1. ,+*/A70*>/6-*.',)6,',)*' =-6>,.*0'>->;?^ >.12% *,' ',)*' -,*')60' D**2' >12 2*0',1',)*' =-*.,^ / '>6.,*' 1' 5E =,' ,' >1;/0')6-0/ ')6+*' D**2' 1;20' 6?125',)*' 1/>) 62.' 6,'6//% ()*' .6?*' -*?6-9' 8 // 6==/ ',1',)*' .6+65*' (-15/10 ,*,' 1' ->6' *+*-' D-62>)' 1' 8)1?*L>*=,' 12*' M,)*' 1/1D X' 6.' 101-;.' 2 1-?.';.' M N X' 86.'>->;?>.*0')6+ 25' /*6-2*0' ,)*' =-6>, >*' -1?',)*' 5A7=, 62.% ()*' (-15/10 ,*.' 6==*6-',1')6+*' D**2' 8 0*/ '0 ;.*0',)-1;5)' D 6' 8)>)' 6-5;*.' 6' >1--*.=120 25' 0 ;. 12' 1',)*' -,*T' *,' -1?',)*' . /*2>*' 1' 101-;.'>12>*-2 25',)*' " ' .6+65*' 26, 12.' 8)1?')*' -*>1;2,.' 6.' ->62',) 1= ^ 62.' 8*' ?6' 2*-',)6,',)*' 86.' =-6>, .*0' D ',)*?% ()*' 0 -*>,',*., ?12' 1' 101-;.' M 'KQX')/1' IL%%f' N X' 620',-6D1' ML 'QK T' >1?=% 56,)6>)% *0% :;0.12' S% .',1',)*' .6?*' * *>,'6.',)6,'1' :*-101^ ,;.'-*.=*>,25' 5 =,T *,',) .' >62')6-0/ 'D*' >6//*0' >12 -?6,1- '. 2>*' 2',)* -'06 .',)*' -,*' 86.' 21'/125*-' 5A7=,62' >->;?>. 12% ' :*-101,;. ' ?1-*1+*-' ,*//.' ;'M X',)6,',)*' ,) 1= 62.' 8*-*' 6/.1' >->;?>.*0T 620')*' 86.% 2' 01;D,' 8)*,)*-',)*')60' /*6-2*0',)*' -,*' -1?',)*' 5 =,62.' 1-',)*' 5 =,62.' -1?',)*?% ',)*' ,) 1= 62.' 8*' ?;,' ;20*-.,620')?',' ?*62',)*' 2)6D ,62,.' 1' <*-1*' 1-' *2266-% f',)*'=-*.*2,' 06',)*' 1=,>');->)'>12, 2;*.',1'=-6>, .*' ,'6>>1-0^ 25',1' % *D;)-' M_;1,*0' D' < >)6*/.X T ,)*' D .^ .2 62')-., 62.' 01',)*' .M ;01/% # !' 6 " %f' R% 620' 1 !G8f' KSQ' ._ XT' 620',)6,',)*' 86.' 2C

,-10;>*0'6?125',)*'/6,,*-'C8,)'6'B;O6>6/')- ., 62, ' 6==*6-.' -1?,)* -'=*- 1-? 25',';=12'D1,)' *L*,%' M ,' .' .>6->*/ '81-,)'8) /*',1' 2+*2,'6'2*8'26?*'-*> . 12' 1-' -*..*>, 12' 1-' 6>>;-6> .' .69*%X' /0*201-=' 0*^ .>- D*.!%,)*' - ,*' 6.' 8 0*/ ' .=-*60',)-1;5)' & *.,*-2' - >6 ' S7 12' *6>)' . 0*' 1',)*' / 2* ' *+*2' 6?125' 26, +*.',)6,'6-*' 21,' <1)6??*062% 2' /6,*-', ?*.', ').'D**2' 6.>*-,6 2*0',)6,', .'=-6>, .*0' D ',)*' 6)-' 26, 12.' 2' 1;,)' ->6' ?1-*' =-1=*-/ '>6//*0' 1.6' 1-' ?691.6'C8)1?' ->)6-0' .;==1.*.', ,1' 1-?' 6 7 5-*6,'=6-,' 1',)*' 26, +*' =1=;/6, 12' 1' ->6',1',)*' .1;,)86-0'1',)*' *_;6,1-%J' :*' -*?6-9.';=12',) .a ,' .'.>6->*/ '8 ,) 2'=-1D6D / , ',)6,',)* ' 1--18*0' ,)*' >';.,1?' -1?' 26, 127' 8)A' =-1 *..' ./6?' 1-' 8*' .)1;/0' 20' 6?125',)*?' 1,)*-' =-11 .' 1' 2,*->1;-.*' 8 ,)'=*1=/*' 1',),6,' >/6..%' ,' .' ?1-*' =-1D6D/*',)6,',) .' =-6>, >*' .' 6'-*/ >' 1 '62> *2,' ->62' >;.,1?.' 1' 8) >)',)*' 5A7=, 62.' 6.' ,' .' 8*// 92182' =6-,119' 2' ,)*' -*?1,*65*.J'M ->)6-0' " '# ' ' 'N0' *0% ' KQ X% (-6>*.'1',)*'>;.,1?')6+*'*+*2'D**2'1D^ .*-+*0'6?125',)*' 26, +*.' 1 '.1?*' 1',)*' 1;,)' *6' ./620.'M >9*-25'5 ' ' 1'=% N RR'K '*,>%0% : 18' 6-',)*' - ,*' 86.' *L,*20*0',)-1;5)',)*' -1C -6D 62' -6>*.' .' ;2>*-,6 2'MD;',.**' ,-6D1'L+ ' S' = =)62% ' L ' N T - 5*)' 60' ? ! ' X0' 2',)*' R,)'.*>, 12' 1',)*' = ../*' 1 ' 6-26D6.'M8) >)'8)*,)*-' 5*2; 2*' 1-' 21, ' .' +*-A'1/0X',)*' 8- ,*-' >1? ?*2,.' 6.' 1//18.á ;,' 1;' 8 /! .6 ',)*' B*8.' 8*-*' > ->; ?^ >.*0' 1-' 6' .52% 20' .1' 6-*' 6//,)*' - 62.' 620',)*' -6D 62.' 620',)*' 01/6,-1;.' =- *.,.T % % % 620' *+*2' ,)*' 5 =, 62.'7,)*?.*/+*.' 6-*' > ->;?> .*0%J' ( ) .' /625;65*' .' +65;*' 620%=1=;/6-T *,' ,' .)18./'18'21^ ,1-1;.' 86.',)*' 8 0*' 0 ;.12'1',)*'>;.,1?'M.**' : ;5' 2',)*'@ '. " ! 'K NX% W()*) / ., 2*. ' 2' ,)*' 06 .' 1' 6;/'8*-*')18*+*-' ;20->;?> .*0T .1' 6/.1'.6 .' : *-101,;.'M ' X'8*-*'6//,)*')1*2>62.' 8)1')60'2,*->1;-.*' 8 ,)',)*' 4-**9.% ()6,',)*' 6C 2662,*.' 2',)*' 06 .' 1' B6>1D'8*-*' 21,'6//' >->;?^ >.*0' .' =/6 2' -1?',)*' 6 6 -'1' 26)'620')*>)*?% ()*' ,.1- '1 'U ==1-6)'M L1O% +'K X'8)1'0 0'21,'>-^ >;?>.*')*-' .12';2,/ *6-'>6?*'1+*-')*-',)6,'B*)1+6)' 81;/0' ./6 ')*-');.D620'<1.*.'=-1+*.',)6,',)*' 6?/' 1 'B*,)-1',)*' < 0 62,*')60'21' L*0'-;/*'6D1;,' ,'6/^ ,)1;5)',)*' < 0 62,*.'6-*' 5*2*-6// '-*56-0*0'6.'>) /^ 0-*2'1' D-6)6?'D ' *,;-6)% 2',)*' 1,)*-')620' 8*')6+*',^*'0 ., 2>,',*., ?12'1'B1.*=);.'I& ' ' K' KX',)6,',)*' .)?6*/,*' -6D.' 2)6D, 25',)*'0 .,-'>,' 1 % 6D6,).*6'8*-*' > ->;?> .*0'6,*-',)*-' N,)' *6-á ,) .' ?;.,' D*' >122*>,*0'8 ,)',)*',-60, 12'8) >)'21' 01;D,'*L .,*0'6?125',)*'?'1',)*' 65*' 6,'8) >)',)*-' 1-* 6,)*-' .)?6*/;20*-8*2,',)*-.,*'M4*2%L+ 'K X% ,%B*-1?*' 6/.1'M_;1,*0'D ' < >)6*/.X 2 1-?.';.',)6, ,1') .' 06 ' 4 '+ ',)*',-D*.'08*// 25'-1;20' B;0.*6'620' 6/*., 2*'8*-*' > ->;?> .*0' *.=*> 6// '6//' ,)*' 6<L>*=.*,)*' 5 =, 62.' 0;?.*62.' ?? 12^ ,*.' <16D,*.' 620' .)?6*/,.*'1',)*'0*.*-,' 8)1?' (" ' '% ' 6-*' > ->;?> .*0' 6// 1,)*-' 26, 12.' 2' ,)*'81-/0'6-*' ;2> ->;?> .*0%J' '2*56, +*'*2' 26, 12.'1' 62662' 62' ?1-*' 1-' /*..' 0625*-1;.'T *,' ,)*-*' .' .1?*,) 25' .,-9 25' 2',)*' 6>,',)6,',)*'D119.'1'<1.*.'1'B1.);6' 620'1'B;05*.' 2*+*,'D*.,18',)*'*= ,)*,' 6.'6'-*=-16>)'12'62 '1',)*'.*+*2' 26, 12.'1' 62662' 62 ' ?1-*' ,)62' 12',)*' <16D,*.' 1-' ??12,*.',)*' ?6/*9,*.',)*<0 62,*.'1-'1,)*-' 2/620',-D*.'8,)' 8)1?',)*' >6?*' 2,1' >12/>,' 2',)*' >12,-6-' 6.' .112'6.',)*') /.,2*.'D*>1?*'=-1? 2*2,' 2',)*' 26-^ -6, +*'6,*-',)*'D-,)'1' 6?.12',).'*=,)*,' .'1' -6,)*-'>1?12'1>>;--*2>*% ()*' 6>,'6/.1'1'D- 25 25' D6>9'6.'6',-1=) ',)*' 1-*.9 2.'1'./6 2'*2*?*.'2*+*-' 1>>;-.'*=1>*=,'656 2.',)*') /.,2*.'M' 6?%L+ %' &>'?6 '=*-)6=.' 2*-'6,'/*6.',2,/'1,)*-'=-11'1-' 0.=-11'.'6,,6 2*0',)6,'8) /*',)*') /.,2*.'/9*',)*' 012 62.'620',)*'1,)*-'?6-, ?*' -62'26, 12.'92187' ,1',)*'4-**9.'8*-*I'8)1// '.,-625*-.',1',)*'=-6>,>*' *,'6?125',)*' 62662,*.'620'6//',)*' ?1-*' 2/620' ,-D*.' ,'86.'6,'/*6.,'.1' 6-' >1?? 12',)6,'2 '5*2*-6/ 0*.>-=, 12' >1;/0'D*' 5 +*2',)*?' -1?',)*' 1? .. 12% ,'6==*6-.' -1?'81.*=);.'I& 'L 'RX',)6,'8)*2': -C >62;.' .;D0;*0',)*' 0;?-*62.')*' 1->*0',)*?',1'D* >->;?>.*0'12'=6 2'1'*L=6,-6, 12% ()./.)18.',)6,' ,)*')60'6,'/*6.,'0.;.*0',)*' -,*% ;',)6,'.' 21,' 8120*- ;/' ','86.'12/'6'>;.,1?'620'21,'6', 126/ -*/5 1;.' 1-0 262>*'1' 1-' 6.' < >)6*/.' 1D.*27*.',)* 0.;.*' 1',?6')6+*'06,*0'-1?',)*' *0>,'1' 2, 1C >);.' =)62*.'1'8)>)',.'.6 0'M' <6>>% ' ' KX' ' ()*'9 25' 2,=>);.' 8-1,*',1'6//) .' 9 2507*',)6,' 6// .)1;/0'D*' 12*'=*1=/*' 620',)6,'6// .)1;/0'9**=',)* 1-0 262>*.'1') .' >1;2,- '620'6// ,)*' 26, 12.'6>_;^ *.>*0'6>>1-0 25',1',)*'81-0'1',)*'9 25%J' ()*-6,)*-' 1D.>;-*' 21, >*.'8) >)'6-*' 1;20' 2'B*-*? 6)'620' [*^ 9*/1',)*'>->; => .12'1',)*'26, 12.'8)1'8*-*' 2' ?^ ?*0 6,*'>12,6>,'8 ,)' .-6*/60?,'1'6' 26,;-6/ 2,*-^ =-*,6, 12' 2'>12 1-? , '8 ,)'8)6,')6.'D**2'6/-*60' 600;>*0'MB*-% L'K T [*9% LLL ' Q' 6/.1'LLL ' R' % 8! ()*0 >;/, ',;-2.'12',)*'2*8' ';.*' ?60*'1',)*',*-?' ;2>->;?>.*0 J',1'?*62'. ?=/' % ! ()*=6..65*' 2'B*-*?6)' .',);.',-62./6,*0' D' 8 6/0á %)1/0',)*'06 .'>1?*',)6,'+ .,'6// ,)*';2>->;?>.*0'>->;?>.*0'12*.T 5A7=,'620'B;^ 06)'01?'620',)*')/0-*2'1' ?12'620'<16D' 620'6//',)*'08*//*-.'2',)*'8/0*-2*..',)6,'6-*'.)6+*2' 12',)*,*?=/*.á 1-'6//,)*)*6,)*2'6-*';20->;?>.*0' 620' .1' .' 6//,)*)1;.*' 1' .-6*/ ;20->;?>.*0' 2')*6-,% ()*'.)6+25'1',)*',*?=/*.' 6==*6-.',1'D*' 9 >.*0'1-'6'.52% 20'.1'6-*' 6//,)*' - 62.'620',)*' -*/5 1;.';>;.,1?'1',)*'.6?*'9 20á :*-101,;.'M ' X' 6.>-D*.',',1',)*' -6D.'5*2*-6// '620'B1.*=);.'-6,)*-' .,-625*/'-*56-0.',)*'*=,)*,'-=1L1>1;=,' 2',)*'62^ >*2,'4-**9'=1*,')1*-/;.'I !'&%!' 'KKX'6.'6'0*.>-=^ ,12'1') .'182'>1;2,- ?*2% 218 25',)6,',)*' 5 =^ ,62.'8*-*'>->;?>.*0',21'/125*-'-*?6 2.'01;D, ;/)18*"' % "' '6 %'MB1.)'+'RX.)1;/0'D*' 2,*-^ =-*,*0% :18' 6-',)*'-,*' 1' ->;?>.12'.=-*60'1+*-',)*' .1;,)C8*.',1' -6D 6'21'0* 2,*'-*>1-0'.;D. 7, ()*' ./*2>*'1',)*' 1-62'>12 -?.',)*',6,*?*2,'1' D;/*06' I# !'& = 1'=% Q '*0% /* .>)*-' Q%X,)6,' ,)*'>;.,1?'.'1/0*-',)62'<1)6??*0')1' ,'81;/0' 6==*6-' 2' 21' -*.=*>,'-*56-0*0' ,'6.'6'-*/5 1;.'-,*% *+*-,)*/*..' ,'6.'*L,*20*0',5*/'8,)',)*'<1)6?^ ?*062' 6,)'6.',)1;5)',' 8*-*' 6'=1., +*' 1-0 262>*% 1>1>9*'I$% '# '& !'=% N RX'>,*.'6',-60, 12' 8)>)'6.>-D*.',1'<1)6??*0',)*' 81-0.' ->;?^ >.12'.2'62'1-0 262>*' 1-'?*2 I620')121;-6D/*' 2'81?^ *2%J' () .' *L,*2.12'1',)*' -,*',1',)*' 1,)*-'.*L' ?5),' 2',.*/ '.6, .';.',)6,',)0 0'21,'>1?*',1',)1.* 26, 12.'-1?' D-6)6?'620'.)?6*/% & *')6+*'6/-*60' .*)',)6,' D .. 2 62'>->;?>.12')6.',)*'.6?*'=*>;^ /6-,'T .1',)6,',.'*+*- '86 '=-1D6D/*',)6,' 1;,)*-2' -6D 6')60',)*'-,*' -1?',)*'.6?*'.1;->*' 1-' 2/;*2>* 6.' ,) 1= 6% 2' 6>,',)*'+*-'>/1.*.',-*/6, 12.'6-* 9218 2',1')6+*' .;D. .,*0'D*,8***2',)*' 26, 12.'12',)*' 1==1. ,*'>16.,.'1',)*' *0' *6% 21,)*-'=6..65*' 1' D;/*06' I& ' 1' 'RKX'5+*.' .=*> >' 2^ 1-?6, 12' 12',) .' .;DA*>,% 2',)*' D6,,/*' 1')10' 2' ,)*',)-0' *6-'1',)*' :*5-6' :6?[6',)*' ;2>/*' 1' -8?hGJ' ()*' 1-?' 1',)*' 81-0'=-1+*.',)6,',) .' 86.' .,-> ,/',)*',-60*' 1',)*' 1/0' 81?62'620',)6,',)*' >;.^ ,1?'6.'6==/*0',1'*?6/*.'86.'21' 221+6, 12' 1',)1.*' 06 .% *D;)-')60' 1>;/6-0*?12.-,6, 12' 1' *?6/*' A ->;?>.12' 2' -6D 6'I- 1' 'K X% % I 1>1>9*' ;1,*.',)*'*>>/*.6.,>6/') .,1-62')/1.C ,1-5 ;.' 1-',)*' 6>',)6',)*' : ? 6-,*' -6D.'>->;22=C */.*,)*-'>)/0-*2'12',)*' " "' ! : *' _00.'6'=6.^ .65*' -1?' ' 46[[6/' 2' 8)>)',)*'8-,*-'.6 .',)6,')*' -6D.'0 *-' -1?',)*'B*8.'6.',1',)*', ?*'1-',)*' *' =1.,=12*' ,';2,/,)*'>)/0')6.',**,)'8)>))*',) 29.' .6 *-% 26// ')*'>,*.' D2' ,)-'8)1'8-, 25'1',)*' *,'6?125',)*' 62662,*.'620'6//',)*' ?1-*' 2/620' ,-D*.',)6.'6,'/*6.,'.1' 6-' >1?? 12',)6,'2 '5*2*-6/ 0*.>-=, 12' >1;/0'D*' 5 +*2',)*?' -1?',)*' 1? .. 12% ,'6==*6-.' -1?'81.*=);.'I& 'L 'RX',)6,'8)*2': -C >62;.' .;D0;*0',)*' 0;?-*62.')*' 1->*0',)*?',1'D* >->;?>.*0'12'=6 2'1'*L=6,-6, 12% ()./.)18.',)6,' ,)*')60'6,'/*6.,'0.;.*0',)*' -,*% ;',)6,'.' 21,' 8120*- ;/' ',)6,'.' 21,'

,)* -'62> *2,'0 ., 2>, +*' - ,* ' 620' 81;/0') 6+*' ?=1.*0' ,' *+*2' 12',) *' 4*2, /*' >12+*-,.' ,1')- ., 62 , 'M >,.' d ' 46/' + ' K' *,>%X% ;-' 1-0') ?.*/' 86.' > -^ >; ?> .*0' D*>6;.*' ,' D*>6?*') ?' 8)1' 86.' 1 ',)*' .**0' 1 ' D-6)6?' 6>>1-0 25',1',)*' /*.)',1' ;/ /' 6// - 5),^ *1;.2*..' 620' D*>6;.*')*' 86.' '6' ? 2 .,*-' 1',)*' > -^ >; ?> . 12' 1-',)*',-;,)' 1' 410',' >12 -?',)*' =-1?^ .*.' ?60*' ;2,1',)*' 6,)*-.J'M 1?% L+' XT' 620' 6;/ >6;.*0' (?1,) ',1' D*' > ->; ?> .*0',1' 6+1 0' 1 *2>*',1' 77,)*' B*8.') .' ?1,)*-'D* 25'6'B*8*..' D;',),*' .= - ,'1' %)- ., 62 ,E' 86.' 6+*-.*' -1?',.;>)' 2.,,;., 12.' M >,.' d ' C T' 46/' 'N' *,>%X ' 1-',)*' 1;,86-0' >6-26/' > -C J >;2 > . 12' ,' .1;5),',1' .;D.,.;,*',)6,' 1',)*')*6-,' M 1?% ' KQ' KRX' ,)*' > ->; ?> . 12' 21,' ?60*'8 ,)')620.' 2I=;,, 25'1 ',)*' . 2.' 1',)*' /*.)' *+*2',)*' > -^ >; ?> . 12'1 ')- .,J'M 1/% ' X%

?125',)*' 62> *2,'B*8.',)*' -;/*',)6,' > ->; ?> . 12' .)1;/0',69*' =/6>*' 12',)*' * 5),)' 06 ' 6 ,*-' D -,)' 86.' - 5 0/ ' 1//18*0'M ;9*' ' RT' 'K T') /' ' X'.6+*' 2' .;>)' +*- ' *L>*=, 126/ >6.*.' 6.' ,)1.*' ?*2, 12*0' L10% +' K T' B1.)' +' % +*2',)* -' -*+*-*2>*' 1-',)*' 6DD6,)70' 21,'=-*+*2,',)*' B*8.' -1?' 1D.*-+ 25',' 12',)6,' 16 'MB1)2' + ' KK' KNX' 6>>1-0 25',1',)*' 6DD 2.' > ->; ?> . 12' =*// ,' 6DD6,;?J'M 5), 11,' D !'# "!' 'D ' + ' KKX% ()*' 1=*-6, 12' ? 5),' D*' =*- 1-?*0' D ' 62 ' .-6*/,*' D;',' ;..;6// ' ,' 86.' =*-^ 1-?*0' D ',)*' 6,)*-' 1',)*' >) /0T' 2' .=*> 6/ >6.*.' 81?*2' ? 5),'=*- 1-?',' M L10% +' K X' ()*' 2.,-;^ ?*2,';.*0' 2',)*' *6-/ *-0, ?*.' 86I.' 6'.)6-=' .,12*' 1-' 6' 92 *' 1' / 2,' M7L10% +' K T' B1.)' +' K' NT' >1?=',)*' E g '& ; --) ';.*0'Λ',)*' 5 =, 62.' 2' =-*7 6- 25' D10 *.' 1-' *?D6/? 25' : *-10' 'QSX% **' 1 ! ()*' 1=*-6, 12' 86.' 6' =6 2 ;/ 12* 7,' /*6.,',1' 5-182' =*-.12.' M4*2% LLL +' K T' B1.)' +' X' 6D0' -* ; -*.' 6D1;,',)-**' 06 .' 1-',)*' 2 /6? ?6, 12',1'.;D. 0*' M -C' + *;L' SX% ,' 86.' ;.;6/,1'>122*>,',)*' 26? 25' 1',)*' >) /0' 8 ,)',)*' > ->; ?> . 12' M4*2% LL ' N' T' ;9*' RT' 'K X' 6' =-6>, >*' 8) >)' =-1D6D/ ')60' -**^ .=*>,',1',)*' 6>,',)6,',86.' 2'>122*>, 12' 8 ,)',)*' 2^ .,,;. 12' 1',)*-.,*',)6,' 410' 56+*',1',)*' 62>*.,1-' 1' ,)*' -6>*') .' 26?0' 1' D-6)6?' M4*2% L+ ' X% **' * !

K% , '"*' % 'D % ' 1?*' 1',)*' B*8. 2',)*', ?*' 1' 2, 1>);.' =)62>.' 8 .) 25',1'6.. ?^ /6,*',)*?.*/+*.',1',)*')*6,)*2' 6-1;20',)*?'D; /,'6' 5 ?26. ;?'I % 8'6,'B*-;./*?'620',)6,',)*' ? 5),'21,')*' 92182',1'D*' B*8.' 8)*2',)* ' 6==*6-*0' 269*0' 2',)*' 56?*.' ?60*',)*?.*/+*.' ;2> ->; ?^ > .*0J'M' <6>% ' ' * '61-1,7')% 1 'E < O ! ' '% % .' B1.*=)% & !'L ' ' fN ' ' 8N' - % % ' --) O =)-# 8' 1?*, ?*.' ,) .' 86.' 012*' D '6'.;-5 >6/ 1=*-6, 12' .;>)' 6.' */.;.' 0*.>- D*.' I ' '+ 'K T' >1?=% 46/*2' "!' ! L +' ST' 6;/ %75 2% +' NT' =)62 ;.' ' '% ' ' !=% NQ'*O% 6./% S X'.1?*, ?*.'D '1,)*-'?*62.' M 1.>1-% +' X% ()*',*-?' 1-',) .' 86.' >- M(6/?% 1 ' 1' .>%,)* =-*=;>*' M' <6>% +T .**' 6-,)1/ 2% "!' !LL+ X% 56 2.,')6+ 25' -*>1;-.*',1',) .' =-6>, >*' -1?' 62'*L^ >*.. +*' 62, CB;06 .,>',*20*2> ',)*' 6=1.,/*' 6;/ >6;^ ,12.',)*' 1- 2,) 62.' 2',)*' 81-0.' & 6.' 62 ' 12* >6//*0' D* 25' > ->; ?> .*0'/*,') ?' 21,'D*>1?*' ;2>-IF >; ?> .*0J' I*=4' (--) $ *1' 1-% + ' QX% **' ,),' ..6 ' 1 ' 4-100*>9' ' ' D D ' % % ' " =' 'M =.% SRRX T' 6/.1' 2' >)1,,5*2 .'# !'# !' T' 620' 2' : 6.?' *,' 9*2 '7 !'-" !' T' RN ._%T' 620' 2' $51C / 2' -+ !' L L T' 75*/ ' ' 'D '% %!' "!' M =.% SRRX T' 1.. ;.' ' ' % % ' D ' MB*2% SS X7' 6/.1' 2' >)/6*5*-' ' !' !' M : */?.,% N' ' QR' ._%XT' & *0*// '6 !' !'%" !' '+' ' ._%T' ;C 01/ ' ' !' &6 "!' =% K T' ;/P9*-,' 2',)*' $! ;%) !' QN ' ' S T' >1?=% 6D- ' ; " !' & !',)*' 62> *2,' 5A7=, 62.',) .' (;-9 .)' .= - ,' 86.' >6-- *0' ,1' 6' 5-*6,') * 5),T' 21-' .' ,' 8120*- ;/ ,)6,' 2')1,' >/ ^ ?6,*.'0*,6 /*0' =-*>*=,.'1 '>/*62/ 2*..' 1-?'6'+*- '/6-5*' =6-,'1 '=- ? , +*' -*/ 5 12% ;,' 8>' >62')6-2*/ ' -*.,' 2' ,) .' 6.' 6'.; > *2,'6>>1;2,'1 ',)*' '1 ',)*' -,*'M.** 6 ,)% ' $2> ->; ?> .*0' 2')*6-,'620' *6-.J' 86.' 6' ?*,^ 6=)1-',1' &)>)' 6' =-1=)*,' 81;/0' D*' >6-- *0' 6.' 2*>*.^ .6- / ' 6.' 6')- ., 62',*6>)*-',1' ,;>)' =)-6.*.' 6.' II12C D6=, [*0' 2' .1;/ J' 1-' 86.)*0' D ' -*5*2*-6, 12%J' , ' 86.' 6' 8*// 92182' 620' -*60 / ' ;20*-.,110' ' ' % ! ' ,,1'.% %T ? ,)' .%+% 2 ' 1 '> ->; ?> . 12' 6.'=-6>, >*0' D ',)*' B*8.' 2' 1;-'182',?*.' .',) ;' ,)*' 5),)' 06 ')6==*2.',1' D*' 12',)*' 6DD6,)',)*' >*-*^ ?12 '?;.,' D*' =*- 1-?*0' 12',)6,'06 ' 21,8 ,).,620 25' ,.' .62>,, ' 7)*2' 6' ?6/*>)/0' .' D1-2',)*' 5#0 6C ,)*-' .' >)1.*2' -1?' 6?125.,' D .' -*/6, 12.' 1-' 2*6-' - *20.T' 620' ',)*' =6-, ' .' 21,' 2' > ->; ?.,62>*.',1' D*6-',)*' *L=*2.*.' 8)>)' 6->' >12. 0*-6D/*' M 1-' 6 ,*-',)*' >*-*?12 ' .' =*- 1-?*0' 6' D-*69 6.,' .' =-1+ 0*0' *+*2' 6?125.,',)*' =11-' 2' 6/;L;-1;.' ?622*-X' ,' .' ;.;6/' 1-',)*' =11-',1' 5*,'12*' 6?125.',)*' - >)*-' 8)1' 6>>*=,.',)*' 1 >*' 620' D*>1?*.' 6' 510 6,)*-% ()*-*' 6-*' 6/.1' .1> *, *.' 1-?*0' 6?125.',)*?' 1-',)*=;-=1.*' 1 '0* -6 25',)*' *L=*2.*.' 620' *+*-A'B*8'-*>* +*.',)*' D*2* ,' ') .' >) /0' .' D1-2' 2' 8*0/1>9% ()*' >*-*?12 ' .' =*- 1-?*0' 2',)*' 1//18 25' ?622*-' 2' 5*2*-6/% ()*' > ->; ?> .1-' D* 25' =-1+ 0*0' 8 ,)' 6' +* ' .)6-=' 2.,-;?*2,' >6//*0',)*' > ->; ?> . 25'92 *'M.**' # ;620, ' ' 2 ' D 1' *5 1?% NX' =/6.,*-.' >;??2C.**0',1' 0-*..',)*' 81;20' =-1=*-' D62065*.' *,>%',)*' >) /0' .' D-1;5),',1',)*' 011-' 1',)*' . 26515;*' /X',)*' 510?1,)*-' 8)*2',)*' 510 6,)*-' -*^ >*' +*.',' -1?')*-' 620' >6-- *.' ,' 2,1',)*' . 26515;*' 8)*-*' 6'/6-5*' >)6 -' 8 ,)',81'.*6,.' .' =/6>*0T',)*' 12*' .' 1-',)*' 510 6,)*-',1'. ',';=12',)*' 1,)*-' .' >6//*0',)*' .*6,'1' / A6)',)*' =-1=)*,' 8)1' .' >6//*0',)*' 625*/' 1-' ?*..*25*-' 1',)*' >1+*262,% .' .112' 6.',)*' 510 6,)*-' *2,*-.' 8 ,)',)*' >) /0',)*' >125-*56, 12' .6 ' ' /*..*0' .')*',)6,'>1?*,)',1')*' >->; ?> .*0' 620' *2,*-' 2,1',)1' >1+*262,' 12',)*' 5),)' 06 %J ()*' 510 6,)*-' D* 25' .*6,*0' 6=0',)*' >) /0' =/6>*0' 12' 6' >;.) 12' 2") .' /6=' ,)*' > ->; ?> .1-' =*- 1-?.',)*' 1=*-6, 12' 620' /71/0 25' ,)*' >) /0' 2') .' 6-?.',69*.' 6' 5/6.. ' 1' 8 2*' 2,1',) .' -5),)620' 620' .6 .' 6.' 1//18.d /*..*0' D*',)1.*' 1-0' 1;-' 410' 25' 1',)*' $2 +*-.*' -*6,1-' 1',)*' -;',1',)*' + 2*% /*..*0' 6-',)1;' ' 1-0' 1;-' 4106' 8)1')6,)' .62>, *0') .' D*/1+*0' -1?',)*' 81?D' 620' 1-06 2*0' 62' 1-0 262>*' 1-') .' 9 20-*0' 620' .*6/*0') .' 0*.>*2062,.' 8 ,)',)*' ?6-9' 1' D .')1/ ' >1+*262,T' ,)*-* 1-*' 1-',)*' ?*-,.' 1',) .' ' / + 25' 4106' 1;-' -1>9' 620' 2)*-.,62>*' >1? ?620',)*' 0*/ +*-62>*' 1',)1' D*/1+*0' 1',1';-' 9 20-*0' -1?',)*' = ,' 1-',)*' .69*' 1',)*' >1+*262,' 8)>)')*)6),)' =;,' 2' 1;-' /*.)% /*..*0' 6-,)1;' ' 1-0',)*' <69*-' 1',)*' 1+*262,6 ;-' 410' 620',)*' 410' 1',1';-' 6,)*-.6=-*,*-+*%,) .' >) /0',1',) .' 6,)*-' 620' ?1,)*-' 620') .' 26?*' .)6// D*' >6//*0' 2' .-6*/' ',)*' .12' 1% *',)*' 6,)*-' -*A1 >*' 2',)1.*' ,)6,'51' 1-,)' -1?',) ./1 2.' 620'/*,') .' ?1,)*-' D*' 5/60' 2',)*' -;',1')*-' 81?D' 6.',' .' 8-,,*2'I()' 6,)*-' 620' ?1,)*-' .)6// -*A1 >*' 620',)* ',)6,' D*56,',)*1' .)6// D*' 5/60%' J ()*' 6,)*-' 1',)*' >) /0' .6 .',)*' 1//18 25' 5-6>*d ' /*..*0' 6-,',)1;' ' 1-0' 1;-' 410' 25' 1',)*' $2 ^ +*-.*'G 8)1')6,)'.62>, /*0';.'8 ,)') .'>1? 620?*2,.' 620' >1? ?620*0' ;.',1'*2,*-' 2,1',)*' >1+*262,-' 1' 1';-' 6,)*-' D-6)6?%J ()*' >125-*56, 12' 62.8*-' .')1')6,)*' *2,*-*0' 2,1',)*' /68',)*' >621= ' 620',)*' 5110' 620' +-,;1;.' 0**7.%J' M **' ;L,1- '$ 'D =1' 1')% %X % ' ' ' "' ' % ' -101,;./125' 651' 0*>/6-*0',)6,',' 86.' 601=,*0' D ',)1' 620' 6' ./5),' 6>^ /62/ 2*..' I) , % - 1' 620' 6' ./5),' 6>^ _;6 2,62>*' 8 ,)',)*' 0*6.' 1 7,)*' (;-9.' >12>*-2 25' =*-.126/ 0* /*?*2,' 8 // ?69*' ,' *6. ',1' D*/ *+*',)6,' 62' 0*6' 1 '>/*62/ 2*..' >12, 2;*0',)*' =-6>, >*' 6?125' 26, 12.' 8)>)')60' 12>*' D*>1?*')6D ,;6,*0',1',%)' 6-5*6,')*5),T' 21-' .' ,' 8120*- ;/ ,)6,' 2')1,' >/ ^ ?6,*.'0*,6 /*0' =-*>*=,.'1 '>/*62/ 2*..' 1-?'6'+*- '/6-5*' =6-,'1 '=- ? , +*' -*/ 5 12% ;,' 8>' >62')6-2*/ ' -*.,' 2' ,) .' 6.' 6'.; > *2,'6>>1;2,'1 ',)*' '1 ',)*' -,*'M.**

& ' N >?>,2+ > . 1

* / 25 ' , " ! ' NQ . %' \6/ .1 ' 2' $51 2 ' -+ ' LL h ; 00* ' # ' 6 ! ' ' % ' . % * <* *- ' ' ' %%! ' ! ' # ' ' ' =% K \$51 2 ' - " ! h 4-6== ' ' ' ' ' D6 ' Y (' ' \B*2% KKh ' & .. ' ' ' =% KNN . % 2 *; . ' # ' ' V ? V \ 2 ., SQRh ' =% K ' . % 6-=[1+' &%% ! ' =% S K . . % ' ; - [' ' " " 0 1 ' + ' \4 *-% R hX% ,7 . ' ?1-* ?=1-,62, ' ,1 ' ..6,* ,) 6, ' 62 ' 60* _ ; 6,* =) . >6/ -*6.12 ' 1-' =*- 1-? 25 ' ,) * 1=*-6, 12 ' 12 ' * ? 6/*. ' 1 ' . *+*-6/ - >62 ' -6>*. ') 6. ' D**2 ' V ; // ' . ; D . ,62, 6, *0% ( ) *' >; - =; . ' -*60*-' 8 // 20 ' 2 ' 6 ; -*2>* . ' ' M>)6=' +X ' ,) *' 0*> . +* ' , *. , ?12 ' 1 ' <-% 6--18 ' 620 ' -% 1 ?*-+ //*' 12 ' ,) . ' =1 2, ' 8 ,) ' 62 ' 6// ; . 12 ' , 1 ' ,) *' * 1-, . ' 1 ' ,) *' 1 ? .) ' ? . . 126- *. ' , 1 ' 1-D 0 ' ,) *' =-6>, >*' 2 ' D . . 2 6 ' 620 ' ,) *' ; 2*L=*>, *0 ' >12. *_ ; *2>*. ' 8) >) ' ,) 8 6-, *0 ' ,) * ? % 1 ' =1. , +*' *+ ^ 0*2>*') 6. ' *, ' D**2 ' 1D, 6 2*0 ' ,) 6, ' ,) *' 1=*-6, 12 ' . ' *_ ; 6// ' *L=*0 *2, ' 1-' ,) *' ? 6/*. ' 2 ' 62 ' 1 ' ,) *' .6 ? *' -6>*. T *, ' ,) *' 626/15 ' 1 ' ,) *' , 81 ' >6. *. ' 1-> *. ' ; . ' , 1 ' D*/ *+*' ,) 6, ' 2 ' D1,) ' ,) *' >; . , 1 ? ') 6. ' 6 ' =) . >6/ 1-' ? *0^ >6/ 5-1; 20 ' *, =*> 6// ' 8) *2 ' , ' . ' -* ? 6-9*0 ' , 1 ' =-*01 ? ^ 26, *' .1 ' ? ; >) ' 2 ' - >6 ' 8) *-*' 6/12*' M6. ' 6-' 6. ' *, ' 6=^ =*6-. X ' . ; >) ' =)E >6/ =*>; / 6- . *. ' 1 ' . , - ; >, ; -*' *L . , % , ' 86. ' =-6>, . *0 ' ?1-*1+*-' D ' ,) *' ?6/*. ' 1 ' - >62 ' , - D*. ' .1 ' .6+65*' 620 ' .1 ' / , , /*' 600 >, *0 ' , 1 ' -*/ 5 1 ; . ' >*-*^ ?12 6/ . ?' ,) 6, ' 6 ' D-160*-' 5-1; 20 ' ? ; . ; D*' .1 ; 5) , ' 1-' % , ' ,) 62 ' . ?=/*' >/*62/ 2*. . % & *') 6+*' 6/-*60 ' 26?*0 ' ,) *' (-15/10 , *. % ,-6D1 ' ?*2, 12. ' , 81 ' 1,) *-' , - D*. ' 1 ' - >6 ' 8) 1?') *' C>6//. ' -*1=) 65 ' 620 ' 1/1D ' ML+ ' =% NQ CNR ' NRK ' *O% (6 ; >) % X ' 8) 1 ' =-6>, . *0 ' 12 ' ,) *?^ .*/+*. ' 6 ' *, ' ?1-*' .) 1>9 25 ' ? ; , /6, 12 ' : 7 @ (' ' O 1(8 ' 6.>- D*0 ' , 1 ' ,) *' 1/1D ' D ' 101-; . ' 6/.1% ( ) *' 6>, ' 6/.1 ' ,) 6, ? 1. , ' 1 ' ,) *. *' 26, 12. ' =*- 1-?*0 ' 8) 6, *+*-' 1=*-6, 12 ' , ' 86. ' 21, ' 12 ' 2 62, . ' D ; , ' 12 ' ,) 1. *' 8) 1 ' 8 *-*' 60+62> 25 ' , 186-0. ' ?6-- 65*6D/*' 65*' >1 ^ .= -*. ' , 1 ' 20 >6, *' ,) 6, ' .1?*' =) . >6/ 2>12+*2 *2>*' 5-60 ; 6// C ' .) 18*0 ' . */ ' M6. ' 8 ,) ' ,) *' ; .) ?*2 ' *^ ?6/*. X 71 ' 8) >) ' ,) * ' 0*. -*0 ' , 1 ' 5*, ' - 0% B1. , ' /119. ' ; =12 ' '> ->; ?> . 12 ' 6. ' ,) *' 0 ., 25 ' ; .) 25 ' ?6-9 ' 1 ' B ; 06 . ?T 620 ' ,) . ' ?6 ' D1 ' 2*6-/ ' >1--*>, ' ,) 1 ; 5) ' 8* 6+*' . **2 ' ,) 6, ' 6>>1-0 25 ' , 1 ' D ; / *06 ' .1?*' -6D. ' 0*/6 *0 ' , 12/ ' , // 6 , *-' , **,) 25 ' 2 ' 6>, ' 101-; . ' M ' N X ' 8) *2 ' .=*69 25 ' 1 ' ,) 6, ' D-62>) ' 1 ' ,) *' (-15/1^ 0 , *' 26, 12. ' 8) >) ' 86. ' >6//*0 ' 1/1D ' 0*>/6-*. ' ,) 6, ' ,) * ' 8*-*' . ; DA*>, *0 ' , 1 ' ,) *' 1=*-6, 12 ' 2 ' 2 62> ' M, ' *- 8 ! ( ) * -' ; 226, ; -6/ 620 ' >-; */ >; . , 1 ? ' . ' =1. . ^ D/ ' , 1 ' D*' -* *--*0 ' , 1 ' . ; =*-. , 12 % 1 ? *' 20**0 ') 6+*' /119*0 ' 12 ' > ->; ?> . 12 ' , . */ ' 6. ' 6 ' .1 , *2*0 ' 1-?' 1 ' ,) *' D6-D6-1; . ' - , *' D ' 8) >) ' ,) *' 46// ' 1-' =- *. . ' 1 ' A7D*/>' 8*-*' _ ; 6/ *0 ' 1-' ,) * -' 1 >*% ( ) *' 1/1D , *' >; . , 1 ? ' ? 5) , ' 12 ' ,) *' >12, -6- ' D*' 6' >6-- 25 ' 1 ; ' 1 ' ,) 6, ' D6-^ D6- , ' , 1 ' ,) *' *L, -* ? *. , ' =1 2, ' =1 .. D/*' .) 1-, ' 1 ' *L, *-^ ? 26, 25 ' ,) *' =1=; /6, 12 ' 1 ' 6 ' , - D*% (-60 , 126- ' 1-' . ; =*-. , , 1 ; . ' -*6.12. ' >*-, 6 2/ ' >62 ' 6/12*' *L=/6 2 ' ,) *' =-*. *2>*' 1 ' ,) *' >; . , 1 ? ' 6 ? 125 ' ,) *' 6208 >) ' ./620*-. ' M< >) 6*/ . ' , ! ; "2 "! ' L + ' ._ % X ' 620 ' 6D1- 5 26/ ?*- >62. ' M4 ; ? //6 ' # ' ' N, 4 ' + 52% Q ' QN . _ % X ' 1-' =) . 1/15 >6/ >12. 0*-6, 12. ' . ' **?' , 1 ' 6 / M. **' ; -06>) ' " ' ' NQSX% ' 62 ' 20*=*20*2, ' 620 ') ; ? 62 ' 1- 5 2 ') 6. ' D**2 ' 0 .>1+*-*0 ' 1-' 5A7=, 62 ' > ->; ? ^ > . 12 ' ,) *',) 1 ; 5) , ' 1 ' 2*>*. . , ' 6- . *. ' ,) 6, ' ,) *' .-6*/ , *. ' ? ; . ') 6+*') 60 ' , ' -1 ? ' ,) *' .6 ? *' .1 ; ->*. ' 6. ' ,) *' 26, 12. ' 6-1; 20 ' ,) *? ' 620 ' , ') 6. ' D**2 ' 0 .>; . . *0 ' M =*2>*-' ' ' ! ' # ! ' + ' A=% ' . % X ' 8) *,) *-',) * ' *+*2 ' D1--18*0 ' , ' -1 ? ' ,) *' 5 =, 62. % M<1+*-. ' ,) 29. ' > " ' ' N4K% ,) 6, ' ,) *' /6, , *-' D1--18*0 ' , ' -1 ? ' ,) *') 1*2 > 62. ' -*. , 25 ' 12 ' ,) *' ? ,) ' 1 ' 6, ; -2 ' 2% 62>) 12 6,) 1 ' @ ! = ' NS% ' ( ) *' 0*6 ') 6. 26, ; -6// ' 5+*2 ' ? ; >) 1 *2>*' T D ; , ' 2 ' , - ; ,) ' ,) *' _ ; *. , 12 ' 2+1/+*. ' 21 ' =*>; /^ 6-' 0 >; /, T , ' . ' 12/ ' 6 ' =6-, ' 1 ' 621,) *-' 6-' 8 0*-' 2^ _ ; - % , ' . ' 21, 1- 1 ; ' .) 6, ' ? 62 ' 1,) *-' 62> *2, ' 26, 12. ') 60 ' +6- 1 ; ' >*-*? 12 *. ' 620 ' 2. , ; , . 12. ' 2 ' >1? ? 12 ' 8 ,) ' ,) *' B*8 . ' 620 ' ,) 6, ' ,) *' : *D-*8 ' /68 ' . ' D ' 21 ' ?*62. ' 2 ' 6// =1 2, . ' 1- 5 26/% ( ) 6, ' .6>- >*' =-*C*L . , ^ *0 ' . ' 12 ' ,) *' . ; - 6>*' 1 ' ,) *' D/*') . , 1- % ( ) *' .6 ? *') 18*+*- ' . ' , -; *' 1 ' , *? =/*. ' , 6D*-26>/*. ' =- *. , . ' *+*-^ D ; -2 25 ' -*' 1-6>/*. ' *, >% ( ) *' 6>, ') 6. ' D**2 ' 1 , *2 ' 0*^ 21, *0 ' D ' .6 25 ' ,) 6, ' ,) *' B*8 .) ' 2. , , ; , 12. ' 6-*' 6 ' . *^ /*>, 12 ' -*+ . 12 ' 620 ' -*C*26>, ? *2, ' 1 ' 62 ' 1/0*-' =6, - ^ 6->) 6 ' -*/ 5 12% ,) *-', -*6, . *. ' 12 ' ,) *' 4*2, /*' 1-5 2 ' 1 ' > ->; ?> . 12 ' 6-*' D ' : 1 ? 622 ' M $1- ' X ' ; . ' MB*2% X ' U* D >) ' M4*-% X ' 2, 12 ' M =. % SQKX ->; ?> . 12 ' ,) *2 ' 6. ' =-6>, . *0 ' D ' ,) *' 4*2, /*. ' 86. ' . ? =/ ' 62 ' *L=*0 *2, ' , 1 ' =-1?1, *') *6/,) ' 6> / , 67 ' , 25 ' >/*62/ 2*. . ' 620 ' =-*+*2, 25 ' >*-, 6 2 ' =6 2 ; / 6 / >^ , 12. ' . ; >) ' 6. ' ,) 6, ' 1 ' ,) *' " ' %2 ' I %" =' 1 ' 1 ' 1-' . , - >, ; -*X ' 620 ' *. =*> 6// ' ,) *' 1-' 7 >6-D ; 2>/* J ' , 1 ' 8) >) ' , ') 1, ' >/ ?6, *. ' ? *2 ' 6-*' . ; D^ A*>, ' MB1. *=) ; . ' ' &% ! ' T *D ;) - ' ' ' N& ' =" ' >) % L LX ' 1-' 62 ' ; 2 ; . ; 6/ =-1/1256, 12 ' 1 ' ,) *' =6-, ' 2 ' J _ ; *. , 12 ' M) *+*21, ' ' QT ' : 6 _ ; *, ' 2 ' 1 5, . ' /! ' " ' + ' NT D ; , . ** 62[' 2 ' 6/0 25*-. ' /' & / 1 ' L + ' . _ %X% 2 ' .1 ' 6-' 6. ' , ' .*-+*0 ' ,) . ' *20 ' ,) *' -.6*/ , *. ') 60 ' 1 ' >1; -. *') *' D*2* , ' 1 ' , T D ; ' ,) 6, ' ,) . ' 1-? *0 ' ,) *' -*6.12 ' 620 ' 0*. 52 ' 1 ' , . ' 6==1 2, ^ ? *2, ' D ' 410 ' ,) 1 ; 5) ' 6. . *-, *0 ' D ' .1) *' ? *2 ' 1 ' /*6-2^ 25 ' 620 ' 6D / , ' . **? . ' ; , , *-/ ' ; 2, *26D/*T 1-' 2 ' ,) *' -. , ' =/6>*' ,) . ' 1= 2 12 ' . ' 8 ,) 1 ; ' ,) *' ./ 5) , *. , ' . ; ==1-' -1? ' >- =, ; -*T 1 , *2 ' 6. % ,) *' . ; DA*>, ' .7-* *--*0 ' , 1 ' ,) *-*' 8 *' 20 ' 21 ') 2, ' 6. ' , 1 ' ,) . ' D* 25 ' ,) *' = ; -=1. *' 1 ' ,) *' 1D. *-+62>*T KO/ ' ( ) . ') =1,) *. . ' . ' _ ; , *' 1=^ =1. *0 ' , 1 ' ,) *' 6>>1 ; 2, ' 5 +*2 ' D ' <1. *. ' 1 ' ,) *' 2, -10 ; >^ , 12 ' 1 ' ,) *' - , *' 6?125 ' ,) *' .-6*/ , *. T NO/ ' , ' . ' 6 . ; -0 ' , 1 ' . ; ==1. *' ,) 6, ' 6 ' ?*-*' =-1=) /6>, >' ; .65*' .) 1 ; /0 ' D ' 410 ' D*' */*+6, *0 ' , 1 ' ,) *' .1/*?2 , ' 1 ' 6 ' -*/ 5 1 ; ' 1-0 ^ 262>*' T ,) / ' &) 6, *+*-' 60+62, 65*.' 2 ' 6 ') 5 *2 >' -*^ .=*>, ' ? 5) , ' 6>>-, *' -1?' ,) *' =-6>, >*' ,) *. *' 8*-*' >12^ 2*0 ' , 1 ' 20 + 0 ; 6/. T >->; ?> . 12 ' . ' 21, ' 2*>*. .6- ' 1-') *6/,) ' , 1 ' ? *2 ' 5*2*-6// ' 2 ') 1, ' >/ ?6, *. ' M *D ;) - ' /1>% > , % X T 620 ' ,) *-* 1-*7, 1 ' 1D/ 5*' ,) *' 8) 1/*' ?6/*' >1? ? ; ^ 2 , ' , 1 ' ; 20*-51 ' ,) . ' =-1>*. . ' 2 ' 2 62> ' 1-' =; -=1. *. ' 1 ') *6/,) ' 81 ; /0 ') 6+*' D**2 ' , 1 ' 6>, ' 6. ' ; 28 . *' 6=6-, ' 6. ' , ') 60 ' D**2 ' *2A1 2*0 ' ,) 6, ' *+*- ' 12*' .) 1 ; /0 ' /1. *' 6 ' / ?D ' D*>6 ; . *' , ' 86. ' =1 .. D/*' ,) 6, ' .1?*' 12*' ? 5), ' >12, -6>, ' .*+*-*' 0 .*6. *' 2',) 6, ' / ?D ' '6//18*0 ' , 1 ' -*? 6 2T 620 ' ,) ' '> ->; ?> . 12 ' 86. ' 6 ' ?*-*') 5 *2 >' =-*>6 ; ^ , 12 ' 8) ' .) 1 ; /0 ' , ') 6+*' D**2 ' 6D1/ .) *0 ' D ') - . , 62^ , H ' 8) ' .) 1 ; /0 ' ,) *' 6=1. , /*. ') 6+*') *0 ' , ' , 1 ' D*' .1 ') 1. , /*' , 1 ') - . , 62 , ' H 620 ' 8) ' .) 1 ; /0 ' ,) *' 0 >; /, ' 1 ' D*>1? 25 ' 6 ') - . , 62 ') 6+*' D**2 ' 2>-*6. *0 ' D ' ,) *' =-1) D , 12 ' , 1 ' ,) 1. *' 8) 1 ' *? D-6>*0 ') - . , 62 , ' 1 ' 6 ' 2*>*. . 6- ' >120 , 12 ' 1 ' ,) * -' >) /0-*2 . ') *6/,) H' **') /1 ' ' ' ' 2 ' L%%! ' K ' . _ % T >9*-?622 ' 2 ' & * . * . ' ' ? + " ' M4*-6 ' Q X ' ' ' _ % T >) ; /[' 6 ! ' T ' /$ >) 6*/ . ' , ' ; ! ' LL ' ' . _ % T ; . , ' # ' ! ' " 1 ' + ' N T ' : 1 ?622 ' ' ' ' ' M =. % NRXT & 1/ .) * ?*-' ' ' ' ' # = ! M : 6/% KXT 15*/ ' ' ' ' ' ' M41, % SNX% <* 2*-. ' ' ' ! ' ' ' M 2 ' ,) *' I F ! $! ? ! L + ' K ' . _ % T 620 ') . ') ? "! ' ! ' ' N ._ % X % 2 ' ,) *' .; ==1. *0 ' , *20*2> ' 1 ' ,) *' >; . , 1 ? ' , 1 ' =-*+*2, *L>*.. +*' +*2>-' M< >) 6*/ . ' 2 ' *-,) 1/0, . ' D ! + ' N SX ' *. =*> 6// ' 1262 . ?' M ; L, 1- ' ! ' " ! >1/% K ' . _ % X ' . *** >) 2* ^ 0*-' 2 ' : *29* . ' . ' " ! <1 ' + ' KKN% 1-' 1,) *-' -*6.12. ' . ***) 1, ; ' 6% ! ' K % &) *2 ' -. ; ' 6==1 2, *0 ' D ' 410 ' > ->; ?> . 12 ' 86. ' *L^ =-*. . / ' . *, ' 1-,) ' 6. ' 6 , 19*2 ' 1 ' ,) *' >1+*262, ' 8) >) ' 410 ') 60 ' ?60*' 8 ,) ' D-6) 6?' 620 ' ,) *' 6=1. , /*' , *// . ' ; . ' ,) 6, ' D-6) 6?' -*>* +*0 ' ,) *' . 52 ' 1 ' >->; ?> . 12 ' 6. ' 6 ! .*6 / 1 ' ,) *' - 5) , *1 ; . 2*. . ' 1 ' ,) 6, ' 6 ,) ' 8) >) ') *') 60 ' D* 25 ' *, ' 22> ->; ?> . *0J M 1?% + ' XT .1 ' ,) 6, ' , 1 ' D-6^) 6?' , ' 86. ' 21, ' 12/ ' 6 . 52 ' 1-', 19*2 ' 1 ' 410 . ' >1+*262, ' 8.) ; ' 6/. 1 ' 62 ' 1D. 526, 12 ' 1-' >*-, >6, *' ,) 6, ') *' 86. ' 2 ' 6 ' . , 6, *' 1 ' 6>>*=, 62>*' D* 1-*') *' 86. ' > ->; ?> . *0% . ' 6 ' < 1.6 >' 2., , ; , 12 ' , ' 86. ' 6/. 1 ' ,) *' . 52 ' 1 ' ,) *' >1+*262, ' 8) >) ' 410 ' ?60*' 8 ,) ' .-6*/ ' 8) >) ' . ') *2>*' >6//*0 ' ,) *' >1+*262, ' 1 ' > ->; ?> . 127 ' M >, *' . ' + ' X % 2>12^ . *_ ; *2>*' 1 ' ,) . ' , ' D*>6?*',) *' ?*0 ; ?' 1 ' 6>>*. ' , 1 ' ,) *' =- + /*5*. ' 1 ' ,) *' >1+*262, ' 620 ' *2, 6 /*0 ' 12 ' 6// 8) 1 ' -*^ >* +*0 ' , ' 62 ' 1D/ 56, 12 ' , 1 ' ; / / ,) *' 0 ; , *. ' 8) >) ' ,) *' >1+*262, ' ?=1. *0 ' M 1?% ' K T ' T 46/% + ' NX% 2 ' 6 ' 81-0 ' , ' 86. ' ,) *' , 19*2 ' 8) >) ' 6. . ; -*0 ' , 1 ' D-6) 6?' I

620') .' 0*.>*2062,.' ,) *' =-1? .*' 1 ' ,) *' < *.. 6)' M4*2' L+ X' ,' 86.' ,) ; .' ?60*' 6' 2*>*. .6- ' >120 , 12' 1 ' B*8 .)' 26, 126/ , ' -> ; ?> . 12' .*-+*0' 6/.1' ,1' .*=^ 6-6, *' ,) *' =*1=/*' 1 ' ,) *' B*8 .' -1?' ,) *' -*.,' 1 ' ,) *' 26^ , 12. ' 6.' 6' =*1=/*' .*,' 6=6-,' ,1' 410' ( )*.*' 8*-*' ,.' ! ' .' -*.=*>,.' ,.' ! ' ,) 6,' 86.' . ?D1/ >6/' 620' ,) *' ,) 25.' 8) >)' ,' . ?D1/ [*0' 8*-*' ,81d ' 12^ .*>-6, 12' ' 4 10' 620 ' K' < *2,6/' 620' .= - ,; 6/' =; - ^ >6, 12' M L10' + ' KT' *+' L L ' KST' *; ,' L ' ST' LLL ' T' .6 ' / ' T' B*-' + ' T' + ' T' 1?' ' K CKRT' 1/' ' ' *,>' 1?=6-*') /1 ' UX' :' B12*.' @ ' ' '$ % 1' *>,; -*' + ' =' N X' ( ) *-*' 86.' ,) ; .' 2+1/+*0' ,) *' >12>*=,' 1 ' 1' 620' 6/125' 8 ,)' ,) .' ,) 6,' 1 ' -*>12> / 6, 12 ' 2' > ->; ?^ > . 12' T 620' ,' 86.' ,) *-*D '6.' 86/0' - 5) ,/ '-* ?6-9.' >& " ' =' R X ' 62' 1 *- 25' 1 ' ,) *' D10 ' ,1' B*) 1+6) ' 8) >) ' 6>>1-0 25' ,1' ,) *' ,-; *' ? *62 25' 1 '6// ,) *' 1 *-^ 25. ' 6.' ; // '0*+*/1=*0' 620' -6 .*0' ,1' ,) * -' ,-; *' */*+6^ , 12' D ' ,) *' =-1=) *,. ') 60' ,1' D*' =-*. *2,*0' ,1') ?' 6.' 62' 1 *- 25' 1 ' ,) *' .1 ; /' 2A!7 6.' ,) .' 22*-' 1 *- 25' 86.' =*- *>,/ '=-*. *2,*0' >1 ; /0' ,) *' 1D/ 56, 12' ,1' D*' 6' =- *. ,^ / ' 9 25012720' 6') 1/ ' =*1=/*' D*' ; / //*0J' M 6) 25*-' 2' (1/ / =6 " ' ' X% ' ,,1 ' .' +% 2' ,) .' .; DA*>,' 2' 5*2*-6/ ' .**' =*2>*-' 3 ' ' 6 ! ' 1' ' T' < >)6*/ .' ' ' " ' (' ' ' ' QCRNT' & ,. ; . ' ' '@ ' D9' + ' ' T' 19*+ , [' ' ' Y ' D ' M , *?D' 4RCQ XT' ?**, . ' ' ' '&" " ' =' ' ' M -62>*' SR XT' *-5.12 ' ; " ' ' % 1+*262, ' 8)1.*' > ->; ?> . 12' 86.' 1 ' ,) *') *6-, T' 2' + *(" ' + ! ' ! ' ! $ % #' M *-/ 2 ' Q XT' ,) *' .= - , ' 620' 21, ' 2' ,) *' /*, , *-T 8)1.*' =-6 .*' .' 21, ' -*.>)*-' ' ' ; " ' ' ' ' !' % + "= % ' ! ' $ ' M *226 ' Q XT' 1' ?*2 ' D ; ' 1 ' 410J' M 1?' ' KQ' KRX' -1 / 56> ' 2' : * ?622 ' ' ' ; " ' % " ! ' ; ' ,) *' 26, 126/' 51+*-2?*2, ' ,) 1 ; 5) ' , ' ? 5) ; D- 25' 6 / >^ 0*D' Q XT' <' 4' 6/1?12 ' ' ' ; " ' " ! ' ! ' , 12. ' >1 ; /0' 21, ' 2 ; // ' ,) *' .= -/,26/' /68 ' 1-' ?69*' +1 0' " ' " " ' M -6 ; 2.>) 8' Q XT' ' 6/1?12 ' 6-*' 1 ' .-6*/J' M 1?' L ' X' ( ) *' 20=,-1X ; FX') %@ 4' " ' " ' ; " ' M : 6 ? D' QNQXT' >) ? 0 .' - % - T @@ ' " ' ' % ! ' &6. *0' 1 ' <6 ?12 0*. ' ,-6>, ' M ,-6. D' SS ' XT ,) *2 ' 6.E ,' .' 218 ' ,) *' 12/ ' ? *62. ' 1 ' ; 2 12' 8 ,) ' ,) *' &1/ *-. ' ' ' ; " ' 'D ' M 6? 1-0' QN X' < *.. 6) T 620 ' -*56-0 25' ,) *' 26, 12 ' ,) *-* 2' & ,' D-6^ ' ' N ' $ * ' ' ( ) *' 6,, ; 0*')6? .' .**0' 62' % ! 8) >) ')- ., 62 , ' 6,' ,.' 2,-10 ; >, 12 ' 6.. ; ? *0' ,1^ N' ( ) *' ? 62 *.,' 1,) ' 6-*' 2 , 6, 12.' 2,1' 86-0.' > ->; ?> . 12' 86.' 12*' 1 ' 6D. 1/ ; ,*') . / , ' .1' 6=*>; / 6-' -*/ 5 1 ; .' =- + /*5*.' 620' ? ? ; 2 , *. ' ,) *' *?^ 6.' ,) *' 2*>*. . , ' 1 ' ,) *' - ,*' ,1' .6/+6, 12 ' 1-' ,.' =1. .*. . 12' D/*?.' 1 ' 286-0' >/*62. 25 ' ,) *' . 52.' 620' .*6/.' 1 '>12^ 1 ' 62 ' -*/ 5 1 ; .' 1-' ?1-6/ 81-,)' 8*-*' >12>*-2*0' M >, .' .*>-6, 12' ,1' 620' 6 ,) ' 2' ,) *' 410' 1 ' D-6) 6?' 6=^ d T 46/ H+' KX' ; ' 8) /*' ,) *' 6=1. ,/*.' -*.1/ ; ,*/ ' ? 1-D60*' ,.' ?=1. , 12' D ' 6 ; ,) 1 - , ' 12' ,) *' 4*2, /*. ' , . ?' 1//18.' 620' . ; >>**0.' ,1' ,) *' 62> *2, ' - , *' 21, ' D*^ ,) * ' ?60*' 21' 1DA*>, 12' ,1' , .' =-6>, >*' 6.' 6' ?*-*' ?6, ^ >6; , *' 1 ' *L, *-26/' / 9*2*. .' D ; , ' 12' 6>>1 ; 2, ' 1 ' 0*2^ , *-' 1 ' **/ 25' 1-' *L=*0 *2> ' 6 ; / ' 8)1' 81 ; /0' D ' 21' , , ' 1 ' 1 >*.' 620' ?=1-, ' 2' .*6/ 25' 620' ?65 25',) *' ?*62.' >12.*2, ' ,1' ,) *' 0*?620' 1-' (, ; . ' 8)1' 86.' 6' .6?*' .= - , ; 6/' ,- ; ,) .' 1-' ,) *' .6+ 25' *>121? ' 1 ' B*^ 4-**9 ' ,1' D*' > ->; ?> . *0' M46/' ' NC X ' 12' 621,) *-' 1>^)1+6) ') 6.' D**2' ,) *' -1?' ,) *' D*5 22 25T 12/ ' >6. 12') 60' (?1,) ' > ->; ?> . *0' ,1' >12> / 6, *' ,) *' B*8 . ' ,) *' 2 . ,- ; ?*2, . ' ; -2 , ; -*' ' 620' *L, *-26/' 6==/ 62>*7' 620' ,) 6, ') *' ? 5) , ' =-*6>) ' ,1' ,) *?' 8 ,) ' ?1-*' * *>, ' 6. ') 6+*' ; 20*-512*' >) 625*' ( ) *' U 12' 1 ' ,) *' 1/0' . ' ,) *' D* 25' 12*' 1 ' ,) * ?. */+*. ' M >, . L+ ' NX' ( ) ' D .. 2^ U 12' 1 ' ,) *' 2*8/ C6--625*0') ; ->) T ' ,) *' E 8 ' 62')- ., 62. ' ., // =-6>, >*' > ->; ?> . 12' 6.' 6' 26, 126/') 6.' 12/ ' D *2' = ; -5*0 ' ,.' 6-*26' *2/6-5*0 ' 620' ,) *' ?6^ >; ,1 ?' M.** 4 DD12 ' ' ' @ ' ' *0 , 12' >) 2*- ' 1 ' ,) *' 56-2*- 25' =-1>*. . ' >) 625*0' -1?' . =*^ +' S X' 2' 6>>1-062>*' 8 ,) ' ,) *' .= - , ' 1 ')- ., 62 , A 7 > >' , 1' 6' 5*2*-6/1DA*>, ' -1?' ,) *' 26, 126/' , 1' ,) *' >1.0' ,) 1.*' 8) 1' 6.>- D*0' * >6> ' , 1' ,) *' ?*-*' 1 ; , 86-0' - , *' ? >6/' ( ) *' = 1 ; .' =6, - 6->) ' 86.' 6')- ., 62' 2' *+*- ^ 6-*' .=19*2' 1 ' 2' ,) *' ' (' 6/?1.' 8 ,) ' >12, *?=; 6.' !,) *' ,) 25' D ; , ' 26?*' 620' *L, *2, ' 1 ' =- + /*5*' / 5 D/*' / 125 ^ >12> . 12' 1-' `6?=; , 6, 12' I 1 ') - % 8 8(' 8) /*' ; ;) *' 1 ' ,) *' 6, 12*?*2, ' .' 1-' 6// , ?*' 620' ,) *' *L . ,) *' >/6 ?' , 1' D*' ,) *' , -; *' > ->; ?> . 12' .' + 20 >6, *0' 1-' *2>*' 1 ' ,) *' D/*..*0T ' ,' /6, ; , 0*' ,) *' D-*60,) ' 1 ' ,) *' -6>*')- ., 62.' ,) *?.*/+*.' M) / ' 'K NX' 2' *,) >6/' 0*6' ( ) *' >) 625*' 1 ' ,) *' . ?D1/ >' .*6/ 606=, .' ,' , 1' 7' 8 0*-' .' 6,, 6>) *0' , 1' > ->; ?> . 12' 2' ,) *' ' (% ' 8) *-*' ; 2> -^ .=) *-*' *, ' , .' 12/ ' 2' ,) *' + . D/*' 1-?' 21, ' 2' ,) *' >; ?> . *0' / =.' M L10' + ' K' N X' 1-' *6-.' MB*-' + ' X' 1-' . ; D . , 62>*T ' , D*>1?*. ' 6' 2*8' 620' ?1-*' */ 5 D/*' / 9*^) *6-, .' M *+' LL + ' X' 6-*' .=19*2' 1 ' 1' 1' * ,) *-' .,6?^ 2*..' 1 ' ,) *' .6?*' ,) 25.' ' ->; ?> . 12' 620' D6=, . ?' ?*-25' 1-' 0 ; // ' >/1.*0' 6.' ,' 8*-*' 8 ,) ' 6' 1-*.9 2' 1-' >1--*.=120' 2' ?*62 25' ( ) *' D1,) ' -*/6, *' , 1' ,) *' -*^ -6,) *-' -*D*// 1 ; .' 620' ; 2) 1/ ' M *; ,' LLL ' T' B*-' + 2*86/ 1' ,) *') *6-, J' M 6-.12' =' NS X' ,' 86.' 6' ?6-9' X' D*>6 ; .*' > ->; ?> . 12' 86.' ,) *' . ?D1/ 1 ' =; - , ' M .*** 1 ' 0 . , 2>, 12' ?60*' ; =12' ,) 1.*' *2, *- 25' 2, 1' >1+*262, ' .6/+ 11' 1-' 0 ; // ' >/1.*0' 6.' ,' 8*-*' 8 ,) ' 6' 1-*.9 2' 1-' 8 ,) ' 410' 1-' 81-.) =' 620' .6/+6, 12' >62' AaP6=, . ?' D*' KRXJ' M ? ,) ' .' +% X% * ,) *-' /*. .' 1-' ? 1-*' H 1?=6-*' 20-*8' ; //*-' ! ' 5 ' ' ' '

,*2. , ' ,)*-*' .' 2' ,)*' 81-0.' 'D;- *0' 8 ,)') ? J' ,' 81;/0'D*' .*,'6. 0*% ->; ?> . 12 ' 2' ,.'=-1=*-' .=)*-*' 86.' 12/ ' ,)*' * 1-,' 1 ',)*' 6=1.,/*',1' .)18')18' IID6=^ , .?' 2,1')- .,J' 86.' / 9*' > ->; ?> . 12' ' ,' '=;,' 1 ' ,)*' D10 ' 1 ',)*' . 2.' 1 ',)*' 0*.)%J' : 60' .;>)' 21,' D**2' ,)*' .>- =,;-6/ ?*62 25' 1 ' > -ZH;?> . 12' 6;/ 81;/0' 2*+*-')6+*' ,) ;.' -*6.12*0% &)6,' D*,,*-' ,*., ?12 ' >1;/0' D* 0*. -*0' ,1'=-1+*' ,)*' -*/6, 12' 1 ',)*', 81' -,*. ' 620',)6,',)*' 12*')60' .;>>**0*0',)*' 1,)*-'H DA*>, 12.' -1?' 6' 862,' 1 ' *L,*-26/ 65-**?*2,' 1-' > ->; ?.,62>*.' 1 '60? 2 .,-6, 12' >62' D*' 1 '21' 1->*% ()*' 4-**9' (c=C - , *',)*' 6, 2' '6-*' *, ?1/15 >1/ =6- , *.' D;',,)* '6-*' 2* ,)*-' 1 ',)*?' 626/15 >6/ 1-?.' 8 ,)',)*' : *D% *?=/1 *0'6.'6' " ' 2' 4*2% L+ % *,',)*' 0*6' 1 ',)*' - ,*' .' =*-)6=. ' 6.' =*- *>,' ;20*-' ,)*')*C' ? , >' 6.' ;20*-',)*' ;-1=*62' 1-?% % ()*' *8-/ '*>>/*. 6., >6/ 8-,*-.' ;2 +*-.6//+')*/0' ,)*' + *8.')*-*' 5 +*2% ()*' -' 01>,- 2*' ?60*' 0*=*20^ *2,' 12' B1)2' ' ',)6,' $ - ') ' V F(1>' % ' ' ' " '$% 1' 86.' *_; +6/*2,' ,1' + f ') '-- % 1' % ' D ' 86,*-' 620',)*' = - , ' >6; .*0',)*?' ,1' .=*69' 1 ' D6=^ , .?' 6.' 8 --6% - %8 6 %)8 ' % ' 1' D*>6; .*',)*' = - ,' '6/86 .' A1 2*0' 8 ,)',)*' 86,*-' 2' ,)*' D6=, . ?' 1 ' 62' 2 62, ' 1-' 6' >12+*-,*0 ' D*/ *+ 25' 60;/,% % 2' B; . , 2' < 6-, -' D6=, . ?' .' +*- ' -*_; *2,/ ' 6/^ /;0*0',1' 6.' ,)*' ,-; *' > ->; ?> . 12 J' 1 ' 8)>)',)*' 62^ > *2,' - ,*' 86.' 6', =*' M =1/% 'S T 6/% >% (-A7=)1% X% ' ? ' ' '.'' ' " ' "' " ' '% 1' ' '.' ' "' " ' P' >) A' ' % '-1;-1' d1;-=1 V 1 1 *' ' 4*1 ' -6' ((C % - N6 $ ' ' E fg 8G '- % - ,% * 8 M 6/% >% (-A7=)1% g QX% : *'.6 .',)6,')- ., 62.' ')60' 21,'-*>* +*0',)*' /*.)/ ' > ->; ?> . 12' D;,' ,)*' .= - ,;6/ 12*' 8)>)' 21>)' 620',)1.*' / 9*') ?' ?60*' ;.*' 1 T 620' 8*' -*^ >* +*0', T - ' 1 - -% - ' " "' % P' *,>% I f g NT' >1?=% g RX% 2' g KR' 1 ',) .' 0 6/15;*')*' .=*69.' 1 '> ->; ?> . 12' ;20*-',)*' /68' 6.' D6=, . ?% : *' .6A H' &)6,' 2**0')6+*' ' 1-' > ->; ?> . 12' 8)1')6+7' ,)*', .*., ?12 ' 1 ' 410' 2' ? ' 6+1-HJ' I - ') =' ' -, N' *1 - - % %' ' A V 6(--,6C W* 77=TX &)6,' 2**0')6+*' ' 1 ' D6=, . ?J' M> ->; ?> ^ . 12X' 8)1')6+*' D**2' D6=, [*0' 8 ,)',)*' : 1/A 4)1.,'HJ' () .' ? ;.,' D*' *.,** ?*0' 6.' 6' -*?6-96D/*' 0*2, >6, 12' 1 ',)*', 81' -,*. ' 1-' 8> .)1;/0' 21,' 1-5*,' ,)6,' 6.',)*' 1-0 262>*' 1 ' D6=, . ?' 86.',1' B; . , 2' ',)*' 86,*-' 1 '/ *J' M 6/% >% (- =)1% g X' .1',1' -*>* +*' ,' 86.',1' D*' D6=^ , [*0' 8 ,)',)*' :1/E7 4)1.,% -1?',)*' .6?*' =1 2,' 1 ' + *8' 6. /6.9.'>*-,6 2'12*.' 8)1'0*/6ALO' D6=, . ?' ' 1' 1;' = ;,' 1 ',)*' ES ' ' " ' " ' ' =1 (1 FX-TA+' - % - %>8 ' 2' = ;,, 25' 1 ' ,)*' /*.)' " "' ' % ' ' " % N' I ' %' 1 =) - % ' O =' % 3H* (8 ', ! " ' '; %2',% ' *O% *2% M 6-% K X% =- 62' 620') .' >1;2> /' =% L + ' 60' O%')*/0' 2',)*' D6=, . ?' 1 ' 2 62,.' ,)6,',)*' 626/15 ',)*2' 1//18*0' 1 ' 62> *2,' > ->; ?> . 12' .)1;/0' 21,' D*' D 20 25' M *>' .= -C ,6/*?' > ->; ?> . 12*?' ?=*0 -' >6-26/' > ->; ?> . 121' 0*D*-1X& 1-'1;5),',)*' .= - ,;6/' > ->; ?> . 12J' MD6=^ , .?X ,1' D*') 20*-*0' D ',)*' >6-26/' > ->; ?> . 12%J' 2',)*' =- 2> =/*',)6,')- .,' 86.',)*' -*6/' D6=, . ?' 2' ,)*')- ., 62' - ,*' (*-,;// 62' >6//.')- .,' 7 ' ' (' ' ,)*' + $ ' 1',)*' 2*8' > ->; ?^ > . 12J' I !' D !' N' T' >1?=% ?D-1.*' / D% ' *' &" ' '>% T -*2 *;.' # '/ D% +' N X% ,' -*?6 2.',1' D*' 1D.*-+*0' D- * / ',)6,',)*' 1D*>^ , 12',1' > ->; ?> . 12' M >,.' L +T 46/% +' KX 86.' 21,',1' ,)*' -,*' ,7/ ' 8)>)' 86.' 6' .*6/' 1 ',)*' >1+*262,' 1 ' =-1? .*' 21,' 1 '/68 ' 620' ? ;.,' .,620',// 6D-156,*0' D ' ,)*' =*- *>, 12' 1 ',)*' .**0' 2')- .,' 620' 6' 2*8' . ?D1/ D*' 601=,*0' 2' ,.' .,*60% .',)*% 1DA*>,.' 1 ',)*' >1+*^ 262,' 8*-*',1' D*' 6,,6 2*0' 21DD '.*? 26/ =-1=656, 12' D;',"' ?1-6/ 620' .= - ,;6/ ?*62.' 6?125' 6// 26, 12.' ,' 86.' ,, 25',)6,',)*' .*6/ .)1;/0' >1--*.=120',1',)*.*' 2' ,.' ?=1-,% ()*')1.,/ , J' ,)*-* 1-*' 86.' 21,',1' > ->; ?> . 12' D;',1',)*' >/6 ?' 1 '.6/+6, 12',)-1;5)',)*' 9**= 25' 1 ',),% /68' 8)>)' ,' *2A1 2*O% 2',)') . ')- ., % ' U 81;/0'D*' .*,'6. 0*% ->; ?> . 12' 2' ,.'=-1=*-' .=)*-*' 86.' 21,' 81-,)/*.. J' 1-' ,' 2*+*-')60' D**2' ,)*' .*6/ 1 ',)*' - 5),*1;.2*..' 1 ' 6 ,) J' ()*' 62> *2,' . ?D1/ 86.' 5-60;6// ',1' ?*/,' 686 ' 2' ,)*' 6 *>, 12.' 1 ',)*' B*8 '620' D ' 6' 8 .*' ?10*-6, 12',)*' 6=1../*.' .68' ,'6>^ >1?=/ .)*0% **'12'B) .' .;DA*>, '& 6-0/68 ' ' ! ' " ' $ % '& " ' ' ; % 1' =' KRCN T' : DD6-0' " ' ; % 1' =% S CSN' 120' , ' ; % 1' =% QKC' Q T >*' , ' ; % ' ' 1' >)' T 6 -D6 -2 .' - % ' '$ % 1' K CK T 8 5), ' -" ' *-?%>L/+ T & 6,.12 V2.7 c,*. 'S SCSKS' &*./*fW + ' % % *0% + T ;>)6262' , ' D ' 0C' 2D% QS ' =% SQC N% $ < ' ' ' ' 6' *., +6/*>*/*D-6,*0' 2',)*' 1?62' 620' 25/ .)' >);->)*.' 12' ,)*' .' 1 'B62;6 ' 2' >1?*?1-6T, 12' 1 ',)*' > ->; ?> . 12' 1 ')- .,% ,*-',)*' 2,-10;>, 12' 1 ',)*' *., +6/' 1 ')- .,?6.' ,)*' .,' 1 ' B62;6- ' 86.' 0 .,25;.)*0' 6.' ' ' ' ' ',)*' 1>,6+*' 1 ',)*' 26, + ,EW 6.')- .,' 86.' > ->; ?> . *0' 12',=*' * 5),)' 06 % ' -.' ,' 86.' 1D.*-+*0'-6,)*-' 6.' 6' 06 '1 ')';?/ 6, 12',)62' 1 ' *6., 25T 620',) .' 86.' 0*. 52*0',1' ?6-9',)*' 0 *-*2>*' D*,8**2',)*' ?622*-.' 1 ')- ., 62.' 620' /1.*' 1 ',)*')*6,)*2' 8)1' >*/*D-6,*0',)*' 96/*20.' 1 'B62;6- '6.',)1' >) *' 06A' 1 ',)*-' .6,;-26/ 6' 8 ,)' 5-*6,' / >*2, 1;.^ 2*..J' M 6--6-' .% +%X% ()*' *., +6/ 1- 5 26,*0' =-1D6C' D)W 2',)*' ,)' >*2,;-A% ' ' *5*/' # " "' !' + "=' "= " 2 " ' & " ' ' K ' 620' -* *-*2>*.' ,)*-* ' .' M >' % -% >X',)*' 4-6.> [*0' 1-?' M >,.' L K X 1',)*' 26?*' 1 ' .;' M_% +%X',)*' 6,)*-' 1 '9 25' 6;/% .6 ' M-6,)*-' ') 1' 621,)*-' 4-6*> [*0' 1-?' M .,)% L ' KX 1',)*' 26?*' 1 ' .2' M_% +%X',)*' 5-*6,C5-620 6,)*-' 1 ' <1-0*>6 ' M .,)% ' X% ./*;% ** ' $ .2*-1.% ** 7 ! .,*-> 62.' M1-' 3 ' 62' 1-0*-' 1 ' ?129.' 1;20*0' 2',)*' *6-' RQ D ' 1D*-,' 6' *2*0>,*2' 620' 6DD1,' 1 ' <1/ ?*' 2' ;-5;20 % 20 25',' ?^ =1.. D/*',1' =-*.*-+*' 0 .> =/ 2*' 2') .' >12+*2,')*' -*^ ,-*0' 8 ,)',8*2,E!' 1 ') .' D*.,' ?129.' ,1' ,*6;L' 2' ,)*' 0 1>*.*' 1 ')6/12.' 8)*-*')*' /6 0',)*' 1;206, 12.' 1 ',)*' 6?1;.' 1-0*-' 26?*0' -1?' ,)*' =/6>*% 1D*-,' D* 25' 1-0*-*0' D ',)*' =1=*',1' -*.;?*',)*' 51+*-2?*2,' 1 ',)*' 6DD* '1 ' <1/*?*' 86.' ,:>>**0*0' 2',)6,'1 ' C ,*6;L' /D*- >' 620' =1=*' 6.>)6/' D '6' D;// 1 ' ,)*' A07*6-' ,119' ,*6;L' ;20*-' D .' =-1,*>, 12% /^ D*- >' 0-*8' ;=',)*' -.,' .,6,;,*.' 1-',)*' ?129.' 1 ' ^ ,*6;L' 1-' .,*-> 62.' 2' 8)>)')*' *2A1 2*0' 6' .,- >,' 1D.*-+62>*' 1 ',)*' -;/*.' 1 ',% *2*0 >,% ()*')6D ,' 1 ' ,)*' 1-0*-' 86.' 6' 8),*' -1D*' 2',)*' 1-?' 1 '6' >6..1>9' ' ,' 86.' 6,' -.,' D/6>9' D;',)*' =-*,*20',)6,',)*')>/A17 -5 2' 6==*6- 25',1' /D*- >'56+*')?'6'8),*')6D ,' 620' -1?',)., ?*',)*' >)625*0',)*' D/6>9' 1-' 8),*' -*,6 2 25',)*' D/6>9' .>6=;/6-' 620')110& ,)*-'56-?*2,' 86.'5 -,' 8 ,)'6'D/6>9'5 -0/*' 1 '811/& 2',)*' >)1 -',)*')60' 6' 8),*' #8/' 620' 1+*-' ,' 6')110' 8 ,)' 6' -1>)*,')625 25' 0182' D* 1-*',1',)*' 86 .,' 620' 2' 6' =1 2,' D*^) 20',1',)*' >6/ '1 ',)*' /*5% 2' ?*?1-' 1 ',)*' >)625*' 1 ')6D ,' 6' *., +6/' 86.' 1D.* I+*0' 12',)*' ,)' 1' ;5;.,' >6//*0' ()*' 0*.>*2,' 1 ',)*' D/*..*0' -5 2' 6',*6;L' 620',)*' ? -6>;/1;.' >)625 25' -1?' D/6>9',1' 8),*%J' ()*' 1-0*-' ?60*' .;-=- . 25'=-15-*..% ' -1?',)1'+*- ' -.,' ,)*' .,*-> 62.' 8*-*',)*' .=1 /*0' >) /0-*2' 1 ',)*' 6=1.,1/>' .**' 620' *+*- '>12>* +6D/*'=- + /*5*' 620' *L^ *?=, 12' 86.')*6=*0' ;=12' ,)*?J' I " '5 9 'B;/ ' QS '=% X% D1;' KQ',)*' -.,' .,*-^ > 62' 6DD* ' 2' 25/620' 86.' 1;20*0' D ' 4 6-0' D .)1=' 1 '& 2>)*.,*-' 6,' &6+*-/* ' ;--* % ()*' -' 01>-' .=-*60' 2' 25/620' -6= 0/AJ' 620' 6>>;?;/6,*0' +6.,' *.,6,*.% 5), C +*' 6DD* .' 2' +6- 14.' =6-,.' 1 ' 25/620' 182*0' ,)1' ?6,*-2 , ' * ,)*-' 17 ,*6;L' 1-' /6 -+6;L% ' *6-.' 6 ,*-',.' 2., ,;, 12',)*' 1-0*-')60' +*');20-*0' 6DD*E .' 620' 12*');' 86.' 21,',1' ,*-' ,'D16.,*0' 1 '12*' ,)1;.620' * 5),');20-*0' 6DD1 7.' ?1.,' 1 ' 8)>)')60' D**2' /+;2000' D1 1->' ,)*' 7*6-' %

The government of the order was in the hands of twenty-five *definitores*, the first of whom was the abbot of Citeaux, who, as abbot general, was the head of the whole order. Next to him in dignity were the abbots La Ferté, Pontigny, Clairvaux, and Morimond, the four oldest convents after Citeaux. The abbot of Citeaux appointed four other *definitores*. The abbots of La Ferté, Pontigny, Clairvaux, and Morimond nominated together twenty (five each), four of whom, i. e. one of each nomination, were rejected by the abbot general. The legislative assembly, called the General Chapter, met originally annually. They did not settle in any diocese before the bishop had accepted the Charta Charitatis, the fundamental law of the order, which had been given in 1119 by abbot Stephen of Citeaux. In 1143 the king of Portugal imposed upon his whole kingdom the duties of vassalage towards the abbey of Clairvaux, so that (in 1578) claims were laid by the latter to all Portugal. The decay of the Cistercians began with the rise of the mendicant orders. Their history consists mostly in efforts of popes and some abbots to stay the flood of corruption which early overflowed the whole order. These efforts were usually unsuccessful, but led to the establishment of a number of reformed congregations, which received from the popes the privilege of an independent organization. The most important are those founded in Spain in 1469, in Tuscany in 1497, and that founded by pope Urban VIII in 1630. The present number of abbeys is very limited. There were in 1843 16 abbeys, with 499 members, in Austria; 9 in Italy, several of which have since been suppressed by the Sardinian government; 3 in Switzerland, of which one has since been suppressed; 1 in Belgium; and 1 in Poland. Since then they have re-established themselves also in England, at St. Susan's, Lullworth, and Mount St. Bernard, in Leicestershire. Several other monastic organizations owe their origin directly or indirectly to the Cistercians. The Templars received their rule from St. Bernard of Clairvaux. The Spanish knights of Calatrava, Alcantara, and Montesa, and the Portuguese of Avis and Christ, were affiliated to the Cistercians. The Feuillants took their origin in 1574 in the reformed Cistercian abbey of Feuillans, near Toulouse. The austerest congregation that sprung from them are the Trappists, founded in 1662. See Fehr, *Geschichte der Mönchsorden*, i, 90 sq.; *A concise History of the Cistercian Order* (London, 1852, sm. 8vo); Maillard, *Dark Ages*, p. 358; Luard, *Annales Monastici*, vols. i, ii (Lond. 1864, 1865); *Christian Remembrancer*, July, 1867, art. i. See TRAPPISTS.

CISTERCIAN NUNS (*Bernardines*), a religious order founded in 1120 by abbot Stephen of Citeaux for the convent of Tarb. They followed the rule of Citeaux under the superintendence of the abbot general of the Cistercians. Later, they were frequently subjected to the jurisdiction of the bishops. Their habit was white, with a black veil, scapular, and girdle. They gradually amassed immense riches, and numbered as many as 6000 convents. In Germany some of the abbesses were raised to the dignity of princesses of the empire, and remained so until 1803. Among all their convents, that of *Port Royal* (q. v.), in France, became the most celebrated. Only a few convents are left, viz. in Switzerland (which has now by far the largest number), in Italy, Bavaria, Saxony, and France. See TRAPPISTS.

Cistercian Monk and Nun.

Cistern (בּאֵר or בּוֹר, *bor'*, from בָּאַר, to *dig* or *bore*, Gesenius, *Thes. Heb.* p. 176; Sept. usually λάκκος; Vulg. *cisterna* or *lacus*; A. V. generally "pool"), a receptacle for water, either conducted from an external spring, or proceeding from rain-fall (Jer. ii, 13; Prov. v, 15; Eccles. xii, 6; Jer. xxxvi, 16; a *pit*, as often rendered; the mod. Arab. *birkeh*). Thus the cistern is essentially distinguished from the living spring עַיִן, *a'yin*; but from the well בְּאֵר, *beër'*, only in the fact that *beër* is almost always used to denote a place ordinarily containing water rising on the spot, while בּוֹר, *bor*, is often used for a dry pit, or one that may be left dry at pleasure (Stanley, *Palest.* p. 512, 514). See AIN. But the pit into which Joseph was cast by his brethren (Gen. xxxvii, 24) was a *beër* or dry well (Thomson, *Land and Book*, i, 442).

The dryness of the summer months between May and September in Syria, and the scarcity of springs in many parts of the country, make it necessary to collect in reservoirs and cisterns the rain-water, of which an abundance falls in the intermediate period (Shaw, *Travels*, p. 335; Jerome, quoted by Harmer, i, 148; Robinson, ii, 98; Kitto, *Phys. Geogr. of Palest.* p. 302, 303). See WELL. Hence the frequent mention of cisterns in Scripture, and more especially of those which are found in the open country. These were, it seems, the property of those by whom they were formed (Num. xxi, 22). They are usually little more than large pits (see Eccles. i, 3), but sometimes take the character of extensive subterraneous vaults, open only by a small mouth, like that of a well. They are filled with rain-water, and (where the climate allows) with snow during winter, and are then closed at the mouth with large flat stones, over which sand is spread in such a way as to prevent their being easily discovered (comp. the "sealed fountain" of Cant. iv, 12). If by any chance the waters which the shepherd has thus treasured up are lost by means of an earthquake or some other casualty, or are stolen, both he and his flocks are exposed to great and imminent danger, as are also travellers who hasten to a cistern and find its waters gone (comp. Judith vii, 21). For this reason a failure of water is used as the image of any great calamity (Isa. xli, 17, 18; xliv, 3). There is usually a large deposit of mud at the bottom of these cisterns, so that he who falls into them, even when they are without water, is liable to perish miserably (Gen. xxxvii, 22 sq.; Jer. xxxviii, 6; Lam. iii, 53; Psa. xl, 2; lxix, 15). In cities the cisterns were works of much labor, for they were either hewn in the rocks or surrounded with subterraneous walls, and lined with a fine incrustation. See BETHESDA. The system which in this respect formerly prevailed in Palestine is doubtless the same that exists at present; and indeed there is every probability that most of the cisterns now in use were constructed in very ancient times. Dr. Robinson assures us that "the main dependence of Jerusalem at the present day is on its cisterns; and this has probably always been the case" (*Researches*, i, 480). Both large and small cisterns are frequent throughout the whole of Syria and Palæ-

,,2*# 620' 1-' ,)1' >12.,-;>, 12' 1 ',)*?',)*' -1>9 ' 26^ ,';-*' 1 ',)*' 5-1;20' 6 1-0.' =*>;/ 6-' 6> / , *.' * ,)*-' 2' 1- 5 26/ *L>6+6, 12.' 1-' D '*2/6-5*?*2,' 1 '26,,;-6/ >6+ , *.# -' 1D 2712' -*?6-9.',)6,',)*' 2)6D ,62,.' 1 '6//',)*') //>1;2,- ' ['B;06)' 620' *2A6? 2' 6->' 2' ,)*')6D ,' 1 '>1//*>, 25' 86,*-' 0;- 25',)*' -6 2 '.*6.12' 2',629.'620'> .,*-2.' 2',)*' > , *.' 620'0*/0.' 620'6/125' ,)*') 5)' -160.' 1-',)*' .;.,*262>*' 1 ',)*?.*/+*.' 620' ,)*-' /1>9.' 620' 1-',)*' >1? 1-,'1',)*' =6.. 25',-6+*/^ /*-# < 62 ' 1 ',)*.*' 6 -* 1D+ 1;./ ' 62, _;*' 620'*L .,' 6/125' 62>* *2,' -160.' 218' 0*.*-,*O# 2' ,)/125C 1-C' 51,,*2' 86 ' -1?'B*- >)1',1' *.,)*/ D-19*2' > .,*-2.J' 1 ') 5)' 62, _; , '6-*' 1;20' 6,'-*5;/6-' 2,*-+6/.# B*^ -;.6/*? '0*.>- D*0' D ' ,-6D1' 6.' 8*// .;==/ *0' 8 ,)' 86,*-' 2' 6' 0- ' 2* 5)D1-)110' ML+ ' S X' 0*=*20.' ?6 2/ ' 1-',) .' ;=12' ,.' > .,*-2.' 1 '8) >)' 6/?1.,'*+^ *- ' =- +6,*')1;.*' =1..*..*.' 12*' 1-' ?1-*' *L>6+6,*0' 2',)*' -1>9' 12' 8) >)',)*' > , ' .fX; / >#' ()*' 1//18 25' 6-*',)*' 0 ?*2. 12.' 1 ' 1;-' D*/125 25',1',)*')1;.*' 2' 8) >)' -# #-*. 0*0A ' 'd Q d K' **,'0**=' K' Q d L T' N' L d N T' N LN LK #' ()*' > .,*-2.')6+*' ;.;6// ' 6' -1;20' 1=*2 25' 6,',)*' ,1=' .1?*, ?*.' D; /,' ;=' 8 ,)' .,12*C81-9' 6D1+*' 620' ;-2 .)*0' 8 ,)' 6' >;-D' 620' 6' 8)**/ 1-',)*' D;>9*',M >>/# L ' 4X' .1',)6,' ,)* ')6+*'*L,*-26// ' ? ;>)',)*'6==*6-62>*' 1 '62' 1-0 ^ 26- ' 8*//# ()*' 86,*-' .' >120;>,*0' 2,1',)*?' -1?' ,)*' -11 .' 1 ',)*')1;.*.' 0;- 25',)*' -6 2 '.*6.12' 620' 8 ,)' >6-1' -*?6 2.' .8**,' 0;- 25',)*' 8)1/*.;?? *-' 620' 6;,;?2# 2',) .' ?622*-' ?1.,' 1 ',)*' /6-5*-')1;.*.' 620' =;D/ >' D; /0 25.' 6-*' .;==/ *0' I !8! B1.*^ =);.' I 1' + ' X' 0*.*- D*.%,)*' 6D;2062,' =-1+ .12' 1-' 86,*-' .;==/ ' 2',)*',18*-.' 620' 1-,-*..*.' 1 'B*-;^ .6/*?' 6' .;==/ ' 8) >)')6.' >12,- D;,*0' 5-*6,/ C,1',.' >6=6> , ' 1-' 0* *2>*' 8) /*',)*' 0- 2*..' 1 ',)*' 2* 5)^ D1-)110')6.' 2' 6// >6.*.') 20*-*0',)*' 1=*-6, 12.' 1 'D*^ . *5*-.# ();.' :*[*9 6)' .,1==*0',)*' .;==/ ' 1 '86,*-' 1;,. 0*',)*' > , ' 2' 62, > =6, 12' 1 ',)*' 6,,6>9' 1 ' *2^ 26>)*- D' MK')-12# LLL ' N' X# ()*' =-15-*..' 1 ' 2, 1>/ ;.' 0*.*.' M # N X' 86.' 6,' -.,' -*,6-0*0' D ' 862,'1 '86,*-',)1;5)',) .' 862,'86.'6 ,*-86-0.' ;2*L^ =*>,*0/ '-*/ *+*0' MB1.*=)# & !' L ' Q' KT' / 2,12' ' NN X# B1.*=);.I' 6/.1' ?=;,*.',1 '0 + 2*' 2,*-=1. , 12',)*' .;==/E71 '86,*-' 8 ,)' 8) >)',)*' 6-? '1 '(,;.' 86.' ;-2 .)*0' 6 ,*-' .; *- 25' -1?' 862,'1 ' ,' I ' + ' R# X# ()*' -;.60*-.' 6/.1' 0;- 25',)*' . *5*' % # RR' 8*-*')6-6..*0' D ' *L,-*?*' 862,'1 ' 86,*-' 8) /*',)*' D*. *5*0' 8*-*' ;// '.;==/ *0' M<6,,)# 6- .' # !'=# S' R' *0%& 6,%X# *2A6? 2' 1 ' (;0*/6' .6 .' +*- ' /,,/*' 86,*-' .' 1;20' 6,'B*-;.6/*?'D;',)*' 2)6D ,62,.' 0-29' -6 2C86,*-' 8) >/',)*' >1//*>,' 2',)*-')1;.*.' M 1;)2.' 10# ' - 1'=# Q X# 6->/6 ' 5 +*.',)*' ?1.,' >1?=/*,*' 0*.>- =, 12' 1 ',)*' .;D,*--62*62' -*.*-+1 -.' 1' B*-;.6/*?' =6-, >;/6-/ ',)1.*' ;20*-',)1' : 6-6?' *2>/1^ .;-*' M W' ' " ' ? ') '=# KKS' *,>%X# **' ($L f ()*' 0* *2.*' 1 ' <6.606' D ' B1.*=)' D-1,)*' 1 ' :*-10' 656 2.,' 2, 512;.' 86.' *26D/*0' ,1' D*' =-1^ /125*0' 18 25',1' 62' ;2*L=*>,*0' -*=/*2 .) 25' 1 ',)*' > .,*-2.' D '6' .)18*-' 1 '-6 2' MB1.*=);.' & !' L + ' KX' 620' 2' 6' .;D.*._;*2,'=6..65*')*' 0*.>- D*.',)*' > .,*-2.' 620' -*.*-+1 -.' D ' 8) >)',)6,' 1-,-*..' 86.' =/*2, ;// ' .;==/ *0' 8 ,)' 86,*-' 6.')*')60'=-*+ 1;./ '012*' 2',)*' >6.*' 1 'B*-;.6/*?' 620' <6>)6*-;.' I ' +' ' T' + ' S KT' + ' Q NX# ;->9)6-0,'?*2, 12.'> .,*-2.' D*/125^ 25',1'=- +6,*')1;.*.' 6?125' 1,)*-'=/6>*.' 6,' *-?* 2 '2*6-' /*==1' I$!'=# K X' /' 6-6' 2',)1' -12,*.' +6//*' M=# NKX')6?' 620' ..*?6' 2',)*' *A6)' M=# ' K' QX' (D*- 6.' MZ=# NN X' *-*9' 2' <16D' M=# N X'<1;A,' (6D1-' M=# NN X# '.1?*' 6,' :6D/*)' 2*6-' 4 /56/',)*' 0 ?*2. 12.' 6-*' 5 +*2' D ' 1D 2.12' I 2' 5 " ' =# N Xa' ' d d N' **,' 0**=' K' 2*6-/' ,)*' .6?*' 6.' T' N K' d R' d Q# ()* ')6+*' 12*' 1-',81' .,*=:.',1' 0*.>*20' 2,1',)*?' 6.' .',)*' >6.*' 8 ,)' 12*' 2*6-' 46[6' 218' 0 .;.*0' 0*.>- D*0' D ' 620 .' 6.' 6' ? 5), ' > .,*-2' //*0' 12/ ' D ' ,)*' -6 2C86,*-' 620' 0*^ .>*20*0' 2,1' D ' .,6 -.' 1 '.,12*' 7 M 620 .' =# T' D;',*' .** 1D 2.12' 'N SX# ',)1.*' 6,' : 6D/*)' .1?*' 8*-*' >1+*-*0' 8 ,)' /6,'.,12*.' -*0 25' 12' 6->)*.' .1?*' *2^ , -*/ '1=*2' 620' 6//*+ 0*2,/ ' 62> *2,'M 1D 2.12' 2*8' *0# ' N X# @ -# / 2' I- ' 'Q X' 0*.>- D*.' .1?*^ ,) 25' 1 '6' D*.,*-' .1-,'2*6-' : *D-12a B;.,' 8 ,)1;',)*' > , ' 6-*' .1?*' > .,*-2.' 8) >)'=-1D6D/ ' D*/125',1' 6' *-' *6-/ ' 65*# ' /6-5*' D6. 2' 1-,AC.*+*2' =6>*.' ._;6-*' .,620.' 1;,. 0*',)*' 56,*' D ' 8) >)' 8*' *2,*-*0' ,)*' > ,E# ,' 86.' 0*6-/ ' ;// 1' 5-**2 .)' 86,*-' 620')6.' D**2' -*=6 -*0' 6,'6' =*- 10' 6==6-*2,/ ' 21,'+*- ' -*^ ?1,*# ,' .' 1 '+*- ' .1/ 0' 81-9?62.) =' D; /,'1 ')*82' / ?*.,12*' 620' ?6 ' D*' * 5),**2' 1-' ,8*2, ' **,' 0**=# ()*' 0*.>*2,' .' D ' /5),'1 ',6 -6' . ;1;-' >1?*-.' D ' 8) >)',)*' 86,*-' .' D-1;5),' ;=' 2' +*..*/.' 620' .9 2.' 620' =1;-*0' 2,1' ,-1;5).' 1-' ,)*' /1>9.' 1-' >6-- *0' 686A' 1-' 01?*.,>' ;.*.# ,' 86.' 21,' 6,',) .' , ?*' ,' 1-' 0- 29 25# 21,)*-'=11/' 1' .?6/*-' 0 ?*2^ . 12.' 1>>;=*.') 5)*-' 5-1;20' 12',)*' 21-,)' .0*' 1 ',)*' > , # ()*.*' -*.*-+1 -.' 6-*' //*0' D ',)*' -6 2.' 620' 6-*' ;2>122*>,*0' 8 ,)' 62 '=*-*22 6/ 1;2,6 2%J ,-;+ ;.' M+ ' X' 0*.>- D*.',)*' ?*,)10' 2';.*' 2') .' 06 ' 1-' >12^ .,-;>, 25' 86,*-C,629.' D;',#,A 1' 26, +*'-1>9' 1 ' 6/*., 2*' ;.;6// ' .;=*-.*0*0',)*' 2*=*.. ' 1 ' ?1-*' 6-,' 2',) .' 81-9',)62' .' .; > *2,',1' *L>6+6,*' 6' D6. 2' 1 ',)*' -*^ _;-*0' 0 ?*2. 12.# ()*' > ,' 1 ' /*L620- 6' .' .;=^ =/ *0' 8 ,)' 86,*-' >12,6 2*0' 2' 6->)*0' > ..*-2.' .;==1-,^ *0' D ' =//6-.' *L,*20 25' ;20*-' 6' 5-*6,'=6-,' 1 ',)*' 1/0' > , 'M 62' 5?12,' - ' ' N X# **' +M ! ?=, '> .,*-2.' 8*-*' .1?*, ?*.' ;.*0' 6.'=- .12.' 620' =/6>*.7 1 '>12 2*?*2,# B1.*=)' 86.' >6.,' 2,1' 6' '= ,J' M7 /' 4*2# LLL+ ' KKX' 620') .' 0;25*12J .' >6//*0' D ',)*' .6?*' 26?*' ML/ ' X# B*-*?6)' 86.',)-18?' 2,1' 6' ?-X7',)1;5)'*?=, '>.,*-2' 8)1.*' 0*=,)' .' 2^ 0 >6,*0' D ',)*' >1-0.';.*0',1'/*,') ?'0182' MB*-# LLL+ ' SX# (1',) .' =- .12',-60 , 12')6.' 6.. 52*0' 6' /1>6/ , ' 2*6-',)1' 56,*' >6//*0';*-10 .' 56,*' M:6..*/_;.,'=# T' <6;20-*//' 1)2.'*0# '6 ' - '=# QX# ** + f >>1-0 25',1' ()1?.12' I ' ' ; +1' KSK C X' 0- ' > .,*-2.' 6-*' 1 ,*2' ;.*0' 2' 6/*.,2*' 1-' 5-626-*.' 620' 6-*' +*- '/6D/*',1' D*' =/;20*-*0' 1',)* -' 38)*6,' D '62,.# **' & #! 6-1;.' 6//;.12.' D ' 86 '1' 5;-*' 6-*' ?60*' ,1' > .^ ,*-2.' 2' >-=,;-*# ()*' D-*69 25' 1',)*' 8)**/',)6,' 86.';.*0',1' .*20' 0182' 620' ;=/' ;=' 656 2',)*' D;>9*',38) >)' 0-*8' 86,*-' -1?',)*' /6-5*-' > ..*-2.' ' .';.*0' 2' >>/*.# L ' S' 6.' 62' ?65*' 1',)*' D-*69 25';=' 1',)*' 62 ?6/*>121? ' 8) >)'=*-^ =*,;6// ' .*20.' 8) /*',' .' 6,' 81-9',)*' /18' 1' + ,6/' D/110' -1?',)*')*6-',1',)*' *L,-*?',*.' (1' 0- 29' 7+6>7R 1;,'1 '12* .' 182' >.,*-2I .' 6'=-1+*-D 6/*L=-*.^ .12' M -1+# +' X' 1-' >12 2 25' 12* .' .*/',1',)*' /*5,^ ?6,*' .1;->*.' 1 '=/*6.;-*' 8) >)' 410')6.' 6..1> 6,*0' 8 ,)' 1;-' .,6,*' 6.' >12,-60 .,25; .)*0' -1?',)1.*' 8) >)' 6-*' ,)*' =-1=*-,E7' 1' 1,)*-.# ;',)1' ?*-*/ ');?62' 620' 6-, >6/ 26,;-*' 1' >.,*-2.' 18) >)' 6-*' 1' ?62.' 81-9?62.) =' 620')6+*' 21' / + 25' .=- 25' 80,)C 2',)*?' .*-+*' 6.' 6' ,' *?D/*?' 1',)1' 2.; >*2> ' 1' >-*6,;-*' >12 0*2>*.' 620' 1',)*' 1// ' 1' =-* *-- 25',)*.*' ,1',)*' 2 2 ,*' 620' *+*- /18 25' ;/2*..' 1' 410 ''6.' 2',)*' .1/*?2' >)6-5*' 1',)*' =-1=)*,' <E*'=*1=/*')6+*' >1?? ,,*0',81' *+ /.a',)*' ')6+*' 1-.69*2' ?*' ,)*' 1;2,6 2' 1' / + 25' 86,*-.' 620')* f*Z' ,)*?' 1;,' > .,*-2.' D-19*2' > .,*-2.',)6,'>62')1/0' 21' 86,*-J' MB*-# ' QX# ' ? ,)' .# +# f ,,1' .' +# f 6 -D6 -2' .# +# ** " ! .,*-, 62.# **' ! ,*6;L# **' ! ,)*-2' I) ; % ' ' <6>># +' ' # *# " ' 1-' 8' 6' ?;.>6/ 2.,2 ?*-,'?1.,'=-1D6D/ ' 1' 4-**9' C1-5 2' *?=/1 *0' D ',)*')6/0>*62.' 6,' D6// .' 620' -1;,.' 620' 2,-10;>*0' D ',)*' : *D-*8.' 2,1' 6/*., 2*' 12',)*-*,;-2',) ,)*-2' 6 ,*-',)*' 6D /12 62' >6=,+, ' # ()*' >,)*-2' 386.' 1',)*' 5;,6-'.=*> *.' 620' 86.' 9218 2' 6,' 6' /6,*-' =*- 10' 6.',)*' ' ;20*-' 8) >)' 26?*' ' .' ,)*' (-1/' 620' 8 ,[*-/620#

With respect to the shape of the cithern or cithara mentioned in the Apocrypha, the opinion of the learned is divided: according to some, it resembled in form the Greek delta, Δ; others represent it as a half-moon; and others, again, like the modern guitar. In many Eastern countries it is still in use with strings, varying in number from three to twenty-four. Under the name of *Koothir*, travellers describe it as a wooden plate or dish, with a hole beneath, and a piece of skin stretched above like a drum. Two sticks, joined after the manner of a fan, pass through the skin at the end, and where the two sticks stand apart, they are connected by a transversal piece of wood. From the upper end of this wooden triangle to the point below are fastened five chords, which, at a little distance above their junction, pass over a bridge, like the strings of a violin. The chords are made to vibrate by means of a leather thong fastened to one of the lateral sticks of the triangle (see Mendelssohn's edition of the *Psalms*, 2d Pref.).

Modern Oriental Cithara.

The cithara, if it be not the same with, resembles very closely the instruments mentioned in the book of Psalms, under the denominations of כִּנּוֹר, נֵבֶל, נֵגִינָה, respectively rendered in the A. V. "harp," "psaltery," "organ." In Chaldee, *cithara* is transferred as קָתְרוֹס, the *Keri* for קִיתָרוֹס (Dan. iii, 5), in the A. V. rendered "harp," and the same Engl. word is employed instead of *cithern* (1 Macc. iv, 54) in Robert Barker's edition of the *English Bible* (London, 1615). Gesenius (*Thes. Heb.* p. 215) considers cithara as the same with harp; but Luther translates κιθάραις by *mit Pfeifen*, "with pipes."—Smith, s. v. See HARP.

Cities. See CITY.

Cit'im (Κιτιεῖοι v. r. Κιτιαῖοι, Vulg. *Cetei*, A. V. "Citims"), a nation whose king Perseus is mentioned (1 Macc. viii, 5) as having been defeated by the Romans; evidently the CHITTIM (q. v.), or Macedonians.

Citizenship, the rights and privileges of a native or adopted citizen (πολίτης, 2 Macc. iv, 50; v, 6; ix, 15, 19; Luke xv, 15; xix, 14; Acts xxi, 39), in distinction from a foreigner. The following account is in part taken from Kitto and Smith, s. v. See ALIEN.

I. *Hebrew.*—Under the Mosaic constitution, which was framed on a basis of religious rather than of political privileges and distinctions, the idea of the commonwealth (πολιτεία, Eph. ii, 12) was merged in that of the congregation, to which every Hebrew, and even strangers under certain restrictions, were admitted. See CONGREGATION. Strict isolation did by no means, as some suppose, form the leading principle in the system of theocracy as laid down by Moses, since even non-Israelites, under various names [see STRANGER], not only were allowed to reside in Palestine, but had the fullest protection of the law equally with the native Israelites (Exod. xii, 19; Lev. xxiv, 22; Num. xv, 15; xxxv, 15; Deut. i, 16; xxiv, 17: the law of usury, Deut. xxiii, 20, made, however, an exception), and were, besides, recommended in general terms by Moses to humanity and charity (Exod. xxii, 21; xxiii, 9; Lev. xix, 33, 34; Deut. x, 18; comp. Jer. vii, 6; Mal. iii, 5; see Josephus, *Apion*, ii, 28), as well as to a participation in certain prerogatives granted to the poor of the land, such as a share in the tithe and feast-offering, and the harvest in the jubilee-year (Deut. xiv, 29; xvi, 10, 14; xxvi, 11; Lev. xxv, 6). In return, it was required on the part of non-Israelites not to commit acts by which the religious feelings of the people might be hurt (Exod. xx, 10; Lev. xvii, 10; xviii, 26; xx, 2; xxiv, 16; Deut. v, 14. The eating of an animal which had died a natural death, Deut. xiv, 21, seems to have been the sole exception). The advantage the Jew had over the Gentile was thus strictly spiritual, in his being a citizen, a member of the theocracy (the קְהַל יְהוָה, *community of Jehovah*, Num. xvi, 3; Deut. xxiii, 2), on whom positive laws were enjoined. But even to this spiritual privilege Gentiles were admitted under certain restrictions (Deut. xxiii, 1-9); thus we find among the Israelites, Doeg, an Edomite (1 Sam. xxi, 8), as also Uriah, a Hittite (a Canaanite). The only nations that were altogether excluded from the citizenship of the theocracy by especial command of the Lord were the Ammonites and Moabites, from a feeling of vengeance against them; and in the same situation were all castrated persons and bastards, from a feeling of disgrace and shame (Deut. xxiii, 1-6). In the time of Solomon no less than 153,600 strangers were resident in Palestine (2 Chron. ii, 17). See GENTILE.

II. *Roman.*—The right of citizenship (πολιτεία, "freedom," Acts xxii, 28, i. e. to be considered as equal to natives of the city of Rome, *jus civitatis*, *civitas*) was granted in the times of the emperors to whole provinces and cities (Dio Cass. xli, 25; Suet. *Aug.* 47), as also to single individuals (Tacit. *Annal.* i, 58; Sueton. *Nero*, 12; Dio Cass. xliii, 39; Appian, *Civ.* iii, 26), for some service rendered to the state (Cic. *Balb.* 22) or the imperial family (Sueton. *Aug.* 47), sometimes through mere favor (Tacit. *Hist.* iii, 41), or even for a certain sum of money (Acts xxii, 28; Dio Cass. xli, 24; see Heinecc. *Antiq. jur. Rom.* i, 1, 11 sq.). The apostle Paul was a Roman citizen (*civis natus*, Sueton. *Calig.* 38; see Amtzen, *De civitate Rom. apost. Pauli*, Utr. 1725) by family (Acts, l. c.) [see TARSUS], and hence his protesting against corporal or capital punishment (Acts xvi, 37; comp. Cic. *Verr.* v, 57, 65; Euseb. *Hist. Eccles.* v, 1, etc.). It appears from a variety of passages in the classic writers that a Roman citizen could not legally be scourged (*virgis* or *flagellis cædi*); this punishment being deemed to the last degree dishonorable, and the most daring indignity and insult upon the Roman name. Such was the famous "*Porcia Lex.*" "A Roman citizen, judges," exclaims Cicero, in his oration against Verres, "was publicly beaten with rods in the forum of Messina; during this public dishonor, no groan, no other expression of the unhappy wretch was heard amid the cruelties he suffered, and the sound of the strokes that were inflicted, but this: 'I am a Roman citizen!'" Neither was it lawful for a Roman citizen to be bound, or to be examined by the question, or torture, to extort a confession from him. These punishments were deemed servile; torture was only inflicted upon slaves; freemen were exempted from this inhumanity and ignominy. The right once obtained descended to a man's children (Acts xxii, 28; see Zimmern, *Gesch. des röm. Privat. rechts*, I, ii, 441). The Jews had rendered signal services to Julius Cæsar in the Egyptian war (Josephus, *Ant.* xiv, 8, 1 and 2), and it is not improbable that many obtained the freedom of the city on that ground; certain it is that great numbers of Jews who were Roman citizens were scattered over Greece and Asia Minor (*Ant.* xiv, 10, 13 and 14). Among the privileges attached to citizenship, the most noteworthy was the above, that a man could not be bound or imprisoned without a formal trial (Acts xx, 29), still less be scourged (Acts xvi, 37; Cic. *Verr.* v, 63, 66); the simple assertion of citizenship was sufficient to deter a magistrate from such a step (Acts xxii, 25; Cic. *Verr.* v, 62), as any infringement of the privilege was visited with severe punishment. A Jew could only plead exemption from such treatment before a Roman magistrate; he was still liable to it from Jewish authorities (2 Cor. xi, 24; Selden, *Syn.* ii, 15, § 11). Another privilege attaching to citizenship was the appeal from a provincial tribunal to the emperor at Rome (Acts xxv, 11). See APPEAL. The rights of the Roman citizen included several other important privileges: he had a full right over his property, his children, and

his dependents; he had a voice in the assemblies of the people, and in the election of magistrates; and his testament had full authority after his death. See Smith's *Dict. of Class. Antiq.* s. v. Civitas; Sigon. *De antiquo jure civ. Romn.* (Par. 1572; Hal. 1715; also in Grævii *Thesaur.* i); Spanheim, *Orbis Rom.* (London, 1703; Hal. 1728); Cellarii *Dissertatt.* p. 715 sq.; also Büttner, *De civ. Rom. virgidemiis exempt.* (Jen. 1672); Lange, *De immunitate civ. Roman.* (Hafn. 1710). See FREEMAN.

Citron (κίτριον, the *tree* is κιτρία or κιτρέα, but was long without a special name among the Greeks, although they were well acquainted with it; see Smith, *Dict. of Class. Antiq.* s. v. Citrus). In his account of Alexander Jannæus, Josephus tells us, "His own people were seditious against him; for at a festival which was then celebrated, when he stood upon the altar and was going to sacrifice, the nation rose upon him, and pelted him with citrons, for the law of the Jews required that at the festival of tabernacles every one should have branches of the palm-tree and citron-tree"

Citron Flower and Fruit.

(*Ant.* xiii, 13, 5). The late Lady Callcott, in her *Scripture Herbal*, mentions that, as the modern Jews still use citrons at the feast of tabernacles, "in London considerable sums of money are expended in importing them of the best kind for the purpose. They must be without blemish, and the stalk must still adhere to them. After the feast is over, the citrons are openly sold, and the money produced by the sale is placed in the common treasury, as part of the provision for the poor of the congregation." Their anxiety to obtain them with the stalk still adhering is no doubt a faint effort to secure the "thick" branches and "boughs of goodly trees" required for that festival (Lev. xxxiii, 40). But the chief importance of this fruit is its supposed identity with the תַּפּוּחַ, *tappu'ach*, or "apple" of the Bible, a conclusion, however, which has been ably disputed. See APPLE. The citron, or *Citrus medica*—so called because it was from Media that the Romans first received it—belongs to the natural order of Auruntiaceæ, a delightful group, including the orange, the lime, the lemon, and the shaddock (see the *Penny Cyclopædia*, s. v. Citrus). With its dark, glossy, laurel-looking leaves, its evergreen branches, often bearing simultaneously ripe fruits and newly-opened flowers, and thus vouchsafing to the pilgrim who rests in its deep shadow the twofold refreshment of a delicious banquet and a fragrant breeze, the citron may well claim pre-eminence "among the trees of the wood" (Can. ii, 3). Abounding

Citron-Tree.

in malic and citric acid, the juice of the orange and its congeners is one of the most agreeable antidotes which the Creator's bounty has provided against the exhausting thirst and incipient fever of sultry climes. A settler in the torrid swamps of the Amazon will devour a dozen oranges before his morning meal (*Voyage up the Amazon*, in the "Home and Colonial Library"), and in tropical regions such acidulous fruits are invaluable on account of their anti-febrile virtues. These were doubtless well known to the Hebrews, and, in common with all antiquity, they greatly prized the pleasant pungent odor emitted by the rind. Macrobius speaks of "citrosa vestis," showing that it was usual to keep citrons in wardrobes for the sake of their perfume; and, like the modern Oriental ladies, whose favorite vinaigrette is a citron, in England two or three centuries ago an orange was so commonly used as a scent-bottle that it may often be seen in old pictures of their queens and peeresses. It was also believed to have a disinfecting potency; and during the plague of London, people walked the streets smelling at oranges. Understood as belonging to this beautiful family, there is a peculiar felicity in the comparison, "A word fitly spoken is like citrons of gold in salvers (or baskets) of silver" (Prov. xxv, 11). The famous golden apples which grew in the gardens of the Hesperides were unquestionably either citrons or oranges.—Fairbairn, s. v. Apple. See BOTANY.

City. The Heb. term most frequently thus rendered is עִיר (*ir*, literally something *raised up*, i. e. having walls *reared;* or from עוּר, to *keep guard* [Gesenius, *Thes. Heb.* p. 1004]; Sept. and N. T. πόλις), a word of very extensive signification, embracing not only the idea of an encampment, as a nomade hamlet (Gen. iv, 17), but also that of small fortifications, as watch-posts or watch-towers (comp. Numb. xiii, 19; 2 Kings xvii, 9; Isa. i, 8), and thence extended to regular towns. Nearly equivalent to this is קִרְיָה (*kiryah'*), which, with a few exceptions (Deut. ii, 36; 1 Kings i, 41, 45), is found only in the poetic style; and analogous (in sense, as probably also in derivation) to this

/6.,' .' B27B ' I" ("E' 1;20' 12/ ' 2' B1D' LL L ' T' ,*0' 12/ ' .1' 6-' 6.' .)*/,*-*0' D ' 6' 1-, *0',182 ' *-*>^
-1+⅛ + ' NT' L ' N' T' L ' ⅛ ()*' 81-0' -*20*-*0' , 12.' 1 '6'+*- './ 5),' 26,;-*' 6-*' 1;20' .; > *2,' 1-',)*'
>,EJ' 2' ;,)' ' .' -&' I " = 81' =-1=*-/ ' ' =;-=1.*' ,)*' -6,)*-' D*>6;.*' ,)*' ?1.,' 6+1-6D/*' /1>6/ ^
M6.' ,' .' */.*8)*-*' -*20*-*0X' 620' ,)*-*' ?*62.',)1.*' ,*.' 1 *-',)*?.*/+*.' 12' 6// . 0*. ' 18 25',1',)*' 26,;-6/'
6..*?D/*0' 2',)*' 1-'=/6>*' 1 '=;D/ >' D;. 2*..' 6, 2*_;6/ , '1',)*' 5-1;20⅛ : *2>*' 8*' 20',)6,') //.' 1-'
,)*',182' 56,*.⅛ ()*.*>120' 1',)*.*',*-?.' M=*-)6=.' *?2*2>*.' 8*-*' 6/?1.,' 2+6- 6D/ ' >)1.*2' 6.' . ,*.' 1-'
-1?' ,1' %% '" 6.' 62' *2*? ' 1-'-6.,)*-' \4*C ,) .' =;-=1.*' 6' 6>,' 8) >)' *+*2' 5-*8' 2,1' 6' =-1+*-D ' '
.*2 ;.' -" !' # "!'=⅛ KNS⅛ ' 81' .'1 ,*2' =-* L^ 6' > , ' ;=12' 6' M **' : 6>9*,,.' !'
0',1',)' 26?*.' 1',182.' 12' D1,)' . 0*.' 1 ',)*' B1-062' $ % '=⅛ ⅛X
L . , 25' D 1-*',)*' >12_;*.,' 6.' -A6,)C -D6' =-1D6^ ',)*' 62 ' 6-,)*-',)62'
D/ ',)*' ?1.,' 62> *2,' 26?*' 1-' > , 'D;,'.*/01?' ;.*0' ')*' 9218/*05*' 62 ' 6-,)*-',)62' 8*' ?6 '56,)*-' 2 1-?6, 12' -1?' ,)*' -; 2.' 8) >)' ., //
2' =-1.*' 6.' 6' 5*2*-6/' 26?*' 1-' ,182' M ,62/* ' ' / *' 12',)*' .1/'1' 6/*., 2*⅛ ;',)*.*' -; 2.' >62' 6 D-0'
==⅛ g Q X⅛ ()*' >/6.. >6, 12' 1',)*'); ?62' -6>*' 2,1' 12/ ' 5*2*-6/' 21, 12. ' 6. ',)1;5)' ,)* ' 6-*' 2; ?*-1;.'
08*//*-.' 2',182.' 620' 21?60*' 8620*-*-.' M4*2⅛ + ' K 620' .)18',)6,',)*' 620' 1 -1? .*' 86.',) >9/ '=*1^
X' .**?.I,1' D*' 2, ?6,*0' D ',)*' *,E(21/15 >6/ .*2.*'=/*0' 620') 5)/ ' /1;-.) 25' 2' ,.' D*,,*-' 06 .',)*' 6>^
1 'D1,)' 81-0.' -' 1-'\-' '620') * "1' 6.' =/6>*.' 1 ',*^ ;,6/*-*?6 2.' 1 '62> *2,',182.' 6-*' ,1' D*' 6.>- D*0',1' 0 ^
>;-,' 656 2.,' 62' *2*? ' 0 .,25; .)*0' -1?',)*' ;2^ *-*2,' 620' +*- ' 0 .,62,' =*- 10.' 1 ') .,1-Af' ()*' -;^
86//*0' + //65*' 1-')6?/*,' 8)1.*-*. ..62>*' .' ?1-7' *6.^ .60*.'/* ,' ?62 ' .,-125)1/0.' 8) >)' 6-*' 218' 2' 6' .,6,*'
/ '1+*->1?*' D ',)*' ?6-6;0 25',- D*.' 1 ',)*' 0*.*-,⅛ 1 '0 /6= 06, 12' D;,',)*' -;.60*.' 6-*' 1 '?10*-2106 '
**' ? 4'g 1 5 ' f ().'0 .,2>,12' .' 1;20' 6>,;6/^ >1?=6-*0' 8 ,)',)*',?*' 1 ',)*' 6+ 1;-' 8) >)' ,.*/ ' .'
/ '*L .,25' 2' >1;2,-*.' 6.' *-. 6' 620' -6D 6' 2' 8) >)' -*.?1,*' -1?',)*' =-1=*-' 62, _;,E71 ',)*' 26, 12⅛ ()*'
,)*',*2,C08*//*-.' 6-*' 1;20' / 9*',)*' *>)6D,*.'-1D^ /6 8' 1 '.6?*2*..')18*+*-' 8) >)'=-*+6 /.' .1'-5 0/ ' 2'
?1.,' . 0*' D ' . 0*' 8 ,)',)*' 08*//*-.' 2' > , *.' .1?*^ 6.,*-2';>1;2,-*.'5 +*.';.'62'6..;-62>*',)6,'6'?10*?'
, ?*.' *+*2' .1A1;-2 25' 8 ,) 2',)*?'D;,' 21,' 6?6/56^ ,182' 2' 6/*., 2*' ?6 'D*' -1;5)/E7,69*2' 6.' 6', =*' 1 '
?6,*0' 8 ,)',)*' 2)6D ,62,.'620' 2' 5*2*-6/' ?69 25' ,.' 62> *2,'=-*0*>*..1-.⅛ M **' / 2 .' - ' KN⅛X
,)*' 0*.*-,)*-')1?*'620';2/9*',)*' *>)6D,*.'-1D^ (1' 0 .,25; .)' > , *.',)6,' D1-*' ,)*' .6?*' 26?*' ,)*'
/6 8' 1 '.6?*2*..')18*+*-' 8) >)'=-*+6 /.' .1'-5 0/ ' 2' 26?*' 1',)*',- D*' 86.' 600*0⅛ 2' ,)*' /6,,*-' 06 .' J'
6..*-2';>1;2,-*.'5 +*.';.'62'6..;-62>*',)6,'6'?10*?' *.=*> 6// ';20*-',)*' : *-10.' ,' 86.',)*' 6.) 12',1'5 +*'
,182' 2' 6/*., 2*' ?6 'D*' -1;5)/E7,69*2' 6.' 6', =*' 1 ' 1' 62> *2,'-*0*>*..1-.⅛ M **' / 2 .' - ' KN⅛X ,1'62> *2,'.182H' 2*8' 4-**9' 26?*.' 6.' 1.=1/.' *C
(1' 0 .,25; .)' > , *.',)6,' D1-*' ,)*' .6?*' 26?*' ,)*' 6=1/.' *D6.,*' 6*.6-*6' (D*- 6.⅛ B*-;.6.7' 6,' 6'
26?*' 1',)*',- D*' 86.' 600*0⅛ 2' ,)*' /6,,*-' 06 .' J' /6,*-'=*- 10' 86.' 0*21? 26,*0' 6= ,1/ 26⅛ ()*.*'
.=> 6// ';20*-',)*' : *-10.' ,' 86.',)*' 6.) 12',1'5 +*' 221+6, 12.' 20 >6,*0',)*' ./6+ .)' 0 .=1. , 12' 1',)*'
,1'62> *2,',182H' 2*8' 4-**9' 26?*.' 6.' 1.=1/.' *C 65*' 620' 8*-*',19*2.' 1',)*' D*2065*' 2' 8) >)',)*' 26^
6=1/.' *D6.,*' 6*.6-*6' (D*- 6.⅛ B*-;.6.7' 6,' 6' , 12' 86.')*/0⅛ ⅛ 3
/6,*-'=*- 10' 86.' 0*21? 26,*0' 6= ,1/ 26⅛ ()*.*' 6/*., 2*' ;20*-8*2,'>12..62,'>)625*.' 2'-*56-0',1'
221+6, 12.' 20 >6,*0',)*' ./6+ .)' 0 .=1. , 12' 1',)*' 6>>1-0 25',1' B1.*=);.' I ' X'6?1;2,*0' 2' 6//,1'
65*' 620' 8*-*',19*2.' 1',)*' D*2065*' 2' 8) >)',)*' 26^ ,)*' 2;?D*-' 1'K ⅛ ()*' 26?*.' 1',)*' 6/*., 2 62'
,182' 86.')*/0⅛ ⅛ 3 >,*.' 1-',)*' ?1.,'=6-,')6+*' ?*62 25'-* *-*2>*' D* 25' ?60*',1',)*' 26,;-*' 1',)*' /1>6/ ,'1-',)*' >)6-6>,*-'1'
6/*., 2*' 620' 8*-*',19*2.' 1',)*' D*2065*' 2' 8) >)',)*' 26^ K⅛ ()*' 26?*.' 1',)*' 6/*., 2 62' ,)*' 2)6D ,62,.'9*=,'6,' 21' 5-*6,'0 ,62>*' -1?',)*' >*2,-*' D*' 6.>*-,6 2*0' 8 ,)' 62 '0*5-*' 1 '6>>;-6> ' 1-',)*'
>,*.' 1 ' 2' 1-0*-' 21,',1' D*' 0*=- +*0' 1 ' .' =-1,*>^ 1'.,-*25,)' 2' 1-0*-' 21,',1' D*' 0*=- +*0' 1 ' .' =-1,*>^ ?6,*- 6/.' 6-*' 21,' 12/ '.>62, '620' 0 .>122*>,*0' D;,' 2'
,12⅛ ()*',182')18*+*-' 81;/0',);.' D*' *2/6-5*0' 6' ?*6.;-*';2>*-,6 2⅛ ' ,,1'.⅛+⅛ **' $ 6' 620' 6.',)*' 2*>*.. ,' 1-'.*/ C0*' *2>*' .,//*L .,*0' .1' K⅛ ()*' 26?*.' 1',)*' 6/*., 2 62' 81;/0',)*'=/6>*' .112' D1' .;--1;20' 0*0' 8 ,)' 86//.⅛ ();.' >12>;-,' 656 2.,' 62' *2*? ' 0 .,25; .)*0' -1?' ,)*' -; 2.' >62' 6 D-0'
,)*-*' 81;/0' D*' 1;,*-' 620' 22*-' D;/86-9.' 620' 2' H1?*' ' 1' ',)62' 6,' 1',)*' >,' >6//*0' 21>)' M⅛+⅛X D' 6 2' 2' 12/ ' 5*2*-6/' 21, 12. ' 6. ',)1;5)' ,)* ' 6-*' 2; ?*-1;.'
.1-,',81' .=*> *.' 1 '>1? ?;2, ',)*',182.=*1=/*' 8)1' ,)*' 2)6D ,62,.'620' 2' H1?*' .1/'1' 6/*., 2*⅛ ;',)*' >12 ;. 12' 1',125;*.',)*' 0*.>*2062,.'1' ?-10' 1;20^ 0*.>*2062,.'1' ?-10' 1;20^
//*0',)*' 5-1;20' 620' >6-- *0' 12',-60*' 620',)*' .1/0 *-.' 6D*/' -*>)' >>60' 620' 6/2*D' 2',)*' /620' 1' *0' 6D*/' -*>)' >>60' 620' 6/2*D' 2',)*' /620' 1'
8)1.*' D;. 2*..',' 86.',1' 6 / 1-0' =-1,*>, 12á ,)*.*',81' ,)*' =*6.62,'620',-60*. ?62',69 25'6-?.'8)*2',)*',182' ,)*' =*6.62,'620',-60*. ?62',69 25'6-?.'8)*2',)*',182'
)18*+*-' 2',)*' 6-/ *.',.,65*.'1 '> + / [6, 12'8*-*'12*') 26-T' 620' ..);-'6'D-62>)' -1?',)*' .6?*' ..,1>9'
-.,'65*.',)6,'8*'=1..*..' 2',)*'-*>1-0.'1',)*' D119'1' D;,/,' 2*+*)' 620',)*' -*.',M4*2' C K RT' L ' N' RT'
4*2*. .⅛ 2',)*', ?*' 1',)*' 6,- 6->).' 8*-*' 720',182.' ?-10' .',1' D*' ;20*-.,110' 21,' 62' 20 + 0;6/'D;,'
L . , 25' 2' 6/., 2*' 8) >)' 8*-*' 1- 5 26// ' .;--1;20*0' LLL+ ' Q X⅛ -' : ⅛ 68/2.12' .;==1.*.' M ⅛X,)6,',)*' 6' 26?*' 0*21, 25',)*' .*.J' 2',)*' .. - 62'=6 21'
8 ,)' 1-, >6, 12.' .1' 6.',1' ?69*',)*?'' *2>*0'>, *.⅜J' L*=*0 , 12' 1')*01-/61?*-' M4*2⅛ L +X' 86.' =- 1Y',1' 20' MN⅛X',)6,',)*' 26?*.' *)1D1,)' 6/6)' *,>⅜' 8)*2'
M **' D*/18⅛X' 2',)*.*' 08*/,',)*' 65- >;/,;-6/' =1=;/6^ -.,' ?*2, 12*0' 12/ ' 0*21,*0'.,*.' 1 'D;/0 25.' 6 ,*-^
, 12' 8)1' D ' ?*62.' 1',)*.*' =/6>*.' 1' .,-*25,)' 0*^ 86-0.' *-*>,*0⅛ : *' .;==1.*.',)6,' 2*+*)' 86.' D;/,'
*20*0',)*?.*/+*.'620',)*' -'=-1=*-,' -1?',)*' 21?60' 6D1;,' 6' >*2,;-' 6/6,0-'
,- D*.' 1',)*' 2* 5)D1- 25' 0*.*-,' 8)1',)*2' 6.',)*' 01' 8) /*' 6D /12' 6==*6-.',1')6+*' *L .,*0' 2',)*' ,)'>*2^
218'/+*0' D '=/;20*-⅛ 1-' 8*-*' 81-9.' 1' 62 '5-*6,' ?-10' .',1' D*' ;20*-.,110' 21,' 62' 20 + 0;6/'D;,'
.,-*25,)'2*>*..6- ⅛ 2' 6/*., 2*' 6,',)*' =-*..*2,'06 ' =/6>*.',)*2'6,,6>9*0' 101?'41?1--6)'*,>⅜'8*-*>,^
8) /*' 86//.' 6-*' 2' ?1k,'=6-,.' 62' 20 .=*2.6D/*' =-1,*>^ *.' 1')5)*-' 62, _;,',)62' 2*+*)'0-' 6D /12' 26.^
, 12' 620' 65- >;/,;-*' >62' D*' 60+62,65*1;./ ' =-1.*>;^ ?;>)' 6.' 8)*2',)*A' 8*-*' 0*.,-1 *0' 6' *8' *6-.' /6,*-

,)* '8*-*' > , *.' 2' '.*2.*' 1 ',)*' ,*-?% ()*' 26?*' -A6,)6 ?' '01;D/*' > , J' M4*.*2 ; .' -+ '# !'=% KN4X' 20 >6,*.' 62' *L ., 25' > , ' 620' 21,' 6' . ,*' 12/ % ,' ?6 ' D*' 600*0' ,)6,',)*' -*?6 2.' 1 ' > + >' D; /0 25.' *L ., 25' 2' <16D' 6-*' *+ 0*2,/ '+*- '62> *2,' '21,' 2' .1?*' >6.*. ',)*' .6?*' 6.',)1.*' *-*>,*0' D ',)*' 6D1- 5^ 26/ ? ?' 620' *=)6 ?% M 1?=6-*' 6/.1',)*' 26?*' + ,)' -; 2. J' 4*.*2 ;.' !'=% T' 4*2% L L' KRT' LLL+ ' N T' .6% LL ' QT' .** & /9 2.12' 'N QT' 6 6-0' 7 ' '; !'=% NKT' 1-,*-' ; J' <' ' N R' ' RST') - ; ' *(& !' !' =% ' %X' ;' ,)1;5)' ,' 6==*6-.' =-1D6D/*' ,)6, ' 8)6,^ *+*-' 06,*.' ?6 'D*' 6.. 52*0',1',)*' D; /0 25' 1 % 6D /12' 1-' 2*+*)' 2',)* -'/6,*-' >120, 12',)* ' 8*-*' 2' 6>,' -*D; /,' 6,',)1.*' *=1>).' 620' 21,' 1;20*0' 1-',)*' -.,' ,?*' 620',)6,',182.' 2'.1?*' 1-?' 1-' 1,)*-' ?6 ')6+*' 1>>;= *0',)*' .,*.' 1',)*' /6,*-' 2*+*)' 1-' 6/6)' ,' .' _; ,*' >/*6-',)6,' > , *.' *L .,*0' 2' - 6' =- 1-',1',)*' ,?*' 1' D-6)6?'8)1') ?.*/'>6?*' -1?' '$- J' ,)*' '> , J' 1',)*')6/0 *62.'M4*.*2 ;.' !'=% T' 68/ 2C' .12'=% X% ()*' *6-/ *.,' 0*.>- =, 12' 1 '6' > , ' =-1=*-/ '.1' >6//*0' .',)6,' 1' 101?' M4*2% L L' CKKXT' D;',' .' >*-,6 2' ,)6,' -1?' +*- '*6-/ ', ?*.' > , *.' *L .,*0' 12',)*' . ,*.' 1 'B*-; .6/*? ' : *D-12' 620' 6?6.>;.' ()*' /6.,' .6 0' ,1' D*' ,)*' 1/0*.',' > , ' 2',)*' 81-/0' ?;.,' -1?' ,' ;2^ - +6//*0' . ,;6, 12')6+*' 6/86 .' >1? ?620*0' 6' >125-*^ 56,*0' =1=;/6, 12' : *D-12' .' .6 0',1')6+*' D**2' D; /,' .*+*2' *6-.' D* 1-*' U162' M(62 .E' 2' 5 =,' 620' .',);.' ,)*' 12/ ' 2a 62' ,182' 8) >)' =-*.*2,.',)*' */*?*2,.' 1' 6' 06,*' 1-' ,.' 1;206, 12' M ;?% L 'KKT' .**' ,62/*' S' =% RT' B1.*=);.T & ' ' ' T' 12 D*6-*' 620' :18.12' 1' 'R ' RSX% ;',)*-*' >62' D*' 21' 01;D,',)6, -)6,*+*-' 06,*' ?6 'D*' 5 +*2',1' 5 =, 62' > + / [6, 12',)*-*' 8*-*' 2)6D ,*0' > , *.' 2' 5 =,'/125' D* 1-*',) .' M4*2% L ' ' T' .**' <6-, 2*6; '6 ' (1' ' T' & /9 2.12' 'N T' ? ,)' ' ' ' ' ? !' !' +' (62 .X% ()*' 26?*')18*+*-' 1' : *D-12' A6,)C -D6' 20 >6,*.' ,.' *L .,*2>*' 6,' /*6.,'6.' *6-/ ' 6.',)*' , ?*' 1' D-6)6?'6.',)*' > , '1-' 1-, *0' =/6>*' 1' -D6'62' 6D1- 5 26/ =-1+ 2>*' 1' 1;.,)*-2' 6/*., 2*' M4*2% LL 'KT' B1.)' L +' X% ()*' ',18*-' 1' 06- J' 2*6-' *,)/*)*?' 1-' 1' /1>9. J' 20 >6,*.' 6' =1., 12' 1-, *0'656 2.,' ?6-6;0*-.' M4*2% LLL+ ' K X% *),)C 1-' ',)*' > , '1')6/*? J' D*' 6' .,*' 1-' 62' *L ., 25',182' >6221,' D*' 0*,*-? 2*0' D;',)*-*' >62' D*' 21' 01;D,',)6, ,)*' . ,;6, 12' 1')*>)*?' .' 6.' 8*// 0*2, *0' 2',)*' =-*.*2,' 06 ' 6.' ,.' ?=1-,62>*' 6.' 6' 1-, *0' =/6>*' .' =/6 2' -1?',)*' >- =,;-*' 26--6, +*' M4*2% LLL ' QT' LLL + 'K 'KST' .**' 1D 2.12' ' X% 2',)*' 8)1/*' ,' .**?.' =/6 2',)6,',)*' 62662 ,*' 8)1' 86.' 2',)*' /620J' D* 1-*',)*' >1? 25' 1' D-6)6?')60' 6/-*60 ' D; /,' > , *.' 1' ?1-*' 1-' /*..' ?=1-,62>*' 8) >)')60' D**2' /6-5*/ ' 2>-*6.*0' D ',)*', ?*' 1',)*'-*,;-2' -1?' 5 =,% +*2' D* 1-*',)*' , =*' 1' D-6)6?',)*-*' 8*-*' >,*.' 2' 5 =,' M4*2% L ' ' T' ;?% L 'KKT' .**' & /9 2^ .12' ' X% ()*' .-6*/ ,*.'0;- 25',)* -' .1A1;-2',)*-*' 8*-*' *?=/1 *0' 2' D; /0 25' 1-' 1-, 25',)*' ,-*6.;-*> , *.J' 1' ,)1?' M DD6. *)X' 620' 66?.*.' M L10% ' T' :*-10' ' QT' .**' 1D 2.12' ' RXT' D;',)* -' =6.,1-6/)6D ,.' ?69*' ,' ;2/ 9*/ ',)6,',)* ' .)1;/0' D; /0' ., // /*.' 1-, ' > , *.' 1',)* -' 182' 2' 41.)*2' M4*2% L/+ ' N T' L/+ I' C X% <*628)/*',)*' .*,/*0' 2)6D ,62,.' 1' - 6' 12' D1,)' .0*.' 1',)*' B1-062')60' 5-172' 2'=18*-' 620' 2' 2;?D*-' 1' *2>*0C> , *.%J' 2' ,)*' 9 2501?' 1')12' 6-*' ?62 '26?*.' 1' > , *.' =-*^ .*-+*0',1',)*' =-*.*2,' 06 T 620' 2',)*' 9 2501?' 1' 5' 2' 6.)62' 8*-*' . L, ' 5-*6,' > , *.' 8 ,)' 86//.' 620' D-6[*2' D6-. J' D*. 0*.' ;286//*0' + //65*.T' 620' 6/.1' ,8*2, C,)-**' > , *.' 2' 4 /*60' 8) >)' 8*-*' 1>>;= *0' 620' =*-)6=.' =6-,/ '-*D; /,' 1-' 1-, *0' D ',-' D*.' 12',)*' >6.,' 1' B1-062' M ;?% LL ' K ' NK' NN' N T' LLL ' CN' ' KT' *;,% ' ' B' T' B1.)' L ' L T' 7 25.' +' NT' ')-12% 'KKT' .**' ;->9)6-0, '$ '=% N T' 1-,*-' ' ' R RS' K S' K R' K X% 2',)*' 8*.,' 1' B1-062' 8) /.,' N ' -1 6/J' > , *.' 6-*' *2; ?*-6^ ,*0' MB1.)' L X' 2',)*' 0 .,- >,' 6.. 52*0',1' B;06)' K > , *.J' 8 ,)' + //65*.' 6-*' -*>912*0' MB1.)' L+X' 2' *2A6? 2' KST',1' ?*12' T' U*D;/;2' KT' ..6>)6-' KN4X' 20 >6,*.' 62' *L ., 25' > , ' 620' 21,' 6' . ,*' 12/ % ,' ?6 ' D*' 600*0' ,)6,',)*' -*?6 2.' 1 ' > + >' D; /0 25.' *L ., 25' 2' <16D' 6-*' *+ 0*2,/ '+*- '62> *2,' '21,' 2' .1?*' >6.*. ',)*' .6?*' 6.',)1.*' *-*>,*0' D ',)*' 6D1- 5^ 26/ ? ?' 620' *=)6 ?% M 1?=6-*' 6/.1',)*' 26?*' + ,)' -; 2. J' 4*.*2 ;.' !'=% T' 4*2% L L' KRT' LLL+ ' N T' .6% LL ' QT' .** & /9 2.12' 'N QT' 6 6-0' 7 ' '; !'=% NKT' 1-,*-' ; J' <' ' N R' ' RST') - ; ' *(& !' !' =% ' %X' ;' ,)1;5)' ,' 6==*6-.' =-1D6D/*' ,)6, ' 8)6,^ *+*-' 06,*.' ?6 'D*' 6.. 52*0',1',)*' D; /0 25' 1 % 6D /12' 1-' 2*+*)' 2',)* -'/6,*-' >120, 12',)* ' 8*-*' 2' 6>,' -*D; /,' 6,',)1.*' *=1>).' 620' 21,' 1;20*0' 1-',)*' -.,' ,?*' 620',)6,',182.' 2'.1?*' 1-?' 1-' 1,)*-' ?6 ')6+*' 1>>;= *0',)*' .,*.' 1',)*' /6,*-' 2*+*)' 1-' 6/6)' ,' .' _; ,*' >/*6-',)6,' > , *.' *L .,*0' 2' - 6' =- 1-',1',)*' ,?*' 1' D-6)6?'8)1') ?.*/'>6?*' -1?' '$- J' ,)*' '> , J' 1',)*')6/0 *62.'M4*.*2 ;.' !'=% T' 68/ 2C' .12'=% X% ()*' *6-/ *.,' 0*.>- =, 12' 1 '6' > , ' =-1=*-/ '.1' >6//*0' .',)6,' 1' 101?' M4*2% L L' CKKXT' D;',' .' >*-,6 2' ,)6,' -1?' +*- '*6-/ ', ?*.' > , *.' *L .,*0' 12',)*' . ,*.' 1 'B*-; .6/*? ' : *D-12' 620' 6?6.>;.' ()*' /6.,' .6 0' ,1' D*' ,)*' 1/0*.',' > , ' 2',)*' 81-/0' ?;.,' -1?' ,' ;2^ - +6//*0' . ,;6, 12')6+*' 6/86 .' >1? ?620*0' 6' >125-*^ 56,*0' =1=;/6, 12' : *D-12' .' .6 0',1')6+*' D**2' D; /,' .*+*2' *6-.' D* 1-*' U162' M(62 .E' 2' 5 =,' 620' .',);.' ,)*' 12/ ' 2a 62' ,182' 8) >)' =-*.*2,.',)*' */*?*2,.' 1' 6' 06,*' 1-' ,.' 1;206, 12' M ;?% L 'KKT' .**' ,62/*' S' =% RT' B1.*=);.T & ' ' ' T' 12 D*6-*' 620' :18.12' 1' 'R ' RSX% ;',)*-*' >62' D*' 21' 01;D,',)6, -)6,*+*-' 06,*' ?6 'D*' 5 +*2',1' 5 =, 62' > + / [6, 12',)*-*' 8*-*' 2)6D ,*0' > , *.' 2' 5 =,'/125' D* 1-*',) .' M4*2% L ' ' T' .**' <6-, 2*6; '6 ' (1' ' T' & /9 2.12' 'N T' ? ,)' ' ' ' ' ? !' !' +' (62 .X% ()*' 26?*')18*+*-' 1' : *D-12' A6,)C -D6' 20 >6,*.' ,.' *L .,*2>*' 6,' /*6.,'6.' *6-/ ' 6.',)*' , ?*' 1' D-6)6?'6.',)*' > , '1-' 1-, *0' =/6>*' 1' -D6'62' 6D1- 5 26/ =-1+ 2>*' 1' 1;.,)*-2' 6/*., 2*' M4*2% LL 'KT' B1.)' L +' X% ()*' ',18*-' 1' 06- J' 2*6-' *,)/*)*?' 1-' 1' /1>9. J' 20 >6,*.' 6' =1., 12' 1-, *0'656 2.,' ?6-6;0*-.' M4*2% LLL+ ' K X% *),)C 1-' ',)*' > , '1')6/*? J' D*' 6' .,*' 1-' 62' *L ., 25',182' >6221,' D*' 0*,*-? 2*0' D;',)*-*' >62' D*' 21' 01;D,',)6, ,)*' . ,;6, 12' 1')*>)*?' .' 6.' 8*// 0*2, *0' 2',)*' =-*.*2,' 06 ' 6.' ,.' ?=1-,62>*' 6.' 6' 1-, *0' =/6>*' .' =/6 2' -1?',)*' >- =,;-*' 26--6, +*' M4*2% LLL ' QT' LLL + 'K 'KST' .**' 1D 2.12' ' X% 2',)*' 8)1/*' ,' .**?.' =/6 2',)6,',)*' 62662 ,*' 8)1' 86.' 2',)*' /620J' D* 1-*',)*' >1? 25' 1' D-6)6?')60' 6/-*60 ' D; /,' > , *.' 1' ?1-*' 1-' /*..' ?=1-,62>*' 8) >)')60' D**2' /6-5*/ ' 2>-*6.*0' D ',)*', ?*' 1',)*'-*,;-2' -1?' 5 =,% +*2' D* 1-*',)*' , =*' 1' D-6)6?',)*-*' 8*-*' >,*.' 2' 5 =,' M4*2% L ' ' T' ;?% L 'KKT' .**' & /9 2^ .12' ' X% ()*' .-6*/ ,*.'0;- 25',)* -' .1A1;-2',)*-*' 8*-*' *?=/1 *0' 2' D; /0 25' 1-' 1-, 25',)*' ,-*6.;-*> , *.J' 1' ,)1?' M DD6. *)X' 620' 66?.*.' M L10% ' T' :*-10' ' QT' .**' 1D 2.12' ' RXT' D;',)* -' =6.,1-6/)6D ,.' ?69*' ,' ;2/ 9*/ ',)6,',)* ' .)1;/0' D; /0' ., // /*.' 1-, ' > , *.' 1',)* -' 182' 2' 41.)*2' M4*2% L/+ ' N T' L/+ I' C X% <*628)/*',)*' .*,/*0' 2)6D ,62,.' 1' - 6' 12' D1,)' .0*.' 1',)*' B1-062')60' 5-172' 2'=18*-' 620' 2' 2;?D*-' 1' *2>*0C> , *.%J' 2' ,)*' 9 2501?' 1')12' 6-*' ?62 '26?*.' 1' > , *.' =-*^ .*-+*0',1',)*' =-*.*2,' 06 T 620' 2',)*' 9 2501?' 1' 5' 2' 6.)62' 8*-*' . L, ' 5-*6,' > , *.' 8 ,)' 86//.' 620' D-6[*2' D6-. J' D*. 0*.' ;286//*0' + //65*.T' 620' 6/.1' ,8*2, C,)-**' > , *.' 2' 4 /*60' 8) >)' 8*-*' 1>>;= *0' 620' =*-)6=.' =6-,/ '-*D; /,' 1-' 1-, *0' D ',-' D*.' 12',)*' >6.,' 1' B1-062' M ;?% LL ' K ' NK' NN' N T' LLL ' CN' ' KT' *;,% ' ' B' T' B1.)' L ' L T' 7 25.' +' NT' ')-12% 'KKT' .**' ;->9)6-0, '$ '=% N T' 1-,*-' ' ' R RS' K S' K R' K X% 2',)*' 8*.,' 1' B1-062' 8) /.,' N ' -1 6/J' > , *.' 6-*' *2; ?*-6^ ,*0' MB1.)' L X' 2',)*' 0 .,- >,' 6.. 52*0',1' B;06)' K > , *.J' 8 ,)' + //65*.' 6-*' -*>912*0' MB1.)' L+X' 2' *2A6? 2' KST',1' ?*12' T' U*D;/;2' KT' ..6>)6-' KN4X' 20 >6,*.' 62' *L ., 25' > , ' 620' 21,' 6' . ,*' 12/ % ,' ?6 ' D*' 600*0' ,)6,',)*' -*?6 2.' 1 ' > + >' D; /0 25.' *L ., 25' 2' <16D' 6-*' *+ 0*2,/ '+*- '62> *2,' '21,' 2' .1?*' >6.*. ',)*' .6?*' 6.',)1.*' *-*>,*0' D ',)*' 6D1- 5^ 26/ ? ?' 620' *=)6 ?% M 1?=6-*' 6/.1',)*' 26?*' + ,)' -; 2. J' 4*.*2 ;.' !'=% T' 4*2% L L' KRT' LLL+ ' N T' .6% LL ' QT' .** & /9 2.12' 'N QT' 6 6-0' 7 ' '; !'=% NKT' 1-,*-' ; J' <' ' N R' ' RST') - ; ' *(& !' !' =% ' %X' ;' ,)1;5)' ,' 6==*6-.' =-1D6D/*' ,)6, ' 8)6,^ *+*-' 06,*.' ?6 'D*' 6.. 52*0',1',)*' D; /0 25' 1 % 6D /12' 1-' 2*+*)' 2',)* -'/6,*-' >120, 12',)* ' 8*-*' 2' 6>,' -*D; /,' 6,',)1.*' *=1>).' 620' 21,' 1;20*0' 1-',)*' -.,' ,?*' 620',)6,',182.' 2'.1?*' 1-?' 1-' 1,)*-' ?6 ')6+*' 1>>;= *0',)*' .,*.' 1',)*' /6,*-' 2*+*)' 1-' 6/6)' ,' .' _; ,*' >/*6-',)6,' > , *.' *L .,*0' 12',)*' . ,*.' 1 'B*-; .6/*? ' : *D-12' 620' 6?6.>;.' ()*' /6.,' .6 0' ,1' D*' ,)*' 1/0*.',' > , ' 2',)*' 81-/0' ?;.,' -1?' ,' ;2^ - +6//*0' . ,;6, 12')6+*' 6/86 .' >1? ?620*0' 6' >125-*^ 56,*0' =1=;/6, 12' : *D-12' .' .6 0',1')6+*' D**2' D; /,' .*+*2' *6-.' D* 1-*' U162' M(62 .E' 2' 5 =,' 620' .',);.' ,)*' 12/ ' 2a 62' ,182' 8) >)' =-*.*2,.',)*' */*?*2,.' 1' 6' 06,*' 1-' ,.' 1;206, 12' M ;?% L 'KKT' .**' ,62/*' S' =% RT' B1.*=);.T & ' ' ' T' 12 D*6-*' 620' :18.12' 1' 'R ' RSX% ;',)*-*' >62' D*' 21' 01;D,',)6, -)6,*+*-' 06,*' ?6 'D*' 5 +*2',1' 5 =, 62' > + / [6, 12',)*-*' 8*-*' 2)6D ,*0' > , *.' 2' 5 =,'/125' D* 1-*',) .' M4*2% L ' ' T' .**' <6-, 2*6; '6 ' (1' ' T' & /9 2.12' 'N T' ? ,)' ' ' ' ' ? !' !' +' (62 .X% ()*' 26?*')18*+*-' 1' : *D-12' A6,)C -D6' 20 >6,*.' ,.' *L .,*2>*' 6,' /*6.,'6.' *6-/ ' 6.',)*' , ?*' 1' D-6)6?'6.',)*' > , '1-' 1-, *0' =/6>*' 1' -D6'62' 6D1- 5 26/ =-1+ 2>*' 1' 1;.,)*-2' 6/*., 2*' M4*2% LL 'KT' B1.)' L +' X% ()*' ',18*-' 1' 06- J' 2*6-' *,)/*)*?' 1-' 1' /1>9. J' 20 >6,*.' 6' =1., 12' 1-, *0'656 2.,' ?6-6;0*-.' M4*2% LLL+ ' K X% *),)C 1-' ',)*' > , '1')6/*? J' D*' 6' .,*' 1-' 62' *L ., 25',182' >6221,' D*' 0*,*-? 2*0' D;',)*-*' >62' D*' 21' 01;D,',)6, ,)*' . ,;6, 12' 1')*>)*?' .' 6.' 8*// 0*2, *0' 2',)*' =-*.*2,' 06 ' 6.' ,.' ?=1-,62>*' 6.' 6' 1-, *0' =/6>*' .' =/6 2' -1?',)*' >- =,;-*' 26--6, +*' M4*2% LLL ' QT' LLL + 'K 'KST' .**' 1D 2.12' ' X% 2',)*' 8)1/*' ,' .**?.' =/6 2',)6,',)*' 62662 ,*' 8)1' 86.' 2',)*' /620J' D* 1-*',)*' >1? 25' 1' D-6)6?')60' 6/-*60 ' D; /,' > , *.' 1' ?1-*' 1-' /*..' ?=1-,62>*' 8) >)')60' D**2' /6-5*/ ' 2>-*6.*0' D ',)*', ?*' 1',)*'-*,;-2' -1?' 5 =,% +*2' D* 1-*',)*' , =*' 1' D-6)6?',)*-*' 8*-*' >,*.' 2' 5 =,' M4*2% L ' ' T' ;?% L 'KKT' .**' & /9 2^ .12' ' X% ()*' .-6*/ ,*.'0;- 25',)* -' .1A1;-2',)*-*' 8*-*' *?=/1 *0' 2' D; /0 25' 1-' 1-, 25',)*' ,-*6.;-*> , *.J' 1' ,)1?' M DD6. *)X' 620' 66?.*.' M L10% ' T' :*-10' ' QT' .**' 1D 2.12' ' RXT' D;',)* -' =6.,1-6/)6D ,.' ?69*' ,' ;2/ 9*/ ',)6,',)* ' .)1;/0' D; /0' ., // /*.' 1-, ' > , *.' 1',)* -' 182' 2' 41.)*2' M4*2% L/+ ' N T' L/+ I' C X% <*628)/*',)*' .*,/*0' 2)6D ,62,.' 1' - 6' 12' D1,)' .0*.' 1',)*' B1-062')60' 5-172' 2'=18*-' 620' 2' 2;?D*-' 1' *2>*0C> , *.%J' 2' ,)*' 9 2501?' 1')12' 6-*' ?62 '26?*.' 1' > , *.' =-*^ .*-+*0',1',)*' =-*.*2,' 06 T 620' 2',)*' 9 2501?' 1' 5' 2' 6.)62' 8*-*' . L, ' 5-*6,' > , *.' 8 ,)' 86//.' 620' D-6[*2' D6-. J' D*. 0*.' ;286//*0' + //65*.T' 620' 6/.1' ,8*2, C,)-**' > , *.' 2' 4 /*60' 8) >)' 8*-*' 1>>;= *0' 620' =*-)6=.' =6-,/ '-*D; /,' 1-' 1-, *0' D ',-' D*.' 12',)*' >6.,' 1' B1-062' M ;?% LL ' K ' NK' NN' N T' LLL ' CN' ' KT' *;,% ' ' B' T' B1.)' L ' L T' 7 25.' +' NT' ')-12% 'KKT' .**' ;->9)6-0, '$ '=% N T' 1-,*-' ' ' R RS' K S' K R' K X% 2',)*' 8*.,' 1' B1-062' 8) /.,' N ' -1 6/J' > , *.' 6-*' *2; ?*-6^ ,*0' MB1.)' L X' 2',)*' 0 .,- >,' 6.. 52*0',1' B;06)' K

1-' 2*6-' ,)*' . ,*' (=$/ ' M * A,% +' NT' B1.) ' LL ' NQT' 25.' LL ' NT' .** */6207'=% RSSX% S% & ' 2' 6.)62' 2',)*' D6/ P,- D*' 1 ' < 626..*) ' 6', 182' 8)1.*' . ,*')6.' 21,' D**2' 6.>*-,6 2*0 ' D ; ,' 8) >)' 01 ; D,/*..' 56+*' ,.' 26?*' ,1' ,)*' 0 .,- >,' 1 ' 46 ; /12 , . ' D ' M * ; ,% +' NT' B1.) ' LL ' K T') -12% + ' T' B1.*=) ; . ' & ' +' T' .** */620' =% Q T' 1-,*-.' ' 7 ' K T' $-->9)6-0, ' $ ' =% KQSX% ()*' 4*?6-6' 21, >*.' ,)6,',)*' > , *.' 12' *6>)' . 0*' 1 ',)*' B1-062' 8*-*' 2*6-/ ' 1==1. ,*' *6>)' 1,)*-' 2' 6>>1-062>*' 8 ,)',)*' 0 -*>, 12' ,1' 0 + 0*' ,)*' /620' 2,1',)-**' =6-,.' M *;,% L L ' KT' *C /620 ' =% SSKX% <6?12 0*.' .6 .' 6//',)*' 1-, C* 5), ' *+ , >6/ > , *.')60',)*' =- + /*5*' 1 ' 6. /; ?' D ; ',)6,' ,)*' . L'-* ;5*C> , *.' 8*-*'-*_ ; -*0',1'-*>* +*' 620' /105*' ,)*')1? > 0*' 5-6,; ,1; .GE!' M 6/?*,' , ' 7 !' LLL+X% ()*' 0 -*>, 12.' -*.=*>, 25',)*' -* ;5*C> , *.' =-*.*2,' .1?*' 0 >;/, *.' 2' 2,*-=-*,6, 12% ()*' *+ , >6/ > ,^ *.' 8*-*' ,1')6+*' 6' .=6>*' 1 ' >;D ,.' M6D1 ; ,' QN 6-0.X' D* 120',)*' > , ' 86// 1-'=6.. ; -*' 620' 1,)*-' = ; -^ =1.*.% -*.*2,/ ' 6 ,*-' K ' >;D ,.' 6-*' 1-0*-*0',1' D*' ,)*' .; D ; -D' / ? ,' M ; ?% LLL+ ' ' X% ()*' .1/ ; , 12' 1 ' ,)*' 0 >;/, ' ?6 'D*' * ,)*-',)*' K ' >;D ,.' 6-*' ,1' D*' 600*0', 1',)*' ' 6.' */0.' 1 ',)*' .; D ; -D.J' M *+% LL (' N X' 6.' 6==*6-.',1')6+*' D**2',)*' >6.*' 2',)*' 5 ,' ,1' 6/*D' 8) >)' *L>/ ; 0*0',)*' > , ' 1 ' : *D-12 ' D ; ,' 2^ >/ ; 0*0',)*' ' */0.' 620' + //65*.' 1 ',)*' > , J' MB1.) ' LL ' K' 6,- >9X' 1-',)6,',)*' 600 , 126/ K ' >;D ,.' 8*-*' 6' .=*> 6/ 5 ,',1',)*' -* ;5*C> , *.' 8) /*',)*' 1,)*-' *^ + , >6/ > , *.')60' 12/ ' ' >;D ,.' 1-' .; D ; -D% 6/?*,' .; ==1.*.',)*' / 2*' 1 'K ' >;D ,.',1' D*' ?*6.; -*0' =6-6/^ /*/' 620',)*' =*-=*20 >; /6-',1',)*' > , ' 8 6 / !' 62' *L=/626, 12')18*+*-' 8) >)' .; ==1.*.' 6//',)*' > , *.',1' D*' 1',)*' .6?*' . [*' M 6/?*,' , ' 7 ' LLL+X% ' ' ? ,)' .% .

K' /6>*.' 1 '-* ;5*' 8)*-*' ; 20*-' ,)*' >1+*-' 1 '-*/ 5^ 12',)*' 5; /,E!' 620',)1' ; 2 1-, ; 26,*' ? 5),' 20' .)*/,*-' 620' =-1,*>, 12' 8*-*' 21,' ; 292182' 6?125',)*' 62> *2,')*6,)*2% ()>A &' ' 1-' - 5),' 1 ' .)*/,*-' 620' ?=; ^ 2, ' 86.' *2A1 *0' D ' >*-,6 2' =/6>*.' -*=; ,*0' .6>-*0' .; >)' 6.' 5-1+*. ',*?=/*.' 620' 6/,6-.% ( ) .' =-1,*>, +*' =18*-' >1? ?12/ ' .=-*60' ,.*/ '1+*-' 6' >12. 0*-6D/*' 0 .^ ,- >,'-1 ; 20' ,/*')1/ ' .=1, ' 620' 86.' 86,>)*0' 1+*-' 620' =-*.*-+*0' D ' .*+*-*' =*26/, *.% ?125',)*' 4-*'9.' 620' 1?62.',)*' 2 ; ?D*-' 1 ',)*.*' =/6>*.' 1 '6. /; ?' D*^ >6?*' 2', ?*' +*- '5-*6, '620' /*0' D ' 6D ; .*' ,1' 6' -*.)' 2>-*6.*' 1 '>- ? 26/.' M(6> ,; .' & ! ' S ' SNX% (^ D*- ; .' 2' >12.*_ ; *2>*7 >6 ; .*0' 6' .1/*?2' 2_ ; -E' 2,1' ,)*-' * *>,.',1' D*' ?60*' 8) >)' -*.; /,*0' 2' 6' 0 ? 2 ; ^ , 12' 1 ',)*' -' 2 ; ?D*-' 620' 6' / ? ,6, 12' 1 ',)*-' =- + ^ /*5*.' M ; *,12 ; .' - ' N ' >1?=6-*0' 8 ,)' -2>., ' 6 9 ' '"!' %T 7./620*-' ' ' & ' ? ' 2' 4-1C 21+% -+1 !',% + X% 2',)1' =1>- =)6' MK' <6>>% + ' NNX ?*2, 12' .' ?60*' 1 '6' >, ')6+ 25',)*' A ; .' 6. / ' ' 2 C 6.' 8 ,)0-*8') ?.*/' 2,1' 6' .62>, ; 6- ' 6,' 6=)2*',)6,' / *,)' D ' 2, 1*D 6% J' ()*',*?=/*' 1 ' 626' 6,' =)*.:,' M >,.' L L ' K X' 86.' 6/.1' 6')*6,)*2' 6. /; ?' 8)1.*=- +^ /*5*.' 2' ,) .' -*.=*>,' 2>-*6.*0' 8 ,)',)*' =-15-*..' 1 ' , ?*%

() .' =6562' >; .,1?' =6..*0' 2,1')- ., 62, ' .' *6-/ ' 6.' 12.,62, 2*',)*' 4-*6, ')- ., 62' >); ->)*.' 8*-*' 6. /; ?.' 1-',)*' ; 2 1-, ; 26,*' =*-.12.' 8)1?' 62' 1 ; ,-65*0' /68' 1-' =18*- ; /*2*? *.' =; -. ; *0' M ? ,) .' 4 DD12' >% LLX% ()*'101. ; .' 2' N ' *L,*20*0',) .' =- + /*5*' ,1',)*')1 ; .*.' 56-0*2.' 620' 1,)*-' =/6>*.' 8) >)' 8*-*' ; 20*-',)*A ; -.0>, 12' 1 ',)*>) ; ->)*.' 620',)*. 210' 1 ' (1/*01' 2' SQ ' 8 0*2*0',)*-' 5), ' 1 ' 6. ^ /; ?', 1',) -, ' =6>*.' -1?' *6>)' >) ; ->)% 2>*',)*2' ,) .' *>>/*. 6., >6/ =- + /*5*' =-*+6 /*0' 2',)*' 8)1/*' 1 ' 6,)1/ >')- .,*201?' 620' 86.' =-*.*-+*0' ; 20 ? 2 .)^ *0' 6,'/*6.,' 2' ,6/ ' .1' /125' 6.',)*' =6=6/ 20*=*20*2>*' -*?6 2 0' M : 6//6? .' ' & ' >% L ' =,% X' ()*' - 5),' 6>,*0' D*2* >6// ' 2' 65*.' 8)*2' + 1/*2>*' 620' -*^ +*25*' =-*01? 26,*0' 620' L*0')6D ,6, 12.' 8*-*' /*6.' >1? ?12',)62' 218' D ; ,' ,.',*20*2> ',1',-62. *-'=18*-' -1?',)*' ?65 .,-6,*',1',)*=- *.,)110' 86.' 2A ; - 1 ; .',1' ,)*' 2+ 1/6D / ,' 1 '/68' 620',)*' .,*60 ' 60? 2 .,-6, 12' 1 ' A ; ., >*% ,')6.' 6>>1-0 25/ ' 2' -*>*2,' , ?*.' D**2

6D-156,*0' D ' ?1.,' 51+*-2?*2,.' I*, = 2' " ' .% %X% 3

N% ?125,)*' B*8 . ',)*' >, *.' 1 '-* ;5*J' D1-*' .1?*' -*.*?D/62>*',1',)*' 6. /; ?' 1 ',)*' >/6.. > 26, 12 D ; ' 8*-*')6== / ' *L*?=,' -1?',)*' *+ / >12.*_ ; *2>*.' ,1' 8) >)' -* *-*2>*')6.' D**2' ?60*' 620' 6 1-0' *+**2',1' ,)*' =-*.*2,' 06 '21' ?*62' =-11 '1 ',)*' .; =*- 1-' 8 .01?' 620' D*2 5262,' .= - ,' 1 ',)*' B*8 .)' /68.% ()*' 2., ^ ,; , 12' 86.' -6?*0' 8 ,)' 6' + *8',1' 6D6,*',)*' *+ /.' 8) >)' *2. ; *0' -1?',)*' 1/0C*. ,6D/ .)*0' - 5),.' 1 ',)*' D/110C' ?69*' 6' > , ' 1 '-* ; 5*' *6. '1 '6>>*..' -1?' 6// =6-,.' 1 ' ; -,)*-',)*' =-*+6/*2>*' 2',)*' 26, 12' 1 '6' ? /0' 5*2,/*' 620' 1-5 + 25' .= - ,% 2' 2.=*>, 12' 1 ',)*' ?6=' 8 // .)18')18' 8 .*/' ',)*.*' =/6>*.' 8*-*' >)1.*2' .1' 6.',1' ?69*' 6' > , ' 1 '-* ; 5*' *6. '1 '6>>*..' -1?' 6// =6-,.' 1 ',)*' /620% (1' 62 '12*' 1 ',)*.*' > , *.' 6' =*-._2' 8)1')60' ; 2686-*.' 620' ; 2 2,*2, 126// ' ./6 2' 62 ' 12*' ? 5),' /**' 620' ')*' -*6>)*0' ,' D* 1-*')*' 86.' 1+*-,69*2' D ',)*' 6+*25*-' 1 ' D/110' D*' 86.' .6 *' 8 ,)2',.' .)*/,*-' =-1+ 0*0')1' 0 0' 21,' -*271+*' ?1-*',)62' 6',)1; .620' 6-0.' -1?',.' > ->; ,' 21-'_; ',)*' -* ;5*', /// ,)*' 0*^ >*6.*' 1 ',)*') 5) C=- *.,' ; 20*-' 8) 1?',)*') 1? > 0*') 60' ,69*2' =/6>*% ')18*+*-')*' ,-62.5-*.. *0',)*.*' =-1^ + . 12. ',)1' 6+*25*-' ? 5),' /68 ; // ' =; ,') ?',1' 0*6,)% ()*' -160.' /*60 25',1',)*' > , *.' 1 '-* ;5*' 8*-*' ,1' D-' 9*=,' 2' 5110' -*=6-% * 1-*')18*+*-',A*' ;5 , +*' >1; /0' 6+6 /') ?.*/' 1 ',)*' .)*/,*-' >12>*0*0' D ',)*' /68.')*' 86.',1' ; 20*-51' 6' .1/*?2' ,- 6/' 620' ?69*' ,' 6==*6-',1',)*' .6, . 6>, 12' 1 ',)*' %?65 .,-6,*.' 1 ',)*' =/6>*' 8)*-*',)*')1? > 0*' 86.' >1? ? ,,*0',)6,' ,' 86.' =; -*/ ' 6>> 0*2,6/%)1; /0')*') 18*+*-' D*' 1; 20',1')6+*' D**2' 5; /, ' 1 ' ? ; -0*-')*' 86.' 0*/ +*-*0' ' 2,1' ,)*')620' 1 ',)*' 6+*25*-' 1 ' D/110',)6,')*' ? 5),' 0 %J ()*' D*2* ,' 1 ',)*' =-1,*>, 12' 6 1-0*0' 86.' >1? ?12' 1' .,-625*-.' 620' .1A1 ; -2*-.' 8 ,)' 26, +*' .-6*/ ,.*

>>1-0 25',1',)*' 6DD 2.' 2' 1-0*-',1' 5 +*',)*' ; 5 ^ , +*' 6// =1.. D/*' 60+62,65*' 2') .' / 5),' ,' 86.',)*' D ; . 2*.' 1 ',)*' 62)*0- ?',1' ?69*',)*' -160.',)6,'/*0' ,1',)*' > , *.' 1 '-* ; 5*' >12+*2 *2,' D ' *2/6-5 25',)*?' 620' -*?1+ 25' *+*- ' 1D.,-; >, 12',)6,' ? 5),') ; -,') .' 11,' 1-') 20*-') .' .=**0% 1') //1>9' 86.'/* ,' 21' - +*-' 86.' 6//18*0' 1+*-' 8) >)' ,)*-*' 86.' 21,' 6' D- 05*' 620',)*' -160' 86.' 6,'/*6.',81C620C,) -, ' >; D ,.' D-160% ' *+*- ' ,; -2 25',)*-*' 8*-*' =1.,' *-*>,*0' D*6- 25',)*' 81-0.' D ' 6 ' ,1' 5; 0*',)*' ; 2)6== ' ?62' 2') .' / 5),' 620',81' .,; 0*2,.' 2',)*' /68' 8*-*' 6==1 2,^ *0',1' 6>>1?=62 ') ?',)6,' ',)*' 6+*25*-' .)1; /0' 1+*-^ ,69*') ?' D* 1-*' D*' -*6>)*0',)*' > , ' ,)*' ' ? 5),' 6,^ ,*?=,',1' =6> ') ?',//',)*' /*56/' 2+*., 56, 12' >1; /0' ,69*' =/6>*% &)*2' 12>*' .*,,/*0' 2',)*' > , ' 1 '-* ;5*' ,)*' ?62./6 *-')60' 6' >12+*2 *2,')6D ,6, 12' 6.. 52*0') ?' 5-6,; ,1; ./ ' 620',)*' > , [*2.' 8*-*',1',*6>)') ?' .1?*',-60*' 8)*-*D ')*' ? 5),' .; ==1-,') ?.*/% (1' -*20*-') .' >12 2*?*2,' ?1-*' *6. ',)*' ?1,)*-.' 1 ',)*') 5) C=- *.,' ; .*0',1' **0' 620' >/1,)*',)*-' ; 2 1-, ; 26,*' ;5 , +*. ',)6,',)*' ? 5),' 21,' D*' ?=6, *2,' 620' =-6 ' 1-',)*' 0*6,)' 1 ',)*' -' .12.' 12' 8)1.*' 0*>*6.*',)*' 8*-*' -*.,1-*0',1',)*' -' / D*-, ' 620',)*' -' =-1=*-, % ',)*' ./6 *-' 0 *0' 2',)*' > , '1 '-* ; 5*' D*' 1-*')*' 86.' -*/*6.*0') .' D12*.' 8*-*' 0*/ +*-*0',1') .' -*/6, 12.' 6 ,*-' ,)*' 0*6,)' 1 ',)*') 5) C=- *.,' ,1' D*' D ; - *0' 2',)*' .*=; />)-*' 1 ') .' 6,)*-.' M *8 .' ,' '# 8! ' ,7*')1?^ 0*' >1? ? ,*0' D' ?=, 2*' ?2,' ?1-*' *6. ',)*' ?1,)*-.' 1 ',)*' 8620*-' -1?' > , ' ,1' > , % 2' 0*6' =-*+6 /*0' ,)6,' 8)*2' ,)*' <*.. 6)' >6?*' ,)-*' ?1-*' > , *.' 81; /0' /C* 600*0 ' 6' ? . 2,*-=-*,6, 12' 6.' ,' .**?. ' 1 ' *; % L L ' Q' R M 5/,, 11, ' ! + ' >/ ' K QX% B*-; .6/*?' ,1' .1?*' *L,*2, ' =1.. *..*0',)*' =- + /*5*' 1 ' 6. /; ?' ; 20*-' . ? /6-' -*.,- >, 12. ' 6' =- + /*5*' 6>>1-0*0',1') ?* ' D ; ,' 1- * ,*0' D ') ?' M ' 25.' ' NS' SX%

()6,',)*' - 5),' 1 ' 6. /; ?' 6?125',)*' B*8.' 86.' 2' /6,*-' =*- 10.' 1 ',)*' -') .,1- ' .1' *L,*20*0' 6.',1' 1=*2' ,)*' 011-',1' 5-*6,' 6D ; .*.' ?6 ' D*' 2 *--*0' -1?' ' <6>>% d' N' 8)*-*' ; 2_ ; 6/ *0' ?=; 2 , ' 620' *L*?=, 12' -1?' D1,)' / 6D / , *.' 620' =*26/, *.' 6-*' =-1? .*0' ; 20*-',)*' 2 /; *2>*' 21,' 1 ',)*' <1.6 >/68' D ; ,' 1 ')*6,)*2' ?1-6/.

620' 6?D , 12 ',1' 8)1.1*+*-' ,)* ' D*' ,)6,' /*** ;2,1' ,)*' (*?=/*' 6,' B*-; .6/*? ' 1-' D*' 8 ,) 2' ,)*' / D*-, *.' ,)*-*1 %J' 2',)*' 81-0.' 218' > ,*0' -* *-*2>*' 6==*6-.' ,1' D*' ?60*' ,1' 6' >; .,1?' 8) >)' =-*+6 /*0' -1?' +*- ' *6-/ ', ?*. ' D1,)' 6?125',)*' >)1.*2' =*1=/*' 620',)*' 26^ , 12.' 1 ',)*' 81-/0' 1 ' /** 25 ' 2' >6.*' 1 '=*-.126/ 062^ 5*-' ,1' ,)*' 6/,6-% & ,)' ,)*' B*8. ' ,' 86.' >; .,1?6- ' 1-' ,)*' ;5 , +*' ,1' /6 ')1/0' 1 ',)D')1-2.' 1 ',)*' 6/,6-' 8)*,)*-' 2',)*',6D*-26>/*' 1-' (*?=/*' D ' 8) >)')'18^ *+*-' .)*/,*-' 620' .*>; - , ' 8*-*' 1D,6 2*0' 12/ ' 1-',)1.*' 8)1')60' >1?? ,,*0' . 2.' 1 ' 521-62>*' 1-' 260+*-,*2>*' M L10%LL ' T' ' 25.' 'S T' 'KQX% -1?',)*' /6.,' ,81' =6..65*. ' ,' .**?.',)6,',,6,*' >- ? 26/.'6/.1' .1;5),' ,)*' =-1,*>, 12' 1 ',)*' 6/,6-' =-1D6D/ ' ?1-*' -1?',)*' 1->*' 1 '>;.,1?',)62' 62 '*L=-*..'/68% ()* -' .6 *, ')18*+*-' 0*=*20*0' 12',)*' 8 // 1 ',)*' B. 25' 1-' 2',)*' =6..65*.'-* *--*0',1' ,'6==*6-.',)6,' 2' 12*' >6.*' M,)6,'1 ' 012 A6)X' / *' 86.' .=6-*0' D ;' 2',)*' 1,)*-' M,)6,' 1 ' B16DX' ,' 86.',69*2'686 '*+*2' D ',)*' 6/,6- J' 1?^ =6-*' <6,,' LL 'N % ' ,,1' .'+%' . ? /6-' 2..62>*' .' 1;20' 2' 4-*> 62') .,1-' 2',)*' >6.*' 1 ' 6; .62 6. ' 8)1' /*0' -1?',)*' =1=;/6>*' 2>*2.*0' 12' 6>>1;2,'1 ') .' =;D/ >',-*6>)*- ',1',)*',*?=/*' 1 ' < 2*-+6 ' 8)*-*')1' 86.' .,6-+*0',1' 0*6,)' D '1-0*-' 1 ',)*' =D1- ' D ' D/1>9^ 25' ;=',)*' *2,-62>*' 620',69 25' 1 ',)*' -11 'M>1?=6-*' ? ,) .' ' ' !'& 4!' .%+%' . /;?X% ** #L $!' =

#' ' A! ' 6' .*>, 12' 2',)*' .1;,)*-2' =6-,' 1 ' B*-; .6/*? ' *?D-6> 25' <1;2,' U 12 ' 8)*-*' 6' 1-,-*..' 1 ',)*' B*D; . ,*.' .,110% ** ($ ' 6+ 0' -*0;>*0' ,)*' 1-,-*..' 620'D; /,' 6' 2*8' =6/6>*' 620' > , ',1%8) >)')*' 56+*') .' 182' 26?*' M ')-12% L ' X% *,)/*)*?' ,)*' 26, +*',182' 1' 6+ 0' .' 6/.1'>6//*0' -1?',)6,'>-^ >; ?.,62>*',)*' >, '1' 6+ 0' M ;9*' ' X%

#' ' & '12*' 1',)*' 26?*.' 1 '62> *2,' B*-; .6^ /*?' M .6% L/+ ' X' 620' ,.' 6==-1=- 6,*2*..' .' *+ 0*2,' -1?' *;,% L ' %

% #' #! ()* .6>-*02*..' 1 ',)*' (*?=/*'%*L^ ,*20*0' ,.*/' 2' .1?*' ?*6.;-*' 1+*-',)*' > , '620')*2>*' B*-; .6/*?' ,.*/' 86.' >6//*0' ,)*' # ' ' 620' .' .1' 0 ., 25; .)*0' 2',)*' 6.,'6,',)*' =-*.*2,'06A7M *)% L ' T' 62% L ' K X% ** ($

) ' #! **) !

#' ' + 4 ! ** ? 4% S?!

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#' ' !' ** ? 4% ' !

0 $ 4 #' M 2',)*' =/;-%

% (11' 1 ' ' 25.' L ' RX% ,)1?' 620' 66?.*.' M %+%X' 6-*' ?*2, 12*0' 2' L10%' ' ' 6.' ,-*6.;-*C; , *.' D; /,' D ')6-61)' D ',)*' ;2=6 0' /6D1-' 1 ',)*' :*D-*8 .!,)*' 8*-*' =-1D6D/ ' ?656[2*.' 1-' 0*^ =1,.' 1-',)*' -1 6/ -*+*2;*' M8) >)' 86.' 01;D,/*..' =6 0' 2' 9 20X' .;>)' 6.' 6-*' 2, ?6,*0' 2' 4*2% L/ ' QT' .*>' L/+ ' KS% ()*' B*8 .)' 9 25.')60' . ? /6-' =/6>*.' 1 ' =;D/ >' 0*=1. ',MK')-12% + ' ' ST' L+ ' T' L+ ' KX% ** 0 $!

+ /' 0? 2 .,-6, 12' ' ' ' % ' *>' & ' : ' ' ' % 3!

/65*,,' " ' % %'6' 0 + 2*' 1 ',)*');->)' 1 ' 25/620' 86.' D1-2' 6,' ,% 0?;20.D;- ' ; 1/9' S ST' *2,*-*0' ??62;*/ 1//*5*' 6?D- 05*' S RT' 620' ,119').' 0*5-**.',)*-*',)*' 26/ 12*' 1 ' % % 2' SQN% ,*-' =-*6>) 25'.*+*2' *6-.' 2').' 26, +*',182')*' D*>6?*'=-*6>)*-' 1 ' 4-6 .' 22 ' 12012 '620' -*>,1-' 1 ' 6-2)6?' 1 6/' 2' SQN% : *' 0 *0' <6->)' KQ SQQ% ?125').' 8- , 25.' 6-*' &' ' '

,)*' 26?*' 1 ' ;2.' 1 ',)*' ,- >,' D.*-+62>* J' 1,)*-.' ,)6,' 1 ' 1/ ,6- *.' 1 ' ,)*' 2., ,; , 12' 1 ' ,% *,*-' 1 ' />62,6-6%J' ,*-' 1-,*[')60' >12_;*-*0' < *L >1 ' .6^ D*//6' 1 ' 1-,;56/' 8 *' 1)6-/*.' ' .*2',) ,)*-' .1?*' 2;2.' ',)*' 1-0*-' 1 ' ,% /6-6 ' 8)1' ?60*' .*+*-6/ .*,,/*^ ?*2,.' ,/ *-*% *6-' ,)* -' ?126.,*- *.' 8*-*' 1;20*0' >1?? ;2 , *.' 1 ' 20 62' 1;25' 81?*2 ',1' D*' 2.-,-;>,*0' D ',)*' /6- ..*.' 2' -*/ 5 12 ' 620' . ;>)' 81-9.' 6.' 8*-*' .; ,6D/*' ,1' =*-.12.' 1 ',)* -' .*L% &)*2' 1=*' $-D62' ' ? , 56,*0' ,)*' 1- 5 26/ -;/*' ,)1.*' 8)1' 601=,*0' ,)*' ? , 56,*0' ?/*' 8*-*' >6//*0' $-D62 ..' 8) /*' ,)*' 26?*' 1 ' /6- ..*.'-*?6 2*0',1',)1.*' 8)1' 60)*-*0',1',)*' 1- 5^ 26/ -;/*% ' ., // ..,- >,*-' -;/*' 86.' 1D.*-+*0' D ',)*' '$!' 1' 1;20*0' D ' ,% 1/*,,*' 8)1' 0 *0' 2' ' 8) >)' 86.' 656 2' .;-=6..*0' 2' 6;..*- , ' D ',)*' 0 .>6/>*6,*' 125-*56, 12' 1 ',)*' ,- >,*.,' D^ .*-+62>* 1;20*0' 2' SN ' 2' ,6/ '620',)*' : *-? ,*..C' *.' 1 ' ,% *,*-' 1 ' />62,6-6'M1-' />62,6- 2*.X' 1;20*0' 2' S S% >>1-0 25',1',)*' .,6, .,>.' 1 ' QSK' >12+*2,.' 8*-*' 1;20' 2' ,6/ ' -62>*' ' ;.,- 6 ' 6+6- 6 ' 8 ,[^ *-/620 ' 1/620 ' */5 ; ?' : 1//620 ' 25/620 ' >1,/620 ' =6 2 ' -;.. 6 ' -*/620%6,' <6>61' 620' < 62 //6' 2' . 6' 2' < *L >1 ' 620' 2' *2,-6/ 620' 1;,)' ?*- >6% ()*' 2; ?D*-' 1 ' ?*?D*-.' 86.' 6D1;,' S % ' *)-' ? " " ' ' " 1' ' S'._% **' ' ' ! /6-*2D6>)% **'#

/6-*2012' 12., ,;, 12.' S % ' .,-;55/*' D*,8**2',)*' >-182' 620',)*')*-6->) ' 2' 25/620' D*^ 562' 8 ,)',)*' */*+6, 12' 1 '()1?6.' *>9*,',1',)*' 6-C' >) *= .>1=6/ >)6 -' MB;2*' SKX% ()*' =1?=0/1+ 25' >1;-, *-' D-6+*' 86-- 1-' 620' =18*- ;/ .,6,*.?62',)*' 6+1- ,*' 620' >12 062,' 1 ' : *2- ' ')60' D*>1?*' 6' .*^ +*-*' 6.>*, >' 6' [*6/1;.') *-6->)' 620',)*' 1==12*2,' 1 ',)*' 9 25' ,',)*' >1;2> /)*/0' D ' /*L620*-' ' 2' <6 ' SN' 6,' (1;-. ' *>9*,' 8 ,)' 1,)*-' 25/ .)' =-*/^ 6,*.' 6==*6-*0' 620' 86.' -*>* +*0' 8 ,)' 0 .,2>, 12' D ' ,)*' =1=*% .' .112' 6.')*' -*,;-2*0')*' 6,,*?=,*0',1' *L*>;,*',)*-.1/;, 12.' 1 ',)*' >1;2> / 2') .' =-1+ 2>*% : *' >/6 ?*0' >*-,6 2' =1..*.. 12.' 8) >)' 6.')*' 6..*-,*0')60' D*** 2' /125' 6/ *26,*0' -1?' ,)*' .**' 1 ' 62,*-D;- ' 620' =-1,*.,*0' 656 2.,' ,)*' /*+ ' 1 ' 6' ;2 +*-.6/ ,6L' 12' -*6/ *.,6,*' 8)>)',)*' 9 25' 0*?620*0' 1-' .,6,*' =;-=1^ .*.% () .' 6/-*60 ')60' 1>>6. 12*0' 6' >12,*.,' 8 ,)',)*' 9 25 ' 620' 6' D-*6>)' 86.' 6/?1..' * *>,*0' 6,',)*' ?=*- 6/ *,' 2' & *.,? 2.,*-' >6//*0' D ',D*' 9 25',1' -* 1-?',)*' 6D;.*.' 1 ',)*' *>>/*. 6.,>6/ >1;-,. ' 8) >)' 8*-*' ?60*' 26>>*.. D/*' ,1',)*' 6-?' 1 'A;.,>*% 6.*.' 1 ',) .' 9 20' D60' 1 ,*2' 1>>;--*0' 8 ,) 2' 6' *8' *6-.' 620',)*' 6->)^ D .)1=' 218' 656 2' 1==1.*0' ,)*' 0*?620.' 1 ',)*' 9 25' 620',)*' D6-12.' 8) /*' 6/?1.,' 6// ,)*' D .)1=.' 62. 8*-*0' 2',)*' 6 -?6, +*',1',)*' _;*., 12' 1 ',)*' 9 25' ',)*' 81;/0' ;-.,)*-' .;==1-',)*' I 1/0' >;.,1?.' 1 ',)*' 9 25^ 01?' J' D;,' 8 ,)',)*' 600 , 12' 1 ',)*' 0625*-1;.' >/6;.*' D .)1=.' 620' 1,)*-.') 5)' 2' 1 >*' =*-)6=.' 6/.1' ;20*-' 60?12 , 12.' -1?' ,)*' =1=*' *>9*,' 6/.1' */0*0' 6,' /*25,,)%

(1'-6, ',)*' >12>*.. 12.' ?60*' D ',D*' D .)1=.' 8 ,)' 0;*' .1/*?2 , ' 620' 2' 5*2*-6/',1' .*.,/*' ,)*' =1 2,.' 6,' ..;' D*,8**2');->)' 620' >-182' ,)*' 9 25' 2' B62;6^ - ' S ' .;?? 12*0' 62' 6..*?D/ ' 1 '=-*/6,*.' 620' D6-^ 12.'6,' /6-*2012' 6' -1A 6/.;?? *-*.*' 0*2>*' 2*6-' 6/ .^ D;-% ()*' 6,,*2062>*' 86.' /6-5*% *>9*,' 6==*6-*0' D;' 12/ ',1' -*+19*',)*' >12>*.. 12.')*')60' ?60*' 620',1' 0*>/6-*',)*?',-*6.12',1',)*' 26/ *26D/*- 5),.' 1 ',)*');->)% ;.' 6,' /6..' 1+*-8)*/?*0' D ' =-6 *-.' 620',)-*6,.' **9*,' 12>*' ?1-*' =/*05*0') .' =- *../ ' 81-0',1' .;==1-,' 6 ,) ;// ',)*' 62> *2,' >;..,1?.% ()*' >12 *-^ *2>*.' 8*-*' .112' *20*0% ()*-'-*. ;/..' 8*-*',)*' 9 1' 1-' 6.',)*' 6 ' ;' 2;1' 2' . L,**2'>)6=,*-.',)*'>12,*2,.'1'8) >)'6-*' .;D.,62, 6// ',)*' 1//18 25' M8 ,)',)*' A;05?*2,' 1 ',)*' =1=*' ;=12',)*?'6==*20*0' 2' ,6/ >.Xa' % .=:,*.'>12^ >*-2 25',)*-5),'1 '=6,-1265*' D*,8**2' /6 ?*2' 1-' D*^ ,8**2' >/*-5A7?*2 620' /6 ?*2' 1-' D*,8**2' >/*-5 ?*2' 12/ ' .)6// D*' 0 .>;..*0' 62M8' .*.,/*0' 6,',)*' >1;-,' 1 ',)*

9 25% I " ' " % % !8' K%);->)*.' D*/125 25' ,1',)*' 9 25 .' 0' >6221,' D*' 5 +*2' =*-?62*2,/ ' 686 ' 8 ,)1;',) .' >12.*2,% I- !8' N% /*-5A(2*2' 6>^ >;.*0' 1 '62 '>- ?*' ?;.,' ;=12' 6' .;??12.' -1?'6'-1 6/ A;05*' 6==*6-' 6,',)*' 9 25 .' >1;-,' 8)*-*' ,' 8 // D*' 0*^ >0*0' 8)*,)*-',)*' ?6,,*-' .',1' D*')620*0' 1+*-',1' 6' > + / 1-' *>>/*. 6.,>6/ >1;-,' ?6,,*-' .',1' D*' =-*.*2,' 6,',)*',- 6/% ' ,)*' 6>>;.*0' .' 1;20' 5;/, '1-' >12 *..*.',D*');->)' .)6// 21,' ;-,)*-'=-1,*>,') ?% I !8' % ->)^ D .)1=.' D .)1=.' 1-') 5)' 1 > 6/.' 1 ',)*' 9 2501?' .)6// 21,'/*6+*',)*' 9 2501?' 8 ,)1;',)*' 9 25 .' =*-? .. 12' 620' *+*2' 2' >6.*' 1 ' =*-? .. 12' ? ;..' 5 +*' .*>;-, ' ,)6,' 12' ,)*-' A1;-2* ')* ' 8 // ;20*-,69*' 21,) 25',1' ,)*' 0 .60+62,65*' 1 ',)*' 9 25' 1-' ,)*' 9 2501*/*6-% I 9 !8' % L>1??;2 >6,*0' =*-.12.' 2**0' 21,' 5 +*' D120.' ,1' -*?6 2' 8)*-*' ,)* ' 6-*' 21-' ,1' =-1? .*' D ' 16,)',1' 01' .1' D;,' 12/ ',1' 5 +*' D120.' 1-' 6' =/*05*' ,1' 6D 0*' D ',)*' 0*> . 12' 1',)*');->)',)6,',)* ' ?6X' D*' 6D.1/+*0% I !8' S% 6 ?*2'>62' 12/ ' D*' 6>^ >;.*0' D ',-;.,81-,) ' 620' /*5 , ?6,*' 8 ,2*..*.' 2',)*' =-*.*2>*' 1 ',)*' D .)1=' *.' .1',)6,',)*' 6->)0*6>12' 01*.' 21,' /1.*') .' - 5),% 2' >6.*.' 8)*-*' 21' 12*' 6==*6-.' 6.',)*' 6>>;.*-',)*' .)*- '6',)*' >1?620' 1',)*' D .)1=' .',1' 6..*?D/*',8*/+*' -*.=*>,6D/*' ?*2' -1?',)*' 2* 5)^ D1-)110' 8)1' 6-*',1' .8*6-' D* 1-*',)*' D .)1=',1',*// ',)*' ,-;,)*' 6>>1-0 25',1',)*' -' D*.,' ;20*-.,620 25% I- 9 !8' % 6..6/.' 1 ',D*' >-182' 620',)*' 1 >*-.'1 ',)*' -');1;.*)1/0.' .)6// 21,' D*' *L>1??;2 >6,*0' 21-' ,)*' -' /620.' /6 0' ;20*-' 2,*-0 >,' 8 ,)1;,' =-*+ 1;.' 21, >*' ,1',)*' 9 25' 1-') .' A;05*.',)*' ' ?6 ' 0*>0*' ',)*' >6.*' .' ,1' D*')620*0' 1+*-',1' 6' > + / 1-' *>>/*. 6.,>6/ ,- D;26/% I 1' Q% ==*6/.' 6-*' ,1' D*' ?60*' -1?',)*' 6->)0*6>12',1',)*' D .)1=' -1?',)*' D .)1=',1',)*' 6->)D .)1=' 620' -1?',)*' ?',1',)*' 9 25' ;=12' 8)1.*1' >1?? 620',)*' ?6,,*-' .)6// ,)*2' D*' .*.,/*0' 2',)*' 6->)C *= .>1=6/ >1;-,' 1 'A;.,>*% 1' ;-,)*-' 6==*6/ 6//18*0' 8 ,)1;',)*' 9 25 .' /*6+*% I 1' R% 2' >6.*' 1 '62 '0 .=:,*' D*,8**2' 6' /6A7?62' 620' >/*-5 ?62' >12^ >*-2 25' 6',*2*?*2,' 8)>)',)*' /6,,*-' 0*>/6-*.',1' D*' 6% /6 ' **' ' ,'=-1+*' ;=12',-6/ D* 1-*',8*/+*' -*.=*>,6D/*' ?*2',1' D*' 6' **i' 620' 21,' 62' *>>/*. 6.,>6/ **' ,)*>6;.*',1' D*' 26// ' ,-*0' 2' ,)*' 9 25 .' >1;-,' ;2/*.' D1,)'>/6 ?',*2;-*' ;20*-',)*' .6?*' D .)1=' 1-' D6-12' 2' 8)>)'>6.*',)*=/*6'.)6// D*' 2' .'>1;-,% I !8 % '62 '12*' D*/125 25',1' 6'-1 6/'>1;-,'1-'0*?*.2*' .' .;?? 12*0' D '62' 6->)0*6>12' 1-' 6' D .)1=' 12' 6>>1;2,' 1' .1?*' ? .0*?*621-' 1-' 8) >)') *' .' 6?*26D/*' ,1',)*?' 620') *' 6==*6-' 21,') *' ?6 ' D*' =;,' ;20*-' 62' 2^ ,*-0 >,' D;,' ;20*-',)*' D62' 12/ ' 6 ,*-' 6'=-*+ 1;.' 21, ^ >6, 12' 1 ',)*' -1 6/ 1 ' >6/ 1 ',)*' =/6>*' 620' 6 ,*-' ,)*' /6,,*-')6.' +6 2/ ' 6,,*?=,*0',1' 20;>*' ,)*' 6>>;.*0',1' 5 +*',)*');->)'.6, . 6>, 12% M 120*?2*0%X % ->)^ D .)1=.' D .)1=.' 620' +6..6/.' 1 ',)*' >-182' ?;.,' 6.')0*>/*.' 1 ' -1 6/ *.' D2*' 1-*',)*' A;05*.' 620' 1 >*-.' 1 ',)*' 9 25' 620' =-*.*-+*' 6//',)*'=- + /*5*.' 620' >;.,1?.' 1 ',)*' >-182C *' 620' D*' =-*.*2,' 6/.1' / 9*',)*' 1,)*-' D6-12.' 6,',)*' =-1>**0 25.' 1 ',)*' -1 6/ >1;-,' 1 ' A;.,>*' *L>*=,' 6,' >6= ,6/',-6/.' M (1/*-6,*0 X K% 2' >6.*' 1 '6' +6>62> ' 1 '62' 6->)D .)1=- >' D .)1=- >' 62' 6D^ D* '1-'6'=- 1-6,*',)*-*'+*2;*.')6// 6>>-;*',1',)*' 9 25% ',)*' -*6==1 2,?*2,',)*' 9 25' .)6// 6..*?D/*',)*' *>^ >/*. 6.,>6/ 0 52 ,6-*.'!',)*' */*>, 12' .)6// ,69*',)*' =/6>*' 620' 2',)*' -1 6/ >)6=*/' 8 ,)',)*' 9 25 .' >12.*2,' 620',)*' 60+ >*' 1 ',)*' 5-620**.' 1 ',)*' 9 2501?' 6..*?D/*0' D ') ?% 2',)*' .6?*' =/6>*',)*' */*>,' .)6// 8) /*' =-*.*-+^ 25') .' *>>(*. 6.,>6/ .,6,*' ,69*',)*' 1' *6/ ',1',)*' 9 25') .' *;06/' /1-0' D* 1-*' ,)*' .' >12.*>-6,*0% M 1(0*?27X N% ' 62 ' D6-12' 1-' ,*262,' 2' >6= * 71;/0'*2>-16>)';=12',)*' -5),.' 1-' =-1=*-,A7' 1 '6' =7/C 6,*',)*' 9 25' .)6// .**' A;.,>*' 620' 62 12** *2^ >-16>)';=12',)*' =1..*.. 127' 1 ',)*' 9 25',)*' =-*/6,*.' .)6// ,-*6,' 8 ,)',)6,' =*-.12',)6,')*' ?6 '5 +* .6, . 6>^ ,12% I- S8' % 1- *,*0'=1..*.. 12.',)*');->)' 6,*',)*' 21,'-* ;.*',1' ?69*' 1+*-',1',)*' 9 25' 6.' .;>)' D*^ /125',1') ?' 8)*),)*-',)*' D*' 2. 0*' 1-' 1;,. 0*' 1',)*');->)' I- 8' '/*6.' 1 ' 0*D,' 6-*' ,1' D*

?60*’ 2’ ,)*’ 9 25 .’ >1; -, ’(8)*,)*-’ 0 ; *’ ;=12’ >12, -6>,’ 1-’ 21,%’ I !(8 S% 12.’ 1 ’ =*6.62,.’ >6221,’ D*’ 1-06 2*0’ 8 ,)1 ;,’ ,)*’ >12.*2,’ 1 ’ ,)* -’ *; 06/ /1-0.% I-(!(8

( )*’) 5)’ ?=1-,62>*’ 1 ’ ,)*.*’ 0*>-**.’ 1 ’ ,)*’ *,’ 1-’ ,)1.*’ , ?*. ’ .’ +*-A ’ 1D+ 1 ; .% 2’ ,)*’ 12*’)620 ’ ,)*’ 9 25’ 2,*20*0’ D ’ ,)*?’ ,1’ = 69*’ ,)*’ 0 52 ,6- *.’ 1 ’ ,)*’) ;->)’ 6.’ 0*=*20*2’ ; =12’ ,)*’ >-182’ 6.’ ,)*’ D6-^ 12.’ 620’ 21,’ 12/ ’ ,1’ = ; ,’ 6’ / ? ’ ,1’ ,)*’ -’ A ; - .0 >, 12’ D ; ’ 6/.1’ ,1’ .*>;-*’ ,)*’ */*>, 12’ 620’ 2+*.’ , ; -*’ 1 ’ ,)*’ =-*/6,*.’ 620’ D ’/ ? ,6, 12.’ 1 ’ ,)*’ 6==*6/.’ ,1’ ,)*’ =1=*’ ,1’ =-*.*-+*’) .’ 182’ =6-6?1 ; 2,’ - 5), .% 2’ ,)*’ 1,)*-’)620 ’) .’ 6 ?’ 86.’ ,1’ = ; ’ ,)*’ *L*-> .*’ 1 ’A ; .. >*’ ; =12’ 6’ . ; -*’ 11, 25’ D ’ . ; DA*>, 25’ ,)*’ 8)1/*’ >/*-5A’ ,1’ ,)*’ >1?12’ /68’ 1 ’ ,)*’ >1 ; 2,- % ( )*’ 12.. , ; , . 12.’ >12^ ,6 2’ ,)*’ 5*-?.’ 1 ’ ,)*’) 5)/ ’ ?=1-,62, ’ 2.. , ; , 12’ 1 ’ ,)*’ 8620*- 25’ 6.. [*. ’ 1 ; 20*0’ D ’) ?’ ,8*/+*’ *6-.’ /6,*-’ 6, ’ ,)*’ *, ’ 2’ 1-,)6?=,12% ( )*’ D6-12.’ 8 //^ 25/ ’ 56+*’ ,)* -’ >12.*2, ’ ,1’ ,) .’ ?=-1+*?*2, ’ 1 ’ ,)*’ 60? 2 .,-6, 12’ 1 A ; ., >*’ 620’ ., /’ ?*-*’ ,1’ ,)*’ / ? ,6^ , 12’ 1 ’ ,)*’ =18*-.’ 1 ’ ,)*’) ;->) ’ D ; ,’ *>9*,’ 0 0’ *+*-. ^ ,) 25’ 2’) .’ =18*-’ ,1’ 0*.,-1 ’ ,)*’ *’ *>, ’ 1 ’ ,)*’ 12.., ^ , ; , 12.% D1+*’ 6//’ ,)*’ . L.**2,)’ 6-, >/*’ 86.’ 0 -*>,*0’ 656 2.’ ,)*’ /18*-’ >/*-5 ’ 8)1’ 8*-*’) .’ =- 2> =6/’ .; =^ =1-,% &)*2’ ,)*’ 12., ,; , 12.’ 8*-*’ .; D? ,,*0’ ,1’) ?’ ,)6,’)*’ ? 5), ’ =; , ’) .’ .*6/ ,1’ ,)*? ’ 6.’ 6//’ ,)*’ 1,)*-’ =-*/^ 6,*.’ 0 0’ 2’ ,19*2’ 1 ’ ,)*’ -’ >12.*2, ’)*’ -* ; .*0% *-^ 86-0.’ 8)*2’ 12*’ 1 ’ ,)*’ ,)-**’ >1= *.’ ?60*’ 1 ’ ,)*’ 01>; ^ ?*2, ’ 86.’)620*0’ ,1’) ?’ 1-’ D .’ .*6/ 620’ . 526, ; -* ’)*’ .**?.’ ,1’)6+*’ */0*0’ 6 ,*-’ .1?*’ -*. .,62>*’ ,1’ ,)*’ >1?620’ 1 ’ ,)*’ 9 25’ D ; ,’)60’ .>6->*/ ’ /6-*2^ 012’ 8)*2’)*’ .)18*0’ ,)*’ D ,,*-*.,’ -*=*2,62>*% : *’ . ; .=*20*0’) ?.*/ ’ -1?’ 6//) .’ >/*-> 6/ ;2>, 12.’ 1-’ 1-, ’ 06 . ’ ; 2, /)*’)60’ -*>* +*0’ -1?’ ,)*’ =1=1’ 6D.1^ /; , 12’ 1-’ D .’ 16,) ’ 620’ ,)*’ >120*?26, 12’ 1 ’ ,)*’ 12.., ; , 12.% ,*-’ ,8 >*’ +6 2/ ’ 6,,*?=, 25’ ,1’ / ’ 6>-1..’ ,)*’ .*6’)*’ 86.’ 6>>; .*0’ 1 ’ ,)*’ + 1/6, 12’ 1 ’ ,)*’ 12.., ^ , ; , 12.’ 6,’ ,)*’ *, ’ 2’ 1-,)6?=,12’ 2’ >,1D*-’ 1 ’ ,)*’ .6?*’ *6-’ 620’ 86.’ >1?? 620*0’ ,1’ 5 +*’ 62’ 6>>1 ; 2, ’ 1 ’ ,)*’ *L=*20 , ; -*’ 1 ’ >12. 0*-6D/*’ . ; ?.’)*’)60’ D**2’ 2, -; . , *0’ 8 ,)’ 0 ; - 25’) .’ 60? 2 .,-6, 12’ 6.’ /1-0’ >)62^ >*//1-% ( )*’ >-; > L’ 2’) .’)620’)*’ 0*>/6-*0’ ,)6, ’)*’ 81 ; /0’ 21, ’ / . *2’ ,1’ ,)*’ .*2, *2>*’ 620’ /* , ’ ,)*’ >)6?D*-’ 1//18*0’ D ’ >6/ ; ?2*. ’ D ; ,’ -*>* +*0’ 1 ; ,.. 0*’ 8 ,)’ *2^ ,) ; . 6. ?’ D ’ ,)*’ =*1=/*% ’ *8’ 06A . ’ /6, *-’)*’ 60’ /*0’ ,1’ /620*-.% ,*-’ 62’ *L /*’ ’ . L’ *6-. ’)*’ -*, ; -2*0’ ,1’ 25/620Y2’ ,)*’ ..’ 1 ’ *>*?D*-’ ’ 6. ’ 6==6-*2, ^ / ’ 6, ’ /*6.,’ 6’ -*>12> / 6, 12’)60’ D**2’ * *>, *0’ D*, 8***2’) ?’ 620’ ,)*’ 9 25% ; , 12/ ’ 1 ; -’ 8**9.’ /6, *-’)*’ 86.’ 6..6.. 26, *0’ 2’) .’ >6,)*0-6/% ( )*’ >12.*_ ; *2>*.’ 1 ’ ,) .’ ? ; -0*-’ 6-*’ 8*// 92182% 2’ >, 1D*-’ K’ 6, ’ -62>)*.’ ,) *’ 9 25’)60’ , 1’ , 69*’ 62’ 16,) ’ 1 ’ =; - >6, 12’ D* 1-*’ ,)*’ =6=6/ /*56, *’ 620’ -*+19*’ 6// 8)>)’ 0 .=/*6.*0’ ,)*’ =1=*’ 2’ ,)*’ /6-*2012’ 12., ; , . 12.% ’ ’ : *-[15’ 5 26 D % 1’ ; ==/*?*2, ’ ’ NK ’ M -1?’ 8)>)’ ,) .’ 6-, >/*’ .’ , -62. /6, *0 X’ & /9 2. ’ ’ /’ ; 1’ ’ 7 N ’ 62012’ ’ ’ 1’ =% NK’ <1.C) * ?% " "’ # 811’ > 2, % L ’ D9% ’ =, % ; ’ >)% ’ g K’ : ; ?*’ # Y ! ’6 ’M : 6-=*-.’ *0%X ’ ’N NCN 4%

/6-*2 2*. ’ 6’ ?126., >’ 1-0*-’ 1 ; 20*0’ 2’ ,)*’ 2* 5)D1-)110’ 1 ’ 2>126’ 2’ N K’ D ’ 25*/1’ 0 ’ 1-01^ +6’ 6 , *-’ ,)*’ . ; ==-*.. 12’ 1 ’ ,)*’ */*., 26’ M % +%X ’ 1 ’ 8)>)’)*’)60’ D**2’ 6’ ?*?D*-’ 25*/1’ 86. ’ > , *0’ D*^ 1-*’ =1=*’ B1)2’ d d ’6.’ 6’ .*=6-6, ., ’ 2’ N ’ D ; ’ , ’ 86.’ 6>_ ; ,*0% : *’ 0 *0’ 6, ’ 6=/*.’ N % ,*-’) .’ 0*6,)’ ,)*’ /6-*2 2*.’ . ; D? ,,*0’ ,)*?.*/+*.’ , 1’ , /77 1-0 26-*.’ 620’ ?60*’ 5-*6, ’ =-15-*..’ 2’ .*+*-6/’ 0 1>*.*.’ 1 ’ ,6/ 7’ 2’ K’)18*+*-’ 6’ /6-5*’ 2; ?D*-’ 1 ’ ,)*7A1 2*0’ ,)* BB 21-.,*.’ M % +%X% 26// ’ 8)*2’ =1=*’ B ; ; ; .’ ’ -*1-^ 562 [*0’ ,)*’ -62> .>62.’ M % +%X ’ 0 + 0 25’ ,)*?’ 2 ’ D.*-+62, .’ 620’ 12+*2, ; 6/. ’ ,)*’ /6-*2 2*.’ 6 ,*-’ 2^ >/ 2 25’ 1-’ 6’ 8)/*’ , 186-0’ ,)*’ /6, ,*-’ 6, ’ /6. , ’ >122*>, *0’ ,)*?.*/+*.’ 8 ,)’ ,)*’ D.*-+62, .% **’ & 600 25’ & =] ! .’ # .’ *)-’ & ! ’ ? "! ’ " -I# 1’ ’KQ I’ & *, [*-’ ; % & */, *’) " = + ’ ’ S %

*d 6-1’ 1-’ /6- ; . ’? ’6’ *2*0 >, 2*’ ?129 D .)1=’ 620’ 8-, *-’ 86.’ D1-2’ 6, ’ ,)*’ >6. , /*’ 1 ’ /6-1’ 2*6-’ -*.> 6’ R ’ 620’ 6, ’ 62’ *6-/ ’ 65*’ *2, *-*’) *’ ?126., *-’ 1 ’ <12, *’ 6.. 21’ 8)*-*’ .,; 0 *0’ *.=*^ > 6// ’ ,)*’ 1-5 26/ /625; 65*.’ 1 ’ >-=, ; -*% 6; / ’ .*2, ’) ?’ , 1’ ,)*’ 1; 2> / 1’ (-*2, ’ 8)*-*’)*’ 5-*6, / ’ 0 .^ , 25; .)*0’) ?.*/ ’ *.=*> 6// ’ 2’ ,)*’ 0 .>; .. 12.’ 2’ ,)*’ ; /56, *% ( )*’ =1=*’ ?60*’) ?’ D .)1=’ 1 ’ 1/ 521% ’ :*’ 0 *0’ <6E’ KQ’ % : .’ >) *’ / , *-6- ’ /6D1-’ 86.’ 6’ >1--*>, 12’ 1 ’ ,)*’ K ’ 4 ’ 1DX% :*’ 6..*-, .’ ,) 6, ’) 1’) 60’ >1--*>, *0’ Q ’ =/6>*.’ 620’) .’ -., *0 , 12’ M KX’ 86.’ = ; ,’ 2, 1’ ,)*’ 20*L’ L=; -56, 1-/ ; .% : *’ D1--18*0’ /6-5*/ ’ 2’ D .’ 21, *.’ -1?’ *D6., 62’ < ; 2^ .,*-’ M % %X% ’ : 1* *-’ 7 ’ ; !’ ? 21’ L’ SSK’ : 119’ 6 ’ ; ’ + ’ %

/6-9’ 62 */’ % ’ %7 % ’ 6’ 125-*56, 126/’ 620’ -*.D ,*-62’ ? 2 .,*-’ 86.’ /1-2’ 6, ’ 6) 86 ’ ’ B% ’ <6->)’ ’ R’ 620’ 5-60; 6, *0’ 6, ’ -2>*, 12’ 2’ Q Q% &) /*’ 6’ . ; , 0*2, ’ 6, ’ 201+*-’ ( )*1/15 >6/’ *? 26-’)*’ 86.’ / >*2.*0’ D ’ ,)*’ -*.D ,*-01’ *8’ B*-.’ ’ 620’ 2’ Q K’ D*’ 86.’ 1-06 2*0’ 620’ 2. , *//*0’ =6. , 1-’ 1 ’ ,)*’ 12^ 5-*56, 126/’ $2 12’)% 1 ’ -6 2, -*’ *’ 620’ & * ?1; ,)’ < 6. .% ( )*2>*’ *-?1+*0’ 2’ Q S’ , 1’ : 621+*-.’ % B% ’ 620’ 2’ Q S’ , 1’ 1; ,)D; - ’ 122% 8)*-*’ 2’ 600 , 12’ , 1’) .’ 81-9’ 6.’ 6’ ? 2 . , *-.)*’ , 6; 5), ’ 5-6, ; , 1; ./ ’ 8 ,)’ 6’ + *8’ 1 ’ */*+6, 25’ ,)*’ . , 6206-0’ 1 ’ *0; >6, 12% J’ 2’ QK ’)*’ 86.’ 2. , 6//*0’ =6. , 1-’ 1 ’ ,)*’ 8*. , ’ =6-.)’ 1 ’ ?^)*-. , ’ <6. .% 8)*-*’)*’ 86.’ 2+1/+*7’ 2’ >*-, 6 2’ 0 / >; /C ’ , *. ’ 620’ 2’ QKS’ D*’ 6>>*=, *0’ 6’ >6//’ , 1’ *22 25, 12’ , % ’ 8)*-*’)*’ 86.’ +*- ’ 6>, +*’ 620’ ; .* ; /% *6+ 25’ *2^ 2 25, 12’ 2’ QN ’)*’ . ; ==/ *0’ -% *?62 .’ = ; /= , ’ 2’ (-1 ’ /6D1-*0’ 1-’ 6’ , ?*’ 2’ $, >6’ % % ’ 620’ 86. A2C’ ., 6//*0’ =6. , 1-’ 2’ 06?. ’ B* *-. 12’ 1% ’ % ’ 2’ QNK% 2’ QNN) .’) *6/,)’ 1D/ 5*0’) ?’ , 1’ 8 ,) 0-68’ -1?’ ,)*’ ? 2 .,-% : *’ 0*+1, *0’ ,)*’ -*?6 20*-’ 1 ’) .’ 06 .’ , 1’ / , *-6- ’ = ; -. ; , . ’ 620’ 0 *0’ < 6->)’ N Q % ( ) 1; 5)’ 3=-6>, >6// ’ 6’ 125-*56, 126/ ., ’ 8) /*’)*’ * *-> .*0’) .’ ? 2 .,-’ 2’ *8’ 25/620’)*’ 6/86 .’ -*,6 2*0’) .’ =-* ^ *-*2>*’ 1-’ ,)*’ -*.D ,*-62’ 1-?’ 1 ’) ; ->)’ 51+*-A C ’ ?*2, ’ 620’ -*. ; ?*0’) .’ -*/6, 12.’ 8 ,)’ ,)*’ -*.D ,*-* 62’) ; ->)’ 6.’ .112’ 6.’)*’)60’ ,)*’ 1==1-., ; 2 , % J’ -% .5110’ M 2’ =-65; *’ > , *0’ D*/18X’ .6 .d ’ ( )*’ =; D^ / .)*0’ .*-?12.’ 1 ’ -% /6-9’ ’ D*/ *+*’ , ’ .’ 5*2*-6// ’ 60? ,,*0’ , 69*’ -629’ 8 ,)’ ,)*’ 6D/*.,’ .*-?12.’ 8) >)’ 1; -’ >1; 2, -’ ’) 6.’ =-10; >*O% J’ 1-’) .’ =; D/ >6, 12.’ .**’ # ’ % ’ D 1’ "’ ’ ; % " ’ $+ " ’ *, >% ’ D ’ *+% 4*1%)*=6-0’ % % M Q S K’ +1/.% Q+1X% ,)’ *0 , ’ *0 , *0’ D ’) .’ .12’ B% : % /6-9’ < % % M % % Q ’ K’ +1/.% Q+1X% ’ =-65; *’ & 1’ + ’ S %

/6-9’ B1)2’ 6’ 6= 6=, .,’ ? 2 .,*-’ 86.’ D1-2’ 2*6-’ 2+*-2*.. ’ >1, /620’ 1+% KR,) ’ Q% : + 25’ -1, 2’) .’ *6-/ ’ D1)110’ 6’ .,-125’ =-1=*2. , ’ 1-’ 6’ .*6 6-25’ / *’)*’ 86.’ 1-’ 6D1 ; , ’ 12*’ *6-’ 12’ D16-0’ 1 ’ 6’ =-+6, **-’ 6 , *-86-0.’ .6 /*0’ 6.’ .*>120’ ?6, *’ ,)*’ & *.,’ 20 *.’ 620’ 6-- + 25’ 6, ’ 6-D601*.’ 86.’ ?=-*..*0’ 2, 1’ ,)*’ - , .)’ 26+E % : *-*’)*’ 0*.*-, *0’ 620’ ,)*’ 2*L, ’ *..*/ 12’ 8)>)’)*’ *2565*0’ D* 25’ >6=, ; -*0’ D ’ ,)*’ =62 6-0. ’)*’ 86.’ 1, % 2 2*, **2’ ?12,) .’ 6’ =- .12*-’ 1 ’ 86-’ 6, ’ : 6^ +626% 112’ 6 , *-’) .’ *L>)625*’)1’ 86.’ 6’ .*>120’ , ?*’ ?=-*..*0’ 620’ 0*.*-, 25’ 656 2’ -*6>)*0’)6-/*., 12’ % 2’ Q7)*’ , 6; 5), ’ .>)11/ 2’ ,)*’ D6>9’ .*, , /*?2*.,’ 1’ 6-1/ 26% *+. , 25’ 25/620’)*’ D*>6?*’ 6>_ ; 6 2, *0’ 8 ,)’ <-% & *./* ’ 620’ 6 , *-’) .’ -*, ; -2’ , 1’ ,) .’ >1; 2, -’ 2’ QR’)*’ D*>6?*’ 62’ , 2*-62, ’ =-*6>)*-’ 2’ 4*1-5 6’ 26// ’)*’ D*>6?*’ 6’ 6=, .,’ 620’ 6’ ?*?D*-’ 1 ’ ,)*’ .1C >6//*0’ ; % / ’ " "’ ’ 1-’ @ ’ # = + ’ ’ 12’ 6>>1; 2, ’ 1 ’ ,)*-’ 1==1. , 12’ , 1’ ./6+*-% *^ ?6 2 25’ 6’ *8’ ?12,) .’ 2’ ,)*’ ’ /1-06’ 6-.) *. J’ 1; ^ . 626’ 8)*-*’)*’ =-*6>)*0’ 6/?1. ’ /06 / ’ 620’ 8 ,)’ 5-*6, ’ 6>>*=, 62>*’) *’ , -6+*//*0’ , 1’ // 21 .’ 12’ 11, ’ 620’ 2’ /Q//’ -*+ . , *0’ 1; . 626’ =-*6>) 25’ 8)*-*+*-’)*’)67’ 62’ 1==1-, ; 2, ’ 620’ , -6+*// 25’ 5-*6, ’ 0 .,62>*. ’ 6/86 .’ 12’ 11, % : *’ 0 *0’ 2’ , % 1; .’ 1% ’ <1% ’ >, % ,)’ QNN% ’ ’ =-65; *’ & 1’ + ’ R %

/6-9’ B1)2’ 6’ < *,)10 .,’ = .>1=6/’ ? 2 .,*-’ 86.’ D1-2’ 2’ & .)25, 12’ 1; 27’ % f % B ; / ’ N R ’ 86.

>12+*-,*0' 2' Q ' 620' 2' QK ' *2,*-*0',)*' *8' 1-9' 12 *-*2>*' 1',)*' <*,)10 .,' = .>1=6/');->)' 6.' 62' , 2*-62,%' : 6+ 25' /6D1-*0' 8 ,) 2' ,.')1;20.' 1-' . L^ ,**2' *6-.')1' 86.' 2' QNS' ,-62. *--*0',1',)*' // 21 .' 12 *-*2>*' 620' 2' Q 0,1' (*L6. ' 2' Q ')*' 86.' 6' 0*/*56,*',1',)*' 4*2*-6/' 12 *-*2>*' 1',)6,' *6-' 620' 6,' ,.' >/1.*' 86.' 6,') .' 182' -* ,';*.,',-62. *--*0',1',)*' (-1 ' 12 *-*2>*%' : *' 86.' 656 2',-62. *--*0' 2' Q K' ,1',)*' 1>9' +*-' 12 *-*2>*' 620' .,6, 12*0' 2') ^ >651'8)*-*')*' 0 *0'1 '>)1/*-6'B;/ ' Q N% 2' 6// =6-,.' 1',)*' >1;2,- ')*' 86.' *? 2*2,/ '8*// -*>* +*0' 620'8)*-*+*-')*' 86.' .,6, 12*0')*'/*,'D*/ 20') ?',)*' -*=;,6, 12'1 '62' 6D/*'620' *6-2*.,')- ., 62' ? 2 .,*-% : .' -12, *-'/6D1-.' ;//'1',1'/620'=*- /'8)>)')*' ?*,' 8 ,)' 6D1;20 25' >1;-65*' 620' *2*-5 ' 6-*' 6?=/' D*^ .>- D*0' 2' : 6// .' ' '5 'D " ' +'M % % +1X% **' 6/.1' ' ' 1'+' Q T' =-65;*'& 1' $'+ 'SKST' " ' 'B62% Q '=% Q%

/6-9'B1)2' /12[1' % %'6' -1,*.,62,' = .^ >1=6/' ? 2 .,*-'86.' D;-2' 2' ,,., */0'<6..%'<6 ' Q '620' 5-60;6,*0' 2' $2 12' 1//*5*'B;/ ' QKN% :*' .,;0 *0' 2',)*' 4*2*-6/'()*1/15 >6/' *? 26- ' *8' 1-9'620' 86.' 1-06 2*0' 0*6>12' =- /' K QKS'8)*2')*',119' >)6-5*' 1'6' ? .. 126- '.,6, 12' 6,' 6/? -6' % % 2' QKR')*'D*>6?*' 6.. .,62,'1')- .,');->)' *8' 1-9' , % 2' QNK')*' 6>>*=,*0',)*' -*>,1-.)='1'4-6>*');->)' -1+ 0*2>*' % %'620' 2' QN'D*^ >6?*' -*>,1-'1' 20-*8 .')/60*/=)6'8)*-*')*' /6D1-*0' 1-',*2' *6-.'8,)' 5-*6,'6>>*=,62>*' 620' ;.*^ ;/2*..%' : .')*6/,)' 6/25')*' ?60*'6'+ .',1' ;-1=*' 620'12').'-*,;-2' =;D/.)*0'? % ' '"','' ' M '+1/.%' K?1' QNQX% 2' Q N)*' 86.' >1?=*//*0'D' ,)*'0*>/2*' 1')..')*6/,)',1'-*. 52').'-*>,1-.)='620' 12',)*' K ,)' 1' 1+*?D*-'1',)6,' *6-')*'0 *0% : .' =;D/>6, 12.'D*. 0*.',)*' - '26?*0'6D1+*'6-*',)*' 1//18 25# " '6 % ' '"'; % ' ' "' ' $!' (' -" ' 1'' - ' M QN XT' -" '< ' % ' ' ' '& / 5!' ' M K?1' QNSXT' ? " ' @ ' M K-11' QNSXT' &' +' ' M K?1' QNSXT' ? ' ' "' ' M K?1' Q KXT' 6' =1.,);?1;.'+1/;?*' 1'.*-^ ?12.'*2, ,/*0'& + 'I"' '$ % 'M K?1X%CCC =-65;*' & '+'S

/6-9' *,*-'6' 125-*56, 126/' ? 2 ..*-'86.' 6' 26, +*' 1'& 6,*-,182' <6..%'D1-2' NSRN' 5-60;6,*0' 6,' : 6-+6-0' K' 620' 86.' 1-06 2*0' =6..1-' 2' 6/*?'+ /^ /65*' M218' 62+*-.X'B;2*' N % :*' =;D/.)*0'.*+^ *-6/' >12,-1+*-. 6/' =6?=)/*,.' >12>*-2 25' - 5 26/' 2J' 2' 1==1. ,12',1',)*' *+% 6?;*/' & *D.,*-' 620' -%)6;2>'M C S XT' $ % ' ? ' '" ' ; % ' ' "# ' ' ' ' ' f'M N XT' 6/.1'.*+*-6/' 1>>6. 126/' .*-?12.% :*'0*0' 2'B;2*' SQ% ' =-65;*' & ' 'KR %

/6-9' 6?;*/'6' <*,)10 .,' = .>1=6/' ? 2 .,*-' 86.' D1?' 6D1;' Q ' 2' -*0*- >9' 1;2, ' 6%'1'=C 1;.7=6-*2,.T *2,*-*0',)*C 6/, ?1-*' 12 *-*2>*' 2' QK ' /1>6,*0' 2' QN T *2,*-*0',)*') 1' 12 *-*2>*' 2' QNS' /1>6,*0' 2' Q ' 620' *? 5-6,*0',1' 186'M,)*2'6' (*-- C ,1-A!XT *2,*-*0',)*' 186' 12 *-*2>*' 2' Q ' 620'6^ ,*-'+6-1;.'-*/6, 12.',1',) .'>12 *-*2>*'0 *0'6,') .'=1.,' 2' 62' ;-*2' 1;2, ' 186' *D%R Q % '() .'+*2^ *-6D/*' ?62'1 '410' % % % % ')60'512*' ;=' 620'0182' 2*6-/' 1-, ' *6-.'=-*6>)25' `)-.,'620',)*' -*.;-^ -*>, 12'A,1',)1;.620.' -1?',)*' ,/62, >',1I,)*'8*.,*-2' D1-0*-.' 1'> + / [6, 12%J' :*' 86.' 1-? 06D/*' 2' 0*^ D6,*'620'-629*0')5)'6.'6' ? 2 .,*-'620'=;D/>'.=*69^ *-% ' ' ' ' Q R'=%K N%

/6-9*' 06?' % %'6' &*./*A762' <*,)10 .,' ? 2 .,*-'0 .,25; .)*0'6.'6' 0 + 2*' 62' 62,_;6-62' 620'62' -*2,6/.>)1/6-'86.'D1-2'6,'<1 D*5'' 12012^ 0*--' 1%' -*/620' 2' S' 1-'N SK'M).'182'?1,)*-' >1;/0'21,' L',)*'06,*X% :.' 6,)*-'8)1'86.'6'>/6..^ >6/',*6>)*-'86.'6'?*?D*-'1',)*');->)'1' 25/620' D;',)'?1,)*-'8)1'86.'1' >1,,.)'1-5 2'86.'6' -*.^ D ,*-62% 06?'8)*2'6'D1' 86.' -*?6-96D/*' 1-=) .>6/'+51-'D;,'.**?*0'-6,)*-'.,;=0',)62'1,)*-^ 8.*';2,/'6D1;,')..'*5),)' *6-'8)*2',)*' .6->6.?.' 1'6'.>)11/*//18';=12')..'0;/2*..'.**?*0',1'-1;.*') ?' -1?'6'/*,)6-5 % -1?',)6,', ?*)*' ?60*'-6=0'=-15^ -*..' 2'/*6-2 25'*.=*> 6// ' 2',)*' 6, 2'/625;65*% 2') .' ,)' *6-')..' ? 20' 86.' D-1;5),'D ',)*' ? 2 .,-' 1'<-' -*,,*//'620'<-% 6-D*-M<>,)1M/..'=-*6>)*-.X' ;20*-'-*/5 1;.' ?=-*.. 12.'620' 2' Q)*'A1 2*0',)*' <*,)10 .,' .1> *, ' 6,' <;//>6' : //' 2*6-' 1/*-6 2*% : *' .112' D*>6?*' 6'>/6..C/*60*-' 620')1?*C? .. 126-X% : 6+ 25'D**2'-*>1?*20*0',1',)*' 21, >*'1'&*./* ')1' 86;.*2,'D ') ?' 2' QK',1' 25.8110')11/'8)*-*' 0 0'21,'-*?6 2'/125% : .'.; *- 25.',)*-*'6-*'6?;.^ 25/ '0*,6/*0' 2').' 6;,1D 15-6=) % &)/*' 0 55 25' 12*' 06 ' 2',)*' 56-0*2'6,' 25.8110')*' 1;20'6')6/' 5; 2*6' 8 ,)' 8)')*' D1;5),'6' :*D-*8' D/*'T' 620',) .'M)*' .6 .' 2').' & %" (8 /6 0',)*' 1;206C 3, 12' 1 '6//').' 9218/*05*' 1',)*' .6>-*0' 8-, 25.' 1',)*' /0' (*..6?*2,%J' (186-0.',)*'*20'1' QK')*'86.'.*2,' 1;,' D '& *./* '6.' 62' ,2*-62,' =-*6>)*-' 620')*' -*^ ?6 2*0' 2',) .'/6D1-1;.'&1-9'8 ,A' *8' 2,*--;=,12.' ;2,/' Q % ' ?1-*C*6-2*.,' 6 ,) ;/' 620' 0/5*2,' =-*6>)*-'2*+*-'/+*0'620'*8'?1-*'=1=;/6-')6+*'+*-' 6==*6-*0' 2' 25/620% (1',)*'/6.',)*' >)6=*/.')>-*')*'=-*6>)*0'8*-*' //*0',1'1+*-/18 25% +*-A'=6-,' 1'4-*6,' -,6 2' 620' -*/620'6.'8*//'6.'4;*-2.* ' B*-.*E'620',)*')*,/620'./620..')6-*0' 2' .',1/.'6.' =-*6>)*-'620'?..126-A% 2' R')*'86.'6==1 2,*0' ,1' 12012'620'656 2' 2' Q T' 620')*'218'-*?6 2*0' 2',)*'?*,-=1/.',*2' I*6-.' ;//1'/6D1-.' 2',)*'=6.^ ,1-6/' 81-9' 2',/'*'D*2*+1/*2,'*2,*-=-..*.'1',D*' 06 ' 620' 2'/,*-6-E'=;-.;,.% : *'86.',)-> *'*/*>,*0'M Q S' Q QKKX'=-*. 0*2,'1',)*' -, .)' 12 *-*2>* &) /*'6',-6??*// 25'=-*6>)*-')*'1;20', ?*'1-'?;>)' .,;0 ' *.=*> 6/)' 2% - *2,6/'/,*-6,;-*% 2' Q K')*' =;D/.)*0'6' ; %" ' ' +1/.%NK?1X' 8)>)'6,'12>*'56+*')?'6'/,*-6-A?'-*=;,6, 12% * 1-*' ,) .'6.'*6-/X'6.'N RQ')*'D*562',1'56,)*-'?6,*-6/.' 1-' 6' ' ' '" ' ; 'O" ' -.,'=6-,'1'8)>)' ?+6.' M QN XT' -" ' < ' % ' ' ' '& / 5!' ' M K?1' QNSXT' ? " ' @ ' M K-11' =;D/.)*0'2' Q '620',)*'/6.,'2' QKS' '2',) .'6-^ 0;1;.'81-9J')*' .6 .' ' ')6+*')60'21'6.. .,62,.'21,' *+*2'6' .25/*' 8**9 .')*/=' -1?'62'6?62;*2. .T 21' =*-.12',1'/119' 1-'>1?? 12=/6>*.'1-'-* *-',1'62' 62^ >*2,'6;,)1-',1' 20' 1;',)*' =/6>*' 620',-62.>- D*' 6' =6..65*' 1' 6, 2'4-**9'1-'62'1,)*-'/625;65*' M8')>)' ?' ?*?1-')60' 5*2*-6// ' -*>6//*OX'1-',1' +*- ' 6' _;1,6, 12',)*')*/=' *L>*=,*0' 8)>)' '-*>* +*0' 2',)1' >)-121/15 >6/' 0*=6-,?*2,' -1?' ? ' 18Y2*=)*8 '/-% B1)2' 086-0' /6-9*% ')6+*'/6D1-*0'6/12*' 1-',8'*2^ ,'+*' *6-.'=-*+1;./',1',)*'81-9'D*25'.*2,',1',)1' =-*..'620' ,**2' *6-.')6+*'D**2'*?=/1 *0' 2'D-25^ 25',',)-1;5)',)*'=-*..'.1',)6,'2*6-/'1-,' *6-.'1' / *')6+*'D**2'.1>12..;?*0J'I1& %" 8! :.'/,*-6-'/6D1-.'2' 12012'-1?' Q S',1' Q S'MO;-^ 25'8)>)')*' 86.'6D;2062,'6/.1'2'/6D1-.'6.'=6.,1-'620' =-*6>)*-JX'8*-*'*21-?1;.% 112'6,*-')..,/*?*2,' 2',)*'>,'')*'86.'>6//*0'2,1',)*'>1?? ,,**'1',)1' -,.)'620'1-*52' D/*' 1>*,'620'1-'*6-.')*'0^ -*>,*0'/6-5*/' ,.'=;D/>6, 12.'2' -*2,6/'/625;65*.% 2' Q S')*'=;D/.)*0'-" ' ; ' '$ ' +>/% '+1/.%X'6'.;==/*?*2,',1')./ D/ 15-6=)>6/' >, 126- ' 2' Q ' ,)*' $2 +*-. ,' 1' D*-0**2' 56+*')?',D*' 0*5-**' 1'<% %'620' 2' Q Q',)6,'1' % % 2' Q Q' 6/.1'6==*6-*0')./$ ' '$ ' +>/% '+1/' 'D')./.12'B% % % /6-9*'QN '+1X% ,)*'*20'1',)6,' *6-',)*' D/*' 1>*,'-*_;*.,*0',)6,')*-;/*'1',)*' 12 *-*2>*';20*-'8)>)' -% /6-9* 81;/0'D*' 1?=*//*0',1'/*6+*' 12012'?5),'D*'._.C =*20*0'2')./>6.*'2'1-0*-',)6,')*'?5),'-*?62'2' ,)*-.*-+>*'/125*-% ()*'-*_;*.,'86.'5-62,*0% 2)*.6?*' *6-',)*' -,.)'51+*-2?*2,'2,-;.,**',1' /?',)*'6--625*?*2,'1-'=;D/>6,12'1'1/0'.,6,*'=6^ =*-.'2'>12,2;6,12'1' ?*-.'@ ! 2',)./6^ D1-1;.'620'>1?=6-6,+*/';2=-1 ,6D/*',6.9'.)*'.=*2,' ,)*'D*.',=6-,'1',*2' *6-.'D* 25'-*/ *+*0' -1?',' 2' Q R% ,*-',)*'1-562 [6, 12' 1',)*'&*./* 62'<.^ .126-'1>*,X'2' Q ')*'=-16>/*B'.=19*'620',-6+^ *//*0'/6-5*/' 2' ,.'.*-+>*%' ;-25'6/',)./',?*')*

86.' 81-9 25' 12') .' 1'620' 2' .,;0A025' 1-' ,' ?60*') ?.*/' ?1-*' 1-' /*..' >1?=/*,*/ ' ?6.,*-' 21,' 12/ ' 1 ' 4-**9' 620' : *D-*8 ' D;,' 6/.1' 1 ',)*' - *2,6/ /625;65*.' : *')60' /125' D**2' 6>_;6 2,*0' 8 ,)' ,)*' /625;65*.' 1 ' ?10*-2' ;-1=*' ()*.*' +6- *0' 620' *L^ ,-61-0 26- ' /6D1-.' 6,' /*25,)' 2A;-*0') .')*6/,) ' 620' 2' Q ')*' 8 ,)0-*8' -1?' 12012' ,1' 6' .?6// *.,6,*' 6,' < //D-119 ' 62>6.) -*' : *-*')]' >12, 2;*0' ,1' =-1.*^ >;,*') .' / ,*-6- '/6D1-. ' 620'*.=*> 6// ') .' 1' 8) >)' 86.' 218' 2' 62' 60+62>*0' .,6,*' 1 '=-*=6-6, 12' 2' QK ')*' -*,;-2*0' ,1' ,)*' + > 2 ,A 7 1 ' 12012 ' 620' L*0') .' -*. 0*2>*' <' : 6 012' : 6// ' 8)*-*')*' .=*2,' ,)*' -*?6 20*-' 1 ') .' 06 .' *2565*0' 2' / ,*-6- '/6D1-' 620' 6/.1' 2' ,)*' .*-+ >*' 1 ',)*') ;->)' 2' +6- 1 ;.' 86 .' ?125') .' ?1.,' ?=1-.,62,'/6D1-.' 1 ',) .' =*- 10' 86.' ,)*' 1-562 [6, 12' 1 ' <*,)10 .?' 2' ,)*')*,/620' ./^ 620. ',1' 8) >)')*' ?60*' ,81' ? .. 126- 'A1;-2* .' M QK4' 620' QKQX' ;- 25' ,)*' .;??*-' 1 ' QNK')*' *L*-,*0') ?.*/ ',11' ?;>)' 620' 0 *0' 6,' 6 .86,*-' < 00/*.*L ' ;5;.,' KS' 1 ',)6,' I*6-' 1 '>)1/*-6% -' /6-9* ./ ' *' 86.' 12*' 1 '6/?1.,' ;2=6-6//*/*0' 2C' 0;.,-7 76.' =-*6>)*-' =6.,1-' .,;0*2,' 620' 6;.)1-' : .' / ,*-6- ' -*=;,6, 12' -*.,.' >) * / ' ;=12') .' M/6.,' *0' 6-/,12' 620' 1-,*-' ' ' QSS S' +1/.' +OX' 8) >)')6.')60' 6' 8 0*-' > ->;/6, 12' ,)62' 62 ' 1,)*-' 2' ,)*' 25/ .)' /625;65*' *L>*=, '=*-)6=.7 < 6,,)*8' : *2^ - .' ?218' .;=*-.*0*0' D ' /6,*-' 81-9.' D;,' 8 // 6/86AC.' D*' > ,*0' 8 ,)' -*.=*>,' 1-' ,.' ?;/, 6-1;' /*6-2^ 25' 620' 1-',)*' -*_;*2,' 1-5 26/ , ' 620' 6>;,*2*..' 1 ' ,.' 6221,6, 12.' .' 6',)*1/15 62' -' /6-9*' 86.' 62' -? 2 62' 620')*/0' ,)*' & *.*/* 62' ,)*1/15 ' *2, -* ' 8 ,)',)*' *L>*=, 12' 1 ',)*' 01>,- 2*' 1 ',)*' ,*-26/' 12C .) =' 1 ')- ..' : .' *--1-' 12',) .'=1 2,'0-*8' 1;,',)1.*' 60? -6/0*' 81-9. ' & 6,.12 .' 5 +' ' " '6 '$ 1' " %' M 1- .' 120' *O' +1/' + X' 620' (-* - .' 4 "(' ' " ' ' ' " ' 6 '$ " %' MNO' >O' 120' Q RX' *. 0*.',)*' 81-9.' ?*2, 12*0' -' /6-9*' 6/.1' =;DC' /'OD*0' 0' ' ' " ' 6 " ' M 120' Q Q' +1X' ' 'EN Y'@ ' M 120' +1' ' ' K ?1' .*+*-6/*0 , 12.X' : *' 6/.1' *0 ,*0' 8 ,)' 2;?*-1;.' 60^ 0 , 12. ' 6L,*- .' " ' ' .' *;- .' ' ' " ' ;) ;>9 1-0 .'$ ' ' " '; ' '&' 1 ' # *.' ,;-? .'5 ' '? .' 620' : 6-?*- .'," (' ' ' ' $ % ' M Q Q' ' +1/.' +1X' : .' >12,- D;,12.' ,1'=*- 10 >6/ 7' 620') .' ? 21-' 8- , 25. '=6?=)/*,.' *,>' 6-*',11' 2;?*-1;.',1' D*' ?*2, 12*0' : .' + ')6+*' D**2' >1//*>,*0' . 2>*') .' 0*6,)' M 120' N' +1/.' +1X' **' /6-9*' B' ' ' '& ' + ' M 120' N' +1/.' +1X' 1;,)*- 05*' ' '&!' + ' M 120' Q Q' ' ' Q R' K?1X' +*-*,,'& ' + '% KO' *O' QSS K' +1/.%X' ,*+*2.' # ' ' " 1' ' KR ' *,'6/' ' ?12;?*2,',1',)*' ?*?1-' 1 ' -' /6-9* 86.' *-*>,*0' 6,' 1-,' ;.)' -*/620' 2' Q R' D ' >12,-^ D;,12.' -1?' D1,)',)*' /0' 620',)*' *8' &1-/0% /6-9*' 0 8 6-0' 62 */' % ' 62' 25/ .)' 0 + 2*' 1 '21,*' 6.' 6' 8 - ,*-' 1 ',-6+*/. ' 86.' D1-2' 6,' & /C' / 25012' ;..*L' 2' SR' 620' 86.' *0;>6,*0' 6,' B*.:;' 1//*5*' 6?D- 05*' -1?' R ',1' RR')*' 6>,*0' 6.' ,;,1-' 620',-6+*// 25' >1?=62 12' 2' .*+*-6/ 6?/*.' ,-6+*// 25' 2' -62>*' ,6/ ' 8 ,[*-/6720' 620' 4*-^ ?62 ' 2' RR')*' .*,' 1 ;,' 12' 62' *L,*2. +*' ,1;-' 8 ,)' <-' -==.' 6' 1;25' ?62' 1 ' 1-,;2*' ,)*' ,-6+^ *-.*0' *2?6-9' 1-86 ' 8*0*2' 6=/620' 2/620' ;.. 6',)*' >1;2,-' 1',)*' 12' 1..6>9.' (6-,6- ' .6' < 21-' -6' 5 =,' 4-**>*' 620' 0 0' 21,' -*,;-2',1' 25/620', // Q K%J' : *' 86.' 1-06 2*0' 2' Q '620' -*^ >* +*0',)*' >1//*5*' / + 25' 1 ' : 6-/,12' 2' Q R')*' 86*7 =-*.*2,*0',1',)*' / + 25' 1 ' */0)6?' D ') .' 6,)*-C 2C' /68' : .' - '6==*6-*0' D*,8**2' Q '620' Q R' M ' +1/. X ' ' . L,)' +1/;?*' *0 ,*0' D ' 1D*-,' & 6/=1/*' 86.' D-1;5),' 1;,' 6 ,*-' D .' 0*6,)' ,1' M6/.1' 2' '+1/.' C+1' Q SX' 2' Q N')*' =;D/ .)*0' - ' ' ' & " ' % ' " ' '$ ' ' '620' 2' Q '&' ' ' ' " '$ %" ' ' " '; " !' : *' 0 *0' 6,' 12012' < 6->)' R,)' QKK' I6 9 "' % ' .' +%X' **' ,'*-' ' '5 ' '6 ' ' ' + ' M 120' QK 'K' +1/.' +1X% /6-9*' B1)2' 6' 0 .,25;.)*0' 6=,.,' ? 2 .,*-' 86.' D1-2' 2' 25/620' >,' Q S R' : *'=-6>,.*0' ?*0^ > 2*' 2' 12012' 1-' .1?*' ,?*' 620' >6?*' ,1' 1.,12' 6.' 6' =)E!.>62' MO6,*' ;2921820X' ..6,. *0' 8 ,)' ,)*' ?6265*?*2,' 1 ',)*' >1/12 '1 ' <6..6>);.*,,.')*'/* ,' ,' 620' 8 ,)' 1,)*-.' =;->)6.*0' _;*,2*>9' 1 ',)*' 20 62.' 620' >6//*0' ,')10*' ./620' ()*' 0**0' 06,*.' <6->)' K NQ' 2' SNR')*' 8 ,)' * 5),' 1,)*-.' 1;20*0' *8^ =1-,' ' ' .' 21,' 92182' 8)*2')1' D*>6?*' 6' 6=^ ,.,' 1-' 6' =-*6>)*-' D;,' 2' S ')*' D*>6?*' -.,' =6.,1-' 1 ',)*' 6=,.,'>);->)' 2' *8=1-,' 2' S ')*' + .,*0' 6' -*20' M & // 6?' & ,,*-X' 6,' 22' <6..%') */0' 6' -*^ / 5 1;.' ?**, 25',)*-*' 86.'6--*.,*0' 620' 2*0'" 'B;05*' 20 >1,',8*2, '=1;20.';20*-'=*26/, '1 '=;D/ >' 8) =^ = 25' 2' >6.*' ,)*' 2*' 86.' 21,' =6 0' 1?*' 1 ' <-' /6-9*.' - *20.' =6 0') .' 2*' D;,'12*' 1 ') .' >1?=62^ 12.' M<-' : 1/?*.X' 86.' .*+*-*/ '8) ==*0' 2' S ')*' 8*2,',1' 25/620',1'=-1?1,*',)*' 2,*-*..' 1 '-*/ 5 1;.' -**01?' 2' ' ./620 ' 620',1')6+*' <-' 100 25,12 .' >1?? .. 12' 6.' 51+7*?1-' -*+19*0' : *' 6>>1?=/ .)*0' ,) .' 1DA*>,' &) /*' 2' 25/620')*' =;D/ .)*0' ' 7 ' ' 7 ' 6 ' ' ' 7 ' 7 ' 6 (' ' " ' ' ' ' " ' " ' ', ' 6 9 ' ' (7 ' 7 ' 6 ' ' ', ' ' @ ' % ' ' ' '@ 1 ' "9 ' " '@ "' ' , ' ' " ' ? % ' ' " ' ' '" ' ' ' ' - ' ,1 '=' S' 2' SS ')*' -*,;-2^ *0',1' *8=1-,' 8)*-*')*' -*?6 2*0' 6.' =6.,1-' 620' =) ^ . > 62';2,/) .' 0*6,) ' =- /K S S' 6>>);.' " S'" # ' 7 ' 6 '+1/' ' *2*0 >,' # ' ' " ' ; % ' +1/' ' //*2' & ! ' ; ! ' ' .' + ' =-65;*' & ' + ' K /6-9* 'B1" 2' 0*62' 1 ' 62;2' MD-1,)*-' 1 ' -' 6?^ ;*/ /6-9*X' 86.' D1?' 6,' 1-8 >)' 620' D-*0' 6' 8*6+*' D;,' 86.' 6 ,*-86-0.' *0;>6,*0' 6,' 6?D- 05*' 8)*-*' D*' -*>* +*0',)*' 0*5-**' 1 ' % ' : *' 1D,6 2*0' 6' =-*D*20' 6,' 1-8 >)' 86.' 6==1 2,*0' >)6=/6 2',1',)*' > 25' 620' 26// ' 0*62' 1 ' 6/ .D;-A' : 1' 0 *0' 2' R' : .' =- 2> =6/ 8 - , 25.' 6-*' & ' 4 ' ' + ' ' , ' ' '6 ' M 1A/*' *>,;-*' 120' K CK ' K' +1/.' +1X' 6' ' ' '7 (' " %" ' M 120' N ' +1X' : .',-62./6, 12' 1 ' ? ' ' N(' .' ., // -*=-2,*O' : *' ;-2.)*0',)*' 21,*.',1' &)6-,12 .' 5 ' '7 ! ' : 119' 6 !' ; %" ' + ' R % /6-9*' 6?;*/' 6' 12>12 1-?.,' 86.' D1-2' 2' & 6-8 >9.)-*' RRT' *0;>6,*0' 6,' ?? 62;*/ 1//*5*' 6?D- 05*' 620' 6 ,*-' =-*6>) 25' 6.' 62' *+625*/.,' 6,')1,8 >9' 620' 1+*2,- ' 620' 6,' & 6-8 >9' M8)*-*')*' 86.')6=/6 2',1',)*' *6-/X')*' D*>6?*' ? 2 .,*-'1 ' *22>,' 29' 12012' : *' 86.' *A*>,*0' 2' SSK' 620' / +*0' 2' .,;0 1;.'-*, -*?*2,';2, /) .'0*6,)' 2' SQK' : .'>) *' 81,9.'6-*' ' '6 '# ' M 120' S ' K' +1/.' 1/%XT' & ' ? ' ' M 120' S H' NO' *O' 1/%XT' ' @$ ' '$ ' M 120' S ' K' +1/.' 1/%XT' ' -' ' M S R' 1/%X' ' : 119 /C' 6 9 ! ' ; %" ' + ' RT' 6/6? ' 7 (' =' ' 'QN' /6-9*' 6?;*/' % %' 6' >*/*D-6,*0' 25/ .)' 0^ + 2*' 620' ?*,6=) . > 62' 86.' D1-2' 6,' 1-8 >)' >,1^ D*-' S ' : *' -*>* +*0') .' -.,' *0;>6, 12' 2',)*' -**C.>)11/1' 1-8 >)' D;,' 86.' *2,*-*0' 6,' SR' 2' 6;.' 1//*5*' 6?D- 05*' M()*' 1//18 25' 6>>1;2,' .1' 6-' 6.',)*' =>,.' 1' /6-9* .' / *' 6-*' >12>*-2*0' .' ?10 *0' -1?' /A*' 6 "' % '8)>)' .' D6.*0' 12',)*' ; %" ' ; !(8' ,',8*2, C12*' 6 ,*-' >/1.*C' ' .,;0 25' 620' A;.,/ '6==-*> 6, 25',)*' -*6.12 25.' 1' *8,12 .' ' - 2> = 6 J' 8)>)')60',)*2' A;.,'6="X*6-*0')*' =;D/ .)*0' 6' 2*8' +*-. 12' 1 ',)*' ,*L,' 1' 1D6 /,.' " ' 8 ,)' 2;?*-1;.' >-,>6/' 21,*.' 600*0' 8 ,)' ,)*' + *8' 1 'D- 25 25',)*' 6-,*. 62' ,*?' 2,1' 0 .-*=;,*' DE' *L=1. 25',.' 6//6> *.' ,*-'=6.. 25',)-1;5)' 1;-' *0 , 12.' 6.',)*' $2 +*-. , ',*L,CD119' ,' 56+*' =/6>*' 6.' /6-9*' 0*. -*0',1',)*' 601=, 12' 1 ';20 .5;.*0' *8C

,0b2 62' ,-*6, .*.% : *' 218' 8*2,' ,)-1;5)' 6' 0 / 5*2,' 2' 12012% : *' =;D/ .)*0' 2' ,)*' .6?*' *6-' 62' 62^
>1;-.*' 1 ' D/ >6/ -*60 25' 2' ,)*' 1- 5 26/ /625;65*. ' .8*-' ,1' ,)*' ,-*6, .*' 1 ' -% 108*// 2' ,)*' 1;/ J'
2' ,)*' >1;-.*' 1 ' 8) >)') *' >6-* ;// ' .,;0 *0' ,)*' *6-/ ' 2' 8) >)' ,)6,' ,' .' 21,' ? ?1-,6/
)- .,62' 6,)*-.% 2') .' 1-0 26, 12')*' 86.' 2,-1I' ;2, / ?60*' .1' D ' D6=, . ?% *+*-6/ -*A1 20*-.' 1//18^
0;>*0' ,1' -% <1-*' D .)1=' 1 ' 1-8 >) ' D ' &) .,12' *0' 12' *6>)' . 0*% : .' =6,-12% -' <1-*' 2*L,' =-1>;-*0'
8)1?')*' .;>>**0*0' 6.' 01?*., > >)6=/6 2',1',)6,' D .)^ 1-') ?',)*' -*>,1-.) =' 1 ' ,%B6?*. .' 620' 6' >)6=/6 2> '
1=' 1-',8*/+*' *6-.% 2' SRR')*' =;D/ .)*0',)-**' *.^ ,1' # ;**2' 22*' 8) >)' 20;>*0') ?',1',69*') .' 0*5-**'
.6 .' 12' 1' ; % 1' 620' 5 % 1',15*,)CP 1' % % 2' K' 6==*6-*0') .' $ % ' ' ' '
>-' 8 ,)' 5 ' ' H((' & 1' >12>*-2 25' " ' -# '6' 81-9' 8) >)' 2+1/+*0') ?' 1-',)*'-*?6 2^
,)*' ;2>6212 >6/ 41.=*/.% (81' *6-.' 6 ,*-86-0.' 1/^ 0*-' 1') .'/ *' 2' 6' >12,-1+*-. ' 2' 8) >)') .' =- 2> =6/
/18*0') .' %" ' ' " ' @ ' ? % 18) >)' 2^ 60>*1;2,1'),)*' 60+*.6- '86.' -' & 6,*-/620% ' ;// 6>>1;2,1'),)*'
0;>*0' .)1=' <1-*',1'=-*.*2,') ?' 8 ,)',)*' / + 25' 1' >12,-1+*-. ' ?6 ' D*' 1;20' 2' 62' < /0*-, .' ' '
-6 ,12' 2*6-' 1-8 >)% 2' ')1' 86.'6==1 2,*0',1' 'M.*'*6/.1' " 3!' ()*' 18*-' : 1;.*'
=-*6>)',)*' 1 /*'/*>,;-*' 6,' L 1-0' 8)*2')*' >)1.*' 1-' 1' 12+1>6, 12' 2' ' >1?=/6 2*0',1',)*' D .)1=.' 1' '
) .' ;D A*>,' -" ' ; ' & ' ? ()1'.6,^ ,)*')*,*-101L' 620' 0625*-1;.' ,*20*2> ' 1' ,.' - 62'
. 6>, 12' 8) >)')*' 56+*' 12',) .' 1>>6. 12' /*0',1') .'-*' ,*2*,.' 620' /6-9*' 86.' =-*+6 /*0' ;=12',1' 6=1/15 [*'
/>, 12',)*' 1//18 25' *6-' 8)*2')*' -*60' 6' .*- *.' 1' 620',1' 0*>/6-*') .' 2,*2, 12' 21,',1' 8- ,*' 62 ' ?1-*'
/*>,;-*.' 12',)*' 6 ' ' ' ' ' 5 ;=12',)*' (-2 , % ' > ->; ? .,62, 6/ 6>>1;2,' 1',) .'
' ()*.*' 0 .>1;-.*.' =6..*0',)-1;5)' .*+*-6/ *0^ =-1>**0 25' .'5 +*2' 2',)*' &% ' ' ! ' %
, 12.% /6-9*.' 6-5; ? *2,' 1-',)*' D* 25' 1' 410' -*.,.' ' /6-9*.' 6-5 +*8.' 8*-*' 2' -*6/ , ' 6' -*=-10;>, 12' 1'
;=12',)*' 6>',)6,' 8*')6+*',)*' >12>*=, 12.' 1' '620' - 5*2 .,>' 620' : 5)C - 72' 01>,- 2*' 1' .;D1-0 - 6C
% 1*L=-*.. +*' 1 '>*-,6 2' 6,,- D;,*.' 1-'_;6/ , *. ' ,)*' , 12' 6.' 0 .,25; .)*0' -1?',)*' ,)626. 62% : .' =1. ^
12*' *,*-26/',)*' 1,)*-' // ? ,6D/*' 2' ,.' 26,;-*% ;' , 12.' 8*-*',)*' 1//18 25' ()*' .;=-*?*' 620' 12/ ' 410'
+- ' _;6/ , ' ? ;.,')6+*' 6'>1*L .,*2,' .;DA*>,' 1' 8) >)' .',)*' 6,)*-' ',)*' .1/*' 1- 5 2' 1 ' 6// D* 25' =18*-' 620'
,' D*/125. ' 620',)*-* 1-*')*' 6-5;*.' ,)*-*' ? ;.,' *L .,' 6;,,)1-, % ' 12>*-2 25',)*' 6,)*-' ,' 81;/0' D*',)*'
6' ' 8)1' =1..*..*.',)*.*' 6,,- D;,*.' 1' 2 2, ' ,)6,') 5)*.,' D/6.=)*? ',1' 6 -?',)6,')*' >1;/0' =1.. D/ '
.',)*-*' ? ;.,' D*' 6' 410% ()*' . ? 6-, ' D*,8**2')6+*' D*>1?*? 62' 1-',)6,')*' >1;/0' =1.. D/ ' ^
/6-9*.'6-5; ? *2,'620',)6,'1' = 21[6' 2' ? 62' =1 2,.' *-*0' 2' 62' '.*2.*' 2' 62' .;==1. , 12' 2' 62' '>6=6> , '
.' 6,'12>*' *+ 0*2,% ()*' D1,)' .,6-,*0' 8 ,)',)*' 0*6' 2' 62' ' > ->; ? .,62>*' 2' 62' .,6,*' 1-' 2' 62' '26,;-*'
1'2*>*..6- ' 1'.)18 25',)6,' '6 A ',) 25'*L .,' 8)6,*+*-%' & ,)',)*' 6,)*-',)*-*') 6.'*L .,*0' `-1?'
H ' " ' ? ;.,')6+*' *L .,*0' -1?'*,*-2 , % ,)*' 0*6' 2' 62' ' .*2.*' 2' 62' .;==1. , 12' 2' 62' '>6=6> , '
0 ., 2>, 12' D*, 8**2' ,)*' ,81' 6-5; ? *2,' 6- .*.' -1?' 2' 62' ' .,6,*' 1-' 2' 62' '26,;-*' 6' 6,' 12>*' *+ 0*2,% ()*' D1,)' .,6-,*0' 8 ,)',)*' 0*6' 8)6,*+*-%' & ,)',)*' 6,)*-',)*-*') 6.'*L .,*0' `-1?'
,)*-' 0 *-*2,' 0*,*-? 26, 12' 1',)*' ' -1?' 1' 2*>*.6- '>12>*=, 12.' 1',)*') ;^ 1' 2*>*.6- ' >12>*-*' 2' 62' ' .,6,*' 1-' 2' 62' '26,;-*' 6' 6,' 12>*' *+ 0*2>*' 2' 62' ' .,6,*' 1-' 2' 62' '26,;-*'
8/ >)'1;-'-*6.12 25' ? ;.,'>1? ?*2>*' /6-9*' 6 -?^ 6' 6,' 12>*' *+ 0*2,% ()*' D1,)' .,6-,*0' 8 ,)',)*' 0*6' 2' 62' ' .,6,*' 1-' 2' 62' '26,;-*'
0',)' 0*6' 1' 2 2,*' ,1' D*' ;206? *2,6/ I' 6 2' 8)*,)*-',)*' 12' *L .,*0' -1?' 6 2' 8)*,)*-',)*' 12' 86.' D*51,,*2' -1?' ,)*' .6?*' *.^
620',)*2' 2 *--*0' 62' 2 2,*' .;D.,62>*' = 21[6' D*^ 6//*,*-2 , ' 1-' 12/ ' D* 1-*' 6// 81-/0.! 2*',)*-' .',>*-^
562' 8 ,)',)*' 2 2,*' .;D.,62>*' 620' 2 *--*0',)*' 6,^ .*2>*' 8 ,)',)*' 6,)*-' 1-' ?60*' 1;'1 '21,) 25% ' 1,)'
,-D;,*.% ()*-*.;/,' 86.',)6,',)*' /6,,*-'-*.,*0' 26/ A7 6-*' 81-,)' 1 '>*2.;-*' 8)1' 12',)*' 12*')620' 6 -?'
2',)*' 21, 12' 1'.;D.,62>*' 6.' 0*2, >6/ 8 ,)' 410' 620' ,)6,',)*' 12' 86.' ?60*' 1;'1 '21,) 25' 1-' 12',)*' 1,)^
-*0;>*0',)*' >1? ?12',)* .?',1'=62,)* .?1',)*' 1-?*-' *-' 6 -?' ,)6,',)*' .',)*' .*/ C*L .,*2,' .;D.,62>*%'
-*6.12 25' -1?',)*' 6,,- D;,*.' 86.' 1=*2' ;=12' 1,)*-' /6-9*' 8 // 21,' D*' =1. ,+*';=12',)*.*' =1 2,.' D*>6;.^
*+ 0*2>*',1' >12>* +*' 1',)*?' 6.' *L .,25' 2' 6' 0 + 2*' 1',)*' 0625*-' 1' =-*.;?25',1' D*' 6D/*',1' 0* 2*',)*'
=*-.126/, ' 2',)*' 410' 1')- .,62, % ' ()*' >/*6-^ =6-,>;/6-' ?*,6=) . >6/ ?622*-' 1',)*' 12' .' 0*- + 25'
2*..')18*+*-' 8 ,)' 8) >)' D1,)' 5-6.=*0',)*' 0*6' 1' " ' /' ?*..*2>*' -1?',)*' 6,)*-% & ,)',)*' 6,)*-' 6',) -0' 3
1' 6.' 12*' 1',)*' 2*>*..6- '>12>*=, 12.' 1',)*') ;^ *-.12')6.' 6/.1' *L .,*0' 0*- + 25') .' *..*2>*' -1?',)*' ?'
?62' ? 20' .' 2' *',)*-' >6.*' 6D;2062,/ ' ?62 *.,' *.*-.12') .' ()*' .' *-.12')6.' R5)*-',/*.' 6.^
M<1-*//' # ' ' ' " %" 1' >)6=' 'g KX% >-D*0',1') ?',)62',1' 62 '625*/' 1-' 1,)*-' >-*6,*0' D*^
; ?*-1;.'-*=/ *.' 620' 1DA*>, 12.',1',) .' '% '6-^ 25' 8)6,..1*+*-' D;,' .' 218)*-*' >6//*0' 410' 2' >- =^
5; ?*2,' 6==*6-*0 6,',)*' , ?*' 1' ,' -.,' =;D/ >6, 12% ,;-*'D* 25' .;D1-0 26,*',1',)*' 12'D1,)'D ' '620'
M **' 6' / .,' 2' == . .' ; !' ; 1' 620',)*' >1--*^ D' ',)*' ' 1',)*' 6,)*-% ()*' *--=-' 1' /6-9*' 1- 5^
.=120*2>*' D*,8**2' ;,/*-' 6 ,*-86-0.' D .)1=' 1' ;-^ 26,*0' 2') .' 6 /;-*',1' 0 .>- ? 26,*' >6-* ;// 'D*,8**2'
)6?'620' /6-9*' =- 2,*0' 6,',)*' *20' 1' .)1=' ;,/*-.' ,)*' *..*2>*' 620',)*') =1.,6. %' : *2>*' 2' _;1, 25'
& 1-9.%' 2*' 1',)*' =- 2> =6/ 86.' ' 2' 2_; - ' 2,1' -1?',)*' >- =,;-*.' 620',)*' 6,)*-.')*' -* *-.',1',)*'
,)*' 0*6.' 1' =6>*' (?*' *,> 'D' .)1=' 68% ()*' =/ -6.*1/15A!',)6,' ?=/*.' .;D1-0 26^
6 '6/.1' ?*,' 8 ,)' .,-125'1==1. , 12% & 'g * $ ' 0 - #! ()*' 1;206, 12' 1' ?1-6/ , ' ,12' 620' 8) >)' 86.' 2,*20*0' D % ,)1.*' *?=/1, 25',
6>>1-0 25',1' /6-9*' >12. ..,' 2',)*' ? ? ;,6D/*' 0 *-^ ,1' 6==/ ' 12/ ',1',)*' " % ' " ! : *' *+*2'
2>.' -*/6, 12.' 620' *,*-26/ ,2*..' 1',) 25.% ()*' > ,*.' .;>)') 5) (-2 ,6- 62.' 6.' ,)626. ;.' 620' : /6-
/6.,' *L=-*.. 12' D* 25' 1' -*_;*2,' 1>>;--*2>*' 2',)6,',)*' 6.') 1/0 25' 620',*6>) 25',)6,',)*' .;D1-0 26, 12' 1',)*'
0 .>1;-.*%6>_; -*0' 6' 6.) 126D/*' ;.65*' 2',)*' *,) >6/ 12' ! ()*' 12' 2' 6 /;-*',1' 0 .>- ? 26,*' >6-* ;// 'D*,8**2'
+1>6D;/6-*.' 1',)*' 06% *56-0/*..' 1' ?1-6/ .*2, ^ 1' 620' *,*-26/ ,2*..' 1',) 25.% ()*' /6.,' *L=-*.. 12' D* 25' 1' -*_;*2,' 1>>;--*2>*' 2',)6,',)*' .;D1-0 26, 12' 1',)*'
?*2,' .'1' ;// '0*+*/1=*0' . 2>*' D ')6 ,*.D;-' ' : ;,>)^ 12' 620' 06?' ? ,)' /6-9*' 2. .,.' .1/*/ ' ;=12',)*' 0 .>1;-.*%6>_; -*0' 6' 6.) 126D/*' ;.65*' 2',)*' *,) >6/
.12' 620' 06?' ? ,)' /6-9' 2. .,.' .1/*/ ' ;=12',)*' 1 ' 52 ' '>-*6,*0%' ()*' ;' 1 ' 2*>*..6- '>12>*=, 12.' 1',)*') ;^
=- 2> =/*',)6,',)*' >- ,*- 12' 1' ?1-6/ -*>, ;,0*' .' 2',)*' ? ?, 25' 1' ?1-6/ .*2, ^ ? .>12>* + 25',)*' >>2*' ;.*' 1',)*.*' ,81',*-? .'/ *' 1 ' 2*>*.' -*/6, 12.' 620' *,*-26/ ,2*..' 1',) 25.% ()*' *20*6+1-.',1'=-1+*',)6,',)*' >*2*' (-2 ,6- 62.',6;5),'
>12 122 ,' ,1' 1-' 0*+ 6, 12' -1?',)*' 26, ;-6/ 620' *,*-^ ,)6,',)*' 6,)*-' 6/12*' =1..*..*.' 2*>*..6-AC*L .,*2>*' '
26/ ,2*..' 1',) 25.! 2' 1,)*-' 81-0.',)6,' 62' ? ?1-6/ 8) /*',)*' 12' *L ...' >12, 25*2,/ % ;,' D1,)' 1',)*.*'
6>,' .' 62' --6, 126/ 6>, ',)6,' .' 62' 6>,' 2' + 1/6, 12' 1' ,*-?.' 6.' 8*')6+*' .**2' 8*-*' / ? ,*0' D',)*' 1;2>/
,)*' 6>,;6/ -6, 1.' 1' *L .,*2,',) 25.% ()*' *20*6+1-',1' 1' >*',1',)*' *-.12' 620')6+*' 21' -*/6, 12',1',)*' *.^
-*0;>*' ?1-6/ =) /1.1=) ',1' ?6,)*?6, >6/ >*-,6 2, ' 86.' >)6-6>,*- .,>' 1' ,)6,' 65*' 620' /*0',1',)*' 1-?6C7 .*2>*% ()*' *..*2>*' 6.' .;>)' 2* ,)*-' D*5*,.' 21-' .'
, 12' 1',)*1- *.' -*?6-96D/*' =*-)6=.' ?1-*' 1-',)*-' 2C7 D*51,,*2% ()*' ?*-*/' 20 >6,*',)*' =*>;/6-' ?622*-'
5*2;,' ,)62',;/, % -% ->*' .'62' 6=1/15 .' 1-',)*' 2*2% ()*' ?1-6/,)*1-' 1' /6-9*' 620' 6?125',*' 1==;52*-.' 8*' 12*' 620',)*' .6?*' *,*-26/ .;D.,62>*' 1-' 26,;-*% 2' ?6' 2.,62>*' -' B6?*.' <6>9 2,1.)' ' '6 "9 ;.' .*' 1',)*',*-?.' >12.*_;*2,/ ' `D*51,,*2' .52^
' " %" ' =% Q' ._% .*' 6/.1' &)*8*/ ' # ' ' *.' ;2>-*6,*0' 6.' ?;>)' 6.' 01*.' ;2D*51,,*2% ()*'
' " %" ' /*>,% +% *51,,*2' 12' .' 6.' 2*>*..6- /A7*L .,*2,' 6.',)*' (B2D*C
2' S /6-9*' 1D,6 2*0',)*' -*>,1- '1' ,% *22*,, . 51,,*2' 6,)*-' D*>6;.*' ,)*' *..*2>*' .' ,)*' .*6,' 620

.1;->*' 1 ' 2*>*. .6-A' *L .,*2>*' 620' ,) .' .' =1..*..*0' 6/ 9*' D ' D1,) ' 2',)*' 2.,62>*' 1 ',)*' -.,' *-.12' D ' =6,*-2 , ' 620' 1 ',)*' .*>120' D ' /6, 12I7 M)*00 '

( )*' =1 2,' 12' 8) >)' /6-9* .' =) /1.1=) >6/' 6?*' >) * / '-*.,. ' 620',1' 8) >)')*' 0*+1,*0' 6' +*- '>12. 0*-^ 6D/*' =1-, 12' 1 ') .' / *' 86.') .' >12,-1+*-. ' ;=12' 1' ' '7 ' 6' >12,-1+*-. ' 2' V8) >)')*' .,110' 1==1.*0',1' * D2 ,['620' 1// 2. ' 620' D ' 8) >)')*' *2^ 0*6+1-*0',1' 1+*-,;-2 ' 26// ' ,)*' 6,6/ ., >' >12>/; . 12.' 1 ' = 21[.?% ( )-1;5)1;,' ,) .' >12,*.,',)*' +>,1- ' 2' 8) >)' 86.' >/6 ?*0' 12' D1,)' . 0*. ' /6-9*' ?6 2,6 2*0' ?1..'=18*- ;// ',)*' 01>,- 2*' 1 ' -**C8 //' 620' 6>>1-0C 25/ ')*-*' 6/.1' ?62 *..*0') .' 1==1. , 12',1',)*' =) ^ /1.1=) ' 8) >)' ,*20.',1' ?*-5*' ,)*' 0*6' 1 '.*/ ' > ,)*-' 2,1',) 6,' 1 ' 26,;-*' 1-' 1 ' 410% ' ,)*' ,)-**' ;2^ 06?*2,6/ >12>*=, 12. ' ,)*-* 1-*' -1?' 8) >)' 6// =) C /1.1=) ' .=- 25. ' ,)1.*' 1 ' 2 ,* .*/ ' 620',)*' 2 2 ,*')*/0' 2',)*' 8- , 25.' 1 ' /6-9*' D ' 6-',)*' ?1.,' =-1? ^ 2*2,' =/6>*' .1',)6,' 8*' ?6 '=-1=*-/ '-*56-0') ?' 6.',)*' *&*' -*=-*.*2,6, +*' 1 ',)*' 0*6/ ., >',*20*2> ' 0;-25' ,)*' 65*' ?7*0 6,*/ '.;>>**0 25' 1>9*' 6.' ;081-,)' 86.' 0;-25' ,)*' 65*' ,)6,' ?7*0 6,*/ '=-*>*0*0') ?J M<1-*//'# ' ' ' " %" '=,% '>)% 'g KX% 2' K ' /6-9*' 1D,6 2*0',)*' ?6.,*-.) =' 1 '& 5.,12' : 1.=,6/' 620' =;D$.)*0Z 6' +1/;?*' 1 '.*-?12.% : *' 0 *0' -6,)*-' .;00*2/ ' 2' <6 ' KR' : .' 6 % ' ' " " "" " ' 620' $ ' 8*-*' =;D/ .)*0' 6 ,*-') .' 0*6,)' M 12012' N '+1/.% +1X% 2' ,)*' " ')*' ,*6>)*.' ,)6,' 81-.) =' .)1;/0' D*' =6 0' ,1' ,)*' 6,)*-' 12/ ',)-1;5)' ,)*' 12' 620' 2' ,)*' : 1/ ' = - ,% ( )*' ?1-6/' >)6-6>,*-' 1 ' /6-9*' .' =-6 .*0' D ' 6//') .' D 15-6=)*-.% : .' =- 2> =6/' 81-9.' 8*-*',-62.^ /6,*0' 2,1' 4*-?62' D ' *?/*-' 620' =-*=6-*0',)*' 86 ' 1-' 4*-?62' 6, 126/ .?% ' : *' 86.' 6' 86- '620'+*- ' .9 / ;/ 0 .=;,62,' 8*//' 0 .>=/ 2*0' 2' ,)*' .>)1/6.,>' /15 >% 2 *- 1-',1' 1>9*' 2' >1?=-*)*2. +*2*..' 620' 1- 5 26/ , ')*' 86.' 5-*6,/ '.;=*- 1-',1') ?' 2' 6>_;-*^ ?*2,.' D* 25' *? 2*2,' 6.' 6' 0 + 2*' 6' ?6,)*?6,>62' 6' ?*,6=) . >62' 620' 6' =) /1/15 .,J' >6 "' % 8! : .' + ' 8*-*' =;D/ .)*0' 2' NQ' 2' ' +1/.% 1/% ' 1 ' 8) >)' ,)*' -.,'>12,6 2.') .' *' MD ' : 160/* XI ' 620' ' *-?12.' =;D/ .)*0' -1?') .' < ' ,)*' .*>120' >12,6 2.' S' *-?12.' 620',)*' 1 /*' *>,;-*.!' ,)*' ,) -0 ' 6'=6-6=)-6.*' 1 ',)*' 1;-' +625*/ .,,' 8 ,)' ? 21-' = *>*.' 1 ,)*' 1;-,)' ,)*' $ % ' ' ' " ' ' " ' - 1' ' 620' 6' 2;?D*-' 1 '>12,-1+*-. 6/ ,-6>,.% ',)*' .*=^ 6-6,*' 81-9.' 2;?*-1;.' *0 , 12.')6+*' D**2' =;D/ .)*0% **' D*. 0*.' ,)*' 8-,*-.' 6/-*60 ' > ,*0' M*.=*> 6// X 6 -D6 -2 .' &%% ' ' ' (' ' " ' M 0^ 2D;-5)',-62./6, 12'0 +% '+1/% 'N '._%X' : 160/* ' ' ' ' + ' M=-* L*0' ,1' + ' ' +1/.%X' : 119' 6 !' ; %" ' + ' ' &6,.12' -" ' 9 ' ' NN ' M % '*O%X' : 65*2D6>)' # ' ' ' 9 ' M*O% D ' ? ,)X' g KN 'g KSK

/6-1 212,62;. ' d% ** $ / !

/6-9.12 ' o · ' 86.' D1-2' <6->)' KS' S ' .' & .D*6>)' 6?D-05*.) -*' 8)*-*') .' 6,)*-' 6' >/*-5A C ?62' 86.' ?6.,*-' 1 ' ,)*' -** 5-6?76-C.>)11/% :*' .,;0 *0' 6,' ,%B1)2.' 1//*5*' 6?D-05*' 620' D*>6?*' 6' =-1?1,*-' 1 ',)*' 62, C./6+*-' 65,6, 12' 2' 4-*6,' - ,^ 6 2' D ' 6' 6, 2' =- [*C*..6 ' 8) >)')*' 8-1,*' 2' Q ' 12' ,)*' _;*., 12' .' ,' - 5),' ,1' ?69*' ./6+*.' 56 2.' ,)*-' 8 7/HJ' 2' 1-0*-',1' =;-.;*',)*' 65,6, 12' 1 ',)*' _;*., 12')*' -*/ 2_;.)*0') .' >)62>*.' 1 '60+62>*?*2,' 2',)*');->)' 1-' 8) >)')*' 86.' 2,*20*0' 620' 2' 8) >)')*')60',69*2' 0*6>12 .' 1-0*-.% : .' *..6 ' 86.',-62.^ /6,*0' 2,1' 25/.)' 620')60' 62' *L,*2. +*' > ->;/6, 12% ()*2>* 1-,)' .' /*' 86.' 0*+1,*0',1',)*' 62, C./6+*-' 65,6, 12' 2' 4-*6,' -,^ >6;.*% :*' /6D1-*0' 20* 6, 56D/ ',1' D-25',1' / 5),',)*' 2 _;*.,' 620' >-;*/, *.' 1 ',)*' ./6+*C,-60*' ,-6+*// 25' .1?*' *6-.',)1;.620.' 1 ' ? /*.' 2' ;-,)*-62>*' 1 ') .' D*2*+1/*2,'0*. 52.' 620' =;D/ .) 25' 12',)*' .;DA*>,' 6/^ ?1.,'*+*- ' *6-% :*' / +*0',1' .**' 21,'12/ ',)*' ./6+*C ,-60*' 6D1/ .)*0' M 2' Q X' D;',)*' 6D1/ , 12' 1 ' ./6+*- ,.*/ ' 2',)*' - , .)' & *.,' 20 *.' 2' QNN% :*' 6/.1',119' 62' 6>, +*' =6-,' 2' 1,)*' D*2*+1/*2,' .>)*?*.' =6-, >;^ /6-/ ' 2',)*' *.,6D/ .) ?*2,' 1 ' 2., ;, 12.' 1-' .*6?*2% :*' 0 *0' *=,% KS' Q S% : .' =- 2> =6/' 8 -, 25.' 6,*' # ' ' " '& ' ' " '$ = ' MK +1/.% +1' Q Q' 2*8' *0% ' 8 ,)' -* 6>*' D ' -1;5)6?' QNRX' T &' + ' Q T' 620' 6' ' ' ' Q N% *>' (6 /1-' ; !' $+ "' ' -!' + (! ' M 120% Q K?1X

/6..C/*60*-% ** 4 !

/6..C?**, 25.% 2',)*' <*,)10.,' = .>1=6/');->)' 620' 20**0' 2' 6// <*,)10.,' >) ;->)' *.',)-1;5)^ 1;',)*' 81-/0' *6>)' >125-*56, 12' .' 0 + 0*0' 2,1'.?6/' *-' >1?=62*.' >6//*0' ! 2*' 1',)*' ?1-*' *L=*- ^ *2>*0' ?*?D*-.' .' 6==1 2,*0' D ',)*' =6..1-',1' D*' ' 1',)*' >/6..% ' ,' .') .' 0;, J' 2',)*' <*,)10.,' = .^ >1=6/');->)' % (1'.**' *6>)' =*-.12' 2') .' >/6..' 12>*' 6' 8**9' 6,' /*6.,' 2' 1-0*-' M %X (1' 2_;-*')18',)*-' .1;/.' =-1.=*-% MK%X (1' 60+ .*'-*=-1+*' >1? 1-,'1-' *L^)1-,'6.' 1>>6. 12' ?6 '-*_; -*% MN%X (1'-*>* +*' 8)6,' ,)*' 6-*' 8 // 25',+5' +*' ,186-0.' ,)*' -*/ *' 1',)*' =-*6>)*-.' >) ;->)' 620' =11-% ' (1' ?**,',)*' ? 2 .^ ,*-.' 620',)*' .,*86-0.' 1 ',)*' .1> *, '12>*' 6' 8**9' 2' 1-0*-' M %X (1' 2 1-?',)*' ? 2 .,*-' 1 '62 ',)6,' 6-*' . >9' 1-' 1 ' 62 ',)6,' 86/9' 0 *1-0*-/ ' 620' 8 // 21,' D*' -*^ =-1+*0% MK%X (1' =6 ',)*' .,*86-0.' 8)6,',)* ')6+*' -*^ >* +*0' 1 ',)* -' .*+*-6/' >/6..*.' 2',)*' 8**9' =-*>*0 25J' >' % '=,% '>)% 'g X '-;0 ?*2,' 1 ',)*' >/6..C?**, 25J' ?6 '=*-)6=.')*' 1;20' 2' ,)*' %" ' D*5;2' 6,' 1-,)6?=,12% ()*.*' 8*-*' -*/ 5 1;.' ?**, 25.' 1-' 0 .>;.. 12.' 12',)*' >-=,;-*.' =-6 *-' 620' ?;,;6/ 2.,-;>, 12' >120;>,*0' D ' >/*-5 ?*2' ;20*-' L*0' -;/*.% .)1=' 4- 206/' .)1=' 0-9);-.,' 620' 1,)*-' D .)1=.') 5)/ '6==-1+*0' ,)*?' D;,' #;**2' / [6D*,)' =-1) D ,*0',)*?' M<6 ' ' T & /9 2. ' ' + ' KQRXT ,)*' 8*-*A)18*+*-' 9*=,';=' 2' ,62 '=/6>*.' ;2,/ &) ,5 ,' M8)1' D*>6?*' 6->)D .)1=' 1 ' 62,*-D;-' 2' QNX ;>>**0*0' 2') .'+ ^ 1/*2,'86 ' 2' =;,, 25',)*?' 0182% <6-.0*2'> " " ' $ ' ' K X -*?6-9.' ,)6,',)*.*' ?*A*, 25.' 56+*' & *./*' ,)*' 0*6'1 ',)1.*' .1> 6/?**, 25.' 2' 8) >)',)*' /6 , ' 8*-*' ,1' .;,,6 2' 62' ?=1-,62,' =6-,' ,)1;5)' .,//6, 20*-',)*' 5; 062>*' 1 ',)*' -' =6.,1-.' 620' 2' 8) >)',)*' .,-*25,)' 1 ' <>,/ 10 .?' >12. .,.J' M.**' 6/.1' 4-62,'# 2 ' ' " ' 6 " ' ' KS' 12012' Q X% 2*6-*-' 6==-16>)',1',)*' >/6..C?**, 25J' .' ,1' D*' 1;20' 2',)*' = + ((.1' 8 0*/' 0 ;.*0' 2',)*');->)' 1 ' 25/620',186-0',)*' >/1.*' 1 ',)*' ,)' >*2^ ,;-' >>1-0 25',1' & 11086-0' >5 ' ' " ' 5 ' $ ' *,> 120% X' ,' 86.' 6D1;,' SSS',)6,'.*+*-6/ 1;25'?*2' 2' 12012' D*25' D-1;5),' ,1'.*-1;.' >12+ >, 12.' D ',)*=-*6>) 25'1 ',)*-' >/*-5 ' 620' 6==/ 25',1',)*-' ? 2.,*-.' 1-' -*/ 5 1;.' >1;2.*/' 8*-*' 60+ .*0' D ',)*?',_' ?**,',15*,)*-' 12>*' 6' 8**9' 620' 6==/ ',)*?.*/+*.',1' 5110' 0 .>1;-.*' 620',) 25.' 8)*-* 2',)*' ? 5),'*0 '12*' 621,)*-J' ( )*.*' .1> ^ *,*.' .112' ?;/,=/ *0' 20' 2' S Q 6' 0 5*.,' 1 '-;/*.' 1-' ,)*-' >120;>,' 86.' 601=,*0' -1-2*>9' *+*- 05*' ,/C / 25 /**,' 620' (//1,.12' 8*-*' 6?125',)*' =-1?1,*-.' 1 ' ,)*.*' .1> *, *.% SR ',)*-*' 8*-*' 1-, ' 1 ',)*.*' -*^ / 5 1;.' .1> *, *.' 2' 12012' 620' ?62 ' 2' 1,)*-' =6-,.' 1 ' 25/620% 1-' -;/*.' .**' &11086-0I M>,*0' 6D1+*X' 620' 6/.1' : 119' 6 ';% " NSN T + ' SS% -% /6-9*' > ' ' " ' ' @ ' 120% Q N' +1/% '=% X' 5 +*.' 6' /*,,*-' -1?' 6?;*/ & *./*' ' " ' 5 ' $ ' M SRRX' 2' % 8) >) V,)*' 6-*' 26?*0' 6.' .;==/ 25',)*' /6>9' 1 '>12 -6^ ,*-2 , *.' .106/ , *.' *,>% ' 2' ,)*');->)' 1 ' 25/620' 620',)*' -' 1DA*>,.' 620' ?*,)10.' 6-*') 5)/ '>1??*20*0% 2',)*' =*2*-' 6,' 6D1;',)*' .6?*' ,?*' D60' *20.' 620' ?*,)10.' .1?*8)6,' /9*',)1.*' 1',)*' /6,*-' >/6..C?**,^ 25' M.**' + g / 3!' & 11086-0 .' D119' 86.' ,-62./6,*0' 2,1' 4*-?62' *L>*//*2,' M SRRX' 2' % B6D/12C .9' M % x ' 620' ? /6-' .1>*, *.' 8*-*' 1-?*0' 2' +6-^ 1;.' =6-,.' 1 ' 4*-?62 ' > " ' 5 - ' B;/

Q K X% ()*'2*6-*.,'6==-16>)',1',)*' '>/6..C?**,^ 25J'2',)*' 1?62');->)' .'=*-)6=.',1'D** 1;20' 2' ,)1' 1> *, '1' ,% 2>*2,'0** 6;/J'8)>)' .'>1?^ =1.*0'1'/6 ?*2'8)1.*' 1DA*>,.'6-*' ?;;6/*0 >6, 12' 6,'=*- 10>6/ ?**, 25. ' 620',)*' =-1?1, 12' 1'6>, +*' >)6-, % ** ' '+ $ ' #' ! &)*2' &*./* '>1?**2>*0') .' , 2*-62,'/6D1-.',)*' -*>* +*0' <-% &*./* ' 8 ,)' 1=*2' 6-?.J'M 19*' 620' <11 *' ' ' RK'=% 4' X% ,' .'21,'6,'6// ;2/ 9*/E7,)6,' & 7*./* .'+ *8.'6.',1',)*' ,-;*' .1)/J'/ *' 1')- ., 62 , '-*>* +*0'62' ?=;/.*' -1?',)*.*' 1-562 [6, 12.% ;,'6>>1-0 25',1'D.' 182' 6>>1;2,',)*' '>/6..C?**, 25J'6-1.*' 1;,'1'8)6,'86.'6,' -.,'6'?*-*/' .>6/ =/62',1'=6A'6'>);->)'0*D,'2' - .^ ,1/M KX' ,'86.'65-**0'M %' ()6,'*+*- '?*?D*-' 1',)*' .1>*, ',)6,'86.'6D/*' .)1;/0'>12,- D;,*'6'=*22' 6'8**91' MK%' ()6,',)*'8)1/*' .1>*, '.)1;/0'D*'0 + 0*0' 2,1'/ ,,/*' >1?=62 *.' 1-' >/6..*.'6D1;',8*/+*' 2'*6>)' >/6..'T 620' MN%' ()6,'12*'=*-.12' 2'*6>)'.)1;/0'-*>* +*' ,)6,' >12,- D;, 12' 1',)*' -*.,'620' D- 25' ,' 2',1',)*' .,*86-0.'8**9/ % ()';.'D*562',)6,'*L>*//*2,' 2.., ;^ , 12'?*-*/';=12' 6',*?=1-6/6>>1;2,' -1?'8)>)'8*' -*6=*0'.1'?62'.=-.,;6/D/*.. 25.',)6,'8*'.112' L*0' ,)*'.6?*'-;/*' 2'6//'1;-'.1>*, *.J'M&*./* ' " ' % *O%'+ 'N X% 1?*'/?*'6,*-'>1?=/6 2,.'D* 25' ?60*',1'&*./* '1',)*'>120;>,'1'.1?*'?*?D*-.'1',)*'.1>*, *.' ,.-;>9')' .'?20' () .' .',)*'+*-' ,)25'8*'2**0% ()*/*60*-.'6-*',)*'=*-.12.'8)1'?6' 21,'12/'-*>*+*',)*'>12,- D;, 12.'D;'6/.1'86,>)'1+*-' ,)*'.1;/.'1',)*-'-D-*,)-*2J'M&*./* ' + '+ 'NS X% //<-% &*./* .'.1>*, *.'8*-*'.112'0+0*0'2,1',)*.*' >/6..*.' ;20*-' -;/* '8)>)'6->'.,// .;D.,62, 6// '1D^ .*-+*0'M.**'6D1+*X% <;>)'1',)*'*2*-5A';2, '620'.,6D/,EI7 1'<*,)10^ .?' .'0;1',1',)*'>/6..' .,*?% ()*'?1.,'2,*// 5*2, 620' 60+62>*0'<*,)10.,,' D1/0' ,' 2')5)'*.,**?% <*,)10.?')1/0.',)6,',)*'>1??;2 12' 1'.6 2,.' ' =6-,'1'6'?62.'0;, 'D* 1-*')*'>62'>/6 ?',1'D*'6'=6-^ ,69*-'1',)*'D10'620'D/110'1'7)-.,'8)>)'.',)*' =;D/>'.52'1'*//18.)='8 ,)',)*'8)1/*'D10 T 620' ,.6 .',1'6'?62',)6,'8*')1/0',)6,' ,'.'=6-,'1'410.' 8 //,)6,'8*'.)1;/0'*L)1-,'12*'621,)*-'*0 AC 12*'62^ 1,)*-'>12*.'1;-'6;/,.'12*',1'621,)*-'>1??;2*'12* 8 ,)'621,)*-'12' 410.'0*6/25.'8 ,)';.'620'1;-'86/9' 8 ,)'410% '6?'=-*=6-*0',1'.,620'D* 1-*'?*?D*-.'1', ,)*' ;,)*-62');->)'?*?D*-.'1' -*.D ,*-62' 1- = .>1=6/>);->)*.'620'.6 '6.' '>12.,62,/'01' !1; 1?,' -1?' 1;-');->)'1-562 [6, 12' 6'+ ,6/'=6-,'1' *8' (*.,6?*2,')-., 62 , % 1;-');->)'=-1+ 0*.' 1-',)*' 20 + 0;6/ / *d ,'=-1+ 0*.' 1-',)*'=;D/>'/ *' 1',)*');->)'D;,' ,'6/,15*,)*-'/*6+*.'1;,',)*'.1>6/ / *'1',)*');->)'620',)6,'.'2',)*' *8' (*.,6?*2,' 6.' ')1/0J'M -,);-'$% "' ' ' 1' $" 1' Q NX% 1,)25' .'.1'/,,/*' ;20*-.,110' 6?125.,')-., 62.'6.',)*'26,;-*' 1',)*'>1??;2 12' 1'.6 2,..'620' ,'.+ ,6/ [25' 2/;*2>*' 2',)*'>12.*-+6^ ,12'1'-*/ 5 1;.'/ *'620',)*'*2/6-5*?*2,'1',)*'9 25^ 01?'1')-.,' ()*'>/6..C?***, 25'6?125.',)*'<*,)^ 10.,.' .'21,)25'D;,',)*'-*6/ [6, 12'1',)'.' 0*6' ,' ,)*'>12>*-' .1;/.' 6>,;6,*0'D' -*/51;.' **/25',1' >6-- '1;',)*'5-*6,'=;-=1.*'1',)*'-' `)5)'>6// 25%!' ,')6.'D**2',)*',-;*/ *'1'+*+- ',)25' 2')/*,)10.?' 2'*+*- '=6-,'1',)*'81-/0'/9*',)1.*'65*2>*.'1'26^ ,;-*'8)>)'/*'1;,'1'.5),'D;,'D',)*'-'=*2*,-6, 25'2^ /;*2>*'5+*'+,6/, '6/9*',1',)*'/18*-'620',)*'1-*.,' ,-**J I D5 , '>,% Q '=% NQ X% ' +*2' ',)*'>/6..C?**, 25'8*-*'/*..'2.*=6-6D/'D1;20' ;=' 8 ,)',)*'*2, -*'0.>=/26-'620' 262>6/*>121?''1' <*,)10.?',,/' ,.'60+62,65*.'6-*'.1'2;?*-1;',)6,' ,1'.*+*-' ,-1?',)*'<*,)10.,>'.A..*?'81;/0I'D*' ,1' 2/>,'6'=6-6/ [25'.,-19*' '21,'6'0*6,)CD/18% ,'6^ 1-0.'1==1-,;2, '1-' 2.,-;>,12' ?1-*' 20 + 0;6/620'C =*-.126/',)62'>62'D*'1 *-*0'-1?',)*'=;/=,'1-')-.^ ,62' */18.)='?1-*' 2, ?6,*',)62'>62'D*'*2A1 *0' 2' ,)*'>125-*56, 12' 1-',)*'2**0 ;/ 1;,=1;-25.'1'6' ? 20' D;-0*2*0'*,)*-'8 ,)' .1--18')-' 8 ,)' A1 ' 1-' 86,>) 25',)*'=-1--*..'1' 1;25'0.>=/*.' 1-'=-*+*2,' %C ' 25'D6>9./0 25'D ', ?*/ '60?12, 12'620' 1-'.=*>6/C 1+*-.5),'1',)*'.>9'620',)*'=11-%J' **' > .' 1' 'M %' %' /I' Q +PX' < /* ' - ' = 'M 2>226, 'Q Q?1X' 1..*-' ' = 'M >)?120' Q X' .)' , ' = 2' 'M 120% Q Q?1X' & *./* ' M % % *0 ,X' +' R'620'1 ,*2' 1-,*-' % ' ' " 1 ' Q' 1 $'# ' *' " EE b1>E&! 3\E' 9 ' " ' B;/ ' QSN'=% S R' ;5;.., Q '=% ' ? ,)' # " ' 'SS CS K' M 120% Q 'Q+1X' "!' !'5 ' M % % *0 ,X' R'SSK' '@ " '5 ' " ' = 'M % % 6-/,12'620' 1-,*-X%

/6;06'M d617FHX'6'.2A6//./620'1',)*' %&% >16.,'1' -*,*'8)>)' 6;/=6..*0'12').',*?=*.,;1;,' +1 65*',1' 1?*M >,.'L ' SX' >6//*0'6/.1'? 'D' <*/6'M ' X' 620' /277' ># !!7 !' +' KX' ' M d6;01 X'" ' ,1/*? 'M ' X'620' '>)O 8' 2',)1'$ ' ' S' ,'.,// >6//*0' =' = '1-' ? 'D',)*'4-**9.'8)>)',)*' ,6/^ 62.')6+*' >1--;=.*0' 2,1' ? // '1' 620 6',1'0.,' 7' 5;.)' ,' -1?'621,)*-' ./620'1',)*'.6?*' 26?*' M62^ >*2,/ '/9*8 .*' >6//*0' /6;01.X' 2*6-' <6/,6% ,'.'.6 0' ,1')6+*'D**2',)*' 6/A7=.1.' ./*' 1'?A7,/ >' 6?*' M 6// 2% 6=% ,-6D1'=% KRRX% >>1-0 25',1' 1>1>9*C' ,' .'218' 2)6D,*0'12/A'DA'.1?*',)-,A' 6?/*.'>6 ' 'N T' -19*.>)' ' + ' RQX% () .' 1,)*-8 .*' 2. 5^ 2 >62,' ./*,' .' 1'5-*6,'5*15-6=)>6/ ?=1-,62>*' 2' -* *-*2>*',1',)*'-*?1+6/1'.1?*1',)*'0 >;/,*.'>12^ 2*>,*0'8,)' 6;/.' .)=8-*>9'6,' <*/,6% ()*'=1.^ ,12'1' 6;06' .'2*6-/'0;*' &*1' 6=*' <6,6/6'12' ,)*' % ;'620'2*6-/A7' 0;*' % 1')1*2>*'M_%'+%X% M ** ,1/% ' T' $ =' !'=% RS'*O% 46/%X' ()*'.)='86.'.*[*0'D',)*' 56/*'6',/*' 86A17 6,*-'=6..25' 6=*' &% 1' 6=*' <6,6/6'8)*2'12')*-'86 ' -1?' 6 -':6+*2.',1')>*2>*'M >,.'LL+ ' KC X% ()*'.,1-?'>6?*'0182' -1?',)*'./620' ' ' ' X'620',)*-*'86.'0625*-'/*.,',)*'.)='.)1;/0' D*'0-+*2' 2,1',)*' ->62' A(,.'M+' X% ' .'600*0' ,)6,'.)*'86.'0-+*2',1' 6;06'620'-62' ;20*-',)*'/**' 1',M+' SX% & *'.**'6,'12>*',)6,',).'.'2')6-?12A% 8 ,)'620'>12 -?6,1-'1',)*'6-5;?*2,.'0*-+6D/*' -1?'6//*',)*'1,)*-'5*15-6=)>6/>->;?.,62>*'1',)*' >6.*'M6.'8*//6.'-1?',)*'*, ?1/15'1',)*'81-0' ;C -1>/7'012'1-' ;-1C _;/1X'8)>)'/*60' ;.',1',)*'>12^ >/;.12',)6,',)*'56/*'>6?*'-1?',)*' % %'1-'-6,)*- % % % () .'./620' .'6D1;,.*+*2' ?/*.'/125'620' ,)-**'D-160% ,.' &*.)1-*'8)>)',-*20.'2'6' %&% 0-*>,12'620' .'=-1/125*0DE' .1?*-1>9.'60A6>*2, J' 81;/0'6 1-0',)*'60+62,65*'1'>1?=6-6, +*GX7.?11,) 86,*-' 1-'.1?*',8*/+*'1-' ,**2' ?/*.J'M 0?% *2^ -1.*.'<% 2' 12 D*6-*'620' :18.12.'$!' ' ' NK X',1'6'.)=' '>6;5),J'6.' 6;/.'!86.'8,)' '6',*?^ =*.;;1;.'8 20J' -1?',)*' % % >>1-0 25/ ' ;20*-' ,)*'**' .)1-*'1' 6;06'8*-*',69'82*',)1.*'.9/;/=*7 >6;,12.'1')1.,=5'2',)*'D*6,J' ;20*-5-0 25'\1- -6== 25h',)*'.)='J'620'?69 25')*-'.2;5'/P' /18*-^ 25',)*'5*6-TJ'8)>)'9*=,',)*'.)='M %'+%X' -1?' 1;2^ 0*- 25';20*-',)*'=-*.;-.'1'6' 1-,2 5),.' 56/*' 2' 0-6 J'620'=-*.*-+*0')*-' 1-',)*'-1;5)'-*?*0'1' 6'8-*>9'12',)*' ./620'1'<*/,6'M ?,)'N !' '1+ %]' +' '$!' ' KO'*O%=% RK'RQ' S'K NX% '- 2,)' .% %' ,,1'.%+% **' / !

/6;0*'('12*'1',)*'?1.,'*?2*2,'1'-*2>)' -1,*.,62,'0+2*.'86.'D1-2'6,' 6' 6;+*,6,'2*6-' 5*2'2',)*'.1;,)'1' -62>*'2' S R% :*'.,;0*0' ,)*1/15X7 6,'<12,6;D62'86.'1-06 2*0' 2' S '620'D*^ 562') .'=6.,1-6/6D1-.'6,' 6'(-*5;*'2',)*'.6?*'*6-% 2' S ')*'86.'>6//*0',1',)*>),)-2'*.'8)*-*)*'6/.1C,6;5),'2',)*',)*1/15 >6/.>)11/% 2' SS')* 8 6.'2,*-0>,*0'-1?') .' ;2>,12.'DX7,)*'51+*-2?*2, 6.'6'=*26/, '1-'1==1.25'2',)*'=-1+ 2> 6/ .210'6' =-1A*>,'1';2 12' D*,8**2' 1?62 .,.'620' -1,*.,62,.' =-1=1.*0'D',)*'51+*-21-'1' 625;*01>% :*'&*2,',1' 6-.',1%)6+*',) .'=*26/, '-*+19*0'620'8)/*',)*-*' 86.'=-*+6/*0';=12'D'B 606,21'(;-*22*'M8)1'8.)*0

,1' .6f7*')*-') ; .D620' -1?' 1?62 . ?X',Z' 8- ,*' 656 2..' ?6 ; /0' 12' ,)*' ;>)6- .,' 8) >)' /*0',1' 6' >12,-1+*-. ' 1 '5-*6,'21,*% /6 ; 0* .',-6>,6,*' 86.'> -> ; /6,*0' 2' < %T D ; ,' 2' SS ' ?6 ; /0' = ; D/ .)*0') .' >*/*D-6,*0' % = 2 ' ' '@ ' *,>% \.**' $; ' ,1' 8) >)' /6 ; 0*' -*^ =/ *0' 2' SS ' 2') .' 51% ' ' - ' ' ' %# ' ' '@ 1' *,>%M.*** 62' 6>>1 ; 2,' 1 ' ,)*' >12,-1+*-. ' 2' 6 /* ' ,-62./6, 12' 1 ' NS ' +1/.%' +' NSSX' : *')60' =-*+ 1 ; ./ ' D**2' 6==1 2,*0' ? 2 .,*-' 6,' <12,6 ; D62' M SSKX'620' 6/.1' =-1 *..1-' 1 ' ,)*1/15 %% 2' SS ')*' 86. 2,*-0 >,*0' 656 2 ' 620' 2' ,)6,' *6-')*' D*>6?*' =6.,1-' 1 ' ,)*' * 1-?*0' >) ; ->)' 6,')6-*2,12 ' 2*6-' 6- .%' : *-*')*' -*?6 2*0' =1=; /6-' 620' ; .* ; /' -*56-0*0' 6.' ,)*' >) * ' / ,*-6- ' 0* *20*-' 1 ' -*2>)' -1,*-.62, . ? ' ; 2, / SQ % ()*' *? 2*2,' 1-,C 1 6/ .,. ' ?6 ; /0' 620' ^ >1/*' 1 ; 20') ?' 6' >6=6D/*' 620' 81-,) ' 1==12*2,% ' 2' S N 6==*6-*0') .' ' ' ' 5 1' 5 9 % ' ' * "' 21 ' '7 'M/6,*. ,' *0% 6- . ' Q ' Q+1X' 2' SQ ' /6 ; 0*')60' 6' >12,-1+*-. 6/ >12^ *-*2>*' 8 ,)' 1..)*,' 6 ,*-' 8) >)')*' = ; D/ .)*0' 5 = % ' ' ' ; 'M 6' : 6A*' SQN' Q+1X% ()*' >12 *-*2>*' 6.' ; .; 6/ '/*0',1' 21' 6==-1L ?6, 12' D*^ ,8 **2',)*' >12,*20 25'=6-, *.% 7 2' SQ ',)*' -*+1>6, 12' 1 ',)*' *0 >,' 1 ' 62,*.' D ' 1 ; .' d '1D/ 5*0' /6 ; 0*' ,1' .**9' -* ; 5*' 2' : 1//620 ' 8)*-*')*' 86.' 8*/' -*>* +*0 ' 12' 6>>1 ; 2,' D1,)' 1 ' D .' ,6/*2,.' 620') .' =*-.126/ >)6-6>^ ,*-' 620',)*'%=- 2>*' 1 ' -625*' 5-62,*0' D 2 ' 6' =*2. 12% : *' 0 *0' B62% N ' SQ % : ' ' ' ' ' ' %% ' ' ' 5 ' '@ ' 86.' ' =; D/ .)*0' 6 ,*-') .' 0*6,)' MD*.,' *0% D ' 6.265*' 1^ /152*' SN' Q+1X% : .' ., /* ',)1 ; 5)' . ?=/*' 86.' 7, 5C 1-1 ; .' D* 25' . ; .,6 2*0' D ' /15 >6/' .9 //%620' *-; 0 , 12% 6' *+ [*' 8-1,*' 6' D 15-6=) ' 1 ' /6 ; 0*' M ? .,*-06 ? ' ' SQ XJ' I16 !' % 8' *+*-6/' 1 ') .' 81-9.' 6-*' ' ,-62. /6,*0 ' + [% (182.*20' ('# ' ' ' ' 5 1' "' ' ' ' M 120% Q ' K' +1/.% Q+1Xa ' 6 ' ' " ' % ' ' '$ 'M/6,^ *.,' *0% % % Q N K?1Xa ' & ' ' " ' % ' ' " ' ' M 12012' ' K?1X% ' ' : 665' ' @ ' ' ' NT' <1.)* ?' "!' # !' >*2, ' L+ ' .*>% ' =,% ' >)% ' g K' 21,*T' 6AO*' % >% 2' /6 ; 0* .' _ ; 6/ , *.' 6.' 6' =-*6>)*-' 620') .')1? /*, >6/' .*-+ >*. ' .**' 2*, ' # ' ' ' ' =% N N ._% M 6- . ' QS ' Q+1X%

/6 ; 0*' ' o . !' **' $ $ ' ! /6 ; 0 6' M d6; 7V6 ' *-2 ' 1 ' (8' 6')- ., 62' *?6/*' ?*2, 12*0' 2' K (?% +' K ' 6.' .6/ ; , 25' (?1C ,)*; . ' % % S %)*' .' ,)1 ; 5),' ,1')6+*' D*>1?*' ,)*' 8 *' 1 ' ; 0*2. ' 8)1' .' ?*2, 12*0' 2' ,)*' .6?*'+*-.*'M6/^ ,)1 ; 5)' 2 ; .' .'26?*0' D*, 8**2X% ,')6.' D**2' . ; ==1.*0' ,)6,' ,) .' /6 ; 0 6' 86.' 6' - , .)' ?6 0*2 ' 06 ; 5),*-' 1 ' 9 25' 15 0 ; 2 ; . ' 62' 6// ' 1 ' 1?*' M(6>, ; . ' & ! X ' 8)1',119',)*' 26?*' 1 ') .' ?=*- 6/' =6,-12 ' (D*- ^ ; .' /6 ; 0 . % ; 0*2. ' 8*'56,)*-' -1?' 62' 2.>- =, 12' 6, ') >)*.,*-' 620' 218' 2' ,)*' 56-0*2.' 6,' 41108110 ' 86.' 6,' 12*' , ?*' 2' >/1.*' >122*>, 12' 8 ,)' 9 25' 15 0 ; 2 ; . ' 620' 56+*' 62' 6-*6' 1-' 6' ,* ?=/*' 1 ' *=, ; 2*' 620' < ^ 2*-+6' 8) >)' 86.' D ; /,' D ' ,)6,' 9 25 .' 6 ; ,)1- . % /6 ; 0 6' .' .6 0' 2' < 6-, 6/ ML ' NX' ,1')6+*' D**2' 1 ' - , .)' *L,-6>, 12' I ' ; ' 8!' <1-*C %p+* 7 .)*' .' ,)*-*' 6/.1' >6//*0' 5 !' 18' 1?=12 6 ' - *' 1 ' ,)*' 6,*' >1? ? 620*-' 2' - ,6 2 ' ; /; .' /6 ; , . ' ; 20*-' +H)1?' /6 ; 0 6 .' 6,)*-' 86.' -*>* +*0' 2,1' 6// ^ 62>*' D*/125*0' ,1' 6')1 ; .*' 1 ' 8) >)' ,)*' ; ' 8*-*' 12*' 2' 46 ; -' 1. 25') .' 6,)*-' 2' 2 62> ')*' 86.' 6D62^ 1 ' ,)*' >) * 'D-62>)*.% ' .)*')*-.*/ ' 8*-*' 6' ; 6' 620' /6 ; 0 6')*-' =-1,*5S*' ,)*' /6,,*-' ? 5),' 8*// D*' >6//*0' 5 ; 26' 620' 8*' 9218' ,)6,' 1?=12 6' 86.' ,- *0' 1-')6+ 25' * ? D-6>*0' 6' 1-* 52' -*/ 5 12' I % (' =' ;' 8' 2' ,)*' *6-' 'M(6>, ; ,' & ! ' L 'NKX' .1' ,)6,')*-*' 6-*' ?62 '> -> ; ? .,62>*-' 12>; --*2', *)0 25' ,1' 5 +*' +*- . ? / , ; 0*' ,1',)*' >12A*>, ; -*% 2' ,)*' 1,)*-')620 ' ,' ?6 ' D*' .6 0' ,)6,',)*' 6,,* ? =',1' 0*2, ',) .' /6 ; 0 6' 8 ,)',)*' - ,D)' /60 ' /6 ; 0 6' 8)1.*' ?6-- 65*' ,1' ; 0*2.' .' >*/*D-6,*0' D ' < 6>, 6/ I16% ! + ' NX' -*. ,.' 12' 21' 1 ; 206, 12' D* 120',)*' 0*2, , ' 1 ',)*' 26?*.' 1 ' ,)*' =6-, *. ' 6I20 ,)*' 6>,' ,)6,' < 6-, 6/ >6//.' ; 0*2. .62>, ; . J' 620' .6 .')*' 86.' 6' >1--*>,1-' 1 ') .' +*-.*.Y ; ' ,)*' 0*2, , ' 1 ' 26?*.' .1' >1? ?12' 6.' ; 0*2.' 620' /6 ; 0 6' ?6 ' D*' 21,) 25' ?1-*' ,)62' 6' ?*-*' 6>> 0*2^ ,6/' >1 2> 0*2>*' 1 6.' 1-' ,)*' ,*-?' .62>, ; . J' ,' .' =-*^ > .*/ ' 12*' 8) >)' 6')*6,)*2' 81 ; /0' ')6+*' 6==/ *0' ,1' 6')- ., 62 ' 8)1?') *' 81 ; /0') 6+*' -*56-0*0' 6.' ,)1' 60)*-*2,' 1 ' 6' =-6+6' . ; =*-., , 1J' M / 2 ' 6%!' ' - *!8'(620' 6.' -*.=*>, .' ; 0*2. .' >1--*>, 12' 1 ' <6-^ , 6/ .' +*-.*. ' ; 2, / 81' 9218' 8)*,)*-' ,)6, ' 86.' 6' >1-^ -*>, 12' 1 ' ,)* -' ., /*' 1-' 6' >1--*>, 12' 1 ' ,)* -' ?1-6/.' M 2' 8) >)' >6.*' ; 0*2.' -*6//A ? ; . ,') 6+*' 012*') .' 81-9' +*- ' D60/ X' 8 >' >62' D ; /0' 21,) 25' 12' ,% 2' ,)*' 1,)^ *-') 620 ' ,)*' ? ?1-6/->)6-6>,*-' 1 ' <6-, 6/) ?.*/ ' -*2^ 0*-.' ,' ?=-1D6D/*' ,) 6, ')*' .)1 ; /0' / 6+*' >60' 6')- . , 62' 620' 6' - *20' 1 ' 6 ; /' 6?125') .' - *20.*' ; -,)*-' 6 ; / .' ; 0*2.' 620' /6 ; 0 6' ') ; .D620' 620' 8 *' ? ; . ,')6+*' D**2' ?6-- *0' D* 1-*' % %S ' ,)1' /6, *. ,' 06, *' ,)6, ' >62' D1' 6.. 52*0' ,1' 6 ; / .' 8-, 25% ; ,' B7 6-, 6/ .' *= ^ 5-6?' ? ; , ')6+*' D**2' 8-,,*-2' 6 ,*-' ,) . ' =*-)6=.' .*+^ *-6/ *6-.' 6 ,*-' 1-')*' >6?*' ,1' 1?*' 12/ ' 2' % %SS' .1' ,)6, ' ' ,)* ' 8*-*' ?6-- *0' =*-.12.' 2' S ' ,' .' 21, / 9*/ ' <6-, 6/ 81 ; /0' >*/*D-6,*' ,)* ' -' 2 ; =, 6/.' *6-.' 6 ^ ,*-' ,) .% 2' 2*' ' 6 ; / ; 0*2.' 620' /6 ; 0 6' 8*-*' ; 2?6-- *0' 6, ' ,)*' ; ?*' 1 ') .' 8-, 25 ' ,)*' ? ; . ,' 6, /*6. ,') 6+*' D**2' =*-.12.' 1 ' .,620 25' 620' -*=; ,6, 12' 6?125' ,)*')- . , 62..' 620' 2' ,) .' >6.*' >62' , ' D*' . ; =^ =1.*0' ,)6, ' 6' =1*, ' ?*62 25' ,1' 5-6, ' ,)*?' 81 ; /0' 2^ +19*' 12' ,)*?' ,)*' 6+1-' 1 ')*6,)*2' 0* , *. ' 8)1?' ,)*') 60' -*21 ; 2>*0' 8 ,)' 6D)1--*2>*' H **' ->)0*6>12' & // 6?. .' =.-,2=)/*, % , ' ' ' M 12Z' Q QXT' 62' 6-, >/*' 2' ,)* ! 5 !' 1-' B ; / ' Q Q' *2-' , ,/*0' ' ( )*' 1?62.' 6,' 1/>)*. ,*-62 0' 62' L>; -. ; .' 2' / 1-0 .' ? +' - 'M+1/% ' =-1/*55' =% X 2' 8) >)',)*' >12,*2,.' 1 ' ,)*' , 81' 81-9.' -. ,' ?*2, 12*0' 6-*' *?D10 *0' 2' 6' . ; ?*?6- ' 1-?% **' 6/.1' 12 C D*6-*' 620' : 18 .12 .' $!' ' ' Q ' 2% ' ,,1' .%' + %T ? ,)' Q%+Z

/6 ; 0 62 ; .' < 6?*-, ; . ' 6' =-*.D .*-' 1 ' *22*' ,)' >*2, ; -A7' MO *0' 6D1 ; ,' X' 86.' 6' ?62' 1 ' .=*>; /6^ , +*' ,6/*2, ' 620' 8*// 6>_ ; 6 2, *0' 8 ,)' ,)*' ,)*1/15 ' 1 ' 3 ;5$ 7, 2*% : *' 8-1,*' 6' ,-*6, . *' ' ' ' & ' I ; "!' !' '+ T ' ; "!' ' ? ! LX' 656 2. ,') *' 62),)-1=1?1-=) . ?' 1 ' 6 ; . , ; . ' 1 ') *5 ; ?' M_%+%X% : *' .)18 .' ,)6, ' ,)1 ; 5), .' 2.*=6-6D/*' -1?' ,)*' *.^ .*2>*' 1 ' ,)*' .1 ; /' 6 ; 0' ,)6, ' , .' .= - , ; 6/ 6>, + , ' .' 20*^ .,-' ; >, D/*J' M *620*-' # ' ' ' *O% /620% ' N X% 1-' 62' 626/ . .' 1 ' ,)*' , -6>, ' .**' ; = 2 ' >C ! ' ' ' M 120% SRNX' 620' /6-9*' $ 9 ' $! ' 'K R% *-, 6 2' 6, 2') ?2.' 6-*' 6,,- D ; ,*0',1' /6 ; 0 ; .' + [%% ' ' ' M 2' ,)*' ' $ '6D1+*X' 620' ' ' ' 8) >)' /6. ,')18*+*-' .' ?1-*' =-1=*-/ ' 6.>- D*0',1' *26, ; .' 1-, ; 26,2.% 012 ; .' =1// 26- . ' ,1' 8)1?' ,)* *% 8C 'N.' 0*0 >6,*0' 5 +*.' 6' 5/18 25' =62*5A (>' ; =12' ,)*' ,6/*2, .' 1 ' /6 ; 0 62 ; .% ' ; = 2 ' R% !

/6 ; 0 ; .' M d6 ; B 1>' 1-' 6,% '=*-)% -1?' ' 8 ' ,)*' 26?*' 1 ' , 81' 1?62.' ?*2, 12*0' 2' ,)*' %(% **' 6/.1' . ! d% ()*' 1 ; -,)' 1?62'*?=*-1-'M*L>/ ; 0 25'B% 6A.6-X' 8)1' .; >>**0*0' 6/ 5 ; /6' B62%' K ' %p% % : .' ; // 26?*' 86.' o $ ' $ $ ' $ $ ' * ' 6 ' $ $ $ ' & !' ' $ ' 86.' ,)*' 12' 1 ' -; . ; ' 620' 2,12 6' 620' 86.' D1?' ; 5% ' % % '6,' 12. 62>*' D*/125*0' ,1' 6')1 ; .*' 1 ' 8) >)' ,)*' ; ' 8*-*' 12*' 2' 46 ; -' 1. 25') .' 6,)*-' 2' 2 62> ')*' 86.' 6D62^ 012*0' ,1' ,)*' >6-*' 620' .1> *, ' 1 '701?*., 7. ' 620' 0*^ .= . *0' D ') .' ?=*- 6/ -*/6, +*.' M(6>, ; . ' & ! + ' S' T' ; *,12 ; .' ! KX% 1,8 ,) . ,620 25' ,)*' 8*69C 2*.. ' 1 ' 2,*//*>, ' -*. ; /, 25' -1?' ,) .' 2*5/*>, ') *' 0*+1^ ,*0') ?. */ ' ,1' / ,*-6- ' =' ; -. ; . ' 620' 86.' ,) *' 6 ; ,) 1-' 1 ' .*+*-6/ ,-*6, . *.% 2' ,)*' ? ; -0*-' 1 ' 6/ 5 ; 6') *') 0' , 1' 5 +*' +*- . ? / , ; 0*' , 1' ,)*' >12A*>, ; -*% 2' ,)*' 1,)*-') ?. */ ' ,)-1 ; 5)' *6-' 1 ' .)6- 25') .' -*/6, +* .' 6, *' D ; , ' 620' /6 ; 0 6' 8 ,)' ,)*' - ,D)' /60 ' /6 ; 0 6' 8)1.*' ?6-- 65*' ,1' ; 0*2.' .' >*/*D-6,*0' D ' < 6>, 6/ I16% ! + ' NX' -*. ,.' 12' 21' 1 ; 206, 12' D* 120',)*' 0*2, , ' 1 ',)*' 26?*.' 1 ' ,)*' =6-, *. ' 6I20 ,)*' 6>,' ,)6,' < 6-, 6/ >6//.' ; 0*2. .62>, ; . J' 620' .6 .')*' 86.' 6' >1--*>,1-' 1 ') .' +*-.*.Y ; ' ,)*' 0*2, , ' 1 ' 26?*.' .1' >1? ?12' 6.' ; 0*2.' 620' /6 ; 0 6' ?6 ' D*' 21,) 25' ?1-*' ,)62' 6' ?*-*' 6>> 0*2^ ,6/' >1 2> 0*2>*' 1 6.' 1-' ,)*' ,*-?' .62>, ; . J' ,' .' =-*^ > .*/ ' 12*' 8) >)' 6')*6,)*2' 81 ; /0' ')6+*' 6==/ *0' ,1' 6')- ., 62 ' 8)1?') *' 81 ; /0') 6+*' -*56-0*0' 6.' ,)1' 60)*-*2,' 1 ' 6' =-6+6' . ; =*-., , 1J' M / 2 ' 6%!' ' - *!8'(620' 6.' -*.=*>, .' ; 0*2. .' >1--*>, 12' 1 ' <6-^ , 6/ .' +*-.*. ' ; 2, / 81' 9218' 8)*,)*-' ,)6, ' 86.' 6' >1-^ -*>, 12' 1 ' ,)* -' ., /*' 1-' 6' >1--*>, 12' 1 ' ,)* -' ?1-6/.' M 2' 8) >)' >6.*' ; 0*2.' -*6//A ? ; . ,') 6+*' 012*') .' 81-9' +*- ' D60/ X' 8 >' >62' D ; /0' 21,) 25' 12' ,% 2' ,)*' 1,)^ *-') 620 ' ,)*' ? ?1-6/->)6-6>,*-' 1 ' <6-, 6/) ?.*/ ' -*2^ 0*-.' ,' ?=-1D6D/*' ,) 6, ')*' .)1 ; /0' / 6+*' >60' 6')- . , 62' 620' 6' - *20' 1 ' 6 ; /' 6?125') .' - *20.*' ; -,)*-' 6 ; / .' ; 0*2.' 620' /6 ; 0 6' ') ; .D620' 620' 8 *' ? ; . ,')6+*' D**2' ?6-- *0' D* 1-*' % %S ' ,)1' /6, *. ,' 06, *' ,)6, ' >62' D1' 6.. 52*0' ,1' 6 ; / .' 8-, 25% ; ,' B7 6-, 6/ .' *= ^ 5-6?' ? ; , ')6+*' D**2' 8-,,*-2' 6 ,*-' ,) . ' =*-)6=.' .*+^ *-6/ *6-.' 6 ,*-' 1-')*' >6?*' ,1' 1?*' 12/ ' 2' % %SS' .1' ,)6, ' ' ,)* ' 8*-*' ?6-- *0' =*-.12.' 2' S ' ,' .' 21, / 9*/ ' <6-, 6/ 81 ; /0' >*/*D-6,*' ,)* ' -' 2 ; =, 6/.' *6-.' 6 ^ ,*-' ,) .% 2' 2*' ' 6 ; / ; 0*2.' 620' /6 ; 0 6' 8*-*' ; 2?6-- *0' 6, ' ,)*' ; ?*' 1 ') .' 8-, 25 ' ,)*' ? ; . ,' 6, /*6. ,') 6+*' D**2' =*-.12.' 1 ' .,620 25' 620' -*=; ,6, 12' 6?125' ,)*')- . , 62..' 620' 2' ,) .' >6.*' >62' , ' D*' . ; =^ =1.*0' ,)6, ' 6' =1*, ' ?*62 25' ,1' 5-6, ' ,)*?' 81 ; /0' 2^ +19*' 12' ,)*?' ,)*' 6+1-' 1 ')*6,)*2' 0* , *. ' 8)1?' ,)*') 60' -*21 ; 2>*0' 8 ,)' 6D)1--*2>*' H **' ->)0*6>12' & // 6?. .' =.-,2=)/*, % , ' ' ' M 12Z' Q QXT' 62' 6-, >/*' 2' ,)* ! 5 !' 1-' B ; / ' Q Q' *2-' , ,/*0' ' ( )*' 1?62.' 6,' 1/>)*. ,*-62 0' 62' L>; -. ; .' 2' / 1-0 .' ? +' - 'M+1/% ' =-1/*55' =% X 2' 8) >)',)*' >12,*2,.' 1 ' ,)*' , 81' 81-9.' -. ,' ?*2, 12*0' 6-*' *?D10 *0' 2' 6' . ; ?*?6- ' 1-?% **' 6/.1' 12 C D*6-*' 620' : 18 .12 .' $!' ' ' Q ' 2% ' ,,1' .%' + %T ? ,)' Q%+Z

/6 ; 0 62 ; .' < 6?*-, ; . ' 6' =-*.D .*-' 1 ' *22*' ,)' >*2, ; -A7' MO *0' 6D1 ; ,' X' 86.' 6' ?62' 1 ' .=*>; /6^ , +*' ,6/*2, ' 620' 8*// 6>_ ; 6 2, *0' 8 ,)' ,)*' ,)*1/15 ' 1 ' 3 ;5$ 7, 2*% : *' 8-1,*' 6' ,-*6, . *' ' ' ' & ' I ; "!' !' '+ T ' ; "!' ' ? ! LX' 656 2. ,') *' 62),)-1=1?1-=) . ?' 1 ' 6 ; . , ; . ' 1 ') *5 ; ?' M_%+%X% : *' .)18 .' ,)6, ' ,)1 ; 5), .' 2.*=6-6D/*' -1?' ,)*' *.^ .*2>*' 1 ' ,)*' .1 ; /' 6 ; 0' ,)6, ' , .' .= - , ; 6/ 6>, + , ' .' 20*^ .,-' ; >, D/*J' M *620*-' # ' ' ' *O% /620% ' N X% 1-' 62' 626/ . .' 1 ' ,)*' , -6>, ' .**' ; = 2 ' >C ! ' ' ' M 120% SRNX' 620' /6-9*' $ 9 ' $! ' 'K R% *-, 6 2' 6, 2') ?2.' 6-*' 6,,- D ; ,*0',1' /6 ; 0 ; .' + [%% ' ' ' M 2' ,)*' ' $ '6D1+*X' 620' ' ' ' 8) >)' /6. ,')18*+*-' .' ?1-*' =-1=*-/ ' 6.>- D*0',1' *26, ; .' 1-, ; 26,2.% 012 ; .' =1// 26- . ' ,1' 8)1?' ,)* *% 8C 'N.' 0*0 >6,*0' 5 +*.' 6' 5/18 25' =62*5A (>' ; =12' ,)*' ,6/*2, .' 1 ' /6 ; 0 62 ; .% ' ; = 2 ' R% !

*6>)ʻ.1/0 *-ʻM ;*,12 ; .ʻ ʻ fʻ Xʻ >>1-0 25ʻ,1ʻB1^ .*=) ; .ʻ I1& ʻf . L ʻK ʻN 620ʻ X ʻ ,)*ʻ ,)-12** f-6.ʻ 2ʻ 6ʻ 5-*6,ʻ ?*6. ; -*ʻ 26// ʻ .*>;-*0ʻ,1ʻ) ?ʻ,)-1 ; 5)ʻ,)*ʻ 60^ 0-*. .ʻ 620ʻ .1/ > ,6, 12.ʻ 1 ʻ : *-10ʻ 5- ==6ʻ ʻM ʻ+ʻX ʻ ( ) .ʻ 1D/ 56, 12ʻ)*ʻ -*, ; -2*0ʻD ʻ5-*6,ʻ 620ʻ=*>; / 6-ʻ 6^ +1-.ʻ ,1ʻ ,) 6, ʻ =*-.1265*ʻ 1-ʻ) *ʻ *2/6-5*0ʻ,) *ʻ ,*-- ,1- ʻ 1 ʻ 5- ==6ʻD ʻ600 25ʻ,1ʻ ,ʻB;06*6ʻ 6?6- 6ʻ620ʻ.1?*ʻ 0 .,- >,.ʻ1 ʻ *D6212ʻ620ʻ6==1 2,*0ʻ) ;ʻD-1,)*-ʻ : *-10ʻ ,1ʻ ,)*ʻ 9 2501?ʻ1 ʻ)6/> .ʻMB15*=) ; .ʻ L L ʻ ʻST 12ʻ 6.. ; .ʻ /L ʻQXʻ5 + 25ʻ,1ʻ,) .ʻ /6,,*-ʻ 6/.1ʻ6 ,*-ʻ) .ʻD-1,)*-ʻ0*6,) ʻ,)*ʻ=-*. 0*2> ʻ1+*-ʻ,) *ʻ (*?=/*ʻ6,ʻ B*-; .6/*?ʻ MB1.*=) ; .ʻ & ʻ LL ʻ ʻ NNXʻ 20**0ʻ,)*ʻ B*8.ʻ 8*-*ʻ 5*2*-6// ʻ,-*6,*0ʻD ʻ) ?ʻ 8 ,)ʻ 20 ; /5*2>*ʻ *.=*> 6// ʻ,)1.*ʻ 2ʻ . 6ʻ620ʻ 5 =, ʻI1& ʻf L L ʻ ʻK ʻNT dd ʻ ʻKW 6/,) 1 ; 5)ʻ,)1.*ʻ 2ʻ 6/*-. , 2*ʻ .**?ʻ, 1ʻ) 6+*ʻ 6, ʻ, ?*.ʻ .; *-*0ʻ ? ;>)ʻ 1==-*.. 12ʻ 6, ʻ,)*ʻ) 620.ʻ 1 ʻ) .ʻ 51+*-21-.ʻ M(6> , ; .ʻ # ʻ+ʻR ʻ *, >ʻX ʻT D ; ʻ 6D1 ; ʻ,)*ʻ ? 00/*ʻ1 ʻ) .ʻ-* 52ʻ,) 1.*ʻ 8) 1ʻ6D10*ʻ6, ʻ 1?*ʻ 8*-*ʻ6//ʻ D62 .)*0ʻ,) *2>*ʻ M >, .ʻ L+$ ʻ KTʻ .**ʻ : *D*2.,-*, ʻ *ʻ , ʻ( ) ; .ʻ,)*ʻ)- ., 62ʻ >125-*56, 12.ʻ D*562ʻ, 1ʻ 6, ^ D ʻ 5 ʻ 1ʻ =.ʻ X ʻ -1?ʻ,)*ʻ /625 ; 65*ʻ6, -6>, ʻ, 1ʻ 6ʻ /6-5*-ʻ 0*5-**ʻ, *ʻ 6,,*2, 12ʻ 1 ʻ,)*ʻ 1?62ʻ 1 ʻ ; *, 12 ; .ʻ 2ʻ -*/6, 25ʻ,) .ʻ *+*2, ʻ I ʻf K1X ʻ , ʻ .ʻ6,;,)1- , *.ʻ ,ʻ,)*ʻ .6?*ʻ, ?*ʻ,)*ʻ6=1../*ʻ 6 ; /ʻD*562ʻ *+ 0*2, ʻ,) 6, ʻ,)*ʻ)- ., 62.ʻ 8*-*ʻ6/.1ʻ 20 .>- ? 26, */ ʻ ,1ʻ *.,6D/ .)ʻ >125-*56, 12.ʻ 2ʻ ?62 ʻ1ʻ,)*ʻ/6-5*-ʻ> , *.ʻ)>/;0*0ʻ 2ʻ,)*ʻ *L*>;, 12ʻ1ʻ,)*ʻ*0 >,ʻ6.ʻ6ʻ .*>,ʻ1ʻ,)*ʻ1ʻ,)*ʻ*?= -*ʻ8) /*ʻ,)1.*ʻ 1ʻ*6-/*ʻ1- 5 2ʻ6. ; ?*0ʻ B*8.ʻ ʻ 20**0ʻ,)*ʻ 8*-*ʻ 21ʻ,)*ʻ ?1-*ʻ 2; ?*-1 ; ʻ D*,8**2ʻB*8.ʻ 620ʻ)- ., 62.ʻ 86.ʻ 21,ʻ5*2*-6// ʻ ; 2^ =; /.1-*ʻ " ʻ \ *ʻ " 1ʻ .**ʻ 1..6/ʻ ʻ " 1ʻ ʻ 0*-.,110ʻD ʻ,)*ʻ 1?62ʻ6 ; ,)1- , *.ʻ 620ʻ,) .ʻ >-> ; ?^ 2 ʻ M)IS2 H6.. 0 ; *ʻ, ; ? ; /, ; 62, *. ʻ .,62>*ʻ)60ʻ .1?*ʻD*2* >6/ʻ) ; ,ʻ6/.1ʻ .1?*ʻ2A ; - 1 ; .ʻ 1?6ʻ*L=; / ,J M : *ʻD62 .)*0ʻ,)*ʻB*8.ʻ -1?ʻ 1?*ʻ >12.*_ ; *2>*.ʻ6.ʻ-*56-0*0ʻ,)*ʻ)- ., 62.ʻ 2ʻ,)*ʻ12*ʻ 12ʻ6>>1 ; 2, ʻ1ʻ,)*ʻ>12, 2 ; 6/ 0 .,; -D62>*.ʻ,)*A ʻ?60*ʻ6, ʻ ,)*ʻ 2., 56, 12ʻ 1ʻ 12*ʻ)-*. , ; .JX $! ( )*ʻ) .,1- 62ʻ)6.ʻ*+ 0*2, / ʻ 2ʻ) .ʻ 521-62>*ʻ1ʻ,)*ʻ ?*-,.ʻ1ʻ,)*ʻ>6.*ʻ6,,- D ; ,*0ʻ,)*ʻ=-1+*-D 6/ʻ 2. ; --*>^ , 126- ʻ.= - ,ʻ1ʻ,)*ʻB*8.ʻ, 1ʻ,)*ʻ 2 /;*2>*ʻ1ʻ)- ., ^ 62 , ʻ6ʻ >12 ; . 12ʻ 8) >)ʻ,)*ʻ 0 .=; , *.ʻ D*, 8**2ʻ,)*ʻ B*8.ʻ620ʻ)- ., 62.ʻ12ʻ,)*ʻ .; DA*>, ʻ1ʻ,)*ʻ<*.. 6)ʻ?6ʻ)6+*ʻ>12, - D ; ,*0ʻ, 1ʻ 2>-*6.*ʻ ; *, 12 ; .ʻ01*.ʻ21, ʻ5 +*ʻ ,)*ʻ*L6>,ʻ *6-ʻ1ʻ,) .ʻ *+*2, ʻ 21-ʻ>62ʻ, ʻD*ʻ?60*ʻ1 ; ; ʻ -1?ʻ62ʻ1,)*-ʻ >/6.. >6/ʻ6 ; ,) 1-, Tʻ) *ʻ ?*2, 12.ʻ, ʻ)18*+*-ʻ2ʻ>122*>, 12ʻ8 ,)ʻ1,)*, ʻ*+*2, ʻ8) >)ʻ6-> 92182ʻ, 1ʻ) 6+*ʻ, 69*2ʻ=/6>*ʻ6, ʻ0 /*-*2, ʻ06, *.ʻD*, 8**2ʻ, ʻ 2ʻ,)*ʻ >, .ʻ6==*6-.ʻ, 1ʻ L ʻ, ʻ2ʻ,)*ʻ *6-ʻ1 ʻ6/ ; 0 ; .ʻ ʻ .ʻ I# ʻ+ ʻSXʻ L*.ʻ ʻ 2ʻ,) *ʻ2 2,)ʻ *6-ʻ1 ʻ 6/ ; 0 ; .ʻ ʻ 25*-ʻ ;2 6+1-6D/*ʻ) 6-+*..ʻ M 12ʻ 6..ʻ/L ʻ T ; .*D ʻ " f& ʻ KSR ʻK T (6> , &ʻ f L ʻ NX ʻ12**ʻ1 ʻ 8) >)ʻ2ʻ,)*ʻ 1 ; -,)ʻ *6-ʻ1ʻ) .ʻ-* 52ʻ; 20*-ʻ,)*ʻ=-1^ >; -6, 1-ʻ ; .= ; .ʻ 60 ; .ʻ620ʻ(D*- ; .ʻ /*L620*-ʻMB1^ .*=)ʻ& f dd ʻK ʻST ʻKX ʻ*L, *20*0ʻ, 1ʻ 6/*., 2*ʻ620ʻ - 6ʻ620ʻ6==*6-.ʻ, 1ʻ D*ʻ,) 6, ʻ8) >)ʻ86.ʻ 1-*, 1/0ʻD ʻ 56D ; ʻM >, .ʻ L ʻKQT I.**I .>1*ʻ, ʻ > *ʻ=ʻS ʻSST 6-02*-ʻ " ʻ ʻ : ʻA , ; 1 ʻ (ʻ . /6.,ʻ+1 ʻ=ʻ KKRCKNKT >1?=6-*ʻ ; 21/ʻ 2ʻ /1>T 6/.1ʻ -*D.ʻ , f ʻ 7!ʻ -ʻf =ʻK X ( )*ʻ >120 ; >,ʻ 1ʻ /6 ; C

1 2ʻ 1ʻ /6 ; 0 ; .ʻ

S (, +2 # $ 4 & <(6=+ ? <-L+ʻ (C /620 .ʻ .*.2-ʻ ;5 ; .. ; .ʻ 12, *Lʻ <6L ? ; .ʻ (- C D22 > 6ʻ 1.*. ; ,*ʻ ?=*-6,-1ʻ d %XT D*60ʻ/6 ; -*6, *ʻ - 5), ʻ ; S (- ; ?=)6/6->)ʻ12ʻ8) >)ʻ*_ ; *. ,- 62ʻ 5^ ; -*ʻ620ʻ, 81ʻ, -1=) *. ʻ 2.>- D*0ʻ C ʻ $ M -ʻ ,622 .X 0 2.ʻ 0 ; - 25ʻ) .ʻ 51+*-2?*2, ʻ 2ʻ .1ʻ 6-ʻ6.ʻ, ʻ86.ʻ21, ʻ ; 20*-ʻ,)*ʻ 2 /;*2>*ʻ1ʻ) .ʻ 8 +*.ʻ620ʻ -**0?*2ʻ86.ʻ ? /0ʻ620ʻ=1= 6-ʻ620ʻ)*ʻ ?60*ʻ .*+*-6/ʻD*2* >6/

*26>, ?*2, .ʻ M.**ʻ < *- +6/*ʻ5 ʻ =ʻ " ʻ6 % ʻ 2ʻ ʻ . %X : *ʻ6/.1ʻ*-*>, *0ʻ2 ; ?*-1 ; .ʻ=; D/ >ʻD ; /0^ 25. ʻ620ʻ>6-- *0ʻ1 ; ; .ʻ+*-6/ ?=1-, 62, ʻ=; D/ >ʻ 81-9.T : 6+ 25ʻ ?6-- *0ʻ) .ʻ 2 *>*ʻ 5- == 26ʻ .)*ʻ =-*+6 /*0ʻ ; =12ʻ) ?ʻ, 1ʻ .*, ʻ6. 0*ʻ) .ʻ 182ʻ .12ʻ -, 622 >; .ʻ 2ʻ 6^ +1-ʻ1ʻ) *-ʻ182ʻ.12ʻ *-1ʻD ʻ6ʻ 1-?*-ʻ?6-- 65*T D ; ,7 0 .>1+*- 25ʻ,) 6, ʻ) *ʻ -*5-*, ,*0ʻ,) .ʻ .,*=ʻ .)*ʻ =1 .12*0ʻ) ?ʻ 12ʻ,)*ʻ N,)ʻ 1ʻ >, 1D*-ʻ % ʻ+ʻX ; - 25ʻ,)*ʻ % -* 52ʻ1ʻ /6 ; 0 ; .ʻ .*+*-6/ =*-.*>; , 12.ʻ1ʻ)- ., 62.ʻ D ʻB*8.ʻ, 119 =/6>*ʻ 2ʻ,)*ʻ01? 2 12.ʻ1ʻ : *-10ʻ 5- =^ =6ʻ620ʻ 2ʻ 12*ʻ ZP ʻ,)*?ʻ,)*ʻ6=1.,/*ʻB6?*.ʻ86.ʻ*L*^ >; , *O % ( )*.*ʻ01? 2 12.ʻ*?D-6>*0ʻD ʻ 6-ʻ,)*ʻ/6-5*.,ʻ 2 ; ?D*-ʻ1ʻ)- ., 62ʻ>125-*56, 12.ʻ8) >)ʻ8*-*ʻ*.,6D^ / .)*0ʻ ; =ʻ, 1ʻ,)*ʻ, ?*ʻ1ʻ) .ʻ0*6,)ʻ M ʻ% X ,*-ʻ) .ʻ0*6,)ʻ?1.,ʻ1ʻ,)*ʻ, *-- ,1-E71+*-ʻ8) >)ʻ) *ʻ)60ʻ-; /*0ʻ 86.ʻ-* 2>1-=1-6, *0ʻ8 ,)ʻ,)*ʻ 1?62ʻ*?=-*ʻ) .ʻ .12ʻ 5- ==6ʻ ʻ-*>* + 25ʻ12/ ʻ (-6>)12 ,/.ʻ620ʻ46 ; /12 C ʻ-*>* + 25ʻ12/ ʻ (-6>)12 ,/.ʻ620ʻ46 ; /12 C D62 .)*0ʻ,)*2>*ʻ M >, .ʻ L+$ ʻ KTʻ .**ʻ : *D*2.,-*, ʻ *ʻ , .ʻ ( ) ; .ʻ,)*ʻ)- ., 62ʻ >125-*56, 12.ʻD*562ʻ, 1ʻ6, ^ D ʻ5 ʻ 1ʻ =.ʻ X ʻ -1?ʻ,)*ʻ/625 ; 65*ʻ6, -6>, ʻ, 1ʻ6ʻ/6-5*-ʻ0*5-**ʻ, *ʻ6,,*2, 12ʻ1ʻ,)*ʻ 1?62ʻ 1ʻ ; *, 12 ; .ʻ 2ʻ -*/6, 25ʻ,) .ʻ *+*2, ʻ I ʻf K1X ʻ , ʻ .ʻ A 6 ; ,) 1- , *.ʻ , ʻ,)*ʻ .6?*ʻ, ?*ʻ,)*ʻ6=1../*ʻ 6 ; / ʻD*562ʻ *+ 0*2, ʻ,) 6, ʻ,)*ʻ)- ., 62.ʻ 8*-*ʻ6/.1ʻ 20 .>- ? 26, */ ʻ ,1ʻ *.,6D/ .)ʻ >125-*56, 12.ʻ 2ʻ ?62 ʻ1ʻ,)*ʻ/6-5*-ʻ> , *.ʻ)>/;0*0ʻ 2ʻ,)*ʻ *L*>;, 12ʻ1ʻ,)*ʻ*0 >,ʻ6.ʻ6ʻ .*>,ʻ1ʻ,)*ʻ1ʻ,)*ʻ*?= -*ʻ8) /*ʻ,)1.*ʻ 1ʻ*6-/*ʻ1- 5 2ʻ6. ; ?*0ʻ B*8.ʻ ʻ 20**0ʻ,)*ʻ 8*-*ʻ 21ʻ,)*ʻ ?1-*ʻ 2; ?*-1 ; ʻ D*, 8**2ʻB*8.ʻ620ʻ)- ., 62.ʻ 86.ʻ 21, ʻ5*2*-6// ʻ ; 2^ =; /.1-*ʻ " ʻ \ *ʻ " 1ʻ .**ʻ 1..6/ʻ ʻ " 1ʻ ʻ 0*-.,110ʻD ʻ,)*ʻ 1?62ʻ6 ; ,)1- , *.ʻ 620ʻ,) .ʻ > ->; ?^ 2 ʻ M)IS2 H6.. 0 ; *ʻ, ; ? ; /, ; 62, *. ʻ .,62>*ʻ)60ʻ .1?*ʻD*2* >6/ʻ) ; ,ʻ6/.1ʻ .1?*ʻ2A ; - 1 ; .ʻ 1?6ʻ*L=; / ,J M : *ʻD62 .)*0ʻ,)*ʻB*8.ʻ -1?ʻ 1?*ʻ >12.*_ ; *2>*.ʻ6.ʻ-*56-0*0ʻ,)*ʻ)- ., 62. ʻ 2ʻ,)*ʻ12*ʻ 12ʻ6>>1 ; 2, ʻ1ʻ,)*ʻ>12, 2 ; 6/ 0 .,; -D62>*.ʻ,)*A ʻ?60*ʻ6, ʻ ,)*ʻ 2., 56, 12ʻ 1ʻ 12*ʻ)-*. , ; .JX $! ( )*ʻ) .,1- 62ʻ)6.ʻ*+ 0*2, / ʻ 2ʻ) .ʻ 521-62>*ʻ1ʻ,)*ʻ ?*-,.ʻ1ʻ,)*ʻ>6.*ʻ6,,- D ; ,*0ʻ,)*ʻ=-1+*-D 6/ʻ 2. ; --*>^ , 126- ʻ.= - ,ʻ1ʻ,)*ʻB*8.ʻ, 1ʻ,)*ʻ 2 /;*2>*ʻ1ʻ)- ., ^ 62 , ʻ6ʻ >12 ; . 12ʻ 8) >)ʻ,)*ʻ 0 .=; , *.ʻ D*, 8**2ʻ,)*ʻ B*8.ʻ620ʻ)- ., 62.ʻ12ʻ,)*ʻ .; DA*>, ʻ1ʻ,)*ʻ<*.. 6)ʻ?6ʻ)6+*ʻ>12, - D ; ,*0ʻ, 1ʻ 2>-*6.*ʻ ; *, 12 ; .ʻ01*.ʻ21, ʻ5 +*ʻ ,)*ʻ*L6>,ʻ *6-ʻ1ʻ,) .ʻ *+*2, ʻ 21-ʻ>62ʻ, ʻD*ʻ?60*ʻ1 ; ; ʻ -1?ʻ62ʻ1,)*-ʻ >/6.. >6/ʻ6 ; ,) 1-, Tʻ) *ʻ ?*2, 12.ʻ, ʻ)18*+*-ʻ2ʻ>122*>, 12ʻ8 ,)ʻ1,)*, ʻ*+*2, ʻ8) >)ʻ6-> 92182ʻ, 1ʻ) 6+*ʻ, 69*2ʻ=/6>*ʻ6, ʻ0 /*-*2, ʻ06, *.ʻD*, 8**2ʻ, ʻ 2ʻ,)*ʻ >, .ʻ6==*6-.ʻ, 1ʻ L ʻ, ʻ2ʻ,)*ʻ *6-ʻ1 ʻ6/ ; 0 ; .ʻ ʻ .ʻ I# ʻ+ ʻSXʻ L*.ʻ ʻ 2ʻ,) *ʻ2 2,)ʻ *6-ʻ1 ʻ 6/ ; 0 ; .ʻ ʻ 25*-ʻ ;2 6+1-6D/*ʻ) 6-+*..ʻ M 12ʻ 6..ʻ/L ʻ T ; .*D ʻ " f& ʻ ʻKSR ʻK T (6> , &ʻ f L ʻ NX ʻ12**ʻ1 ʻ 8) >)ʻ2ʻ,)*ʻ 1 ; -,)ʻ *6-ʻ1ʻ) .ʻ-* 52ʻ; 20*-ʻ,)*ʻ=-1^ >; -6, 1-ʻ ; .= ; .ʻ 60 ; .ʻ620ʻ(D*- ; .ʻ /*L620*-ʻMB1^ .*=)ʻ& f dd ʻK ʻST ʻKX ʻ*L, *20*0ʻ, 1ʻ 6/*., 2*ʻ620ʻ - 6ʻ620ʻ6==*6-.ʻ, 1ʻ D*ʻ,) 6, ʻ8) >)ʻ86.ʻ 1-*, 1/0ʻD ʻ 56D ; ʻM >, .ʻ L ʻKQT I.**I .>1*ʻ, ʻ > *ʻ=ʻS ʻSST 6-02*-ʻ " ʻ ʻ : ʻA , ; 1 ʻ (ʻ . /6.,ʻ+1 ʻ=ʻ KKRCKNKT >1?=6-*ʻ ; 21/ʻ 2ʻ /1>T 6/.1ʻ -*D.ʻ , f ʻ 7!ʻ -ʻf =ʻK X ( )*ʻ >120 ; >,ʻ 1ʻ /6 ; C

/6 ; 0 ; .ʻ /*?*2.ʻD.)1=ʻ 1ʻ(; -2ʻ.1?*, ?*.ʻ >6//*0ʻ,)*ʻ -., *-1, *.,62, ʻ *1-?*-ʻJ 86.ʻD1-2ʻ 2ʻ =6 2ʻ6D1 ; , ʻ,)*ʻ>/1.*ʻ1ʻ,)*ʻ*5),)ʻ>*2, ; -A ʻ620ʻ*0 ; ^ >6, *0ʻ ; 20*-ʻ */ Lʻ1ʻ $-5*/ʻ8)1?ʻ)*ʻ6>>1?=62ʻ*0ʻ 2, 1ʻ -62>*ʻ4*-?62ʻ620ʻ, 6/ ʻD ; ʻ 8)1.*ʻ *--1-.ʻ) ,)*ʻ*>ʻ.ʻ21ʻ*+ 0*2>*ʻ,) 6, ʻ)*ʻ601=, *0ʻM *620*-ʻ " ʻ" # ʻ N ʻ (1--* .X 6//*0ʻ, 1ʻ,)*ʻ>1 ; -, 1ʻ 1 ; .ʻ /*ʻ 7D1226 -*ʻ, 1ʻ*L=1 ; 20ʻ,)*ʻ >-=, ; -*.7ʻ)*ʻ &6.ʻ.*2, ʻD ʻ, / 6, ʻ?>26->)ʻ8)*2ʻ*?=*-1-ʻ, 1ʻ,)*ʻ.**ʻ 1ʻ(; -2ʻM62ʻ*+*2, ʻ+6-1 ; .ʻ ʻ06, *0ʻ -1?ʻQ ʻ, 1ʻQKNXʻ2ʻ 1-0*-ʻ, 1ʻ1==1.*ʻ,)*ʻ=-*+6 / 25ʻ, *20*2> ʻ, 1ʻ ?65*C81-^ .) =ʻ 1, ʻ12/ ʻ656 2.ʻ, ʻ,) .ʻ 1-?ʻ 1ʻ 01/6, -ʻ D ; , ʻ 656 2.ʻ, ʻ,)*ʻ 81-.) =ʻ 1ʻ.6 2, .ʻ 1ʻ-*/>.ʻ620ʻ1ʻ,)*ʻ >-1..ʻ656 2.ʻ, ʻ,)*ʻ6D ; .*ʻ1ʻ=/5-?65*ʻ656 2.ʻ, ʻ,)*ʻ-.^ 25ʻ>/6?.ʻ1ʻ, -60 , 12ʻ=-*/6> ʻ620ʻ,)*ʻ 1?.)ʻ.**ʻ)*ʻ?6 2, 6 2*0ʻ6ʻ+ 51-1 ; .ʻ620ʻ6D/*ʻ1==1., 12ʻ, //) .ʻ 0*6,)ʻ2ʻQ ʻ8 ,)ʻ.; >)ʻ.; >>*.ʻ620ʻ.; >)ʻ-*.:/,.ʻ6. ; .; 6// ʻ6, , *20ʻ,)1.*ʻ8)1.*ʻ*--1-.ʻ 6//12ʻ,)*ʻI ʻ. 0*ʻ1ʻ D1/02*.ʻ-6,)*-ʻ,)62ʻ1ʻ, 2 0 , Aʻ 1=*ʻ 6.>)6/ʻ ʻ-*^ =-1+*0ʻ /6 ; 0 ; .ʻ) *ʻ-*=/ *0ʻ,)6, ʻ.1ʻ/125ʻ6.ʻ ,)*ʻ=1=*ʻ 0 0ʻ,)*ʻ 81-9.ʻ1ʻ62ʻ6=1., /*ʻ) *ʻ-*>152 .*0ʻ) .ʻ6=1., 1/ ^ >6/ʻ>)6-6>, *-ʻ D ; ,ʻ1,)*-8 .*ʻ,)*2ʻ<6, , ʻ LL ʻK ʻN ʻ6=^ =/ *0ʻ, 1ʻ) ?%Jʻ : .ʻ8- , 25.ʻ6-*ʻ>) * / ʻ>1?7*2, 6-*.ʻ 12ʻ .*+*-6/ʻD119.ʻ1ʻ >- =, ; -*ʻ>1?=1.*0ʻ=- 2> =6// ʻ1ʻ *L, -6>, .ʻ -1?ʻ,)*ʻ 6,) *-.ʻ620ʻ*.=*> 6//A C -1?ʻ ; 5 ; .^ , 2*ʻ < 62ʻ -*?6 2ʻ 2ʻ < ʻ 2ʻ +6 F1 ; .ʻ -*2>)ʻ / D-6^ - *.ʻ : .ʻ ʻ ? !C 620ʻ*L>*-=, .ʻ -1?ʻ) .ʻ &% ʻ6-*ʻ5 +*2ʻ2ʻ D/ʻ < 6L ʻ 6, -ʻ L +ʻ **ʻ * 260*-ʻ! "ʻ# ʻ ʻ KRʻ . _ ʻT 4 *.*/*-ʻ "ʻ# ʻ =*-ʻ ʻ0 +ʻ ʻg KTʻ : 65*2D6>)ʻ# ! ʻ ʻ ʻ KKTʻ < ; -01>) .ʻ <1.)* ?ʻ "ʻ# ʻ ʻK Q ʻKK Tʻ ; 0*/D6>)ʻ ʻ - ʻf 6% %!ʻ ʻM 1=*2)6^ 5*2ʻ QK ʻQ+1XT >)? 0, ʻ 2ʻ. " ʻ ʻ ʻ " ʻf -" ʻ Q N%

/6 ; 0 ; .ʻ < 6, ,) 6.ʻ D*, , *-ʻ 92182ʻ ; 20*-ʻ,)*

' % '1 '& $ '1-'N ' " '; 'M,)*' &620.D*>9' <*..*25*-X'6' 4*-?62' 8-,*-' 86.' D1?' 6,')* 2 */0' 2' :1/.,* 2' B62%'K %' :*' .,;0 *0' /68' 6,'B*26 '620' 6 ,*-')6+ 25')*/0' 1-'6' .)1-,', ?*' 62'1 >*' 6,' 6-?.,60, 'D*>6?*' 2' Q' -*+ .1-J'6,' O" ' >)/*.8 5C:1/.,* 2' 629' 2' /,126%I' :*'-*. 0*'0' 6,' ,)*' + //65*' 1 ' &620.D*>97' 2*6-' /,126' M)*2>*') ' '% 81'8)*-*') *' .=*2,' ,)*' 5-*6,*-' =6-,'1 ') ' / *%' :*' 0 *0'12',)*' K .,'1 'B62;6- ' Q '6,' :6?^ D;-5 ' 2' ,)*')1;.*' 1 ') .' .12C 2C/68 ',)*' =;D/ .)*-' -*0^-' >9' *-,)*.% /6;0 ;' .' ., // -*56-0*0' 6.' 12*' 1 ',)*' ?1.,' 5 ,*0' =1=;/6-' 8-,*-.' 1 ' 4*-?62 'C62 0') .' D119.')60' 6' +*- '/6-5*' > ->;/6, 12' 0;- 25') .' / *^ , ?*% :*' 86.'12',*-?.' 1 ' 2, ?6> ' 8 ,)' 1..' :*-^ 0*-' B6>1D ' :6?622' 6+6,*-' >1//D*-5' 620' 7 62' 1,)*-' =-1? 2*2,' / ,*-6- ' ?*2' 1 ') .' , ?*.% 2',)*') ;->)') ..,1- ' 1 ' 4*-?62A')1')*6-.' 62')121-6D/*' 26?*' 6H 12*' 1 ',)*' ?1.,' * *>, +*' 1==12*2,.' 1 ',)*' +;/56-' -6, 126/ *?' 8)>)' 6,' ,)6,' , ?*' ,)-*6,*2*0' ,1' 1D,6 2' 6D.1/;,*' .86 ' 1+*-' ,)*' 8)1/*' 1 ' -1,*.,62,' 74*-?62 %' 2') .' *6-/ *-' 8-, 25. ')*' 12',)*' 8)1/*' >12 2*0') ?.*/',1' - 0 >;/ 25',)*' 6--1562>*' 620' 2,1/^ *-62>*' 1',)*' 6, 126/ .,,' D ;,')*' .,*60 / '5-*8' 86-?^ *-' 620' ?1-*' *?=)6, >' 2') .' 1==1. , 12',1' -6, 126/ .?' 620' 2') .' 6,,6>/ ?*2,',1' 6' .,- >,' ;,)*-62 . ?' 620' 12' ,)6,'6>>1;2,' */ /1;,'8 ,)' .1?*' 1 ') .' 1-?*-' - *20. '6.' 1..' 620' B6>1D %' /6;0 ;.' D*562' 2' S '6' >1?=/*,*' *0 , 12' 1 ') .' 81-9. ' ;20*-' ,)*' , /*' & ' ' % $'Q'+1/.%',1'8)>)'.1?*' 600 , 12' 86.' ?60*' 2' Q K' M/6,*.,' *0 , 12' Q X% 'D 15-6=) ' 1 ' /6;^ 0 ;.')6.' D**2' 8-,,*2' D ' :*-D.,' M41,)6' Q X% ' *-C' [15'5 =6 + %' ' K' -1>9)6;. ' = + 1' + ' %

/6;0 ;.' ' #'6' $2,6-62'1',)*'. L,**2,)' >*2,;-A ' 8)1' 2' 6' 0 .=;,6, 12' 6,' *-2*' N ' ?6 2^ ,6 2*0',)6,')- .,' 86.' 6' ?62' 8)

=-*=6-6, 12 ' (+) >)' ,' 81;/0' D*' ?62 *.,' ,1' 6// ' >1;/0')6+*' 2' ,.*/ '21' >;-6, +*' + -,' *% ()*' '>/6 '5-1;20J M/ ,*-6// ' " + ' ' G' 2' 8) >)' 1/1?12' >6;.*0' ,)*' /6-5*' +*..*/.' 1 ',)*' (*?=/*',1' D*' >6.,'M ' 25.'+ ' ST' K')-12% + X' 86.' 6' >1?=6>',/16? ' 1 ' 6' _;6/ , ' 1-'-6,)*-' *L,*2,'MO*=,)' .1?*' KQ' **,T' .**' (3' 21,' ,1' /P1 1;20' */.*8)*-*' 2' 6/*., 2*' 8) >)' .' 5*2*-6// ' ' -1>9 ' 1-'.620 % ** $ #!

/6 ,12 ' 'D1-2' 2' ;D/ 2' 2' SR ' 86.' 6' 0 .> =/*' 1 ' -' % /6-9*' D*>6?*' D .)1=' 1 ' //6/6 ' 1 ' 1-9 ' 6-,0' 26// ' 1 ' /15)*-' 620' =;D/ .)*0' .*+*-6/ 81-9.' 212*' 1 ' 8) >)')6+*' 56 2*0' /6., 25' >*/*D-, ' D;') .' 6 1' '$% 'M X' 6', -7, .*' ?6 2,6 2 25' - 62' + *8.' 1 ' 8) >)',)1;5)' 21,' 6>,;6// ') .' >1?=1^ . , 12') *' D1-*' ,)*' *L=*2.*' 620' 6..;?*0',/*' -*.=12. ^ D / , % '=18*- ;/ -*=/ ' -1?' B12*.' 1 ' 6 /620' 0 0' 21,' D 20*-') .' =-1=1. 25' 2',)*' - .)' : 1;.*' 1 ' 1-0.' MKO' *D% SX',)*' 1? .. 12' 1 ',)*' >*2*' 620' ,)626C' . 62' -**0.' -1?',)*' / ,;-5A' 1 ',)*');->)' 1 ' -*/620T 620' 6,'/6..',)*' ,) -0'=6-,' 1 ') .' N ' '" ' # 9 ' '" ' ' 'O ' - '56+*' 1>>6. 12',1' /*56/ =-1>**0 25.' 6--*.,*0' 12/ ' D ') .' 0*6,)' 12' *D% KS,)' Q% ?125') .' 1,)*-' =;D/ >6, 12.' 6->' -'" ' " ' '" ' # ; ' N 'M *20% ' ,1XT &' ' ' %" 'M 160% R' Q+1X% '' == .' ; %" ' ; ' SK %

/*62' M7 B-6 ' " E') 1 U1' 620' [' Md77 ' E') 1 %-,1!' ()*.*' 81-0.'6-*' 1 ' -*_;*2,' 1>>;--*2>*' 620' 1D+ 1;.' ?*62 25' 2',)*' .6>-*0' 8-,^ 25.'T D;,' ,' .' 2',)* -'=*>;/ 6-'6==/ >6, 12 ' D ',)*' <1^ .6 >' /68 ',1' =*-.12.' 62 ?6/.' 620',) 25.',)6,',)* '6-*' 218',1' D*' >12. 0*-*0% 2' 1-0*-',1' =6-,69*' 1 ',)*'=- +^ /*5*.' 1 ',)*' B*8 .)');->)' 620',1' *2565*' 6>>*=,6D/E' 2' ,.' 1;,86-0' 81-.)='),)*' 20 + 0;6/ ?;.,' 21,' 12/ ' D*' >-> ;?>.*0' D;,')*' ?;.,' D*' -*' -1?' ;2>/*622*..% : 18',)*' +6- 1;.' 9 20.' 1 ' ;2>/*022*..' 8*-*' >12,-6>,^ *0' 8 D6,',?*' ,' >12, 2;*0' 620' 8)6,' 86.',)*' =-1>*..' 1 '=;- >6, 12' 8*' 20' =6-, >;/6-/ ' 0*.>- D*0' 2' *+% L CL+T' ;?% L L% **' + $!

()*' 0 + . 12' 1 ' 62 ?6/.' 2,1' >/*62' 620' ;2>/*62' *L^ .,*0' D* 1-*',)*' /110' M4*2% + ' KX' 620' 86.' =-1D6D/ ' 1;20*0' ;=12',)*' =-6>, >*' 1 ' 62 ?6/ .6>- >*% ()*' -*5;/6, 12.' >12>*-2 25' >/*62' 620' ;2>/*62' 62 ?6/.' 6-*' >) * / '-*>1-0*0' 2' *+ , >;.' >)% L 620' *;,*-121? ' >)% L+ ' 8)*-*',)*' 1//18 25' 62 ?6/.' 6-*' =-121;2>*0' ;2>/*62 ' 620' 6-*' >12.*_;*2,/ ' 2,*-0 >,*0',1' D*' ;.*0' 6.' 110T M %X' #;60-;=*0.' 8) >)' 01' 21,' -;? 26,*' 1-' 8) >)')=+*' ;2>/1+*2' **,% MK%X' *-=*2,.' 620' >-**= 25' 2.*>,.T 6/.1' >*-,6 2' 2.*>,.' 8) >)' .1?*, ?*.' / ' 620' .1?*, ?*.' 60+62>*' ;=12',)* -' **,T D;'/1>;... ' 2' 6// ,)* -' 1;-'.,65*.' 1 '*L .,*2>* '6-*' 6>>1;2,*0' >/*62% MN%X' *-,6 2' .=*> *.' 1 'D -0 .D;,' 21' =6-, >;/6-' >)6-6>,*-.' 6-*' 5 +*2' 1-' 0 + 0 25',)*?' 2,1' >/6..*.' 6.' >/*62J' 1-' ;2>/*62%J B;05 25' -1?',)1.*',)6,' 6-*' .=*> *0' 6.' 6-' 6.',)*' 1D.>;-*' >)6-6>,*-' 1 ',)*' : *D-*8' 26?*.' 8 // 60?,' ,' 8 // D*' 1;20%,)6,' D -0.' 1 '=-* ' 5*2*-6/^ / '6-*' -*A*>,*0' 8)*,)*-',)* '=-* ' 12' /*..*-' 18/.' 1-' 12' 62 ?6/.' 1-' 12' .)T 8) /*',)1.*' 8) >)' *6,'+*5*,67' D/*.' 6-*' 60? ,,*0' 6.' /68 ;/T .1',)6,',)*' .6?*' =-2> ^ =/*' .'1D.*-+*0' 2'6' >*-,6 2'0*5-**' 6.' 2'0 ., 25; .) 25' _;60-;=*0.% M %X' .)' 8 ,)1;,' .>6/*.' 620' 6/.1',)1.*' 8',)1;,' 2.% M %X' 2 ?6/.' 1 ' 62 ' 9 20' 8) >)')60' * ,)*-' 0 *0' 1 '0 .*6.*' 1-') 60' D**2',1-2' D ' 8 /0' D*6.,.' M L10% LL 'N X% ** !

()*' 62 ?6/.;D.,62>*.' 2,*-0 >,*0',1',)*' :*D-*8.' 8*-*d' M %X' /110' M *+ ,%L+ ' T' L L' KST' *;,% L S' KN+ d ' KNX% MK%X' ()*' 6,' >1+*- 25' 1 ',)*' 2,*.^ , 2*.',*-?*0',)*' 2*,' 1-'>6;/% MN%X' ()*' 6,';=12',)*' 2,*.,2*.';>6//*0',)*' ?*.*2,*-A7*,>% M %X' ()*' 6,' 1 ',)*9 02* 7' M %X' ()*' 6,',6 /1-'-;?='1 '>*-,6 2' .)**=' M L10% LL L ' N' KKT' *+ ,' ' CRT' L ' RX% **' ! &)6,' 86.',)*' 0*. 52' 1 ',)*.*' 0 ., 2>, 12. ' 620')18' ,)* '8*-*' 6D1/ .)*0' ?6 'D*'/*6-2*0' 8 ,)' .; > *2,' 6>^ >;-6> ' -1?' 6' >1?=6- .12' 1 '+6- 1;.'=6..65*.' 1 ' >- =^

,;-*' M *+' dd' K CKST' >,.' L' RC/4T L ' CKQT' :*D% L' RC X% ** ' " '&% G0' ,')6.'D**2' 1D.*-+*0',)6,' 12*' 1DA*>,' 1 ',)*.*' 6==1 2,?*2,.' ?6 ')6+*' D**2',1' ?69*',)*' B*8.' .;.=>1;.' 1 ' 4*2,/*' >;.,1?.' 620' *2,*-,6 2?*2,..' 620' .1' 20;>*',)*?',1' 6D.,6 2' -1?' 6//' ,,*->1;-.*' 8 ,)' ,)*?% & 1' 20' 2' ,)*' *8' (*.,6?*2',),)6,' '8 ,)' 4*2, /*.' 86.' -*^ 56-0*0'6.' 6'=*>;/ 6-'655-6+6, 12' 1 ',)*' 1 *2>*' 1 '6.^ .1> 6, 25' 8 ,)',)*?' M<6,,' L' T' >,.' L' NX% ,' ?6 ' D*' -*?6-9*0' 6/.1',),6',)*' /*.)' 1 ' ?62 ' 1 ',)*' 62 ?6/.' 2,*-0 >,*0' 86.';28)1/*.1?*' 620' 1,)*-.' 8>-*' 1DA*>,.' 1 ' 01/6,-1;.' 81-.)='6?125',)*')*6),)*2% ()*' >)*' 0*. 52' 1 ',)*' -*5;/6, 12')18*+*-' 6==*6-.' ,1')6+*' D**2',1' *.,6D/.)' 6' . .,*?' 1 '-*5 ?*2' 8) >)' .)1;/0' 0 ., 25; .)',)*' >)1.*2'=*1=/*' -1?' 6// 1,)*-' 26^ , 12.% **',)*',-*6, .*.' ' ' ' 1' D' 62['MB*2' SQ X' 620' <;2..*-'M 2' <*2,)*2 ' -+ ! ! ' ' ._%XT 6/.1' *;?622' 2 "!' !') ' 7 "" M& ,,*?D% X% **' [6 ! /*62.*% **' ; -/> (D % /*6-C.,1- 'M1-' 6 4 #3',)*' ;==*-' =6- I I' 1',)*' >*2,-6/6./*' 1 '6' >);->)' -6 .*0' 6D1+*',)*' -11 .' 1',)*' 60A1 2 25'. 0*' 6./*.' 8,)' 8 2018.',1'/ 5),',)*' 26+*' D*/18C% 2' ?62 ' >6.*.',)*' >/*6-C.,1- ' .' *+ ^ 0*2,/ ' 6' .;D.*_;*2,' 600, 12',1',)*' 1- 5 26/ 0*. 52' *.=*> 6// ' 8)*2',)*') 5)C=,>)*0' -11 ' 8) >)' 2>/;0*0' .)*' D10 ' 620' 6./*.' 2' ,' .=62' 56+*' 86 ',1' 6' /6,'-11 ' >1+*- 25',)*' 26+*' 12/ % ()*' 86//.' 8-*-*',)*2' -6 .*0' 1+*-',)*' 6->)*.' 1 ',)*' 26+*',1' -*>* +*',)*' >/*6-C.,1- ' 8 2018. ' 6-9*-' ' ? ' & " '.%+%

/*6+*/620' (' ' 6' 125-*56, 126/' ? 2 .,*-' 86.' D1-2' 2' 62,*-D;- ' 122%' =-/ N' N KK% :*' 86.' *L=*//*0' -1?' 6/*' 1//*5*' 1-' 6,,*20 25' 6' *=6^ -6, ..' ?**, 25' D;,') .' 0*5-**' 86.' 6 ,*-86-0.' 5 +*2' ,1') ?' 620') .' 26?*' 6==*6-.' 6.' 6' 5-60;6,*' 1 ' % :*' 86.' 2.,6//*0'=6.,1-' 1+*-' 6' 2*80 C1-562 [*0' >);->)' 2')*D6>>1' *D% K ' T' 6>,*0' 6.' >)6=/6 2' 6,' (C' >1-0*-156' 2' QT' .*-+*0' 2',)*' .6?*' >6=6> , ' 6,' 6?D-05*' 2' QK' 620' 2' *8' > 9' 2' S% :*' 0*0' =-/ KK' RR% : .' >);->)' 6,')*D6>>1' 86.' 1-?*0' D ' 6' .*>*.. 12' -1?' <-% >9*-25 .' 8)1' -*^ ;.*0',1' 6//18' &),* */0',1'=-*6>)' 2') .' =;/=,% <-% >9*-25' ..;*0' 6' =6?=)/*,' .112' 6,*-' <-% /*6+*C' /620 .' 1-562 [6, 12',1' 8) >)')*-*=/*0' 2' &' % ' 7 ' ' + ' " "' : *' 6/.1' =;D/ .)*0' + =' ' 7 ' ' ' " ' '@ " ' ' 'M QXT' 62' 6 ' ' ' ' ' ' " ' ' % ' % ' " ' 5 ' $ ' ' " ' % ' " ('$ ' '& ' ' " ' * '& % ' ' ' " ' ' ' ' ' ' ' ' -" + '$ ' M 4NX' 8) >)' */>,*0' -1?' <6)*87'.)6-=' -*A1 20*-' 2' &' ' '5 % ' 'D " ' 1 .' D =1' ' '" ' ' " "' ' " '$ ' ' '" '5 '$' =' " ' ' " ' # ' ' " ' 5 !'5 " 'D 4 ' ' ? 'M S XT' 8 ,)' .*+*-6/ 1,)*-' >12,-1+*-. 6/' =6?=)/*,.' 620' 6' *8' .*-?12.% ' -=65;*' & ' ' QT' //*2' & ' ; ! ' ' *% +%

+E' 6' ' 2' 6'-1>9 ' .6% ' K T " E
'E '>-65. ' 62,' ' T B*-% ./ L ST D6% NX'
1-' ' M (B B=' + "(1' ' 2' 6' -1>9 ' L10 '
LLL ' KKT 6' +' ' .6% + ' T
,1=J' 1 ',)*' -1>9 ' B ; 05% L+ ' Q% 'A' .6% ' K X% *"
g !

/*/62 0 ' o ' % %' 62' *? 2*2,' -*.D ,*^
- 62' 0 + 2* ' 86.' D1-2' 2' 6 - 6L' 1;2)!' 6% ' < 6 ' KK'
Q' 620' -*?1+*0' ,1' < 6- 12' 1;2, ' %' 2' QR%
: 6+ 25' 0*+*/1=*0' *L,-61-0 26- ' 5 ,.' 6.' 62' *L) 1-,*-'
2' ,) *' 5-*6,'-*+ +6/ 1 ' Q ') *' 86.' ;-5*0' D ',)*' -* .^
D ,*- ' 1 ' (-62. /+62 6',1' D*>1?*' 6'=-*6>)*-' 620' 86.'
/ >*2.*0' =- / Q N% : .' -.' >)6-5*' 86.' $2 12'
) ;->) ' 2' & 6.) 25,12' 1;2, % 2' Q N)*' 86.' .*,^
,/*0' 1+*-' *8' -1+ 0*2>*' 620' 62*' ;2' M218' : 6-C
-10.D ;-5% >) ;->)*. ' 8)*-*')*' /6D1-*0' 0 ;- 25' ,)*' -*.,'
1 ') ./ *' 8 ,)'-*?6-96D/*' .;>>*.. ' D* 25' D/*. .*0' 8 ,)'
2;?*-1;.' -*+ +6/.% : *' 86.' 12*' 1 ',)*' ?1.,' =1=;/6-'
620' ;.* ;/ =-*6>)*-.' 2' *2,;>9 % L,**2' 1;25'
?*2' .,;0 *0' 0 + 2 , ' ;20*-') ?% : *' 86.' 6==1 2,*0'
12*' 1 ',)*' . 210 >6/ >1? ? .. 12' 2',)*' ;?D*-/620'
-*.D ,*- 62' 0 >;/, *.% -% /*/620' 86.' 8 ,)6/ 6'
0 / 5*2,'.,;0*2,'620' 8 */0*0') .' =*2' 8 ,)'. 526/ 6D /^
, ' 656 2.',)*' *8/ 5),.' 620' 6?=D*// ,*.% : .'
=- 2> =6/ =- 2,*0' 81-9.' D*. 0*.' , '$ '
*->% &' " '# ' " '& ' " ' $ ' " '
' ' " ' ' 'M QKN' =% KD' Q+1X&
' $ =& ' ' ' M Q ' =% ' K?1X&a ' '
2 ' 2 + ' M QK ' =% Q K?1X&a ' 7 9
' ' " ' ; '6 ' 2' ; !'5 % ' 1-' B ; & '
QN S T ' ' % S T &' # = = + ' '
=-6 *-C?**, 25.' 620' -*+ +6/. ' *L,*2. +*/ ' ;.*0' 2' ,)*'
& *.,' -% /*/620' 0 *0' B62% N Q Q')',)*' * 5), *,)'
6-' 1 ') .' 65% ' 7 6+ 0.12 .' # ! ! "!' ') =
" *' =% N T ' % ' '% ' % '
D ' -1 % : ; ?=)-* ' 620' *+% ()1.% : % /*/620%

/*? 625*.' > ' 1-' 8' * '
' 12*I' 1 ',)*' 6D/*.,' 8- ,*-.' 1 ',)*' 1?62' 6,)1/ >'
);->)' 0 ;- 25' ,)*' < 00/*' 5*.% : *' 86.' D1?' 6D1;;'
N ' 2',)*' +$/65*' 1 ' /*?625*.' 2',)*' =-1+ 2>*' 1 '
)6?=652*' 620' *0 ;>6,*0' 2',)*' 1//*5*' 1 ' 6+6--*'
6,' 6- .% .' *6-/ ' 6.' NQ ')*' 56+*' =;D/ >'/*>,;-*.' 6.'
2 '& ' 2' NQS)*' D*562' 2',)*' .6?*' 2^
.,,;, 12',1' .,;0 ',)*1/15 ';20*-' *--*' 0 // ' 8)1'
L-> .*0' 6' 5-*6,' 2 /;*2>*' ;=12') ?' 620' 6/86 .' -*^
?6 2*0') .' - *20% 2' NR ')*' D*>6?*' D6>)*/1-' 1 ',)*C
1/15 ' 620' D*562' ,1' 5 +*',)*1/15 >6/ /*>,;-*.,% * 25'
=1..*. .*0' 1 '-6-*',6/*2,.' 620',)1-1;5)/ ' 6? / 6-' 8 ,)'
,)*' 81-9.' 1 ',)S' 62> *2,' 8- ,-*-.')*' 8I6.' .112' -*56-0*0'
6.' ,)*' ?1.,' */1_;*2,' ?*?D*-' 1 ',)*' $2 +*-. ' 1 '
6- .' 8)>)' 2' NRN' */*>,*0') ?' -*>,1-% B/*2>* 1-,)'
/*?625*.' ,119' ,)*' ?1.,' 6>,+*' =6-,' 2',)*' * 1-,.' 1 '
,)*' $2 +*-. , ' 2' D*)6/ ' 1 ' 6',)1-1;5)' -* 1-?6;' 12'
8)>)' >12.,;,*' .1' ?=1-,62,' 6' =6-,' 1 ' ?*0 6*+6/
);->)') .,1-A ' <1.,' 1 ',)*' /*,,*-.' 600-*..*0' D ',)*'
$2 +*-. , ',1',)*' =1=*.' 620' 9 25.' 1 ',) .', ?*' *?626^
,*0' -1?') .' =*2% 2',)*' .6?*' *6-' 2' 8)>)')*' 86.'
/>,*0' -*>,1-' M NRNX)1' 600-*..*0' 2',)*' 26?*' 1 ',)*'
$2 +*-. , ' 62' *2*-5*,>' ?*?1-' ,1')6-/*.' ' 1'
-62>*' 2' 1-0*-' ,1' 20;>*') ?' ,1' =;,' 62' *20',1',)*'
.>) .?' 2',)*');->)% 2' NR ')1' >1?=/*0' 6' .*>120'
?*?1-6/ 12',)*' D6. .' 1',)*' 1=2 12.' 1 '6/',)*' =-1? ^
2*2,' ?*?D*-.' 1 ',)*' -*2>)' >/*-5 ' 8)>)')60' D**2'
.1/>,*0' D ',)*' 1-)122*% 2' 6>>1-062>*' 8 ,)',)*.*'
1=2 12.')*' =-1=1.*0' 2' 6'/*,,*-.',1' /*?*2,' ',)-*'
?*6.;-*.' 1-',) *1-562 [6, 12' 1 ',)*');->)d -.,'
,)*' 6DO >6, 12' 1('D1,)',)*' =1=*.T .*>120/ ',)*' */*>^
, 12' 1 ' 6-D ,*-.T ,) -0/ ' ,)*' >12+1>6, 12' 1 ' 6' 5*2^
-6/ >1;2>/% 21,)-'/*,,*-.',1',)*' =1=*' ? ;>)' ?1-*'
.*+*-*' 2' ,.' /625;65*' 86.' 21,' .*2,' 1 ' D*>6;.*'
/*?*2,' ' 0 *0' M *=,*?D*-' NR X%)6-/*.'

3 1//18 25',)*' 60+ *' 1 ',)*' $2 +*-. , ' -*_;*.,*0',)*'
>6-0 26/.' 1 ' + 5212' 21,',1' =-1 **0',1',)*' */*>, 12' 1 '
6' 2*8' =1=*' ;2, /',)* ')60' >1?*' 1' 62' ;20*-.,620 25' a
620' /*?625*.' .*2,'6'/*,,*-'1 ',)*' .6?*' >)6-6>,*-',1'
+ 5212% ;',)*' >6-0 26/.' 1 ' + 5212' 2*+*-,)^
/*.')6.,*2*0',1' */*>,' *,-;.'0*' ;26' 8)1' 6..;?*0'
,)*' 26?*' *2*0>,' d % ,*-'D* 25'*/*>,*0' *2*C
0*,'.*>;-*0'-*>152, 12'D ')6-/*.' '620',)*' 6-.'
$2 +*-., 'D;,' /*?625*.' 86.' 2.,-;>,*0',1'-*_;*.,'
)?',1' 701 6//,)6,' ?5),' D*' 2').' =18*-',1' *20',)*'
.>).?% 1 (1',)*' .6?*' 020')*')60',1' 8-,*',1',)*' 9 25'
1' -6512% 2' D .' 182' 262*' /*?625*.' .*2,',1' *2^
*0>,' 62' */1_;*2,'*= ./*' 12',)*' 0;,*.' 1 ',)*')*60' 1 '
,)*');->)' 620'-*>1?*?*20*0',1') ?') .' - *20' *--*'
0 // ' 6.' >)*' 60+ .*-% *2*0>,' 6==-*> 6,*0',)*'
/*6-2 25' 1 ' /*?625*.' 620' =-*+6 /*0';=12') ?',1' 6>^
>*=;',)*' 1 >*' 1 '.*>-*',.*>-*,6- I'1 ',)*' =1=*% .',)*'
9 25' 1 ' -62>*' 620',)*' 1-)122*' .;==1-,*0' 2' NR '
%D ',)*' -*.1/;, 12' 1 '6' 26, 126/ >1;2> / '0*>/6-*0' 2' 6^
+1-' 1 '62' 6D0 >6, 12' 1 ' D1,)',)*' =1=*.' S2 625*.'
8)1' 86.' 218' 6' 0*> 0*0' >)6?= 12' 1 ',)*' >/6 ?.' 1 '
*2*0>,' */ 1;,' 8 ,)' ?62' 1 ') .' 1-?*-' - *20.%
2' ',)*' -*2>)' 51+*-2?*2,' 8 ,)0-*8' ,.' -*>15^
2, 12'%1' *2*0>,' 8)*-*;=12',)*' /6,,*-'/6 0',)*' D62'
;=12'9 25' 620' >1;2,- % /*?625*.' 86.' >)6-5*0' 8 ,)'
)*.5',)*' 6;,)1-' 1 ',)*' ;// 1 '*L>1?? ;2>6, 12' D;,'
0*2 *0',)*' >)6-5*'/*,') .' =1. , 12' 6,',)*' =6=6/ >1;-,'
620' 8 ,)0-*8',1' 625-*.' 8)*-*')*')60' D**2' 6==1 2,^
0' >6212' 6'.)1-',, ?' D* 1-*% : .' 1==12*2,.' =*-. .,^
0' 2' >6// 25') ?' ,)' 6;,)1-' 1 ',)*' D;// 1 '*L>1?^
?;2>6, 12' T)*' 86.' 6>>;.*0' 1 ') 5)',-*6.12' 620'
,)-*6,*2*0' 8 ,)' ?=-.12?*2,% 2' 1-0*-' ,1' *.>6=*'
,) .' 0625*-')*' >12>*6/*0') ?.*/' 2' 6' 6-,);. 62' >12^
+*2,' 6,' 6/=-1 120.' 620' .;D.*_;*2,/ ' 2' 6' >12+*2,'
1',)*' .6?*' 1-0*-' 6,' 12,6 2*C0;C 1.>% 2',) .' -*^
,-*?*2,')*' 0*+1,*0') .' 6,,*2, 12',1',)*' D/*' 8)>)'
6.')*' .,6,*.')60' ;2, /',)*2' D**2' 2*5/*>,*0' D ') ?'
620' 8)>)' 218' D*>6?*') .' 6+1-,*' !' *. 0*.' 6'
2;?D*-' 1 '/*,,*-.',1') .' - * 70.' // 7 4*-.12' 620'
1,)*-.')*' 8-1,*' 6,' 12,6 2*C0;C 1.>' .*+*-6/I' 81-9.'
;// 1 '-* 1-?6,1-' 0*6.' 6.'-*56-0*0' D1,)',)*' =-*+6 /^
25' >1--;=, 1=.' 1 ') .');->)' 620' .1?*' 1 ',)*' 01>^
,- 2*.% ()*' ?1.,' ?=1-,62,' 1 ',)*.*' 6-*' ' '
'M12',)*' +6/;*' 1 '-*, -*0'/ *X' ' '
'M12',)*' .= - ,;6/=-1 ',',1' D*' 0*- +*0' -1?'
60+*-., X' ' 2 " ' ' 1'M>1?^
=/6 2 25' 1 ',)*' *L>*.. +*' 2;?D*-' 1 ')1/ 06 .' 8/ >)'
=-1?1,*' 0 .. =6, 12' 2.,*60' 1 '*0 >6, 12' 620' >6;.*'
,)*' D/*',_' D*' 1-51,,*2' 1+*-',)*' .,1-*.' 1 '.6 2,.X%
2' 6//,)*.*' 81-9.' /*?625*.'-*>1?*?*20*0',)*' D/*'
6.',)*' =;-*.,' 620' - >)*.,' .1;->*' 1 ')- ., 62' 9218/^
05' 620')- ., 62'/ *% ()*' 7*>6 '1',)*');->)')*'
6,,- D;,*0',1',)*' 2*5/*>,' 1 ',)*' D/*T ,)*' >1;2>/.'
2') .' 1= 2 12' >1;/0' >/6 ?' -*56-0' 1-',)*.-' 0*>. 12.'
12/ ' ',)*' ?*?D*-.' 8*-*' -*6// ' D*/*+*-.' 620' '
,)*' 8*-*' ?1-*' >12>*-2*0' 1-',)*' .6) 6, 12' 1 '.1;/.'
,)62' 1-' .*>;/6-' 2,*-*.,% : .'+ *8.' 12' 5*2*-6/>1;2^
>/.' 8*-*' ;// '.*,' 1-,)' 2' 6'/ ,,/*' 81-9'*2, ,/*0'
% ' ' ' G' 8)>)' >12. .,' 1',)-**'
/*,,*-.' 600-*..*0' 2' 1-' S',1' 6'=-1 *..1-'),)*'
6-.' $2 +*-. ' M=- 2,*0' 6==6-*2,/ ' 6,' *226' 2'
QKX% : *' 21,' 12/ ' =/6>*.' ,)*' 6;,)1-, ' 1 ' 5*2*-6/
>1;2>/.' 1+*-',)*' 6;,)1-, ' 1 ',)*' =1=*.' D;,',)*' 6;^
,)1-, '1 ',)*' D/*' 1+*-',)*' 6;,)1-, '1 ',)*' >1;2>/.%
:*' 01;D,.' 8)*,)*-' 6,' 6//,)*' 1-= *-'1*>;?*2>6/ >1;2C
>/.',)*' :1/ ' =-,'-*6// '=-*.0*0' 6.',)*' :*' 1/ 'V =-,'
81;/0' 21,' 6.. .,' ?*2' =; 7 25' .*>;/6-' 6 ?.% :*' 0*^
2*.',)6,' 6' >1;2>/ >1?=1.*0' 1 '.;>)' ?*2' -*=-*.*2,.'
,)*');->)' 620' 6..*-,.',)6,' 410' 6/12*' 9218.' P+)1' 6-1'
) .'=*1=/*' 620' 8)*-*',)*' :1/ ' 4)1.,' 08*//.' 620',)6,'
,)7*' ?6 ' D1' ,?*.' 8)*2',)*');->)' >62' 12AA!' D*'
1;20' 2' 12*' .25/*' 81?62' I ' '% # " =
' % ' ' 8! ,)*-' 81-9.' 2'
8)>)')*' *L=-*..*0') ?.*/ '+*2' ?1-*' -**/ ')6+*'
D**2' /1.,' 620' =*-)6=.' .;==-*..*0%) * / ' 656 2.,'
,)*' ?? 1-6/ / *' 1 ',)*') 5)*-' >/*-5 ')*' 8-1,*' 6D1;,'
') .',-*6, .*' ' % 2 ' $ ' :*' 7/.1
;-5*2,/ '-*>1? ?*20*0',1',)*' :1/ ' .*>;/6-' 6;,)1-, *.' 1 '
6' 2*8' =1=*' ;2, /',)* ')60' >1?*' 1' 62' ;20*-.,620 25' a
) .' >1;2,-',)*' ,*6>) 25' 1 ',)*' D/*' 6.',)*' 12/ ' .6 *'
8 ,)' ,)*' >6-0 26/.' 1 ' 1?*' 620' 8 ,)' 12 6>*' d T -*?*0 '656 2.',)*' >12, 2;6/' > + /' 86.-' 620' 0 .,;-D0

62>*. ' 620')*' >1;2.*/*0' 0;9*') / =' 1 ' ;-5;20 ' ,1' >12+19*',)*' 4*2*-6/ .,6,*.' 1-',)*'-*.,1-6, 12' 1 '/68' 620' A;., >*% : *' 6/.1' 8-1,*' 38) /*' 6,' 12,6 2*C0;C 1.>' .*+*-6/ =1*, >6/ = *>*. ' 8) >)'6-*' 0 ., 25; .)*0' 1-',)*' D- // 62>*' 1 ',)* -' 6, 2 , % ',)*' /6,,*-' *6-.' 1 ') .' / *' D;,' / ,,/*' .' 92182% ()*' >6212- '6,' 625-*.')*' *L>)625*0' 1-' 12*' 6,' 60' *;L% ,)*-' *>>/*. 6., >6/ 0 52 , *.' 8) >)' 8*-*' 1 ^ *-*0',1') ?')*' -* ; .*0 '6.') .' >12.> *2>*' 0 0' 21,' 6//18') ?' ,1' 6>>*=,' ?1-*' D*2* >*.' ,)62' 12*% 2' K ')*' 0* *20*0' 6,')6-,-*.' ,)*' / D*-, *.' 1 ' ,/ *' 46/ /*62' ;->)% 2' 7 ')*' 656 2' D*562',1' 5 +*',)*1/15 >6/ /*>,;-*.' 2',)*' >1//*5*' 6,' 6+6--*' 620') .' >122*>, 12' 8 ,)',) .' .>)11/ >12, 2;*0';2, /') .' 0*6,)% ()*' *6-' 1 ') .' 21,' 92182% +*2') .' *= ,6=)' M8) >)' 86.' 0*.,-1 *0' 2' RNX 0 0' 21,'.,6,*' ,% ' 81-9' *2, ,/*0' ' ' 6 1' 1-' ' ' % ' 6 J I ' 8) >)' . 2>*' (-,)*? ;.' > $ % !' 6 XI!' .' ;.;6// '>/6..*0' 6?125',)*' 8-, 25.' 1 ' S? ?625*. ' >6221,' D*' -1?') ?% ,.' /625;65*' .' ?1-* + 1/*2',)62' /*?625*.' *+*-' 20;/5*0' 2% ,' 6D1;20.' 2' 6,,6>9.' ;=12' *2*0>,' d ' 6,' 6', ?*' 8)*2' S? ?625*.' 86.') .' .*>-*,6-' 620' */1_;*2,')6?= 12% ,' 76.' ;201;D,*0/ ',)*' 81-9' 1' .1?*' ?*?D*-' 1 ',)* 6-.' $2 +*-. , % _;6// ' >*-,6 2' .' ,)*' .=;-1;.^ 2*..' 1 ',)*' 81-9' &% ' M % *% ' (8' ' % ' f8 ' ' ' =' *,>%' 8)>)' 86.' 8-,,*2' 6,' 12.,62>*' 0;-25',)* .*.. 12' 1 ',)*' >1;2> /% <1.,' 1 ') .' 81 9.' 8*-*' =;D^ / .)*0' D ' 0 ;.' M * 0*2' S N' K' +1/.% ,1X' D;',.1?*' 1 ',)*?' ., // ' *' 6.' ;2*0 ,*0' < % 2' / D-6-*.% ' : *-[15' 6 26 *+ %f ' ' ._%T & *,[*-' ;% & */,*') + 1 + 1' ' ._%T *620*-' "f # ' +' N ._%T <1.)* 2' "f # ' ' KK' 620' 6' ?1215-6=)' 1 ' <;2,[' A [9V66 ' ' ' N ' M ,-6.D% QI S' Q+1X T%4 *.*/*-' "f # f' =*-% '0 +% +' g' NT : 6.=' "' # ' =% NKS N T' ' BH*C ,88' <6->)' Q % /* ?*2.' 0 $ ' ! $ ' .;-26?*0' . 4' <;.' 86.' 6' 26, +*' 1 '* ,)*-' ,)*2.' 1-' /*L620- 6' 620' /1;-.)*0' 2',)*' -* 52.' 1 ' *.+*-;.' 620' 6-6>6//6' M,)* 06,*' 1 ') .' D -,)' D* 25' =/6>*0' 6D1;' % % S ' 620' ,)6,' 1 ') .' 0*6,)' -1?' % % K ' ,1' KK X% :*I86.' 2' *6-/ ' / *' 62' 6-0*2,' .,;0*2,' 1 ' / ,*-6,;-*' 620' =) /1.^ 1=) '*.=*> 6// ' 1 ',)*' ,1 >' 620' /6,12 >' .>)11/.' 620' 86.' /*0' D ') .' .,;0 *.' ,1')- ., 62 , % (1' ?6.,*-' ,.') .,1- '620' 01>,- 2*.')*' + . ,*0' 0 *-*2,'>1;2,- *.' 620' -*>* +*0' 2.,-;>, 12' -1?' +6- 1;.' ?6.,*-. ' 1 ' 8)1?')*') ? .*/ ' .=*69.',);.a' ()1.*' + 51-1;.' 620' 62 ?6,*0' 0 .>1;-.*.' 8) >)' ' 86.' =- + /*5*0' ,1')*6-' 620' 1 ' D/*..*0' 620',-;/ ' -*?6-96D/*' ?*2% ',)*.*',)*' 12*' 2' 4-**>*' 62' 12 >' ,)*' 1,)*-' 2' <6526' 4-,*> 6' ,)*' -.,'1',)*?' -1?' 1*/*C -6',)*' .*>120' -1?' 5 =,' 620' 1,)*-.' 2',)*' 6.,% ()*' 12*' 86.' D1-2' 2',)*' /620' 1' .. -6' 620',)*' 1,)*-' 6' : *D-*8' 2' 6/*.,2*' &) *2' >6?*' ;=12',)*' /6.,' M)*' 86.',)*' -.,' 2' =18^ *-X7)6+ 25',-6>9*0') ?' 1;,' >12>*6/*0' 2' 5 =,' ' 1;20'-*.,% : *',)*' ,-;*',)*' > / 62' D** '56,)*- 25' ,)*' .=1 / 1',)*' /18*-.' 1',)*' =-1=)*, >' 620' 6=1.,1/ >?*6018' *25*20*-*0' 2',)*' .1;/.' 1 ') .')*6-*-.' 6' 0*6,)/*..' */*?*2,' 1 '9218/*0 -*J' >$ ' / D% '>)% ' =% N '+1/% ' 1 ',-62./6, 12' 2' 2, C >*2>')- ., 62' D-6- JX% ()./6.,',*6>)*-' 86.' M6>>1-0 25',1' ;.*D ;.X 62C ,6*2;.')*60' 1 ',)*' >6,*>)*, >6/.>)11/I6, /*L620- 6' D '8)1.*' 2 /;*2>*' .1?*' .;==1.*' /*?*2.' 6.' *,' 12/ ' 6'. 2>*-*' 2_;-*-' 86.'/*0' ;// ',1' *?D-6>*',)*')-.C , 6_7 6 ,)% :*' .' >6//*0' 6' =-*.D ,*-' D ' *6-/ ')- .^ , 62' 8-,*-.')6+ 25' =-1/X6D/ ' D**2' 6==1 2,*0',1' ,)6,' 1 //>*' D ',)*');->)' 6,' /*L620- 6' 620' 6D1;,' ' D*^ >6?*' 1?=6>>1-0 25',1' .1?*',)*' 6.. .72,' 6>>1-0 25',1' 1,)*-.',)*' .;>>*..1-',1' 62,6*2;.' 8)*2',)*' /6,,*-' .*,' 1;,' 12') .' ? .. 126-',1;-',1',)*' 6.,% :*' >12, 2:*0' 2',)6,'1 >*' ;2, /',)*' =*-.*>;, 12';20*-' *+*-;.' % % K K' >1?=*//*0') ?',1' /*6+*' /*L620- 6% ()*' 8-,*-.' 1 ',)*' 6-,>/*.' 2' ? ,) .' '? +' '5 !';! ' + !' 620',)*' 7 '& ' % '.,6,*',)6, /*?*2.'-*,;-2*0', ' /*L620- 6' D* 1-*' % % K '620' ,)*2' D*>6?*',)*?6.,*-' 1',)*' .>)11/ 6.' .;>>*..1-' 1' 62,6*2;.' D;,)*' 8* 5),'1 '6;,)1-, ' 6+1-.',)*' *6-^ / *-' 06,*' 620').' -*,;-2',1',)6,'=/6%** . 01;D, ;/% & *' 9218' .>6->*/ '62 ,) 25'1',)*' >/1. 25' *6-.' 1 ') .'/ *% : *' 6==*6-.',1')6+*' D**2' 6D1;,' K ' 1-' K ' 2' B*-;.6^ /*? ' 1-')*' .' ?*2, 12*0' D ' ;.*D ;.' M/ D% + ' >)% X 6.',)*' D*6-*-' 1 '6'/*,,*-' -1?' /*L620*-' D .)1=' 1 'B*^ -;.6/*?',)*_')*.*/

620' -*=*2,62>*' >1?D6, 25',)*' *--1-.' 1',)*' 6. //O C' \ + 1' E(E!' ' M 120% QNQ' =% KK CK R' /6-9*' $!' 62.' 620' 6/*2, 2 62.↑ 6..*-,.' ,)*' -**01?' 1' ?62 .' G ' M % ' NQNRX' =% RC Q' ; .*D ; . %V . ?-% 8 //' 620' =-*. *2,.' ,)*' + *8.' 1' 0 *-*2,' =) /1.1=)*-.' 'I) ! / D% +' *,' + ↑ D ' *'$ ' !' >,% NQ K' =% 2' -*56-0',1' ?6-- 65*' 8)>)' /*?*2.' 0* *20.' 12',)*' 7 KR' * 29*2. ' B *' ' ' & 1' 5-1;20.' 1',)*' 26,;-6/' >12 1-?6, 12 1',)*' .*L*. ',)*' ' 1' $ % ' " %" ' -" ' M -6, ./6+' >1? ?620' 1 ' 410' M4*2% ' KQX' 620',)*' ?;,;6/ 6 0' 2' NQ ' Q+1X↑ : 1* *-% # ! ' ; ! ?" ! .% +%↑ -*==*/' . >92*..' 620' 65*' -*20*-*0' D ') ; .D620' 620' 80 *' 620'1 ' (&' 'M 6- . ' QSSX' 6 *' ' ' =6-*2,.' 620' >) /0-*2% 2' 119' ' >12, 2; 25',)*' , % ' ' ' & ' M 120% QN ' Q+1X% .6?*' .;DA*>,')*' >120*?2.',)*' 1= 2 12.' 1',)*' <6-C' * /* ? * 2 ,' >ND1("%(' 1-' 6,% 81' 6 > 12 ,*.' 6-=1>-6, 62.' 620' 1,)*-')*-*, >.' 8) 1' 1==1.*0' =*-.12' M6==6-*2,/ ' 6')- ., 62' 1 ') / == X' ?*2, 12*0' D ' 6 ; /' M) /' + ' NX' 6.' 12*' 8) 1.*' 26?*' 86.' 2',)*' ?6-- 65*' 1-' 0 *-*2,' 620' >12,-60 >,1- ' -*6.12. ' 6/^ D119' 1 '/ *' M % %X' % % % ( ) .' /*?*2,' 86. ' D ' /*5 25' 2' .;==1-,' 1 ' ,' ,)*' 81-0.' 1 ' ,' 6 ; /' M ' (?% + I /CNX' 620',)*' *L6?=/*.' 1 ',)*' 6=1.,/*.' *,*-' 620' ,)*' 62> *2,')';->) ' 0*2, *0' 8 .)',) *' 62> *2,')';->) ' 0*2, *0' 8 .)',) *' 1=' 1 ' 1?*' %) / = ' 8) 1' 8*-*' ?6-- *0' 620') 60' >) /0-*2% 119' ' 1',)*' .6?*' 26?*' M ;.*DI' # !' 6 ! ' T' ! 0 .>1;-.*.' 1 ')- ., 62' =*- *>, 12' 6.' *L*?=/ *0' 2',)*' &% ! ' ST' - 5*2' +1/% ' =% KSK' *0% 1? ?6,[.>)')- ., 62' ?6-,A(' 8) 1' .'/*0',1' ?6-, -01?' 21,',)-1;5)' 620' B*-1?*' $ % ! ' 6 ! ' =% S' 6X' 620',)6,' 1= 2^ *6-' 1' =;2 .)?*2,' 1-')1=*' 1' -*86-0')*-*6 ,*-' D;,' 12')6.' 26,;-6// ' D***2' 1//18*0' D ' 1?62' 6,)1/ >' -1?'/1+*' ,1')- .,' 620' 8) 11' 01*.' 21,' 2**0/*..' / '=-1^ *L=1. ,>7.% ,' >6221,' 218' D*' =-1+*0' 2>1--*>,† 620' +19*') .' 6,*' D;,' 12/ ' 6>>*=,.' ,' >)**- ;// ' 8) *2' 2' 6>,' ,' .' 21,' ?=-1D6D/*' 2' ,.*/ % ( )*-*' 6-*' *.^ >6//*0' ;=12',1' D*' 2',)6,' 86 '6' 8 ,2*..' 1-',)*',-;,)% .6 .' 12') .' / *' 0*2, ' 620' >)6-6>,*-' 6.' 6',*6>)*-' ( )*' >) * '6 ?' 1' 119' ' .',1' =-1+*',)6,',)*' 4-**9.' D *';*-/* 2'M /,1- ' KQX' -*;0*2)*-5*-'M =.% X' 0*- +*0' ?1.,' 1',)*-.' 8 .01?' -1?',)1.*' >6//*0' D ' -1?7 ?622' M 1D/% SQX' 1;0 2 2 'M 1?% S SX% **' ,)*?')6-%6- 62.' 620' *.=*> 6// ' -1?' <1.*.' 620',)*' ' ' ! : *D-*8' =-1=)*,.↑ D;,' ,' 6/.1' *2,*-.' ;=12' 6' /125' 620' /* ? * 2,' $ 3!' 2*' 2,*-*., 25' 0 5-*.. 12' 12',)*' 1- 5 2' 620' ;.*' 1' . ?^ 1',)*' *6-/ ' =-*. D ,*-.' 1 ') ;->)' 2' 1?*↑ =-1D^ D1/.' 620' ?69*.' ?62 ' +6/;6D/*' .,6,*?*2,.' 2' -*56-0' 6D/ ' 6' =-*. 0 25' =-*.D77,*-'% ' '% 1' 6 .*-^ ,1',)*' 5 =, 62') *-15/ =) >.' 620',)*' 0-*..' 620' >*-*C' * 86-0.' >6//*0' D .)1=% -*26*;. ' 2') .' ! ' # !' M ' 'N' ?12 6/ .*-+ >*.' 1',)*' : *D-*8' =- *.,.% ( ) .' *= .10*' [NX' 8- ,,*2' D*,8 **2' QKC QQ' % %' ?69*.') ?',)*',) -0' .' 12** 1',)*' ?1.,' >;- 1;.'-*/ >.' 1' 62, _;, ' 620',)*' 2' 1-0*-'6 ,*-',)*' 6=1.,/*.' *,*-' 620' 6;/ ' 2;.' D* 25')119' 6D1;20.' 2' _;1,6, 12.' -1?' 62> *2,' 6;,)1-' 26>/*,;.' ,)*' .*>120% ()*' 119.' ' 620' ' =1-,-6 ',)*' ,-;*' 421., >',)*' =*-C% ' 5 +*' 6' 0 *-*2,' 1-0*-' 8) >)' 86.' 1//18*0' **')- ., 62' 8) 1' .' =-*.*2,*0' 6.' 6' '>1?=/*,*' ?10*/' 7D ' (*-,;// 62% ;,' ;.*D ;.' 8) 1' 6==*6-.' ,1')6+*' 1' ?1-6/' >120;>, J' 21,' .1' ?;>)' 0*. -1;.' 1' / + 25' 6.' ,69*2' 5-*6,'=6 2.',1' D*' 6>>;-6,*' 620') 60' 6>>*..',1' 6;^ 1' / + 25' - 5),/ ' >12,-1// 25') .' =6.. 12.' 620' -*5;/6^ ,)1- , *.' 21' /125*-' *L,62,' =-* *--*0',)*' 1-0*-' 1' -*C' , 25') .' 0*. -*.' 2' >12 * ? , ' 8 ,)',)*' /68.' 1')- .,% 2.*;% : *' 6/.1' 600.' ,)*' 06,*.% /*?*2,')*' .6 .' ' .?6// 81-9' (H' ' * ' (- 1;--,15↑ I1 " ' >% ' ' N X' 0 *0' 2',)*',) -0' *6-' 1' (-6A62')6+^ +' ' '" ' Z(8 .' 6/.1' 6,,- D;,*0',1' /*?*2.% 25' 1-' 2 2*' *6-.' .;=*- 2,*20*0',)*' =-*6>) 25' 1',)*' ( ) .',-*6, .*' 62' *L6? 26, 12' 1',)*' 81-0.' 1') - .,' + 2*' & 0-0% J' .' (-6A62' D*>6?*' *?=*-1-' 1=',)*' M < 6,,' L L 'K T' ;9*' L+ 'K X' 620' 6 ?.',1'.)18',)6,' 0*6,)I1 ' *-+6 'B6?' KN' RQ' % %',)*' .1C>6//*0' *= .>1^ ,)*.*' 81-0.' 01' 21,'-*_; -*',)*' -*2;2> 6, 12' 1 '81-/0/ ' =6,*' 1 ' /*?*2,' 8 //)6+*' 1-' ,.' .*-? 2' R ' 1-I' RK ' %5110.' 6.' 6' >120 , 12' 1 '.6/+6, 12↑ ,)6,',)*' 0 .=1. , 12' 1-' % % -*2.*;.' .=*69.' 1 ') ?' 6.' ``)6+ 25' .**2' 1',)*' .1;/ .',)*' *..*2, 6/,) 25' 620',)6,' - >)*.' ?6 ' 620' >12+*-.*0' 8 ,)',)*' D/*..*0' 6=1../*. I' 8)1' ' 1;20^ D*' ,)*' ?6,*- 6/.' 620' 2.,-;?*2,.' 1' 5110' 81-9.' 1-' *0') ;->)' 2' 1?*' J' % *% *,*-' 620' 6;/% - ^ ,)1..*' 8)0' - 5),/ ';.*',)*?% 5*2' I ' 'D ' + ' NSX' 0*2, *.') ?' 8 ,)',)*' ()*' 1//18 25' 81-9.' 1' /*?*2.' 6-*' 21,' *L,62,' /*?*2,' 1') / == 62.' + ' N% ( ) .' ?6 '%)6+*' D**2' M,)*' -65?*2,.' 8) >)')6+*' D**2' >1//*>,*0' 6-*' 1;20' 2' 12/ ' 6' >12A*>,;-*' 1-' ,' ?6 ')6+*' D**2' 6',-60 , 12% ,' ,)*' *0 , 12' 1 ' 1,,*-' +1/% ↑ 2' 6D-/> ;..' # %% ' 86. ' 6,' 62 ' -6,*',)*' 1= 2 12' 1 ' ;.*D ;.' 620',)*' *6-/ ' 6,',)*' *20' 1 ' +1/% ↑ 620' 2' 46//620 .' ; +!' ' 8-,.*-.' 620' .' 2' ,.*/ '21,'6,'6//' ?=-1D6D/*% ( ) -, ' 620' < 52*.' 2G 8E (-1-;(-8>-> ↑ :,=' ' *6-.' 81;/0' >*-,6 2/ ' D*' , ?*' *21;5)' 1-' 6' =-1? 2*2,' 01 6↑ (*= V -6;>↑ (.=' >6-6d6d 6 ↑ /=1-= ,-C') / == 62',1' D*>1?*' 6' =-1? 2*2,' 1? 62% <10*-2') ' 1 (1 -- , O , N fN F ') N 2 (6)) O * -) , I 6,,*?=,.',1'?69*' 1;,') .' 1- 5 2' -1?',)*' *=.,/*' 8) >)' ' VL8 ↑ : =' (-=1+1,6>H' ' ' D6-.') .' 26?*')6+*' 6/*0% B;05 25' -1?',)*' *= .^ /*?*2.'-*' *-.',1'.1?*' 1,)*-',-*6, .*.' 6.' *,)*-' 8-,^ ,*2' 1-' 2,*20*0',1' D*' 8-.,,*2' D ') ?' D;,' 8*')6+*' 21' ?*2, 12' 1 ',)*?'*/.*8)*-*% 6.' =-1D6D/ ' 6.',)*' 1,)*-% ; 2;. 8)1'0 *0' ' % %' ( )*' -.,' *0 , 12' 1 ',)*' ,)-**' =- 2> =6/' 81-9.' 1 ' 86.',)*' -.,',1' >6//) ?' 6' ?6-, -% ( )*' /625;65*' 1' /*?*2.' 86.' ?60*' D ' *,-;.' >,1- ;.' M /1-*2>*' ;.*D ;.' ?=/ *.',)6,')*' 0 *0' 6' 26,;-6/ 0*6,)' 8) >)' ' 1/% ↑ 6' 6, 2',-62./6, 12' 2' X% ,' 86.' 1/^ 6/,15*,)*-' / 9*/ ',1')6+*' D**2',)*' >6.*').' 06,*.' /18*0' D ' 62' *0 , 12' D ' -% 7 /D;-5' M : * 0*/D*-5' RK') 6+*' D**2' >1--*>,/ ' 5 +*2% -" ' ' '$!' 1/%X% ' 4-**9C 6, 2' *0 , 12' 86.' =;D/ .)*0' D ' % !' 2',)*' -.,' +1/;?*' 1',)*' '&% ' 1' : * 2. 7' M * 0*2' S S' 1/% ↑ -*=- 2,*0' 6- .' SKR' 1,*/*-;.' .' 6' =;*-/*' 6D-> 6, 12' 1 '21' 5-*6,' 62, _;.^ 6- .' S ' 1/152*' SQQX' ()*' D*.',*0 , 12' 1' 6//' ,' .' ,.,1-EI7 .',)6,' /*?*2,' 86.' -.' D62 .)*0' D ' ,)*' 81-9.' 1' /*?*2.' 5*2; 2*' 620' 01;D, ;/' .',)6, ' (-6A62',1')*-.12*.;.' 620' 6 ,*-86-0.' 0-182*0' 2',)*' K' +1/.' 1D' 620' \8 ,)1;',)*' 21,*.' 620' ,)*' >1?2*2,C' /6>9' *6% 2' -*6>) 25') .' =/6>*' 1' *L /*') *' 1;20' 6- N' D ' D*-)1/[*-'6,' & ;-[D;-5' QC R N' +1/.' Q+1X% ,81',)1;.620')- ., 62.' >120*?2*0',1' 81-9' 2' 6' ?6-^ *8' *0 , 12.' 6 *' D ' /1,['M * =.% QN CN '+1/.' Q+1X' D/*' ;.*=*-' 2,*0' 6- .' SKR' 620' D ' DD*' < 52*' M 2') .' 8' 2' *L>*//*2,' 6- .' S ' 1/152*' SQQX' ()*' D*.',*0 , 12' 1 '6//' ,-62./6, 12' 2' 25/ .)' 1',)*' &%% 1',)*' ' *2.' D '4*2, 62;.' : *-+*,;.↑ -*=- 2,*0' 6, *2 >*' & K' +1/.' 1D' 620' \8 ,)1;',)*' 21,*.' 620' ,)*' >1?2*2,C' 620' ,)*' -.,' D119' 1',)*' $ 'M,)*' -*?6 20*-' 1' ,)*' 81-9',1' 1//18' 2' 6' .;D.*_;*2,' +1/;?*X' .' 1;20' 2' +1/% +' 1',)*' & =7 ' " ' 'M 0 2D% QS X% ' >)6 ' "' # ' ' K S' *,' 6)↑ *620*-' "!' # ' 'SR' ._% I620' # !' ' 1' SN' *,' 6/% ↑ 4 *.*C' /*-' "!' # !' =*-% ' 0 +% ' >)6=' ' g SK↑ 6-02*- ,1?D' D;,' 8*-*' 21,' =*-? ,,*0',1' -*?1+*' ,% +*-

6-' 12' ,)' 622 +*-.6- ' 1 ' ,)*' ?6-, -01? I,)*' .*6' -*=*6,.' ,) .' ? -6>/*' 1 '-*>*0 25' 1-' .*+*2' 06 .' ' 2^ 1,)*-' 6D/*' >12 1 ;20.' /*?*2,' ,)*' =-*.D ,*-' 8 ,)' - ' @ ' 1' ,)*' >12. ; / '620' >1 ; . 2',1',)*' *?=*-1-' 1? , 62 ' D ' 8)1?')*' 86.' = ; ,' ,1' 0*6,)' 12' 6' >)6-5*' 1 ' '6,)* .? I '12*' 1 ' ,)*' >)6-5*.' ,)*2' >; --*2,' 656 2.,')- ., 62. ' ;>)' 6D/*.' 2' ,)*' 6D.*2>*' 1 '6 ; ,)*2, >' ?*?1- 6/.' 6-*' 21,',1' D*' 8120*-*0' 6,% ()*' 8120*-' .' ,)6,' ,)*' 6 ; ,)*2, >' ?*?1- 6/.' 6-*' .1' ?*65-*1' ,)6,' 1 ' ,)*' -*6/ /*?*2, ' 6' ?62' .1' >12.= >;1; . '6D/*' 620' 20' 0 ; * , 6/ '7,7*-*' .' .1' / ,,/*' 92182% ',)*' 8- , 25.' 6/.*/ '6.>- D*0',1' /*?*2,' 1 ' 1?*' 21, >*' .',69*2' 2' 621,)*-'6-, >/*% **' ! ()*' 12' / 5*2 ; 2*' 01>; ?*2,' .') .' 6% ' ' " ' =' + $ >1? ?12/ '>6//*0',)*' @ 'D ; ,' ?=-1=*-/ '. 2>*' ,)*' .1C>6//*0' $ '6% ' .' 21,') . '620' .' 21,' 62' *= ./*'D ; ,'12/ ' ,)*' -65?*2,' 1 '6')1? / '/6,*-' =*-^)6=.' D ' 2*6-/ ' 6') ; 20-*0' *6-.% ()*' 12/ ' 92182' ?62 ; .>- =,' 1 ' ,) .' *= ./*' .' ,)*' 12** 6==*20*0',1' ,)*' /*L620- 62' 10*L' 1 ' ,)*' >- =, ; -*.' . *2,' D ' - / ;>6-',1')6-/*.' ' 2' SKQ' 620' 218' ,)*' =-1=*-, ' 1 ' ,)*' - , .)' < ; .*; ?% ()-1;5)1 ; ',)*' ?62 ; .>- =,' 6-* ?62 ' 5*2*-6// ')18*+*-' 1 '12/ ' . 25/*' 81-0. 1-' . //6D/*.% ()*' 12/ ' >12. 0*-6D/*' 56=' 1>>6. 12*0' 6==6-*2,/ 'D7',)*' /1..' 1 '6'/*6 ' .' 2*6-',)*' *'20' 1 ',)*' *= ./*' D*,8**2' >)6=,*-.' '620' Q% : *-*' ?6 ')6+*' D*/125*0'>*-,6 2' 62> *2,' > ,6, 12.' -1?' /*?*2,'8) >)' >6221,' 218' D*' +*- *0% 1?*' *L=-*.. 12. ' / 9*' E =' 2 2' ,)*' ,)' >)6=,*-')6+*' 6' .; .= > 1 ; .' /1191' D ; ,' 1 ',)*' .; D..62, 6/ 2,*5-. ' 1 ',)*' *= ../*',)*-*' .' 21' 5110'-*6.12' 1-' .*- 1 ; .' 01; D,% ()6, ',>6?*' -1?',)*' =*2' 1 ' /*?*2, ',)1;5)') .' 26?*' .' 21,' 2',)*' *= ../*' .' 218' 5*2*-6// ' >12>*0*0% ,' 6==*6-.',1')6+*' D**2' 2',)*' 620.' 1 ' 1/ >6-='1 ' ?A(-26' 8)*2' 8- , 25',1' ,)*') / == 62.' 6.' *6-/ ' =*-)6=. ' 6.' ' >*-,6 2/ ' 21,' ?,>)' /6,*-',)62' /1 ' % % ' ,' .' -* *--*0',1' 6.',)*' 81-9' 1 ' /*?*2,' D ' 12 . ; .' 1 ' 1- 2,)' 2' 6' /*,,*-',1' 1,*-' 1 ' 1?*' 8)>)' ?; .,')6+*' D**2' 8- ,,*2' D*^ ,8**2' C S' % % ' -*26*; .' 2',)*' .*>, 12' 6/-*60 ' >,*0' I !' # ' ' N' NX' .=*69.' 1 ' ,' 6.' 6' +*-A76D/*' *= ./*' .*2,',1',)*');->)' 2' 1- 2,)' D ' ,)*');->)' 2' 1?*' ; 20*-' ,)*' *= .>1=6,*' 1 ' /*?*2,% - 5*2' 8)1'0 *0'K ' % % '.=*69.' 1 ' ,' 6.' 8- ,,*2' D ' /*?*2,% 1'6/.1' /*?*2,' 1 ' /*L620- 6' \ ' KK h' 8)1' -*_ ; *2,/ ' 620' -**/ ' _ ; 1,*.' -1?' ,' 620' *+*2' >6//.' ,)*' 6 ; ,)1-' 1 ' ,' ',)*' % ' /*?*2,%J' ; .*D ; . ' 8)1.*' : .,1- ' 86.' 8- ,,*2' 6D1 ; ,' NK ' % % ' 6.>- D*.' ,' ,1' /*?*2,' 620' .=*69.' 1 ' ,' 6.')6+ 25' D**2' =; D/ >/ '-*60' 2' +*- ' ?62 '>); ->)*.' D1,)' 2' 1-?*-', ?*.' 620' -' 1 ; -' 182J' I1 D ! ' SX'3 B*-1?*' M ' K X' 2' D .' ' 'N ' =' " 'g' ' -*=1-,.' ,' 6.' ., /' =; D/ >/A' -*60' 2' .1?*' =/6>*.%J' ; ,' 21' 12*' 1 ',)*.*' 8- ,.*-.' 62 8)*-*' .=*69.' 1 ' ,' 6.' 62' 2.= -*0' D119% ()1 ; 5)') 5)/ ' =- [*0 ' 2* ,)*-' ,) . ' 21-' ,)*' = ../*' 1 ' 6-26D6. ' 21-' ,)*')*=)*-0' 1 ' : *-?6=' 86.' *+*-' 2>/ ; 0*0' 2' 62 '62> *2,' / .,' 1 '6 ; ,)1-,6, +*' D119.% M **' & *.,>1,,' ' '" '7 '- ' ==*20 L' %X ().' *= ../*' 6.' 8*' 218')6+*' ,'>12. ..' 1 ' , C2 2*' .)1-,' >)6=,*-. ' .1?*' 1 ',)*?' +*- ' .)1-, ' 8)1.*' ,1,6/ D ; /9' .' 6D1 ; ,' 12*' ,) -0' 5-*6,*-' ,)62' ,)6,' 1 ',)*' . L^ ,**2' >)6=,*-.' 1 ' ,% 6 ; / .' -.,' = ../*' ,1' ,)*' 1- 2^ ,) 62.' 6-*' -,> =-6 .*0' 1-' ,)* -' 1-?*-' + -.,' *. ' 620' ,)*2' .)6-=/ '-*D ; 9*0' 1-.,)* .>6206/.' 7) >)')60' 1>^ >;--*0% ()*' 2*L,' 2 2*,**2' >)6=,*-.' 6-*' 0*+1,*0',1') .,1- >6/ //;.,-6, 12. ' 0-682' -1?' ,)*' /0' 620' *8' (*.,6?*2,.' 1 ' ,)*' *+ /.' /18 25' -1?' A*6/1 ; . ' 620 >2f ↑ 1//18*0' DA7*L)1-,6, 12.',1' -*=*2,62>*') ; ? /^ , ' 620' ?**92*..% 2' ,)*' 2*L,' 1 ; -,**2' >)6=,*-. ' ,)*' *L)1-,6, 12.' 6-*' >12, 2 ; *0' 2' + *8' 1 ' ,)*' =-1?^ .*0' >1? 25' 1 ')- .,' 620' ,)* -' 17+2' -*. ; --*>, 12↑ .6/+6, 12' D ' 5-6>*' ,)-1 ; 5)' 6 ,)' .' ,6 ; 5),↑ 620' 5110' 81-9. ' 2' ,)* -' =-1=*-' -*/6, 12' ,1' 6 ,) ' 6-*' .,-125/ ' 2. .,*0' ;=12% (8*2, C12*' >)6=,*-.' 6-*' ,)*2' 0*+1,*0' ,1' ,)*' .=*> 6/ =; -=1.*' 1 ' ,)*' *= .,/*' 0 .>; .. 25' ,)*' 5*2*-6/ .; DA*>,' 1 ' *>>/*. 6., >6/ 1-562 [6, 12' 620' 1-^ 0*-' 620' ; -5 25',)*' 1- 2,) 62.',1' =; ' 62' *20',1' ,)* -' 5- *+1 ; .' .*0 , 12% ()*' /6 .', 81' >)6=,*-.' >12,6 2' 6' =-6 *-' 1-')*/= 25' 5-6>*' 8 ,)' 6' D*2*0 >, 12% ' ,1' ,)*' ' 1 ' ,) .' *= ../*' : * */*' 8)1' 65-**.' 8 ,)' 6+*' 108*// ' /*; -E ' 620' 0,)*-.' 2' 6.. 52 25' ,)*' *= .>1=6,*' 1 ' /*?*2,',1' ,)*' *6-.' 4QC ' % %' -*^ *-.' ,',1' ,/ *' , ?*' 1 ' *-1' ; ,' ,)*' ?*2, 12' ?60*' 2' ,)*' -.,' >)6=,*-' 1 ' .; 00*2' 620' .; >>*.. +*' ,- 6/. J' 8)>)')60' D* 6//*2' ,)*' 1?62');->)' .**?.',1' -*^ _ ; -*' 6' /6,*-' 06,*% ()*' (; D 25*2' .>)11/ = ; ' ,' 2,1' ,)*' .*>120' >*2, ; - % ; ' -*>*2,' >- , >6/ 6 ; ,)1- , ' =-*=120*-6,*.' 0*> 0*0/ ' 2' 6+1-'1 'N CRQ' % % ' 6//^ 25',) ; .' 8 ,) 2',)*' 6=1..1/ >' 65*' 620' *,' 1 '>12. 0*-^ 6D/ ' /6,*-' 06,*' ,)62',)*' 5-*6, D ; /9' 1 ',)*' *8' (*.,6^ ?*2,' .=*> 6/ 2,*-*.,'6,,6>)*.',1' ,) .' *= ../0' ,' ?6 ' D*' >12. 0*-*0a % 2' >1?=6- .12' 8 ,)' ,)*'>6212 >6/ D119.% ,' .' *+ 0*2,/ ' ?10*//*0' 6 ,*-' ,)*' >6212 >6/ *= ../*. ' 620' *,' .' 0*> 0*0/ ' 2 *- 1-' ,1' ,)*?% 2' -*56-0',1' /62^ 5;65*',)-*** 81-0.' ; .*0' D ' /*?*2,'6-*' 1 ; 20' 12/ ' 2' ,)*' -.,' = ../*' 1 ' *,*-↑ */*+*2' 12/ ' 2' ,)*' *= ../*' 1 ' *,*-' 620' 6 ; /↑ 620',8*/+*' 12/ ' 2' ,)*' *A= ../*' 1 ' 6 ; /% M *>' & *.,>1,,B' =% N %X ()*' D119' 1 ' 8)>)' ,' ?1.,' -*? 20.' ; ,' .' ,)*' = ../*' ,1' ,)*' : *D-*8.% : *2>*' 62' 62> *2,' -60 , 12' -*=1-,*0' ID ' ; .*D ; .' I1 f + ' K X' 12',)*' 6 ; ,)1- , ' 1 ' - 5*2 ' ,)6,' /*?*2, ' 86.' ,)*' 6 ; ,)1-' 6/.1' 1 ',)6,' *= ../*% ; ,' D*. 0*.' ,)*' ?62 ' =1 2,.' 1 '0 .. ? /6- , ' 8)>)' 0 .>-*0 ,' ,) .' =6-^ , >; /6-', -60 , 12',)*-*' .' 6' ?6-9*0' 2 *- 1- , ' =*-+60^ 25',)*' *= ../*' 1 ' /*?*2,' 6.' >1?=6-*0' 21,' _2/ ' 8 ,)' ,)*' = ../*',1',)*' : *D-*8 . ' D ; ,' 8 ,)' 6/ ,)*' -*. ,' 1 ',)*' *8' (*.,6?*2,' 8)>)' -*6>,.' =18*- ;// ' 6.' 62' 6-5 ; ^ ?*2,' 1-' ,)*' 2.= -6, 12' 1 ',)*' >6212 >6/ D119.% ()*' /0' (*.,6?*2,' _ ; 1,6, 12.' 6-*' ?1-*' *L,*20*0' T7 6- > ; ' 2,*-=-*,6, 12.' 6-*' 5 +*2' 6.' 1 ',)*' .>6-/*,'>1-0' /*,'0182' D ' 6)6D', = 25',)*' D/110' 1 ') - .,↑ 6D/*5' 6-*' 2^ ,-10 ; >*0' 6.' 1 ',)*' =)1*2 L' 2' ,-*6, 25' 1 ',)*' -*. ; -^ -*>, 12' ↑ 6,,*?=,.' 6-*' ?60*' 6,' 2*' 8- , 25' 6.' 2',)*' ,8*2, *,)' >)6=,*-.' 0*+1,*0',1' 6' 0*.>- =, 12' 1 ',)*' 1-^ 0*-' 620')6-?12 ' 1 '26, ; -*' ↑ 8 ,)' 6',*20*2> ',)-1 ; 5)^ 1 ; ' ,1' *L=6, 6, 12' 8)>)' ..620.' 2' .,-125' 12,-6. ,' 8 ,)',)*' .1D*-2*..' . ?=/>, ' ,*-.*2*..' 620' + 51-' 1 ' ,)*' 6=1.,1/ >' *= ../*.% ' / 2*')6.' ,) ; .' D***2' 0**=/ ' 0-682' D*, 8**2',)*' 2.= -*0' 620' ;2 2.= -*0' 01>; ?*2,.' 1 ',)*' *6-/ '); ->)% K% & ,)' -*. =*>,',1',)*' >6212' ..*/ % ',)*' /0' (*.^ ,6?*2,' D ; ,' / ,,/*' 2**0.' ,1' D*' .6 0% 2',)*' 86 ' * ,)*-' % ' 1 ' *L=-*..' > ,6, 12' 1-' 1 ' ?6-9*0' -*. *?D/62>*' 2*6-/ ' *+*-. ' D119' .' -*>152 [*0% (81' 6,' /*6. ,' 1 ',)*' 6=1>^ - =)6/ D119.' 6-*' _ ; 1,*0% /*?*2,' ?60*' ; .*' 1 ',)*' *=, ; 65 2,' 620' _ ; 1,*.' ?1-*' 6>>; -6,*/ ' ,)62' .1?*' 1 ',)*' 6,)*-.' 20 >6, 25' ,)6,')*' * ,)*-' -* *--*0' ,1' 6' ?62 ; .>- =,' 1-')60' 6' D*.,*-' ?*?1- ' ,)62' 1?*' 1.*?.' 8 ,)' ,)*' ()*' ,*L,' *?=/1 *0' D ') ?' : /5*2 */0' .6 .' 6>7>1-0.' 2* ,)*-' 8 ,)' ,)*' /*L620- 62' 21-' ,)*' 6, >62' 10*L' D ; ,' 8)*-*' ,)*.**6-*' 6,' +6- 62>*' .,**-.' D*,8**2',)*?' 65-** 25' .1?*, ?*.' 8 ,)' ,)*' 12*' .1?*, ?*.' 8 ,)' ,)*' 1.,)*-% 2' _ ; 1, 25' -1?',)*' *8' (*.,6?*2,' /*?*2, 2*+*-' >6//.' ' ' >- =, ; -*J 1-' ' >- =, ; -*. J' 2.')*' 01*.' ,)*' /0' (*.,6?*2,↑ D ; ,' 20 + 0 ; 6/ 8- ,*-.' 6-*' * ,)*-' ,-1.-*0% 2' 1-?' ,' -*.*?D/*.' ,)*' 6212 >6/ = ../*.' D*5 22 25' 8 ,)' 6' .6/ ; ,6, 12' 620' >12>/ ; 0 25' 8 ,)' 6' D*2*0 >, 12% 2' ,)*' -.,' ,)-**' >)6=,*-.' ,)*' 1- 2^ ,) 62.' 6-*' -,> =-6 .*0' 1-' ,)* -' 1-?*-' + -.,' *. ' 620' ,)*2' .)6-=/ '-*D ; 9*0' 1-.,)* .>6206/.' 7) >)')60' 1>^ >;--*0% ()*' 2*L,' 2 2*,**2' >)6=,*-.' 6-*' 0*+1,*0',1') .,1- >6/ //;.,-6, 12. ' 0-682' -1?' ,)*' /0' 620' *8' (*.,6?*2,.' 1 ' ,)*' *+ /.' /18 25' -1?' A*6/1 ; . ' 620 >2f ↑ 1//18*0' DA7*L)1-,6, 12.',1' -*=*2,62>*') ; ? /^ , ' 620' ?**92*..% 2' ,)*' 2*L,' 1 ; -,**2' >)6=,*-. ' ,)*' *L)1-,6, 12.' 6-*' >12, 2 ; *0' 2' + *8' 1 ' ,)*' =-1?^ .*0' >1? 25' 1 ')- .,' 620' ,)* -' 17+2' -*. ; --*>, 12↑ .6/+6, 12' D ' 5-6>*' ,)-1 ; 5)' 6 ,)' .' ,6 ; 5),↑ 620' 5110' 81-9. ' 2' ,)* -' =-1=*-' -*/6, 12' ,1' 6 ,) ' 6-*' .,-125/ ' 2. .,*0' ;=12% (8*2, C12*' >)6=,*-.' 6-*' ,)*2' 0*+1,*0' ,1' ,)*' .=*> 6/ =; -=1.*' 1 ' ,)*' *= ../*' 0 .>; .. 25' ,)*' 5*2*-6/ .; DA*>,' 1 ' *>>/*. 6., >6/ 1-562 [6, 12' 620' 1-^ 0*-' 620' ; -5 25',)*' 1- 2,) 62.',1' =; ' 62' *20',1' ,)* -' 5- *+1 ; .' .*0 , 12% ()*' /6 .', 81' >)6=,*-.' >12,6 2' 6' =-6 *-' 1-')*/= 25' 5-6>*' 8 ,)' 6' D*2*0 >, 12% ' ,1' ,)*' ' 1 ' ,) .' *= ../*' : * */*' 8)1' 65-**.' 8 ,)' 6+*' 108*// ' /*; -E ' 620' 0,)*-.' 2' 6.. 52 25' ,)*' *= .>1=6,*' 1 ' /*?*2,',1' ,)*' *6-.' 4QC ' % %' -*^ *-.' ,',1' ,/ *' , ?*' 1 ' *-1' ; ,' ,)*' ?*2, 12' ?60*' 2' ,)*' -.,' >)6=,*-' 1 ' .; 00*2' 620' .; >>*.. +*' ,- 6/. J' 8)>)')60' D* 6//*2' ,)*' 1?62');->)' .**?.',1' -*^ _ ; -*' 6' /6,*-' 06,*% ()*' (; D 25*2' .>)11/ = ; ' ,' 2,1' ,)*' .*>120' >*2, ; - % ; ' -*>*2,' >- , >6/ 6 ; ,)1- , ' =-*=120*-6,*.' 0*> 0*0/ ' 2' 6+1-'1 'N CRQ' % % ' 6//^ 25',) ; .' 8 ,) 2',)*' 6=1..1/ >' 65*' 620' *,' 1 '>12. 0*-^ 6D/ ' /6,*-' 06,*' ,)62',)*' 5-*6, D ; /9' 1 ',)*' *8' (*.,6^ ?*2,' .=*> 6/ 2,*-*.,'6,,6>)*.',1' ,) .' *= ../0' ,' ?6 ' D*' >12. 0*-*0a % 2' >1?=6- .12' 8 ,)' ,)*'>6212 >6/ D119.% ,' .' *+ 0*2,/ ' ?10*//*0' 6 ,*-' ,)*' >6212 >6/ *= ../*. ' 620' *,' .' 0*> 0*0/ ' 2 *- 1-' ,1' ,)*?% 2' -*56-0',1' /62^ 5;65*',)-*** 81-0.' ; .*0' D ' /*?*2,'6-*' 1 ; 20' 12/ ' 2' ,)*' -.,' = ../*' 1 ' *,*-↑ */*+*2' 12/ ' 2' ,)*' *A= ../*' 1 ' 6 ; /% M *>' & *.,>1,,B' =% N %X ()*' D119' 1 ' 8)>)' ,' ?1.,' -*? 20.' ; ,' .' ,)*' = ../*' ,1' ,)*' : *D-*8 . ' D ; ,' 8 ,)' 6/ ,)*' -*. ,' 1 ',)*' *8' (*.,6?*2,' 8)>)' -*6>,.' =18*- ;// ' 6.' 62' 6-5 ; ^ ?*2,' 1-' ,)*' 2.= -6, 12' 1 ',)*' >6212 >6/ D119.% ()*' /0' (*.,6?*2,' _ ; 1,6, 12.' 6-*' ?1-*' *L,*20*0' T7 6- > ; ' 2,*-=-*,6, 12.' 6-*' 5 +*2' 6.' 1 ',)*' .>6-/*,'>1-0' /*,'0182' D ' 6)6D', = 25',)*' D/110' 1 ') - .,↑ 6D/*5' 6-*' 2^ ,-10 ; >*0' 6.' 1 ',)*' =)1*2 L' 2' ,-*6, 25' 1 ',)*' -*. ; -^ -*>, 12' ↑ 6,,*?=,.' 6-*' ?60*' 6,' 2*' 8- , 25' 6.' 2',)*' ,8*2, *,)' >)6=,*-.' 0*+1,*0',1' 6' 0*.>- =, 12' 1 ',)*' 1-^ 0*-' 620')6-?12 ' 1 '26, ; -*' ↑ 8 ,)' 6',*20*2> ',)-1 ; 5)^ 1 ; ' ,1' *L=6, 6, 12' 8)>)' ..620.' 2' .,-125' 12,-6. ,' 8 ,)',)*' .1D*-2*..' . ?=/>, ' ,*-.*2*..' 620' + 51-' 1 ' ,)*' 6=1.,1/ >' *= ../*.% ' / 2*')6.' ,) ; .' D***2' 0**=/ ' 0-682' D*, 8**2',)*' 2.= -*0' 620' ;2 2.= -*0' 01>; ?*2,.' 1 ',)*' *6-/ '); ->)% K% & ,)' -*. =*>,',1',)*' >6212' ..*/ % ',)*' /0' (*.^ ,6?*2,' D ; ,' / ,,/*' 2**0.' ,1' D*' .6 0% 2',)*' 86 ' * ,)*-' % ' 1 ' *L=-*..' > ,6, 12' 1-' 1 ' ?6-9*0' -*. *?D/62>*' 2*6-/ ' *+*-. ' D119' .' -*>152 [*0% (81' 6,' /*6. ,' 1 ',)*' 6=1>^ - =)6/ D119.' 6-*' _ ; 1,*0% /*?*2,' ?60*' ; .*' 1 ',)*' *=, ; 65 2,' 620' _ ; 1,*.' ?1-*' 6>>; -6,*/ ' ,)62' .1?*' 1 ',)*' 6,)*-.' 20 >6, 25' ,)6,')*' * ,)*-' -* *--*0' ,1' 6' ?62 ; .>- =,' 1-')60' 6' D*.,*-' ?*?1- ' ,)62' 1?*' 1.*?.' 8 ,)' ,)*' ()*' ,*L,' *?=/1 *0' D ') ?' : /5*2 */0' .6 .' 6>7>1-0.' 2* ,)*-' 8 ,)' ,)*' /*L620- 62' 21-' ,)*' 6, >62' 10*L' D ; ,' 8)*-*' ,)*.**6-*' 6,' +6- 62>*' .,**-.' D*,8**2',)*?' 65-** 25' .1?*, ?*.' 8 ,)' ,)*' 12*' .1?*, ?*.' 8 ,)' ,)*' 1.,)*-% 2' _ ; 1, 25' -1?',)*' *8' (*.,6?*2,' /*?*2, 2*+*-' >6//.' ' ' >- =, ; -*J 1-' ' >- =, ; -*. J' 2.')*' 01*.' ,)*' /0' (*.,6?*2,↑ D ; ,' 20 + 0 ; 6/ 8- ,*-.' 6-*' * ,)*-' ,-1.-*0% 2' 1-?' ,' -*.*?D/*.' ,)*' 6212 >6/ = ../*.' D*5 22 25' 8 ,)' 6' .6/ ; ,6, 12' 620' >12>/ ; 0 25' 8 ,)' 6' D*2*0 >, 12% 2' ,)*' -.,' ,)-**' >)6=,*-.' ,)*' 1- 2^ ,) 62.' 6-*' -,> =-6 .*0' 1-' ,)* -' 1-?*-' + -.,' *. ' 620' ,)*2' .)6-=/ '-*D ; 9*0' 1-.,)* .>6206/.' 7) >)')60' 1>^ >;--*0% ()*' 2*L,' 2 2*,**2' >)6=,*-.' 6-*' 0*+1,*0',1') .,1- >6/ //;.,-6, 12. ' 0-682' -1?' ,)*' /0' 620' *8' (*.,6?*2,.' 1 ' ,)*' *+ /.' /18 25' -1?' A*6/1 ; . ' 620

DHI

’ (?1,) ’620’ (,;.’ 2’ .)1-,’ ,)*’ ; .65*’ .’ =-*> .*^ / ’ 8)6,’ 8*’ .)1 ;/0’*L=*>,’ 8) /*’ ,)*’ >6212’ 86.’21,’ *,’ 1-?*0’D ;,’12/ ’. /*2,) ’ 1-? 25

N’ & ,)’ -*.=*>,’ ,1’ ,)*’ =1/ , ’ 1 ’ ,)*’ *6-/ ’) ;->)’ %, >6,*’3 : *’ =; ,’ ,)*’ > , ’ 1 ’ *2*+*2,1’ ;20*-’ ,)*’ 2^ ()*’ 1DA*>,’ 6 ?*0’ 6,’ 2’ ,)*’ *= ../*’ >6//*0’ 1-’ >*-,6 2’ ,*-0 >,’D*>6 ;.*’ ,’)60’ -* ; .*0’ ,1’ -*>* +*’ ,)*’ ?=*-1-’ 0* 2 ,*’ ..6,*?*2,.’ 12’ ,) .’ =1 2,’ 20’ ,)*.*’ 6-*’ 2’ : *2- ’ *620*-’ "!’ # ’ ’N QT’ 4 *.*/*-’ "!’ !’ >1?=/*,*’ 6>>1-062>*’ 8 ,)’ ,)*’ -*=-*.*2,6, 12.’ 1 ’,)*’ =*-’ ’0 +’ ’g KK’ : 1* /*-’ - + ’ % ’R’ &’" ’ 2.= -*0’D119.’ 2’ /*?*2,’6.’ 2’,)*’ >,.’620’ = .^ KNNCKQQ’ & *,[*-’ ;’ & *//*’) " = ’ ’ R ’ ,/*.’1 ’,)*’ *8’ (*.,6?*2,’..*+*-6/’ *6,;-*.’6-*’=6/=6^ // ’ 2, C 1=1’ I? " 1’ 6->)D .)1=’ 1 ’ 6+*226X’ D/*’ 1’0 .., 2>, 12’ .’ ?60*’ D*,8**2’D .)1=.’620’=-*.^ 86.’ >)1.*2’ =1=*’ 6,’,)*’ 210’ 1 ’ - L*2’ 2’ Q ’D ’ D ,*-.’ 1-’,)*’ /1>6/);->)’ 12/ ’,81’1-0*-.’6-*’-*>^ ,)*’ =6-, ’1’,)*’ ?AX*-1-’ : *2- ’ ’8),)’,)*’ + *8’1 ’ 152 .*0a’ =-*.D ,*-CD .)1=.’ 620’ 0*6>12.’ 20’ ,)*’ . ;==/62, 25’ 4-*51- ’ : ’ ,*-’ D* 25’ -*=*6,*0/ ’ 8*-*’ 6==1 2,*0’ 6,’ -.,’D ’ ,)*’ ?*/+*. ’ ,/ 1;5)’ 21,’,1’,)*’ *L>/;. 12’ =/6>*0’ 2’ ,)*’ 1?62’ .**’ D ’ + 1/*2>*’ 620’ *L=*//*0’ 1 ’,)*’ D-1,)*-)110’ ()*’ ’ 86.’ 21,’ 8 ,)’,)*’ -1?’ ’D ’,)*’ .6?*’ ?*62. ’)1’ . ;D? . ,,*0’,1’ 6.>)6/ ’ >125-*56, 12’D ;,’ 8 ,)’ ,.’ */0*-. ’ ,)*’ 8)1/7’);->)’ 2’ RR’620’0 *0’ 2’,)*’ 1//18 25’ *6-% ’ *620*-’ "!’ # ’ + ’ Q’ . %T’ 4 *.*/*-’ "!’ V .,’ =*-’ ’0 +’ ’ 1’ ,-,)’>)6,’-’ ’ ,’ ,)*’ -*=-*.*2,6, 12’ 2’,)*’ 1-, C’ >)6=,*-T’620’ ,’6>>1-0.’ 8 ,)’ 8)6,’ .’ -*/6,*0’1 ’ 6 ;/ 620’ 6-26D6.’ 8)1’ 2.,*60’1 ’ ?*-*/ ’ 1’ 6.’1 ;-’ +*-. 12’6==*6-.’ ,1’ ,*6>)’ I*)60’ %% ’ ,)*?’ */0*-.’ 2’ *+*- ’ >) ;->)J’ M >,.’ L + ’ KNX’ ()*’ *8’ (*.,6?*2,’-*=-*.*2,6, 12.’6-*’ ,) ; .’21,’12/ ’>1--1D1^ -6,*0’D ",’6/.1’*/;> 06,*0’ ’ 2’-*/6, 12’,1’01>,- 2*’ ()*’1-,)101L ’1 ’ /*?C *2,’6.’1 ’,)*’ *6-/ *-’ 6,)*-.’ 2’ 5*2*-6/ ’)6.’D**2’ -*^ =*6,*0/ ’ >6//*0’ 2’ _ ;*., 12’D ;,’ 8 ,)1 ;,’ 5110’ -*6.12’ 1>,- 26/ 0 .>;.. 12’ 2’,)*’ ., /*’1 ’,)*’ = ../*’,1’,)*’ : ; ?62. ’ .’ >*-,6 2/ ’21,’6,,*?=,*0’ ;’,)*’ /*60 25’ *6,;-*.’1 ’,)*’ =1.=*/ *>121? ’>1?*’ >/*6-/ ’1 ;,’ ()*’ 0 + 2 , ’1 ’)- .,’ .’,6;5),’ _ ;,*’6.’0 ., 2>,/ ’6.’ 2’,)*’ = ../*.’,1’,)*’ 1/1.. 62.’620’ : *D-*8.’ 20’ .1’/ 9*^ 8 .*’ 6-*’,)*’ 6,12*?*2,’620’A ;., >6, 12’D ’ 6 ,)/ ’ 5110’ 81-9.’6-*’ .,-125/ ’*?=)6. [*0’21,’12/ ’D ‘B6?*.’ 2’) .’*=../* I’ D ;,’D ’ 6 ;/) ?.*/ ’ 20’ 6.’,)*-*’ .’ 21’ >12,-60 >^ , 12’D*,8**2’ 6 ;/ 620’ B6?*.’,)*-*’ .’ 212*’ D*,8**2’ 6 ;/ 620’ /*?*2,’ ()*’ ’1 ’,)*’ .;DA*>,’ .’ 6D; 2062,’ ’,)*’ ,*L,’,)*-*’)6+*’ D**2’,)-*’ -*>*2. 12.’ ()*’ *= ../*’ 86.’ -.,’ =;D/ .)*0’D ’ B;2 ;.’6,’ L 1-0’2’ SNNT’ 656 2’ ?1-*’6>>;-6,*/ ’D ’ & 1,,12’6,’ 6?D- 05*’ 2’ QT’ 620’/6.,/ ’D ‘B6>1D.1 (7 6,’ L 1-0’2’ 1;-.;>^ >*.. +*’ *0 , 12.’ QNQ’ Q ’ Q ’620’ QSS’ B6>1D^ .12.’,*L,’ .’ 218’,)*’ .,6206-0’620’ .’ 6.’2*6-/ ’=*-^ *>,’6.’ >- , >6/ 6>;?*2’620’0 / 5*2>*’ >1;/0’ ?69*’ ,)* ’ *6-/ *-’ *0 , 12.’ * ?D-6> 25’ 6//’ ,)*’ 6=1.,1/ >6/ 6C’ ,)*-.’,)*’ D*.,’6-*’ ,)1.*’ 1 ’ 1,*/*-;.’ 6- .’ S K’6.’ ?=-1+*0’D ’ /*- >;.’M 2,8*-=’ SRQX’620’656 2’ ?^ =-1+*0’M ?.,*-06?’ K X’620’1 ’ ,, 5 ;.’8 ,)’6’+6/^ ;6D/*’ 0 ..*-,6, 12’M * =. >’ SRRX’ ’/6,*-’ *0 , 12.’ ,)*’ D*.,’6-*’ ,)1.*’ 1 ’ B6>1D.12’6/-*60 ’ 26?*0T’ 1 ’ : * */*’ M (;D 25*2’ QNR’ Q K’ Q ’ Q XT’ 620’ 1 ’ -*..*/ M * =. >’ Q S’ QSNX’ ’,-*6, .*.’,)*’ ?1.,’ +6/;6D/*’ 6-*’ ,)1.*’ 1 ’ *>)/*-’ ’ ’ % " ’ ’ ; " % ’" ’. 2 ’M : 66-/*?’ Q T’ ,;.,C’ 56-0,’ Q XT’ : /5*2 */0’ &% " ’ N ’M : 6//*’ Q NXT’ =. ;.’ ’ ’ ’M * =. >’ Q X’T’620’ 126/0^ .12’ ’2 ’ ’ " ’ ’ ’ 9 ’ ’ " ’ ’ ’" ’ &% ’ ’ " ’7 ’ 9 ’M+1/’ 12012’ QS X’ ’ 25/ .)’,-62./6, 12.’,)*’ *6-/ *.,’ 86.’D ’ ;-,12’M 12012’ S XT’,)*’ 2*L,’ 86.’ ,)6,’1 ’ ->)D .)1=’ & 69*’M 12012’ SRN’ -* .;*2,/ ’-*^ =;D/ .)*0T’ 60? -6D/ ’,)1;5)’ 26>>;-6,*/ ’012*X’T ,)*’ 2*L,’86.’6212 ?1;.’M D*-0**2’ SQXT’,)*2’)*+6/C’ / *-’M 12012’ QNN Q ’12’,)*’ D6. .’1 ’& 69*X’T 620’ /6.,/ ’ 1D*-,.’620’ 126/0.12’M 0 2D;-5) ’ QS ’+1/’ ’1 ’,)*’ 2,*C >*2*I D-6- JX’ () .’ /6.,’)6.’21,’ ,)*’ .>- =,;-6/’,12*’1 ’& 69*’D6,’ .’5-*6,/ ’ .;=*- 1-’,1’ ,’ 2’6>>;-6> ’1 ’-*20*- 25’ /*?*2,’ ’ ’ ! ’ 1=*’ I$ ’D .)1=’1 ’ 6?D*-5X’86.’=/6>*0’ 2’,)*’=6=6/.**’ *>’K S’6 ,*-’,)*’ 210’1 ’ ;,-’ D ’,)*’ ?=*-1-’ : *2- ’ ’ 2’,)*’ -11?’1 ’4-*51- ’ ’ 8)1’6D0 >6,*0’ : *’ >-182*0’,) .’ *?=*-1-’620’)*/0’ 2’B62’ ’6’. 210’6,’ 1?*’ 1-’,)*’ .;==-*.. 12 1 ’. ?12 ’ : 1’0 *0’6.’.1?*’,) 29’D ’ =1 .12’ >,’ R ’ : *’ 86.’,)*’ -.,’1 ’,)*’ 4*-?62’ =1=*.’620’ -*,6 2*0’,)*’0 1>*.*’ 1 ’ 6?D*-5’*+*2’0 ;-25’) .’ =12’ ,*-0 >,’D*>6 ;.*’ ,’)60’ -* ; .*0’ ,1’ -*>* +*’ ,)*’ ?=*-1-’ : *2- ’ ’ *620*-’ "!’ # ’ ’N QT’ 4 *.*/*-’ "!’ !’ =*-’ ’0 +’ ’g KK’ : 1* /*-’ - + ’ % ’R’ &’" ’ KNNCKQQ’ & *,[*-’ ;’ & *//*’) " = ’ ’ R ’ // ’ 2, C 1=1’ I? " 1’ 6->)D .)1=’ 1 ’ 6+*226X’ 86.’ >)1.*2’ =1=*’ 6,’,)*’ 210’ 1 ’ - L*2’ 2’ Q ’D ’ ,)*’ =6-, ’1’,)*’ ?AX*-1-’ : *2- ’ ’8),)’,)*’ + *8’1 ’ .;==/62, 25’ 4-*51- ’ : ’ ,*-’ D* 25’ -*=*6,*0/ ’ =/6>*0’ 2’,)*’ 1?62’ .**’ D ’ + 1/*2>*’ 620’ *L=*//*0’ -1?’ ’D ’,)*’ .6?*’ ?*62. ’)1’ . ;D? . ,,*0’,1’ 6.>)6/ ’ 2’ RR’620’0 *0’ 2’,)*’ 1//18 25’ *6-% ’ *620*-’ "!’ # ’ + ’ Q’ . %T’ 4 *.*/*-’ "!’ V .,’ =*-’ ’0 +’ ’ >)6=’ 7’ Q’ 3 ’ 1=*’ I 1’ >6-0 26/ D .)1=’ 1 ’ 1?*X’ 86.’ 626, +*’ 1 ’ 1?*’ : *’ 86.’ >)1.*2’ =1=*’ 6,’ .6’ 12’,)*’ R,)’ 1 ’ *>’ Q ’ 2’,)*’ =/6>*’ 1 ’ 4-*51- ’ ’ 8)1’)60’0 *0’ 2’,)*’ .6?*’ >, ’,81’06 .’D* 1-*’ ()*’ >) * ’ >12>*-2’1 ’,)*’ 2*8’=1=*’ 86.’,)*’ .=**0 ’1-562 [6, 12’ 1 ’6’,) -0’>-;.60*’ 6.’,)*’ 2*8.’1 ’,)*’ >12_;*.,’1 ’B*-;^ .6/*?’ D ’ 6/60 2’M >,’ NO’ Q X’)60’A ;..,’D**2’ -*^ >* +*0’ : *’ 8-1,*’ 6,’12>*’,1’ 6//’,)*’)- .., 62’=- 2>*.’ 620’.;>>**0*0’ 2’ >6// 25’ 1-,)’ 62’ ;2=-*>*0*2,*0’ *2^ ,);.6.?’ ()*’ 65*0’ *?=*-1-’ -*0*- >9’ 6-D6-1..6’ MS ’ *6-.’1/0X’ 8)1’)60’)60’6’+ 1/*2,’>12 / >,’ 8 ,)’,)*’ =-*0*>*..1-’ 1 ’ /*?*2,’12’6>>1;2,’1 ’,)*’ =1..*.. 12.’ 1 ’,)*’ 1;2,*..’ < 6, /06’?60*’ =*6>*’ 8 ,)’,)*’ =1=*’ 620’,119’,)*’ >-1..’ *6>*’ 86.’6/.1’-*.,1-*0’D*,8**2’,)*’ *2 >*’ 620I’,)*’ 9 25’ 1 ’ : ;256- ’ 620’D*,8**2’,)*’ 9 25’1 ’ -62>*’620’,)*’ 9 25’1 ’ 25/620 ’620’6//’,)*.*’ ..6,*.’ A1 2*0’D ’ *1=1/0’1 ’ ;.,- 6’620’1,)*-.’ 8*-*’ 20;>*0’,1’,69*’ =6-,’ 2’,)*’ >-;.60*’ ()*’ =1=*’)60’ ,)*’ 5- * ’1 ’/*6-2 25’,)*’0*6,)’1 ’ -*0*- >9’ 2’,)*’ +^ *-’ 6/ >6 /2;.’620’,)*’0 ..*2. 12.’D*,8**2’,)*’=-= 2>*.’ D*. *5 25’ >>1’D ;,’)*’0 0’21,’/ +*’,1’ .**’ -+’ ;2 1-^ ,;26,*’ *20’1 ’,)*’ >-;.60*’ /*?*2,’656 2’.*>;-*0’1-’,)*’ =1=*.’.,)*’ .*>;/6-’-;/*’ 1+*7’,)*’ > , ’1 ’ 1?*’ 8)>)’0 ;-25’ 1-, C2 2*’ *6-.’)60’D**2’/* ’D ’,)*’ =1=*.’ (-*0’1 ’,)* -’>+ /86-.’ ,)*’ 1?62.’ >12>*0*0’,1’ /*?*2,’,)*’ - 5),’1 ’.1+*-^ * 52’ ’>12 / >,’ 8 ,)’,)*’ 9 25’1 ’ >1,/620’8)1’)60’ 6==1 2,*0’1 ’) .’182’6>>1-0’6’D .)1=’ 1-’ ,’ 20-*8 .’ ,*-? 26,*0’ 6+1-6D/E ’,1’,)*’ =1=*’ ()*’9 25’ */0*0’ 8)*2’,)*’ =1=*’ ,)-*6,*2*0’ 8 ,)’,)*’ 2,*-0 >,’ 2’ -*^ 86-0’ 1-’,) .’ >12>*.. 12’,)*’ =1=*’ MD ’6’D ;// 1 ’ <6->)’ N QRX’ *L*?=,*0’6//’ >1,/620’ -1?’,)*’ A ;- .0 >, 1,’ 1’,)*’ 6->)D .)1=’ 1 ’ 1-9’?60*’ ,’ 62’ ? ?*0 6,*’ 0*^ =*20*2> ’ 1 ’,)*’ =6=6/ .**’ 620’=-1+ 0*0’,)6,’)*2>*^ 1-,)’21’ 12*’ .)1;/0’D*’ 6’=6=6/ /*56,*’ 2’ >1,/620’8)1’ 86.’21,’* ,)*-’6’ >1,>) ?62’1-’62’1 >*-’1 ’,)*’);->)’ 2’ 1?*’ 2’,)*’0*6,)’1 ’ 25’ & // 6?’ ’1 ’ > / ’M 1+’ QRX’ 6’0625*-1;.’ >12 / >,’6-1.*’D*,8**2’,)*’ .12’1 ’ -*0*- >9’ 6-D6-1..6’ : *2- ’M.;D.*;*2,GE I’*?^ =*-1-’ : *2- ’ X’ 8)1.*’ 8 *’ 86.’,)*’ 2*6-*.,’-*/6, 12’ ,1’,)*’ /6,*’ 9 25’620’,)*’ =1=*’ 8)1’ >/6 ?*0’ *;06/ - 5),.’1+*-’ > / ’620’)6.,*2*0’,1’ 2+*.’,8 ,)’,.’51+^ *-2?*2,’ (62>-*0’62’ //*5 , ?6,*’ .12’1 ’0;9*’ 15*-’ 1’ > / ’ : *? ’6 ,*-’ ,)*’0*6,)’1 ’) .’ 6,)*-’86.’ ?6->) 25’ ;=12’ 1?*’8I)*2 /*?*2,’0 *0’12’ <6->)’ K R ’ ()*’=*-.126// *’1 ’,) .’=1=*’ .’.6 0’,1’)6+*’ D**2’D/6?*/*..’ *+*2’/*,,*-.’620’?62 ’0*>-**.’ .^ .;*0’D ’ /*?*2,’6-*’5 +*2’D ’ <62.’MLL ’ NC X’ ’ :*-[15’ =6 + %!’ ’ N T’ & *,[*-’ ;’ & */,*’ !) " = ’ ’ R T’ *620*-’ "!’ # ’ -’ T’ 4 *.*/*-’ "!’ # !’ =*-’ ’0 +’ ’>)6=’ ’g N’ ’ 1=*’ I? ’@ *’6>>1-0 25’,1’ 1,)*-.’ 1 ’ @ 4 ’ ’481.X’86.’6’26, +*’1 ’ -62>*’ -.,’6’.1D’ 0*-’,)*2’6’/68 *-’?6-- *0’620’12’) .’ 8 *.’0*6,)’ *2,*-*0’,)*’);->)’620’D*>6?*’ 2’ .;>>*.. 12’D .)1=’ 1’ ; ’6->)D .)1=’1 ’ 6-D122*’620’M KS X’>6-0 26/ D .)1=’1 ’ 6D 26’ : *’ 86.’>)1.*2’=1=*’ 6,’,)*’D*5 2^ 2 25’1 ’ KS ’8) /*’)*’ 86.’6D.*2,’ -1?’ ,6/ ’6.’=6=6/ /*56,*’620’.1/*?2/ ’>-182*0I’12’,)*’ KK0’1 ’ *D-;6-

6,' ,*-D1'C8)*-*')*' ,119' ;=') .'-*. 0*2>*' 12'6>>1;2,' =1..*.. 12.' 1 ',)*' 1-0*-' D ') / = '620',1',)*' D;-2 25' 1 ',)*' 0 .,;-D62>*.' =-*+6 / 25' 2' /71?*' ;- 25',)*' -..',=1=*' 8)1' L*0') .'-*. 0*2>*' 6,' 8)1/*', ?*' 1 ') .'=12, >6,*' D*' 86.' 1>>;= *0' 8 ,)',)*' /*?*2,' 86.',)*' + 5212',);.' D*5 22 25' 8)6,')6.' D**2' ., /*0',)*' >12,*.,' >12>*-2 25',)*' 51+*-2?7,' 1 ' > / ' : .,' 6D /12 62' 6=, + , ' 1 ',)*' =1=*.' : *' =;D/ .)*0'6' =-*0*>*..1-' $-D62' ')6.' 2+ ,*0')6-/*.' 1 ' 2A1;' /6-5*' 2;?D*-' 1 '>12., ,;, 12.' D6.*0' ;=12',)*' 0*>-**.' ,1',69*' =1..*.. 12' 1 ' > / ' 8) >)' 86.',)*2' -;/*0' D ' 1 ',)*' 1;2>/1 ' -*0*>9' ' 1 < 62 -*0'62' //*5 , ?6,*' .12'1 ' ?=*-1-' -*0*8 >)' 226'8)>)' ., // 1-?' ;20*-',)*' 26?*' 1 ' ' /*?*2, 2*. IM_'+'X',)*' .*+*2,)'D119'1',)*' &)*2')2-/*.' 6==*6-*0' 2' 1?*' M<6 'K KS X' +*' *>-*,6/.' %' : *'0 *0'12' 1+'KR N ' ()*' >12,*?=1^ >6-0 26/.' 2',)*' 26?*' 1 ',)*' =1=*' >12>/;0*0'D*,8**2' -62*1;.' 8-,*-.'6>>;.*') ?' 1 '/ >*2, 1;.2*.. '2*=1, .') ?' 620',)*' =6=6/.*** 6',-*6, ' 8) >)' 56+*',1')6-/*.' . ?12 ' 620'6+6-*' ** & *,[*-' ;'& *,[*-' ;'& *,') " =' ,)*' 8)1*2.,6;' *2.' 20;>*0',)*' =1=*',1' *L>1?;?;2^ ! ' SR ' _'T : *-[15' 5 =6 + %!' ' NKT *C' >9' ' ()*' 6--1562>*' 1 ')6-/*.') .' 862,'1'?12* ' 620*-' +!'# ' +' ' N T' 4 *.*/*-' +!'# ! =*-' ' =1.*0',)*' =1=*' 6+1-6D/ ',186-0' <62 -*0'D;',)*' /6,^ 620' 0 +' >)' ' g' R' 620' 0 +' +' >)' ' g' R T' 62012' ,*-' 0 *0' D* 1-*6',)*' -*>12>/6,12')60',69*2' =/6>*' 1' 1' *22* ()*>-;*/,'1')6-/*.' 656 2.',)*' 6? / '620I7,)*' 60^ ' 1=*' I1 '5 (81' 86.' 6'26, +*' 1' ?1;.2')*2,*-2,.' 1' <62 -*0'620' ;-620' 2',)*' -' -" '7 '& =' ;**2'8)1'=*-.126// '6==*6-*0'D* 1-*')?')60'D**2' 2' -62>*' ,*-')6+ 25'D**2'6' *2*0>,2*?129' 2')6.*C *;'=-1*..1-'6,' 6- .'D.)1='1' --6.'6->)^ D.)1='1' *2.'620' 1;*2'620'M NNQX>6-0 26/')*' 86.' */*>,*0'=1=*' 12',)*' ,)'1'<6A' N K' : *')60'6'=-1^ ,-6>,*0'_;6--*/8 ,)' 086-0' '9 25'1' 25/620'12' ,)*.;DA*>,'1'*>>/*. 6.,>6/'D*2* >*.'1+*-'8)>)' /*?^ *2,'>/6 ?*0'62'6hX.1/;,*-5),' : *' ..;*0'6' -5), ;/ D;//1'*L>1?;2>6,12'656 2.,' 1; .' '1'4*-?62' M.**' 67 26/0' ' ' N SX' 8)*2',)*' /6,,*-' 620' ,)*' 4*-?62' *,'-* ;.*0',1'=-1? .*',)6,',)*' 9 25' .)1;/0'01' 21,) 25' 8,)1;,',)*' >12.*2,'1',)*' P1=-' 620' 20;>*0' +*' 1',)*' 4*-?62' */*>,1-.',1' */*>,' 4)6-/*.',)*' .12'1',)*' 9 25'1' 1)*?6'6.'4*-?62' 12*' ?12,)'6,*-',)*' /6.,' .>12'1',)*' :1)*2..6; *2.'h*?=*-1-' '6'>12,-6>,'1'B;2*'R N Q')*'=;->)6.*0' 12-60 2' 86.' D*)*60*0'0 25'6,' *-D1' 1+' KR' -1?'B16226',_;**2'1' 6=/*.',)*' >,' 1' +5212' KSQ' : *' 86.'62'6D/*'-;/*-'620'-*.1/,,*GE7')1.,/*',1' 6>_;,,*0'1',)*' >)6-5*'1')6+ 25'?;-0*-*0')*-');.^ 620'.1?*' 60A1 2 25',*-- ,1-' 1-' Q' 51/0' 1-2. D6Q20' 2';-5*2,' 2+,6, 12'-1?',)*' 1?62.'M6?125' 2*=1,.?' <62'1')*' 8)>)' 86.' 6'/ *' 1' ,' :*08 5'0;>)*..' 1' 1/620' 8)1*6?D6..601-.' 86.' *,-6->)' ,1'-*,;-2',1' 1?*' 8)1'86.'>6212 [*0'D')?' 2' KS' 2'81-9.'O/.>' 86.'.*2,',1',)*' =1=*'D;,')*' >12,2;*0'6,' +5212' / '6,,-D;,*0',1' /*?*2,'.**' 6+*' # !' !' ' 9 ' 6' D;// 1' =-/' ' Q R')*' -*0;>*0',)*' 2,*-+6/' KS' '.=*> 6/'81-9'12',)*'/ *'620'8-,25.'1' D*,8**2',)*' *6-.'1'A;D/**' \.**'($;' -1?' /*?*2,'86.'=;D/.)*0'2' SKN 6,' 12.'D',)*'B*.;^ ,1' *6-.'620'>*/*D-6,*0',)*'A;D/**' 2' N '8,)' ,' /6;0 ;.' /*?*2.' **' :*-[15'5 =6 " %!' *L,-61-0 26-'=1?=' I 2',)*'D;//1' /*?*2,';B*62^ NKT & *,[*-';%& */,*' ' R T *62C 5*/.'6-*'>1?620*0',1'2,-10>;*' 2,1'6-60.*'8,)C 0*-' " "' # ' +'KQR' K T 4 >.*/*-' " "' # !' 1;'0*/6'62E'12*'8)1'.)1;/0'0*'0;-25'),' .',6' =*-' '0 +' '>)6=' 'g' % 6,' 1?*' :.'* 1-,.',1'D-25'6D1;,'6';2 12'1',)*'7 4-**9');->)'8,)',)*' 1?62'8*-*' -;,/*.. '6/,)1;5) 6D1;,'KS' :*' 86.'6==1 2,*0'D.)1='1' 1?? 25*.',)*'*?=*-1-'B1)622*.' 62,6>;[*2;.'0*>/6-*0' 2' 6+1-' D' 12 6>*' ' 2' KR T 620' 86.' 12*' 1',)*' *8' 1',)*' ;2 12' <1-*' .;>**.. ;/ 8*-*' . ? /6-' * 1-,.' -*2>)'D.)1=.'8)1'1D* *0',)*'.;?12.'1',)*'=1=*' 8',)'-*56-0',1',)*' -?*2 62.'8)1'6,'6'>1;2>/)*/0' ,1'+.' 1?*'21,8 ,).,620 25',)*'=-1) D,12'1')/*' 2' N K' >120*?2*0',)1.*')*-*.*.'8,)'8)>)')*' 6D1;,'KS' :*' 86.'6==1 2,*0'D.)1='1' 1?? 25*.',)*'*?=*-1-'B1)622*.' 62,6>;[*2;.'0*>/6-*0' 2' 6+1-' D' 12 6>*' ' 2' KR T 620' 86.' 12*' 1',)*' *8' 1',)*' ;2 12' <1-*' .;>**.. ;/ 8*-*' . ? /6-' * 1-,.' -*2>)'D.)1=.'8)1'1D* *0',)*'.;?12.'1',)*'=1=*' 8',)'-*56-0',1',)*' -?*2 62.'8)1'6,'6'>1;2>/)*/0' ,1'+.' 1?*'21,8 ,).,620 25',)*'=-1) D,12'1')/*' 2' N K' >120*?2*0',)1.*')*-*.*.'8,)'8)>)')*' =',)*' 6-' 2' KRR')*' 86.'6==1 2,*0'D.)1='1' 1?? 25*.',)*'*?=*-1-'B1)622*.' 62,6>;[*2;.'0*>/6-*0' 2' 6+1-' 1-0*6;L' ;-25',)*'>12>/6+*' 1//18 25',)*'0*6,)'>-;.60*' 656 2.',)*'(;-9.' 2' 8)>)',)*' 9 25'1' 1' 12 6>*' ' 2' N ')*' 86.'56 2*0'1+*-'D*')/=' =-;.',)*' 5-620'?6.,*-'1')10*.'620',)*'-*=;D/>.' ,)*' 6-' 620' 8)*2'6'>1?=-1?.*')60'D**2'601=,*0' *2>*'1'620'4*216',119'=6-,'8)>)')18*+*-'/*0',1' D*,8**2',)*'=6-,'1' 12 6>*' 620',)*' -*2>)'=6-,' ' /*0'12' 1+'KR N ' ()*'>12,*?=1^ 2'+-;*'1'8)>)',)*' -*2>)'>6-0 26/.')60',1'>)11.*' -62*1;.'8-,*-.'6>>;.*')?'1'/>*2,1;.2*..'2*=1,.?' ,)*=1=*'6?125',)-**'>620 06,*.'=-1=1.*0'D',)*'=6-,' /65*//62,.' **' ! <1.,1',)*' 2*8' 1' 12 6>*')*' 86.' */*>,*0'D* 25',,//-*56-0*0'6.'6' >6-0 26/.'>-*6,*0'D',)' .' =1=*' & *-*' -*2>)?*2'620' - *20'1' 12 6>*' ,'6',.*>-*,'2,*-+*8'8)>)')*' 6?125',)-**'>620 06,*.'=-1=1.*0'D',)*'=6-,' 6?125',)*?'8*-*'6' 12. 0*-6D/*' 2;?D*-'1')' .'18?')60',60'8,)') / =' D* 1-*',)*'*/*>,12',)*')60'=-1?^ 1 ' 2 ' 6 ' 1' *-' ;*/6, +*.' 8)1' .>6206/[*0',)*') ;->)' D',)*-'/>*2^ .*0',1'-*>12>/*',)*'9 25'8,)'),)*'0*2'Q K' *,-6->)'=-6.*.' ,1;.'/+*.)' /*?*2,'0*0'2'Q K' *,-6->)'=-6.*.') ?'0;-25'+*' *6-.',)*' ,)*' 1-'?/,6-'862,.T,1' 1 ' 12 6>*' 620',)*' -*2>)'>6-0 26/.' >-*6,*0'D',)*'=6-,' 56+*'12',)*'1,)*-')620'5-*6,'1 *2>*'D')' .'*L,-6+6^ 2' +-;*'1'8)>)',)*' ?*?1-'1' 12 6>*' 620',1' >-*6,*' 6' 562>*'620'D')' .'=-+6,*/' *' ') .' 8-.25.',)*-*' 2;?D*-'1'2*8' -*2>)'>6-0 26/.' // ',)*.*' >120^ 6-*',.//*L,62,'.*+*-6/.*-?12.'6',-*6, .*'12',)*'=1+^ , 12.'8*-*'=-1?=,/ ' ;/ //*0'*L>*=,',)*'12*' -*/6, 25' *-, ' 1 ')- .,'620',)*'6=1../*.' 6' +1/;?*' 1'/*,*-.' ,1' 12 6>*' 8)>)',)*'=1=*',- *0',1'*.>6=*' :*' 2.,^ *,>' **' & *,[*-';& */,*') " = ! ' RSCS T' , ;,*0'6'>1?? ,,**',1' 2+*.,56,*',)*')6-5*.'D-1;5),' :*-[15'5 26 + %!' ' NN T :1*'*-';' ! ? =' 656 2.,' 12 6>*' D;',;/,?6,*/'M N X 0*>/6-*0')?' 1' L' S T *620*-' " "' # ' L' ' N' KT' -**' -1?',)*',.,6 2'1')*-*. ' 2',)*'1,)*-'D620')*' 4 *./*-' "!'# ' =*-' 0 +' +')' g' R */0*0',1',)*'0*?620'1') / =' 1-',)*'6D1/,12'1',)*' f ' 2, C=1=*'6,' + 5212' I5 ' ' ? E' 1-0*-'1',)*'(*?=/6-.' :*'.;?12*0',)*'5-620'?6.^ 8,)'80)0?',)*'5-*6,'=6=6/.>).?'>1?2*2>*0',119' ,*-' 1' ',)*' 1-0*-' ;20*-' 6/.*' =-*,L,.' ,1') .' >1;-,T ,),:,,/*'12',).'*/*>,12'2' N Q' 6' D;// 656 2.,',)*'1-0*-'2' 8)>)')*' ..;*0' 2' N Q' 6' D;//656 2.,',)*'1-0*-'2' 8)>)')*' D-1;5),'656 2.,' ,' ,)*' ?1.,' ;2 1;20*0'620'6D.;-0' >)6-5*.1' 620' 26// '6,',)*' 4*2*-6/' 1;2>/1' ^ *22*' M 2' N KX' =-121;2>*0' ,.' 6D1/,12' ()*' =1=*' 3-6 .*0'21'1DA*>,12',1',)*'A ==-1=-6,12'1'?1.,'1',)*' # ! ' ' S ' S ' KNKT' 4 *.*/*-' E!'# '=*-'

DIQ

0 +¼' + ' >,¼' ' g' T' : 6.* ' =¼' K ¼' **' 'g ' 12',)*' 1,)*-')620 ',)*' =1=*' 6D.,6 2*0' -1?' 1=*2/ ' 1=C'
[' ¾¾ =1. 25' : *2- .' *0 >,'1 ',1/*-6, 12¼' ;- 25') .'=12, C'
' 1=*' I? 2 ,' //*5 , ?6,*' .12' 1 ' 4 ;/ 621' 6, *',)*' 9 25' 1 ' 1/620' =-*+6 /*0' ;=12',)*' ?*,-1=1/ C'
<*0 > .X ' D*>6?*' =1=*' 2' KN' 12*' 1 ',)*' 8*69' 620' 61,62 1 ' *+' 620' .*++2' 1 ',)*' ;,)*2 62' D .)1=.',1' ;2 ,*'
86+*- 25' ?*2' 8)1.*' .*/ .)' =1/ > ' 2' >- , >6/ , ?*.' 78 ,)',)*') ;->)' 1 ' 1?*' 620' 6?D6..601-.' 6-- +*0'
?69*.' ,)* -' =-1? 2*2>*' 2').,1- ' 6' =-1? 2*2>*' 1 ' 6,' 1?*' -1?',)*' 1=, >' =6,- 6->)' 1 ' /*L620- 6' ,1'
0 .5-6>*¼' : *' *2,*-*0',)*' <6/,*.*' =,0*-' 620' D*>6?*' 2*51, 6,*' 6' ;2 12' 1 ',)*' 1=,.' 8 ,)' ,)*') ;->)' 1 '
5-620'=- 1-' 1 ' 6=-6¼' &)*2') .' >1; . 2' *1' d' 6.>*20^ ' 1?*¼' : *' ..;*0' 2*8' *0 , 12.' 1 ',)*' ;/56,*',)*' 1C'
0',)' =6=6/',)-12*')*' 86.' 6,' 12>*' 6==1 2,*0' 6->)D .)^ ' ?62' -*+ 6- ' < ..6/' 620' 1 ',)*' 20*L¼' 2' 1-0*-',1'
1=' 620' >6-0 26/¼' ;D.*_;*2,/ ')*' 6>,*0' 6.' >6-0 26/ ' .*,,/*',)*' 015?6, >6/' >12,-1+*-. 'D*, 8**2' B*. ; ,.' 620'
/*56,*' 1 ' (; .>62 ¼' : *' 86.' */*>,*0' =1=*' 12' ,)*' R,)' 1? 2 >62.' 12' 0 + 2*' 5-6>*')*' 2. , ; ,*0' 2' R ' ,)*'
1 ' 1+¼' KN¼' 2' < 6 ' K K ')*' . . ; *0' 6' D ; // 1-' (! ' 0 .=; , *' 8 ,)'
,)*' -* 1-?6, 12' 1 '6D; .*.' =-*+6 / 25' 2' ,6/ ¼' 2',)*' ,)*' -* =; D/ >' 1 ' *2 >*' 86.' 6? >6D/ ' .*,,/*0¼' : *'
.6?*' *6-')*' .*2,'6'/*56,*' 6?=*7 1 ',1',)*' *,' 1 ' 0 *0' 12' <6-*)' S ¼' 6-12 ; .' 620' *//6-? 2' 8*-*'
; -*?D*-5' 2' 1-0*-',1' D- 25' 6D1 ; ,' 6' . ; ==-*.. 12' 1 ' 6?125',)*' >6-0 26/.' 6==1 2,*0' D ') ?¼' 2*') ;20-*0'
,)*' * 1-?6, 12' 2' 4*-?62 ¼' ()*' =1=*' 620') .' /*5^ 620',8*2, C,)-**' >12. , ; , 12.' 6¾200*>-**.' 1 ',) .'=1=*'
6,*' 5-*6,/ ' 1A (*20*0 ,)*' 4*-?62' =- 2>*.' DE7,)* -7'6-^ 6-*' >12,6 2*0' 2' ; '5 !' 1' !' ' C ¾
-1562>*' D ; ,' . ; >>**0*0' 2*+*-,)*/*. . ' 2' * *>, 25' 62' : ./ *' 8-6.' 8 - ,,*2' D ' >6-*//6¾' 629*' # !' ¾!
6// 62>*' 656 2.',)*' -1,*. ,62, .' D*, 8**2' ; .,- 6 ' 6^ Ð D¾+ T' : 6.* S W ¾=¾ S' SS' . ¾T' & *, [*-' ; ¾& */,>'
+6- 6 ' 620' ,8*/+*' =- 2>*.' 1 ' 1 ; ,)' 4*-?62 ¼' 1,^) " = ! ' S NC& T' : *-[15' 5 =6 + %!' '
8 ,).,620 25',)*' [*6/ 1 ',)*' *?=*-1-' 1-',)*' 0* *2>* NS¾
1 ',)*') ;->)' 1c' 1?*',)*' =1=*' 86.' =-*+6 /*0' ;=12' d ' 1=*' >? ' 5 % 8' 86.' D1-2' 2' S ' 6,'
D ',)*' 9 25I1' -62>*',1'A1 2',)*' 6// 62>*' 1 ' -62>*' .,1A6¼' : *' 86.' 2' .;>>*.. 12' 6 ; 0 ,1-' 1 ',)*' 1,6'
25/620' *2*, 6' 620' 1,)*-' ,6/ 62' ..,6,*.' 656 2.', .*>-*,6- ' 1' L,; .' ' 620' >6-0 26/ ' 620' 86.' */*>,*0'
)6-/*.¼' ,*-',)*' . *5*' 620' >6=,;-*' 1 ' 1?*' D ',)*' =1=*' 2' SS ¼' : *' ?*0 6,*0' 6' =*6>*' D*,8***2' 1; .'
?=*- 6/ 6-? ',)*' =1=*' 86.' >1?=*//*0',1' >6= ,;/6,*' d ' 620' =6 2' 6,' LC/6C)6=*//*' 2' SSQ¼' : *' 86.'
MB62¼' ' K XT' D ; ,' D* 25' ; 26D/*',1' ; / ',)*' >120^ ; =- 5),' 2') .' 2,*2, 12. ' D ; ,' *6. ' 2' 0 .=1. , 12¼' : 1'
, 12.' 1 ',)*' >6= ,;/6, 12')*' *.>6=*0' 0 .5 ; .*0' 6.' 6/ /* ,') .' 26?*',1',)*' ' 6' D- *' =6 ; .*' 2'
?*->)62,' 12' *>¾R K ' 620' /*0',1' -+ *,1¼' 112' 7,)*' .,-; 55/*' D*, 8***2',)*' B62.*2 .,.' 620' B*. ; ,.¼' : 1'
6 ,*-')*' >12>/ ; 0*0' 6' =*6>*' 8 ,)')6-/*.' M KRX' 620' .' .6 0',1')6+*' 0 *0' 1 '5- * '6,',)*',69 25' 1 ' 620' 6' D '
>-182*0') ?' *?=*-1-' 6,' 1/1526' M N XT' 8) /7 ' 12' ; ,)*' (; -9. ' SSR¾ ' 629*' # !' %!' D¶+ T' : 6.* I> V¾
,)*' 1,)*-') 620')6-/*.'-*..1-*0',)*' =6=6/ =1..*.. 12. ' ¶ # ' =' K' Q' & *, [*-' ; ¾& */,*') " + '
620' ?60*' /*..620-1' 1 ' <*0 > .' M6' -*=; ,*0' .12' 1 ',)*' 'S ¾
=1=*X' .1+*-* 52' 1 ' /1-*2>*¾ ()*' 0*?620' 1 ')6-/*.' d ' 1=*' I6 '&' 8' 86.' D1?' 6,' 1?*' >2',)*' 620',)*' 2 ' 4*-?62'=- 2>*.' 1-',)*' >12+1>6, 12' 1 '62' 1*>;^ A N,)' 1 'B ; / ' R ' 620')*/0',)*' =6=6/' >)6 -' -1?' SSR' ?*2 >6/' >1 ; 2> / ' 8) >)' 86.' ,1' -* 1-?' 6D; .*.' 2' ,)*' ,1' S S¾ 5), ' *6-.' 1/0' 6,¾) .' 6>>*.. 12')*' 86.'
) ; ->)' 620' -*.,1-*' .' ; 2 , ' D*' 0 0' 21,' ; / ' ?69 25' >1?=/*,*/ ' 51+*-2*0' D ') .' -*/6, 12.' 12*' 1 ¾8)1?')
.' >12.*2,' >12, 25*2,' ; =12' >120 , 12.' 8) >)')*' 92*8' 6-0 26/ 6/ ; [[' 86.' >6//*0' D ',)*' 1?62.' 1=*' '
,1' D*' ; 26>>*=,6D/*',1')6-/*.¼' 2',)*' .; , ' 1 ' : *2- ' ! ' : *' 86.' 6/86 .' *65*-',1' ?*0 6,*' =*6>*' D*^
' 1 ' 25/620' 1-' 0 +1->*' -1?') .' 8 *' 6,)6- 2*' ,8**2',)*' 1?62' 6,)1/ >' .,6,*. ' 620' .; ==1-,*0',)*'
1 ' -6512' ,)*' =1=*' 6 ,*-' /125')*. ,6, 12' 0*> 0*0' 1/*. 8 ,)' ?12*' 656 2.',)*' (; -9.¾' 2') .' -* 7'
656 2.',)*' 7 25' 620',)*-*D '=-*> = ,6,*0',)*' .*=6-6^ >1?? *2>*0',)*' 0 .=; ,*8 ,)' 1; .' d '1' -62>*' >12^
, 12' 1 ',)*' 25/ >62') ;->)' -1?',)*') ;->)' 1 ' 1?*¾ >*-2 25',)*' - 5),.' >/6 ?*0' D ',)*' -*2>)' 9 25. ' 0 ; -^
: *' .62>, 12*0',)*' 2*8' ?126., >' 1-0*-.' 1 ',)*' 6=; ^ 25',)*' +6LA62>*.' 1 ' *= .>1=6/ .**.' ,1' 0 .=1.*' 1 ',)*'
>) 2. ' ()*6, 2*. ' 1?6.9 62. ' 620' *>1//*>,. ' *2/6-5*0' *>>/*. 6., >6/' D*2* >*. ' 620' ,1' -*>* +*',)*' -*+*2 ; ¾ ' '
,)*' / D-6- ' 1 ',)*' 6, >62 ' 620' 86.' 2' 5*2*-6/' 6' =6^ 629*' # !' %!' D¶+ T' : 6.*' "!' # =' ¾ KT'
,-12' 1 '/ ,*-6, ; -*¼' : *' 0 *0' *=,¼K N ¼' ()*' ; 2' & *, [*-' ; ¾& */,*') " = + ' 'S Q¾
' 5 ' M*0¼' ; 50¼' SRK' ' SNSCSR X' >12,6 2.'
'>12., , ; , 12.' 620' 0*>-**.' 1 ',) .' =1=*¼' ()*/ *' 1 ' d ' 1=*' I? ' @ ' ' '& 8'
/*?*2,')6.' D**2' 8-, ,*2' D ' 2; - 1' 62+ 2' 620' B6^ 86.' D1?' 6,' *.6-1' B ; / ' KK S R¾ : *' 86.' .*>-*,6- ' 1 '
>1D' U *5/*-' M 2' >)*/)1?' & ! " ! ' f ,1?¼' X¾ ,)*' .*>-*,' D- * .' ; 20*-' 221>*2,' d ' /*L620*-' '
**' & *, [*-' ; ¾& */,*') " = ! ' S CS KT' : *-^ 620' 221>*2,' d '620' 6.' .; >)' 8-1,*' 6?125' 1,)*-.'
[15' 5 =6 f ' N C NST' : 1* *-' ; ! ' ? 1' ,)*' >*/*D-6,*0' D ; // 1 ' /*L620*-' ' M SR X' 656 2.',
d' SST' 629*' # ' % 1' D9¼' ' >)¼' T' : 6.*' "!') ,)*' 4 6// >62' / D*-, *.' 601=,*0' D ' 6' 26, 126/' >12+*2^
'=¾N S' NR ' K ¾ , 12' 1 ',)*' -*2>)') ./ 1=.' 2' SQK¾ : *' D*>6?*' >6-^
0 26/' 0*6>12' 2' R ' 620' >6-0 26/' =- *.,' 2' ¾
// ' 2, C=1=*' I1 6 ' /8',119',) .', /*' 2' : *' 86.' -6 .*0',1',)*' =1=1*01?' 2' ' 12' 6>>1;2,'
K '12' D* 25'*/*>,*0' D ',)-*-*' >6-0 26/.' 6,' *2 .>1/6' 1 ' .' d '1' -62>*' D ; ,' 86.' 1>?=*//*0' D ',)*' ?=*- 6/
6 ,*-' ,)g' 0*6,)' 1 ' *2*0 >,' d ¾ : *' -*. 52*0',1' 1?*' 620' 6' D ; ,' 86.' 1,1// ' 0 ..-*56-0*0'
<6-, 2' 2' KR' 620',) ; .',*-? 26,*0',)*' 5-*6,' & *.,^ .; >>*..¾ : *' 1==1.*0',)*' */*+6, 12' 1' -; .. 6',1' 6' 6,)*' =*6>*' 1 ' $,-*>),' M NX¾ ' ,) .' =*6>*' > / '
-2' .>) .?¾' < 52' ' ! ' ; f .¾+¾' < ; 521[' 4 *.*C' 9 2501?' 620',) ; .' ?60*') ? .*/ ' - 0 >; /1 ; .' 2' 4*-^ =*6>*' 1 ' *-+ 2.' D*, 8**2' -62>*' 620' =6 2¾ 2',)*' 1 ' 1?*' ,1' -*>152 .*')6-/*.' ',)*' =6 2¾ : *'
/*-' "!' # f' =*-¾ ' 0 +¾+' >)¾' g' N ¾ ?62 ¾ 2',)*' 86-' 1 ',)*' =62 .)' .;>>*.. 12')*' +>/C'
' 1=*' ID%% ' & " 8' 86.' D1-2' 2' 7; 2,6- / ' 6>9218/*05*0') / =' ',)*' 5-620.12' 1' 1; C'
NS' 6,' 621' D*>6?*' -.,' 6' /68 *-' .; D.*_;*2,/ ' ' .' d '1' -62>*' D ; ,' 86.' >1?=*//*0' D ',)*' ?=*- 6/
>12. ,1- 6/ 60+1>6,*' 6 ; 0 ,1-' 1 ',)*' 1,6' M.**' 3' ' 1->*.' ,)-*6,*2 25' 1?*' ,1' -*>152 .*')6-/*.' ',)*'
06,6- $.' M¾+¾' 620' 2' Q ' >6-0 26/' 620' /*56,*' 2' /1.,' 6-?6' 620' /6>*2, 6' 620' 86.',1,6// ' 0 ..-*56-0*0'
1/620¾ : *' 86.' */*>,*0' =1=*' B62¾ N ' RK¾ : *' 6,' ',)*' =*6>*' 1 ' $,-*>),' M NX¾ ' ,) .' =*6>*' > / '
86.' 6' >6; , 1; .' 620' =1/ , >' -; /*-¾ : *' ?*0 6,*0' ,)*' 5 ' 1 ' 5' 5 ' 86.' 5 +*2' ,1' ; 9*' >,1-' ?60*; .' 1 ' 6+1 ' 8)1'
=*6>*' 1 ' *-+ 2.' D*, 8**2' -62>*' 620' =6 2¾ 2',)*' 1 ' 1?*' ,1' -*>152 .*')6-/*.' ',)*' =6 2¾ : *'
> + / 86-' 1 ' -62>*',)*' . 0*0' / 9*' .' =-*0*>*..1-.' 8 ,/¾ 70*2 *0',)*' =6=6/ >/6 ?',1' > / ' 620' 8)*2',)*' =1=*'
,)*' /*65 ; *' 656 2.', ' : *2- ' ¾ +*2' 6 ,*-' c)*' /6, ,*-' ;) 60'-*>1 ; -.*' ,1' D62' 620' 2,*-0 >, ' *L=*//*0' 2*6-/ ' 1?6' 620',)*' =-*.,.' -1?' > / ' 620' ,-62.=1-,*0',)*?',1',)=')60'-*>152 .*') ?' 620',' 86.' 21,' ; 2, / ' 2*6-/ ' ,)*' 8)1/*' =6=6/ .,6,*.¾ ()*' =1=*' 0 0' 21,' -*=*6/' D62' 620' 2,*-^
I' 1 ' -62>*')60'-*>152 .*0') ?' ,)6,',)*' =1=*' >12.*2,*0' 0 >, ' ; 2, / ' R' 8)*2' > / ' */ ,1' ,)*' =18*-' 1 ',)*'
,1' 6' .1/*?2' 6D.1/ ; , 12' 1 ' : *2- ' M *>¾ SR X¾ : *2^ *?=*-1-' 1 ' ; .,- 6¾ 2',)*' /125' >1-,,-1+*-. 'D*, 8**2'
- ' .; ==1-,*0',)*' 622*L6, 12' 1 ' *--6-6' ,1' ,)*' =6=6/ ,)*' 1? 2 >62.' 620' B*. ; ,.' >12>*-2 25' ,)*' 1D.*-+^
.,6,*.' 620' -* 2,-10 ; >*0',)*' B*. ; ,.' 2,1' -62>*' 8) /* 62>*' 1 ',)*' =6562' >; .,1?.I' 1 ') 26' D ' >12+*-,.' 2

8) >)' 221>*2,' d')60' 0*> 0*0' 2' 6+1-' 1 ',) *' 1? 2^ >62. '620' /*L620*-' ' 2' 6+1-' 1 ',) *' B*. ; ,. ' /*?^ *2,' 656 2' 0*>/6-*0' 656 2.,' ,) *' B*. ; ,. ' 8)1' 6==6-C7' *2,/ ' . ;D ? ,,*0 ' D ; ,' >12, 2 ;*0' ,) *' >12,-1+*-. ' 2' ,) *' B62. *2 ., >' >12,-1+*-. ' ,) .' =1=*' ,119' +*- ' ?C . +*' 6>, 12' D ' ,) *' D ;// N ' ' 'MB ; / ' dS X' 8) >)' 0*?620*0' 6' .,- >,' 60) *-*2>*' ,1' ,) *' 0*>-**.' 1 ' 221>*2,' d' 620' /*L620*-' '656 2.,' ,/ *' D119' 1 ' B62. *2 ;. ' ., // 5-*6,*-' ?=1-,62>*' 86.' ,) *' >*/*^ D-6,*0' D ;// 2 ' M *=, Q NX' 656 2.,' # ; *. 2*/ .' M ' 81-9' 12' ,) *' *8' (*.,6?*2, ' 8) >)' =-10 ; >*0' 62' *L,-61-0 26- ' >1? ?1, 12' 2' ,) *' 46// >62') ; ->) ' ( ) *' ; ! 5 ! ' ' M K X' >12,6 2.' KN) ; //. '>12., , ; , 12. '/*, ,*-. '620' D- * .'1 ' /*? *2,' 620' ! ' ' M NRX' QN >12. , , ; , 12. ( ) *' / *' 1 ' /*?*2, ' d ' 8_7' 8- ,,*2' D ' 1/ 01-1' M$-D 21 ' K X' 60,*6 ; ' M 60' K' K' +1/.X' / *D1 ; /*, ' M + 5212 ' K K' +1/.X' 620' D ' ,) *' -1,*.,62, ' ; 0*-' ' ! ' -" ' + ' % ' O -' MN' +1/. ' -629 ' K X' : *' 0 *0' K ' : .' 81-9.' M : 1? / *.X' 8*-*' = ; D/ .) *0' MK' +1/. ' 1/X' 2' 1?*' KR' 629*' # ! ' %!' D' + ! : 6.*' +!' # ! ' N' S Q' & *, [*-' ; ' & *, / *') " = d*, ' S R S KT' : *-[15' 5 26 + %!' ' N

U ' 1=*' > / ' 8' 86.' D1?' 6, ' /1-*2>*' 2' K' : *' 86.' 6==1 2, *0' >6-0 26/' < 6 ' ' S' >6-0 26/' D .) 1=' 1 ' -6.>6, ' 2' K ' 620' D*>6?*' =1=*' B ; /E7 K N ' 8) *2' Q *6-.' 1/0' ? ? *0 6, */ ' ; =12' D .' 6>>*.. 12' ,1' ,) *' =6=6/' >)6 - ') *' 2., , ; , *0' 6', - 6/' 656 2.,' 1.> 6 ,) *' 6+1- ,*' 1 ') .' =-*0*>*..1-' *2*0 >,' 4 (' 1-' *L,1-, 12 ' 1. > 6' 86.' .*2,*2>*0' ,1' * 5) , *6-.' ?=- .12? *2, ' 620' 6' 2*' 1 ' 0 ; >6, ' 2' NK') *' ..; *0' 6' =6=6/' '>12., , ; , 12J' 1-' 6' D*.,*-' -*5^ ; /6, 12' 1 ',) *' >12>/6+*' D ' 6' D- * ' 1 ' NS') *' .; =^ =-*..*0' ,) *' .*>, ' 1 ',) *' 1>>) 6- ' 620' 2' QQ') *' >12^ 0*?2*0' ,) *' -**C?6.12. : *7,119' 6' .=*> 6/' 2, *-*. ' 2' ,) *' ; 2 12' 1 ',) *' 4-**9') ; ->) ' 8 ,) ' ,) *' 1?62' 620' 2' N ' 1 ; 20*0' ,) *' '' 1-. 2 62J' *>>/*. 6. , >6/ .*?^ 26-X' 1-' 1 ; 25' 4-**9.' 6, ' .. 52621 ' 2' 6/6D- 6† D ; ',) *' 920*6+1-.' 1 ',) *' B*. ; , .' , 1' 56 2' 1+*-' ,) *' =6^ , - 6->)' 1 ' 12. , 62, 21=/*' 8*-*' - ; , /*. .' _ ; 6// ' 2^ * > *2, ' 8*-*' .=*> 6/' * 1-, .' ?60*' 1-' 8 22 25' 1+*-' 7,) *' -1, *. , 62, .' 1 ' 6L12 '620' /*. 6' : .' -*/6, 12. ' , 1' ,) *' 1?62' 6,) 1/ >' . . 6, *. ' 8*-*' 2' 5*2*-6/' 21, ' - *20/ ' 6-?6' 8) >)') *' >/6 ?*0' 6 , *-7,) *' 0*6,) ' 1 ',) *' /6. ' 6-2*. *' M N X' 86.' 1>>; = *0' D ' ; . - 6' =6 2' 656 2.,' ,) *' >12. *2, ' 1 ' ,) *' =1=*' ?60*' *2/ . , ^ ?*2, .' 2' ,) *' =6=6/' . 6, *. ' 620' =/6>*0' 56-- .12. ' 2' .*+^ *-6/' , 182. ' 1-, ; 56/' >/6 ?*0' ,) *' >6-0 26/ . ') 6, ' 1-' 6' 6+1- . ,*' 1 ',) *' 9 25' M >>) X' 620' ,) *' =1=*' 2' N ' */0*0')6-/*. ' ?62 ; */' 1 ' 6-0 2 6' 86.' ,) -*6, *2*0' 8 ,) ' ,) *' D62' 1-' 1>>; = 25' .*+*-6/' =/6>*. ' 2' *0^ ?12, ' 8) >)' ,) *' =1=*' >/6 ?*0' 6. ' * ' ( ) *' / , , /*' -*^ =; D/ >' 1 ' 62' < 6- 21 ' 8) >)' 6-0 26/ /D*-12 ' 2' NR') 60' -6.) / '622*L*0' , 1',) *' =6=6/' . , 6, *. ' .112' -*>1+*-*0' , . ' 20*=*20*2>*' : *' . ; ==1-.*0' ,) *' *?=*-1-' 1 ' : ^ , - 6' 8 ,) ' ?12*' 2') .' 86-' 656 2.,' ,) *' (; -9. ' : *' =-1?1, *0' ,) *' . , ; 0 ' 1 ' - *2, 6/ /625 ; 65*. ' *. =*> 6// ' ,) *' - 6>' 620' .*2, ' ..*?62 ' 12') .' .*>120' A1 ; -2* ' , 1' ,) *' 6. , ' , 1' >1//*>, ' - *2, 6/ ?62 ; .>- =, . ' 1-' ,) *' / D-6C1' - ' 1 ',) *' 6, >62' : .' =- +6, *' / *' 86.' 6 ; . , *-*' 620') *' 86.' - 5 0' 2' ,) *' *2 1->*?*2, ' 1 ' *>>/*. 6. , >6/' 0 .^ > =/ 2*' : *' 0 *0' *D' S ' ( ) *' ; 2 ' 5 ! ' ! ' M ; L*?D' X' >12,6 2.' K ' >12. , , ; ^ , 12. ' 1 ',) .' =1=*' : 6.1 ' "!' # ' =' ! 629*' # ! ' %!' D' + ! ' & *, [*-' ; ' & *, / *') " = ! ' S ! <E - ; ! ' ? ' L ' SR

K ' 1=*' > ' ' - (' '5 / 8' 86.') 1-2' 6, ' *2 >*' < 6->)' ' SRN ' D*>6?*' 51+*-21-' 1 ' 621' 2' K ' 6 ; 0 , 1-' 1 ',) *' 1,6' 2' KR' >6-0 26/C 0*6>12' 2' N ' D .) 1=' 1 ' 60 ; 6' 2' N' >6-0 26/C=- *. ' 2' ' : *' 6.>*20*0' ,) *' =6=6/' >)6 -' B ; / ' S Q' : *' 18*0') .' */*+6, 12' , 1' ,) *' B*. ; , . ' 8) 1?') *' . ; C2' =1-, *0' 8 ,) '62' *6-2*. , 2*. .' 620' =*-. *+*-62>*' , A 6, ' ; // ' 0 .=/6 *0' ,) *' **D/*2*. .' 1 ',) *' =1=*01?' ' 6 ; , 1^ 5-6=)' /*, , *-. ' , 1' ,) *' 9 25. ' 1 ' -62>*' 1-, ; 56/' 620' =6 2 ') *' *20*6+1-*0' , 1' 6+*-, ' ,) *' 0*. , -; >, 12' 1 ',) *' 1-0*-' 2' ,) 1. *' ,) -**' . , 6, *. ' ; ' 2' +6 2' ( ) *' 1-^ , ; 5 ; *. *' 51+*-2?*2, ' . ; ==-*. .*0' 6// ,) *' >12+*2, . ' 2' SR' 620' S ' ?=- .12 25' 6' 2 ; ?D*-' 1 ' ?*?D*-. ' ; 2^ 0*-' ,) *' >)6-5*' 1 ' D* 25' 6>>1?=/ >*. ' 1 ' 6==/*, ' 656 2.,' ,) *' / *' 1 ',) *' 9 25 ' 620' , -62. =1-, 25' ?1. , ' 1 ',) *?' 2, 1',) *' =6=6/' . , 6, *. ' 6. ' 6' =-*. *2, ' , 1' , ' *, *-%J' 2' S ',) *' B*. ; , . ' 8*-*' *L /*0' -1?' -62>*' 2' -*=/ ' /*?*2, ' . . ; *0' ,) *') ; // & % ' % 1(2' 8) >)') *' 656 2' >12 -?*0' ,) *' 1-0*-' D ; ',) *' -*2>)' 6-/ 6?*2, ' 1-D60*' ,) *' = ; D/ >6, 12' 1 ',) *' D ; // ' 2' =- / ' S ',) *' =62D)' 51+*-2?*2, ' *?D6-9*0' 6// ,) *' ?*?D*-. ' 1 ',) *' 1-0*-' 2' =6 2' 2' 1-0*-' , 1', -62. =1 , ' ,) *?' , 1',) *' =6=6/' . , 6, *. ' 2' ,) *' N ,) ' 1 ' B62 ; 6-X' SQ',) *' =1=*' . . ; *0' 6' D- * ' 2' 8) >)') *' 622 ; //*0' 6. ') *60' 1 ',) *') ; ->) ' 620' 6. ' *; 06/ .1+*-* 52' 1 ' 6-?6 ' 6' 2 ; ?D*-' 1 '-* 1-?6, 1- ' ?*6. ; -*. ' 8) >)',) *' 0 ; 9*' 1 ' 62?6') 60' . . ; *0' 2' S ' 620' SS' =-121 ; 2> 25',) *' .*+*-*. , ' >*2. ; -*. ' 1 ',) *') ; ->) ' 656 2.,' 6// 8) 1') 60' 6 0*0' 2' ,) *' 0-68 25' ; =' = ; D/ >6, 12' 620' *L*>; , > ' 1 ',) *. *' 0*>-**. ' 620' -*/*6. 25',) *' . ; DA*>, . ' 1 ',) *' 0 ; 9*' -1?' ,) *' 0 ; , X' 1 ' 1D* 25',) *?' ( ) . ') ; // = -10 ; >*0' ,) *' 5-*6, *. , ' 20 526, 12' 6, ' 6// ,) *' 1 ; -D12' >1 ; -, . ' 6-?6' *L=*//*0' /*' B*. ; , . ' M 2' SQX' -62>*' 1>>; = Z 0' + 5212' 620' *26 .. 2 ' *20' 6=/*. ' , 119' =>. . *. . >2' 1 *2*+*2, 1' 620' 12, *>1-+1-' 2' 600 , 12', 1',) *. *' , -1 ; D/*. ' 6' >12 / >, ' 6-1. *' 8 ,) ' ,) *' -*=; D/ >' 1 ' *2 -*' 8) >)') 60' . . ; *0' .1?*' /68 . ' -*. , >, 25',) *' =- + /*5*. ' 1 ',) *' >/*-5 ' 620' 2' =6-, >; /6-' ,) 6, ' 1 ' 6>>; ? ; /6, 25' =-1=*-, ' ( ) *' -*=; D/ >' 1 ' 4*216' 1 *-*0' 6' ->86 0' 1 ' S ' .>; 0 ' 1-' ,) *' >6=, ; -*' 1 ' 6' =6=6/' 0*/*56, *' , 1' ,) *' ./620' 1 ' 1-. >6 ' 8) >)') 60' - .*2' 2' 2. ; --*>, 12' 656 2.,' ,) *C' 4*21*. *' 2' B62 ; 6-X' SQ' ,) *' =1=*' =-1, *. , *0' 656 2.,' ,) *' -*. 1/ ; , 12' 1 ',) *' 1/ .) ' *, ' 8) >)' 6/,) 1 ; 5)' -*>152 . 25',) *') ; ->)' 1 ' 1?*' 6. ' ,) *' . , 6, *') ; ->) ' ?60*' .1?*' >12>*.. 12. ', 1',) *' 0 .^ . 0*2, . ' *. 0*. ' ,) *. *' >12 / >, . ' 8 ,) ' ,) *' . , 6, *' 51+^ *-2?*2, . ' /*?*2, ') 60' 6') 6-0' . , -; 55/*' 656 2.,' 62' = .>1=6/' ?1+*?*2, ' 2' ,) *') ; ->)' 1 ' 1?*' 8) >)' 0*?620*0' 6' -*. , - >, 12' 1 ',) *' =6=6/' =-*-156, +*. ' 620' 62' *2/6-5*?*2, ' 1 ',) *' =18*-. ' 1 ',) *' ?*, -1=1/ , 62. ' 620' ,) *' >) *' -*=-*. *2, 6, +*' 1 ' 8) >)' 86. ' ,) *' 4*-^ ?62' D .) 1=' *D-12 ; . ' M %+%X' ( ) *' ' " ' 1-D60*' ,) *' =1. . *. . 12' 620' > ->; /6, 12' 1 ',) *' D1>9' ; 20*-' =*26/, ' 1 ',) *' 56//*. ! D ; ',) . ' - 51-1 ; . ' ?*6. ; -*' 6. ' 8*// 6. ' /*, , *-. ' , 1',) *' D .) 1=. ' 1 ' 4*-?62 ' , 1' . *' ,) *' ; , . ?1. ' * 1-, . ' 1-' ,) *' . ; ==-*.. 12' 1 ',) *' 0625*-1 ; . ' D119' -*?6 2*0' ; . */*. %' 1?*' 1 ',) *') ; //. ' . . ; *0' D ' /*?*2, ' >$ $& ' $ ' &2 ' ' &% (8' 2'+ 20 >6, 12' 1 ',) *' >/6 ?. ' 1 ',) *' =6=6> ' 1 *20*0' *+*2',) *' ?1. , ' [*6/1 ; . ' =6-. 62. ' 1 ',) *' =1=*% +*2',) *' >6-0) 6/. ' D*>6?*' 0 . . 6, . *0' 620' 6' >) 625*' 1 ' =1/ > ' 86.' . *- 1 ; ./ ' >12, *?=/6, *0' 8) *2',) *' =1=*' 0 *0' 12' *D-; 6- ' K' SR% /*?*2, ' -*, . - >, *0' ,) *' - 5), ' 1 ' 6. / ; ?' 1-D60*' ,) *' >/*-5 ' -1?' *2565 25' 2' ?*->62, /*' =; -. ; , . ' 620' >12 *--*0' ; =12' < 6- 6' ( ) *-*. 6' ,) *' , /*' 1 ' 6=1. , 1/ >' ?6A*. , % ' 629*' # ! ' %!' D9% + ! ' : 6. *' " "' # ! ' =% K ' . %T & *, [*-' ; % & *, / *') + = D ' 'S NCS QT' : *-[15' 5 26 + %!' ' NQC %

ddI ' 1=*' >? ' N ' & ' ? 2' 8' (76. ' D1-2' 6, ' 62' ->625*/1 ' 2*6-' ? 2 ' >, 1D*-' N ' -*-' -*>* + 25' 62' *0 ; >6, 12' 2',) *' 2., ^ , ; , 12. ' 1 ' ,) *' B*. ; , . ' 6, ' ? 2 ' 620',) *' 6- . , ' 6, $-D 21 ') *' *2, *-*0 ' 12' < 6 ' KN',) *' 1-0*-' 1 ',) *' < 21-, *. ' *L>) 625 25') .' D6=, . ?6/) - . , 62' 26?*' 1-' ,) 6, ' 1 ' 1-*2[1% : *' .112' 0 ., 25 ; .) *0') ? .*/ ' D1,) ' 6. ' 6' =; /= , ' 1-6, 1-' 620' 6. ' ,) *1/15 62' 620', 6 ; 5), ' ,) *1/15 ' 2' .*+*-6/' 1 ',) *' 2., , ; , 12. ' 1 ') . ' 1-0* f &) *2 ' 12% < 6 ' K ' 1=*' *2*0 >, ' d =-*. 0*0' 6, ' ,) *' 5*2*-6/) >)6=, *-' 1 ',) *' < 21-, *. ' 8) >)' 86. ' , 1' */*>, ' 6' 2*8' 5*2*-6/' 1 ',) *' 1-0*-' 462562*// ' 2' ,) *' 26?*' 1 ',) *' >)6=, *-' 600-*..*0',) *' =1=*' 2' 6' .=**>)' 8) >)' 56 2*0', 1') ?',) *' ; // >12 0*2>*' 1 ' *2*0 >, % 7' : *' 86.' 2' ' 6==1 2, *0' 6. . , 62, ' 620' 2' S' >12C . ; , 1-' 6, ',) *' 62, ' $ [1' M,) *' 125-*56, 12' 1 ',) *' 2C _ ; . , 12X' 620' 2',) .' 1 >*' 812' 5*2*-6/' -*. =*>, ' D ') .' ?10*-6, 12' 6? 6D/*' >)6-6>, *-7' 620' .>) 1/6-.) =%

2' *=,*?D*-' K R')1' 86.' 6==1 2,*0' >6-0 26/C' =- *.,' D ' /*?*2,' d ' ;=12',)*' -*>1?*?*206, 12' 1 ',)*' 5*2*-6/ 1 ',)*' B*. ; ,.% ()*' =1=*' 2,-;.,*0',1') ?' .*+*-6/ ?=1-,62,' ? .. 12.T D;,' 8)*2' ,' 86.' 1;20' ,)6,')*' 0 .6==-1+*0',)*' ;2>1?=-1? . 25' 1==1. , 12' 1 ',)*' =1=*' ,1' ,)*' 1;-D12' >1;-,. ')*' *// 2,1' 0 .^ 6+1-'620' 86.' 0*=- +*0' 1 '6//' 2, ;*2>%' ()*' >12^ >/6+*' 6 ,*-' ,)*' 0*6,)' 1 ' /*?*2,' d $' '/6.,*0' 1+*-' ,)-*-' ?12,),% ()*' 6?D6..601-.' 1 ' ,)*' 1;-D12' >1;-,.' 6 0*0' D ' ,)*' 1;,) ;/' ->)0;9*' B1.*=)' 1 ' ; .,- 6' M.;D.*_;*2,/ ' B1.*=)' X' ?60*' ,)*' ;,?1.,' *L*-, 12.' ,1' .*>;-*' ,)*' */*>, 12' 1 ' 6' / D*-6/ =1=*% 462562*//' 26// ' 86.' 65-**0' ;=12' D ' 6' >1?=-1? .*' 1 ',)*' ,81' =6-, *.% ()*' 12*' -*56-0*0') ?' 6.' .; ^ > *2,/ ' /*L D/*' 620' / D*-6/' 8) /*' ,)*' B*. ; ,.' =6-, ')*/0',)6,',)1;5)' 1==1.*0',1',)*' /6,*' =1=*' .'=1/ > ')*' 86.' 21,')1.,/*',1',)*' 1-0*.' 1',)*' B*. ; ,7% ( ) ; ,')*' 86.' */*>,*0' D 'D1,)' =6-, *.' 12' <6 ' R SR% .')*' 86.' 21,' *,'6' D .)1=')*' -*>* +*0',)*' *= .>1=6/ >12.*^ >-6, 12' 12',)*' KQ,)' 1 ' <6 ' 620' 86.' >-182*0' =1=*' 12',)*' ,)' 1 ' B;2*' : *' 1=*2*0') .' =12, >6,*' D ' ?69 25' -* 1-?.I' 2',)*' 60? 2 .,-6, 12' 1 ',)*' =6=6/ .,6,*. ' .)18*0') ?.*/ '6'=6,-12' 1 '.>12>*' 620' 6-)' 620' *20*6+1-*0',1' 56 2',)*' >12 0*2>*' 1 ',)*' 1?62'=*1^ =/*% ;,') .' >) * '>6-*' 86.' ,1'-*.,1-*',)*' 5110'-*^ /6, 12.' D*,8**2',)*' =6=6/ 620',)*' 1;-D12' >1;-,.% : *' 1=*2*0' 6' =*-.126/ >1--*.=120*2>*' 8 ,)',)*' 1;-^ D12' =- 2>*.' 620' >6-* ;// ' 6+1 0*0' *+*- ,) 25',)6,' >1;/0' 5 +*' 1 *2>*% : *' 6D62012*0',)*' =6=6/ >/6 ?.' ,1',)*' 0;>) ' 1 ' 6-?6T 1 *-*0') ?.*/ ',1',)*' >1;-,' 1 ' <60- 0' 6.' 510 6,)*-' 1-',)*' 2*8CD1-2' .12' 16',)*' =- 2>*..' 1 ' .,;-6T >12> / 6,*0',)*' 9 25' 1 ' 1-,;^ 56/ 620') .' =- ?*' ? 2 .,*-' 1?D6/' M8)1',)-*6,*2*0' 6' >1?=/*,*' .*=6-6, 12' 1 ' 1-,;56/ -1?',)*');->)' 1 ' 1?*X' D ' 6==1 2, 25' 1?D6/ .' D-1,)*-' 6' >6-0 26/' 620' >12 -? 25',)*' *= .>1=6/ 21? 26, 12.' 8>)')60' D**2' ?60*' D ',)*' 9 25% ( ) .' >12> / 6,1- ' =1/ > ' .*^ >;-*0',)*' -*.,1-6, 12',1',)*' =6=6/ 51+*-2?*2,' 1 ' + 5212' *26 .. 2' *2*+*2,1'620' 12,*>1-+1% ;,' ,)*' >) * '0*?620' 1',)*' 1;-D12' >1;-,.',)*' .;==-*.^ . 12' 1',)*' 1-0*-' 1',)*' B*. ; ,. ')*' ,-*0',1' *.>6=*' 6.' /125' 6.' =1.. D/*% : *')60') *0') ?.*/ ' 6/11' -1?' ,)*' B*. ; ,.' -1?',)*' -.,' 06 ' 1 ') .' =12, >6,*' 620')60' 1-D 00*2',)*' 60? .. 12' 1 ',)*' 4*2*-6/ 1' 1-0*-',1',)*' 6, >62% : *' 6==1 2,*0' 6' >1? ? ,,**' 1 ' A;- .,.' ,1' *L6? 2*',)*' .;DA*>,T 6>_;6 2,*0') ?.*/ '=*-.126// '8 ,)'6//',)6,')60' D**2' 8- ,,*2' 1-'1-'656 2.,' ,)*' 1-0*-T 620',119' 5-*6,'>6-*',1'=-*=6-*' =;D/ *' 1= 2^ 12' 5-60;6// ' 1-' ,.' .;==-*.. 12% 2' 6' /*,,*-' ,1',)*' 9 25' 1 ' =6 2',)*' =;D/ >/ ' 60? ,,*0',)*' 2*>*.. , ' 1 ' .;==-*.. 25',)*' 1-0*-' 6.',)*' ?*?D*-.')60' 0*.*-+*0' ,) .' 6,*' D ',)*-' 2,- 5;*.% ()*' D .)1=.' 1 ',)*' =6^ =6/ ..6,*.' 8*-*' 6;,)1- [*0',1' *L6? 2*',)*')1;.*.' 1 ',)*' B*. ; ,. ' 620',1' .*>;/6- [*',)1.*' ?*?D*-.' 8)1' 0*^ . -*0',% 2' B;2*' K ' N',)*' .*6/.' 8*-*' =;'12',)*' 6->) +*.' 1 ',)*' 21+ , 6,*' 1 ',)*' 1-0*-' 6,' 1?*' 620' ,)*' >6-0 26/ 1 ' -6512' 86.' 0 -*>,*0',1' =1..*.') ?^ .*/ ' 1 ' 6//',)*-' =1..*.. 12.' 8 ,) 2') .' /*56, 12% ' . ? /6-' 1-0*-' 86.' 5 +*2',1',)*' D .)1=' 1 ' <12,6/,1% 26// '12' B;/ ' K N',)*' 6?1;' D- * ' C 1?,2<6 '5 % '7 1MD ' 8)',)*' 8)1/*' 1-0*,' 86.' .;==-*..*0' 86.' .52*0% ,' 86.' =;D/ .)*0' 12',)*' S,)' 1 ' ;5;.,% 2',)*' 8)1/*',)*' 0*>-**' 86.' >6-^ - *0 7;' 8 ,)' 5-*6,' -*56-0',1',)*' 20 + 0;6/ ?*?^ D*-. 7;',)*' 5*2*-6/' 6,)*-' >> '86.' 6--*.,*0% ()*' D- * ' ..6,*.' 6.' 6' -*6.12' 1-' ,)*' .;==-*.. 12',)6,' ,)*');->)'21'/125*-' 0*- +*0' -1?',)*' 1-0*-',)*' 60^ +62,65*.' 8)>)' 8*-*' *L=*>,*0' -1?' ,' 6,',)*' ,?*' 1 ' .' 1;206, 12T ,'-* *-.',1',)*' .;==-*.. 12' 1',)^ *-' ?126., >' 1-0*-.' D ' 1-?*-' =1=*.T >/6 ?.' 1-',)*' =1=*',)*' - 5),' 1 ' .;==-*.. 25' 62' 1-0*-' 8 ,)1;,' =-*^ + 1;.' -6/' 620' *L=/6 2.') .' /125') *. ,6, 12',1',69*' ,) .' .,*=' -1?') .' *6-2*.,'0*. -*' 1',)1-;5)/ '>12. 0^ *- 25',)*' ?6,,*-% ()*' ?*6.;-*' 26,;-6// ' =-10;>*0' 62' *L,-61-0 26- '*L> ,*?*2,T',)*'B*.; ,.'*+*- 8)*-*' .;D? ,,*0'D;,'.1?*' + 1/*2,'D119.' 656 2.,',)*' 6*,.' 1 ' ,)*' =1=*' 8*-*'=;D/ .)*0'D ',)*' ?*?D*-.' 1-' - *20.' 1 ,)*' 1-0*-' 620'=-1=)*> *.' -1?'6' 1? 2>62' 2;2' 226' ()*-*.6' 1/ ' 620' -1?' 6' >*-,6 2' *-26-0 26' *2[' 6221;2>25',)*' ? ? 2*2,'0*6,)'1',)*'=1=*' 8*-*' 8 0*^ / ' > ->;/6,*0% 1?*' ?12,),)' 6 ,*-',)*' .;==-*.. 12' 1 ',)*' 1-0*-',)*')*6/,)' 1 ',)*' =1=*' D*562',1' 6 / '620') *' 0 *0' *=,*?D*-' R' % 2' 1= 2 12',)6,')*')60' D**2' =1 .12*0' 1;20' ?62 ' D*/ *+*-.' 620' .' ., // 0*^ *20*0' D ' 6' 2;?D*-' 1 ' 8- ,*-.T D;,' 6' ?6A1-, ' 1 ',)*' D*.',) .,1- 62.')6+*' 0*>/6-*0' ,' 21,' .; > *2,/ ' .;=^ =1-,*0% =*> 6/ 81-9.'12' /*?*2,'6-*' 6-6>> 1/ ' N ' ' O N' M T 4*-?62',-62./6, 12' -629^ 1-,' SXT " ' V !' O N' M *-/ 2' C 'N+1/.%XT -*, 2*6;CB1/ ' 2'O N' 'D A' 'M 6-.' Q '12',)*' .0*' 1',)*' B*.; ,.XT ? ! % ' 'O N'' ; ' ' ' M *-/ 2' Q XT ()*2*-' # ' ' 1 D ' ' 9 'O N'M 6-.' Q N' N +1/.%T 4*-?62' *0,% *=[>X% 6,)*-' ()*2*-' 8)1' 86.' 6' =-* *>,C>160A;,1-' 1 ',)*' 6->) +*.' 1 ',)*' 6, >62 '>12.;/,1-' 1 ',)*' 125-*56, 12' 1 ',)*' 20*L' 620' 1,)*-' >125-*56, 12.' 6' ?*?D*-' 1 ',)*' .=*> 6/ 125-*56, 12' 12',)*' ??6>;/6,*' 1)**=C, 12' *,>% 6,' 1?*' ?60*' ;.*' 1 ' ?62 ' ;2=- 2,*0' 01>^ ;?*2,.' 2',)*' 6->) +*.' 1 ',)*' 6, >62% : *' ,- *0',1' *L6/,' /*?*2,' 6.' 12*' 1 ',)*' 5-*6,*.,' =1=*.' 620' 2' 1-0*-',1' 6>) *+*',) . ' >6?*' 1;,' +*- ' .*+* */ ' 656 2.,' ,)*' B*. ; ,.' 1 ',)6,', ?% : .' 81-9'/*0',1' 6'/ +*) 7>12^ ,-1+*-. % ()*' -*2>)') .,1- 62' 1 ',)*' 1-0*-' -*, C 2*6;CB1/ ' ;20*-,119',)*' 0* *2>*' 1 ',)*' B*. ; ,. ' D;,') .' D119' 86.' =;,' 12',)*' 20*L% ()*' 5*2*-6/ 1 ',)*' 1-0*-' % 11,)62' *6- 25',)6,',)*' >12,-1+*-. ' ? 5),' ,;-2' #;,' D60/ ' 1-',)*' 1-0*-' 0*>/ 2*0' 6// -*.=12. D / , ' 1-' -*, 2*6;CB1/ .' 8 1-9' D;,' 6,',)*' .6 ?*' 2' C 0;>*0' %O*' 6+ 5262',)*' >*/*D-6,*0' B*. ; ,' =-*6>)*-' 6,' 6- .',1',69*' ;=',)*' 0* *2>*' 1 ',)*' 1-0*-% 6+ 5C 262' 6>>1--/ 25/ ' 8-1,*' 620% =;D/ .)*0' 'O ' ' 'O N' M 6- .' Q 'K +1/.%'=% 620' S KX' 2' 8)>)' D*7,-*.',1'A;., 'D1,)',)*' B*.; ,.' 620',)*' =1=*' 8)1' .;==-*..*0',)*?% ** : *-[15'5 26 + %!' C KT & *,[*-';% */,*' 'S QCSKKT' :1* *-' ; ' ? 1'L C ST 629*'# % 'D9% + T : 6.*' " "' # ! g KST : 119' 6 !' ' .' +% 4627C' 2*///%

/*?*2, 2*.' % M dA V*A-?')O *%+ *' 1-I' =.*;01C /*?*2, 2*.X' 6->',)*' .*+*-6/ 8-, 25.' =6-,/ ' 1-,)101L'=6-,/ ')*-*, >6/' 6/.*/ '6.>- D*0',1' /*?*2,' 12*' 1',)*' 6=1.,1/ >' 6,)*-.' 620' D .)1=' 1' 1?*' -1?' % % RKC K' 1-',)*' =;-=1.*' 1' 5 + 25',)*?' 5-*6,*-' 8* 5),' 620' >;-<2> % ()*.*' 81-9.' 6-*' 3 % ' > <* ' > / ' ' ' ' ' ' *L^ ,62,' 12/ ' 2' -65?*2,.% ()*.*' -65?*2,.' 6-*' 1;20' ,15*,)*-' 8 ,)' /*?*2, .' 5*2; 2*' 1-' -.,' = ./*',1',)*' 1- 2,) 62.' \.** ' ' ;' 6,',)*' >/1.*' 1' ,)*' /*L620- 62' 10*L' 1',)*' /X/*' M>6//*0' 10% X' 06, 25' -1?',)*' ,)' >*2,;- ' 620' =-*.*-+*0' 2',)*' - ,.)' <;.*;?% ()*' *6-/ *.,' ?*2, 12' 1' .;>)' 62' *= ./*' 8*' ?**,' 2' ;.*D ;.' 8)1' .6 .' I1# ' 6 ! 1 NQX' '& *' ?;.,'9218',)6,',)*-*' .'6/.1'6' .*>120' = ./*' 1' /*?*2,T D;,' 8*' 01' 21,' -*56-0' ,' 6.' D* 25' *_;6// ' 21,6D/*' 8 ,)',)*' 1-?*-' .2>*' 8*' 9218' 1 '212*' 1',)*' 62> *2.,'),)6,')6+*' ?60*' ;.*' 1',%J ()*' >6,6/15;*' 1 '8- , 25.' >12,6 2*0' 2',)*' /*L62^ 0- 62' < % 6.>- D*.',1' /*?*2,T D;,',)' .' 2',)*' 6D^ .*2>*' 1 '1,)*-' *+ 0*2>*' *L,*-26/ 620' 2,*-26/ ' .' 21,' 1 '5-*6,' 8* 5),' . 2>*' 10*L' '>6221,'D*' ,-6>*0' D*^ 120',)*' ,)' >*2,;- % '>/1.*-' *L6? 26, 12' 1',)*' -65?*2,.' .)18.',)6,',)*' 6-*' 21,' 62' *= ./*' D;,' 6' 71? / ' >12,6 2 25' 5*2*-6/ *L)1-,6, 12.',1' 6>, +*')- ., 62 , '620',1' 0*/ , ' 2' =*-*>;, 12' 8 ,)' =1^ /*? >6/ -* *-*2>*.',1',)*' 421.,>' 0*2 6/ 1',)*' -*. ; -*-*>, 12' ()*' 01>; ?*2,'0 *-.' .1' ?;>)' 2' ., /*' 620' 01>,- 26/ ?=1-,62>*' -1?',)*' 5*2; 2*' *= ../*' 1' /*?^ *2,',)6,' ,')6.' D***2' 5*2*-6// ' 6.. 52*0' D ' >- , >.',,1 6' /6,*-' 06,*% ,' .' 1-,)101L' 2' .*2, ?*2,T ()*' +*- ' D*5 22 25'>12,6 2.'6'0 ., 2>,'>12 *.. 12' 1',)*'0 + 2 , ' 1')- .,' 8)1' .' >6//*0' 410' 620',)*' B;05*' 1',)*' / + 25' 620',)*' 0*60%J ,)*-8 .*' ,' .' 1 '21' .=*> 6/ 6>>1;2,% Z

mass, the necessity of confession, etc. Their name is said to be derived from that of a priest, their first leader. The sect has never been numerous; but a few members, it is thought, may still (1867) be found in the Pyrenæan provinces of France. See Brown, *Encycl. Rel. Knowl.* s. v.; Eden, s. v.

Cleobians, a branch of the Simonians (q. v.), in the first century, extinguished almost at its rise.

Cle'ōpas (Κλεόπας, contr. for Κλεόπατρος, *of a renowned father*), one of the two disciples who were going to Emmaus on the day of the resurrection, when Jesus himself drew near and talked with them (Luke xxiv, 18), A.D. 29. Eusebius and Jerome (*Onomast.* s. v. Ἐμμαούς, *Emaus*) make him (Κλεώπας, *Cleophas*) a native of Emmaus. It is a question whether this Cleopas is to be considered as identical with the CLEOPHAS (q. v.), or rather *Clopas* of John xix, 25, or the ALPHÆUS (q. v.) of Matt. x, 3, etc. Their identity was assumed by the later fathers and Church historians (Thiess, *Comment.* ii, 250 sq.). But Eusebius (*H. E.* iii, 11) writes the name of Alphæus, Joseph's brother, Clopas, not Cleopas; and Chrysostom and Theodoret, on the Epistle to the Galatians, call James the Just the son of Clopas. Besides this, Clopas, or Alphæus, is an Aramaic name, whereas Cleopas is apparently Greek. Again, as we find the wife and children of Clopas constantly with the family of Joseph at the time of our Lord's ministry, it is probable that he himself was dead before that time. On the whole, then, it seems safer to doubt the identity of Cleopas with Clopas, notwithstanding the similarity of names. (See Rus, *Harmon. evang.* III, ii, 1272 sq.; Wieseler, *Chronol. Synopse*, p. 431; Clemens, in the *Zeitschr. f. wiss. Theol.* iii, 356 sq.)

Cleöpa'tra (strictly *Cleop'atra*, Κλεοπάτρα, *of a renowned father*), a Greek female name occurring as early as Homer (*Il.* ix, 556), and borne especially by the Egyptian princesses after the times of Alexander (see Smith's *Dict. of Class. Biog.* s. v.). The following, being members of the line of the Ptolemies, who frequently intermarried with the Seleucidæ of Syria, are mentioned in the Apocrypha and Josephus, or alluded to in the Scriptures.

1. A daughter of Antiochus III (the Great), who was married to Ptolemy V (Epiphanes), B.C. 193 (see Dan. xi, 13, 16), Cœle-Syria being given as her dower (Josephus, *Ant.* xii, 4, 1; Appian, *Syr.* 5; Livy, xxxvii, 3), though Antiochus afterwards repudiated this arrangement (Polyb. xxviii, 17). See ANTIOCHUS, 2.

2. A daughter by the preceding match, who became "the wife of Ptolemy" (Esth. xi, 1) VI (Philometor), her own brother, on whose death (B.C. 146) she was violently persecuted by his successor (her own brother likewise, and for a time husband) Physcon, or Ptolemy VII, or Euergetes II (Justin. xxxviii, 8, 9; xxxix, 1, 2; Livy, *Ep.* 59; Diod. Sic. ii, 602, ed. Wess.) She is mentioned by Josephus as having joined her first husband in the letter addressed to Onias (q. v.) in favor of reconstructing the Jewish temple at Leontopolis (*Ant.* xiii, 3, 2), and as befriended in her distress by Onias (*Apion*, ii, 5). See PTOLEMY PHILOMETOR.

3. A daughter of the preceding by her first husband; married first (B.C. 150) to Alexander (q. v.) Balas, the Syrian usurper (1 Macc. x, 58; Josephus, *Ant.* xiii, 4, 1 and 5), and on his death (B.C. 146) to Demetrius (q. v.) Nicator (1 Macc. xi, 12; Josephus, *Ant.* xiii, 4, 7). During the captivity of the latter in Parthia, B.C. 141 (1 Macc. xiv, 1 sq.), she married his brother Antiochus (Josephus, *Ant.* xiii, 7, 1) VII (Sidetes), out of jealousy on account of Demetrius's connection with the Parthian princess Rhodogune, and also murdered Demetrius on his return (Appian, *Syr.* 68; Livy, *Ep.* 60), although Josephus (*Ant.* xiii, 9, 3) and Justin (cxxxix, 1) represent her as only refusing to receive him. She also murdered Seleucus, her son by Nicator, who on his father's death assumed the government without her consent (Appian, *Syr.* 69). Her other son by Nicator, Antiochus VIII (Grypus), succeeded to the

Coin of Cleopatra and her son Antiochus Grypus.

throne (B.C. 125) through her influence; but afterwards, finding him not disposed to yield her all the power she desired, she attempted to poison him, but was anticipated by him, and compelled to drink the poison herself (Justin, xxxix, 2), B.C. 120. See ANTIOCHUS, 6 and 7.

4. A sister of the preceding, and the rival of her own mother (No. 2) in the affections of Ptolemy Physcon, by whose will she was left in supreme power, in connection with whichever of her own sons she might choose. She was compelled by her people to set up the eldest, Ptolemy VIII (Lathyrus); but she soon prevailed upon them to expel him, and make room for her younger and favorite son Alexander (Pausan. viii, 7), and she even sent an army against Lathyrus to Cyprus, an effort in which the Jews became involved (Josephus, *Ant.* xiii, 12, 2 sq.; 13, 1) through the intervention of Alexander Jannæus (q. v.). Her son Alexander retired through fear of her cruelty, but was recalled by his mother, who attempted to assassinate him, but was herself put to death (B.C. 89) before she could effect her object (Justin, xxxix, 4). See PTOLEMY LATHYRUS.

5. The second daughter of the name by the preceding marriage, and married to her own brother Lathyrus after her sister's divorce, from whom she is usually distinguished by the surname of *Selenè* (Σελήνη, *the moon*). After his exile she married Antiochus XI (Epiphanes), and on his death Antiochus X (Eusebes). She was besieged by Tigranes in Syria or Meropotamia, and either taken and killed by him (Strabo, xxi, p. 749), or, according to Josephus (*Ant.* xiii, 16, 4; comp. *War*, i, 5, 3), relieved by Lucullus's invasion of Armenia. See ANTIOCHUS, 9 and 10.

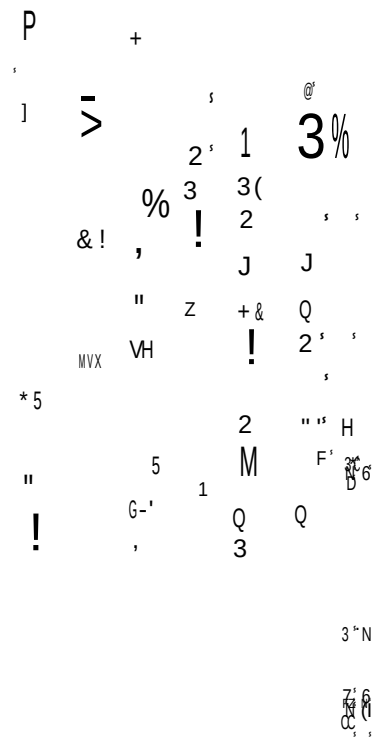
6. The last queen of Egypt, was the daughter of Ptolemy Auletes, born B.C. 69, and celebrated for her beauty and accomplishments, as also for her voluptuousness and ambition. She had various amorous and political intrigues, first with Julius Cæsar (Dion Cass. xliii, 27; Sueton. *Cæs.* 35), whom she even accompanied to Rome; and finally with Marc Antony (q. v.), who became so completely enamored of her as to commit suicide when falsely informed of her death, which she presently actually accomplished, it is said by causing herself to be bitten by an asp, on the capture of Alexandria by Octavianus, afterwards called Augustus, B.C. 30 (see Liddell's *Hist. of Rome*, chap. lxx).

Coin of Antony and Cleopatra.

B1.1=) ; .' 1 ,*2' -* *-.' ,1') *-' =-1 / 56,*' >120 ; >,' M.**' & 'L + ' N X' 6.' (+*// 6.') *-' 6-, ;/ >-; */, ' >&= 'L+ ' N' '620' QT' 1' ' R X'620' 26--6,*.') *-' ; 2. ; >>**..^ ;/ 6,,* ?=,' ,1' 0-68' *+*2' : *-10' 2,1' 62' 6? 1 ; -' I& ' d ' X% % 2*' 1 ' : *-10 .' 8 +*. ' 6' 26, +*' 1 ' B*-; .6/*? ' 620' ?1,) *-' 1 ') .' .12.' : *-10' 620') / =' MB1.*=) ; . L A' 'NT' 6- ' ' KQ ' X Q% ( )*' 8 *' 1 ' 4*.. ; .' /1-; . ' =-1 > ; -6,1-' 1 'B ; OA*6T' .)*' 86.' 6' 6+1-, *' 8 ,)' *-1 .' 8 *' MB1.*=) ; . ' & ! d d ' GGWM /* 1 =) 6 . ' 1-' -6,) *-' / 'M d1P -6 X',) *') ; .^ D620' 1 ' < 6- ' M_% +%X ' ,) *' . . ,*-' 1 ')- . .,. ' ?1,) *-' MB1) 2' L L ' K XT' =-1D6D/ '6' 4 --*> [*0' 1-?' ',) *' 26 ? *' */.*8) *-*' M < 6,, 'L ' NT' /6-9' ' QT' ; 9*' + ' 4T' >,.' ' NT' >1 ?=% < 6-9' L+ ' X' >6//*0' / ' 6 $ ' M_% +%X ' =*-)6=.' 2' ? ,6, 12' 1 ' ,) *' 2 6 ? *' 2 % 'M_% +%X% ' **' ,) *' -+ !' X !' 8%) 1 ' Q ' 'S Q% /*-> ' *' 7 : ' - ' 6' /*6-2*0' >-. , >' 620' ,) *1/15 62 ' 86.' D1 ?' 6,' 4 *2*+6' < 6->)' R S % ' : *' . ,) *1/15 ' 6,') .' 26, +*', 182 '620' 2' S R' =6..*0' 6' D- // 62,' *L6 ? 26, 12' 1-' 60 ? .. 12' 2,1' ,) *' ? 2 .,- ' 1 ' 4*2*+6 ' D ; ,')60' D* 1-*',) .' 6//*2' 1 ; ,' 8 ,)' .,- >,' 6/+ 2 . ? ' >) *4A7 ; 20*-',) *' 2 /; *2>*' 1 ',) *' 6 ; C' ? ; -' ,) *. *.' I$ ' " ' " ' $ 1' S X' 620' ,) *' 8 - , 25.' 1 ') .' 5-620C ; 2>/*' ;->*//6*; .' 620' 1 ' = .>1= ; % .' *6-/ ' 6.' S R') *' =; D/ .) *0' 6' =.*; 01C' 2AW 1 ; .' 81-9' 12' ,) *' 0 *-*2>*' D*, 8 **2' .,- >,' 6/+ 2^ .,' 620' : *? 12 .,-62,.' 2' 6+1-' 1 ',) *' /6,,*-' M D*- ' ' ' % ' + 1' 6 ; ? ; -' S RX% 2' SQK') *' 1=*2/ ' A1 2*0' ,) *' *? 12 .,-62,.' 620' 2' SQ ' ,) *' 1,,*-06?' 210' 56+*', 1') ?' ,) *' =-1 *..1-.) =' 1 ' =) /1.1=) ' 620' 62> *2,' /625 ; 65*.' 6,',) *' -? 2 62' >1//*5*' 1 ' ? . ,*-06?% : *-*') *' 6, ' 12>*' D*562', 1' *L^) D ,') .' ?6-+*//1 ; .' / ,*-6- ' 6>, + , % ,*-' =; D/ .) ^ 25' .1?*' *L*5*, >6/' ,-*6, .*.' 1 ') .' ; 2>/*' 6+ 0' /*' /*->' 620') .' 6,) *-' ,*=) *2' /*' /*->' 620' 6' 015?6,^ >6/' ,-*6, .*' 12' =-*0*.., 26, 12 ' 620' ,) *' 26,, : -*' 620' / ?^ ,.' 1 ') ; ?62' 9218/*05*' I6 ' ' ' =' ' " " 1' ? . ,*-06?' SQ X') *' 6,,-6>,*0' 5*2^ *-6/' 6,,*2, 12' D ' / .' / ,*-6 ' >12,-1+*-. ' 8 ,)' ,) *' /*6-2*0' 1-6,1- 62' >) 6-0' ?12' I , ' &' " ' % 1' SQ '=. * ; 012 ?%T $I ' N+ !' 4 ' 'N ' -!' % '% ' ' %' 5 '$ 1' ?. ,*-0% SQ ' ' ' ' $ 1' *,>% ?C' .,1-0% SQ X% 2' ,) *' .6 ?*' E *6-') *' *. ,6D/ .) *0' 8 ,)' % 1-2620' 0*' /6' -1[*' 6' / ,*-6- 'A1 ; -26/ ' ; 20*-' ,) *' , /*' ; +%4 ' ' ' + 4 1' 8) >) ' D*. 0*. ' -*C' f *8 .' 620' *L,-6>,.' -1?' 2*8' D119. ' >12,6 2.' ? 62 ' *. .6 .' D ' *' /*->' MK ' +1/.% SQSC S QX% : *' 6/.1',119' 62' 6>, +*' =6-,' 2' ,) *' =; D/ >6, 12' 1 ' ,) *' 1 ; -' *0 , 12. ' 1 ' < 1-*- .' ' ' M ' +1/.% 1/% SR C KX% : *' 0* *20*0' = .>1= ; .' 656 2. ,' ,) *' >) 6-5*' 1 ' 1> 2 62C' . ? ' I ' ' !D ' ' " ' ' ' ' 6% % 1' SR X' 620' ,-62. /6, *0' ,) -*-*' 81-9. ' 1 ' ; -^ 2*, ' 2,1' -*2>) ' 620' =6-, ' 1 ' ,) *') . ,1- ' 1 ' 62> *2, ' =) /1.1=) ' D ' ( )% ,62/*' 2,1' 6, 2% -1?' SRKC' SR ') *' 8-1, *' .*+*-6/ >1?=*20.' 1 ' =) /1.1=) ' I , % ' %" %" ' '+1/.% SRQT' /6, *-' *0 , 12.' >12,6 2' 6' ,) ' +1/ ; ?*' 8 ,) ' 6' / *' 1 ' ,) *' 6 ; ,) 1-X% 2' SRN') *' D*562' ,) *' =; D/ >6, 1 '' 1 ') .' 6, 2', -62. /6, 12' 1 ' 620' >1?C' ?*2,6-EI ' 12' ,) *' /0' (*. ,6?*2, ' M4*2*. . ' SRNT' ,) *' 1 ; -' /6. ,' D119. ' 1 ' ,) *' *2,6, *; >) ' SRST' ,) *%1,) *-') .^ ,1- >6/' D119. ' QT' ,) *' -*?6 20*-' N X' 2' 8) >) ') *' 0*+*/1=*0' .1?*' /6, , ; 0 26- 62' + *8 . ' 12' D/ >6/' ? -^ 6>/*. ' 620' .>- =, ; -6/' 2, *-=-*, 6, 12% 2' SRS') *' =; D^ / .) *0') .' & ' ' MK' +1/. ' ?. ,*-0%X ' 12*' 1 ') .' ?1. ,' ?=1-, 62, ' 81-9. ' 1 ' 8) >) ' ,) *' 6% ' ' ' 6 ' M ' 656 2. ,' 6+*X' 6-*' 6' >12, 2 ; 6^ , 12% : *' ,-62. /6, *0' 2,1' 6, 2' 620' 600*0' +6/ ; 6D/*' 321, *. ' ,1' : 6 ? ?120 .' *8' (*. ,6?*2, %' M SRQ ' K' +1/. % 1/%T KO' *0 ,% -629 1-, ' X' 620' 2' ,) *' .6 ?*' >6-' =; D/ .) *0' 6' 2*8' *0 , 12' 1 ' ,) *' &% 'D ' 1C' ,*/ *-' 8 ,) ' 2=, *. ' 620' 600 , 12. ' M ?. ,*-0% SRQT' KO' *0% K X% ' 81-9' 656 2. ,' .1?1 ' 62, C)- . , 62' + *8 . ' 2' 6 /* .' ' ' I " 1' ?. ,*-0 ' SRRX' 2C' -% ' ' +1/+*0') ?' 2' 6' >12, -1+*-. ' 8 ,)' 6 /*' 8) >)' /6. , *0' ' ; 2, /' ,) *' 0*6,) ' 1 ' ,) *' /6, ,*-% : *' =-*=6-*0' 62' 6==*2^ 0 L' , 1' ,) *' ?. ,*-06?' -*=- 2, ' 1 ' ,) *' < 6 ; - 2*' *0 , 12' 1 ' ,) *' 81-9. ' 1 ' $!' I&%% '& 1 ?. ,*-0% NXT' = ; D/ .) *0' 6' -*2>) ' ,-62. /6, 12' 1 ' ,) *' *8' (*. ,% M ?. ,*-0% N' K' +1/. %X ' 8 ,)' 21,*. ' <) >) ' 656 2' D-1 ; 5) , ') ?' 2,1' ,) *' . ; .= > 12' 1 ' 1> 2 62 . ? ' 620' = ; D/ .) *0' 2*8' *0 , 12. ' 8 ,)' 21,*. ' 1 ' *,6+ ; . X*' " ' % ' MS' 1/.% 1/% ?. ,*-0% X' 620' *-.% : *' 6/.1' >12, 2 ; *0') ./ , *-6- 'A1 ; -26/ ; 20*-',) *' , ,/*' ; " 14 ' " ' M NC N' K ' +D/. %X% 2' K' 12' ,) *' 0*6,) ' 1 ' ?D1->) ') *' 86.' 6==1 2, *0') .' . ; >^ >*..1-' 6.' =-1 *..1-' 1 ') ; ->)' : .,1- ' 6, ' ,) *' >1//*5*' 1 ' ?. ,*-06?% : .' 2*8' 1 >*' 20 ; >*0') ?' ,1' 8-, *' 6') ; ->)' : .,1- ' 1 ' ,) *' -. ' ,81' >*2, ; -*. ' I# !' 6 ' + !' '% I1!' .*, > ' ?. ,*-0% SXI' : *' 6/.1' =-*=6-*0' .*+*-6/ *0 , 12.' 1 ' 6, 2' 720' 4-**9' >/6. . >. ' 6') .,1- ' 1 ' ,) *' *,) *-/620. ' 620' >6-- *0' 12' 6' +*-. ' *L, *2. +*' >1--*. =120*2>*' 7 ,) ' . >) 1/6-. ' 2' +6- 1 ; . ' >1 ; 2, - *. % 2' KQ') *' . ; 00*2/ ' /1. , ' 2' >12. *. ; *2>*' 1 ' 6' =6-6/ , >' .,-19*' ,) *' ; .*' 1 '/625 ; 65*' 620' ,1' 6' /6-5*' *L, *2, ') .' ?*?1- ' 620') .' *120 , 12' D*>6?*' ., // 81-.*' 6 ,*-' 6' 2*8' 6,,6>9' 2' NK% : *' 0 *0' B62 ; 6- ' Q NS ' 1' /*->' 86.' 12*' 1 ' ,) *' ?1.,' =-1/ >' 8-, *-.' 1 ' ?10*-2' , ?*. ') ; ' ?1-*' >-, >6/ ,) 62' =-10 ; >, +*% ( )1 ; 5) ' 6/C' 86 .' 2' *>>/*. 6., >6/' >1?*?; 212' 8 ,)' ,) *' *?12^ .,-62,. ') *' ; 201 ; D, *0/ ' /*62*0', 186-0.' 1> 2 62 . ?% ' ' **' & *, [*-' ;% & */, *') = !' ' SN ' ._ %T : *-^ [15'5 =6 + %!' ' ST' -.>) ' ;% 4-; D*-' 6 D %' +1/% L+ ' % % /*-* . ,1- % ' **' 4 #! /*-5 ' ,) *' 5*2*-6/ 26?*' 5 +*2', 1' ,) 1.*' 8) 1' 6-*' .*, ' 6=6-, ' D ' ' M_% +%X ' 1-',) *' =*- 1-?62>*' 1 ') - . , 62' 81-.) =' 620', *6>) 25' 620' 8) 1' 6->',) *-* 1-*' .6 0', 1' D1' 2' 1-0*-. ' M_% +%X% % ' ( )*' 81-0' .' D f .1?*' . ; ==1.*0', 1' D*' 0*- +*0' -1?' ID1 E' 6.' ',) * ? 2 . ,*-' 8*-* ' 2' 6' .=*> 6/ .1*2.*') E*I ' ' S 1H' .=*> 6// ' >12.*>-6, *0' ,1' 410% ,) *-. ' M ; 5 ; ., 2*' 6 % !' ' !' S T' . 01-' ' ', !' 6 !' ' >% X' ?6 2C' ,/ 2',) 6, ', 20 >6, *. ',) 6, ,/ *' /1, ' D ' 8) >) ' < 6, ,) 6. ' 86.' >) 1.*2' 6=1. ,/*' 56+*',) *' -., ' 5*2*-6/ 26?*' 1-' ,) *' >) >/. ' 1 ',) *') ; ->) ' 6. ' 6' >/6. ,% B*-1?*' .6 .',) * ' 8*-*' >62*0' >/*-5 ' * ,) *-' D*>6 ; . *' ,) * ' 8*-*' >) 1.*2' D ' /1, ' , 1' D*' ,) *' 1-0 . ' 1-' D*>6 ; . *' ,) *' 1-0' .',) * -' /1, ' 1-') *- . ,65*' M *; . ,% L+ ' KX% < 1-*' -*>*2, / ' D1,) ' ,) *. *' 0*- +6, 12.') 6+*' D***2' 6D62012*0' 620' 12*' =-1^ =1. *0' D ' 6 ; -' I2 % ' 6% % ' =% N . _ %T ' ! ' " + ' ! ' " ! ') " ' ' ' G' D " + !' =% K X' 620%D ' ,.>) / I6 "!' ' + "!') " 1' =% K SX') 6.' ? *, ' 8 ,) ' 5*2*-6/ 6+1-% >>1-0 25' ,1' , ' ,) *' 81-0') O % ' .' 2',) *' % (% M >, . ' 'K T ' *, % + ' NX' 6.' 8*// 6.' 2',) *' /625 ; 65*' 1 ',) *' 62> *2, ') ; ->) ' >1? 12/ ' ; . *0' 2',) *' . 52 >6, 12' 1 ' 6229 J ' 0*5-**%J' ( )*' 6 ,) ; /J I ' 8' 620' >6, *>) ; ? *2. ' 8*-*' >6//*0') O *%4' M1-0 2*. ' -629. X' A ; . ' 6.' 8*// 6.' D .) 1=. ' =-*. D , *-. I' 0*6>12. % 4-60 ; 6// ' 7,) *' *L6>, ' =1 2, ' 1 ' , ?*' >6221, ' D*' L*0 ' 7,) *' *>>/*. 6. , >6/' 1 ^ >*-. ' 8*-*' *L>/ ; . +*/ ' >6//*0' V *' -629 J') O *% ' 6' , -62. , 12' 8) >) ' 86.' +*- ' 26, ; -6/ 8) *2',) *' 0 *-*2>*' D*, 8**2',) *' 1 >*-. ' 1 ' ,) *') ; ->) ' 620',) *' D ; /9' 1 ',) *' =*1=/*' 86.' *?=) 6. [*0% ( ) *' *6-/ *. , ' 8- , *-' 2' 8) >) ' ,) *' 26?*' '>/*-5 J' I) O *% 8' 2',) *' -*. ,- >, *0' . *2.*' 1>> ; -. ' . ' /*?*2, ' 1 ' /*L620- 6% ' . ' >/*6-' -1?' ,) *' % (' ,) 6, ',) *-*' 8*-*' ?*2' . *=6-6, *0', 1' ,) *' 81-9' 1 ',) *') - . , 62' ? 2 .,- % 1' ?*' 1 ',) *. *' 6==*6/1' ,1') 6+*' D**2' 1' . ; >)' 6. ' % ' 8) 1') 60' D**2' . *?*>, *0' D ')- . ,') ?. */' 8 ,) 1 ; , ' 62 ' 2, *-^ ?*0 6, *' 6 ; ,) 1- , T ' . ; >)' 6. ' (?1,) ' 620' 3' (, ; . ' ** ' 1-% L + ' N' KKCK % ( ) *. * =-1D6D/ ' >12, 2 ; *0' 12/ ' 0 ; - 25',) *' / *, ?*' 1 ',) *' 6=1. , /*. ' 62"/' ,) 1. *' 12' 8) 1?' ,) *' ' /6 0') 620. % ,) ^ *-.' 8*-*' ' ? 2 . , *-. ' 0*21? 26, *0' */0*-.' 1-

=-*.D ,*-. '=6.,1-. 'D .)1=. '620',*6>)*-.% *#' ' *,% ' C T' >,.' L + 'KNT' L+ 'ST' (,;.' ' % ()*.*' 8*-*' 0 + 2*/ '>6//*0'620'6==1 2,*0',1',)* -' 81-9'M >,.' LL ' KQX'',)* ' 8*-*' .1/*?2/ ' .*,' 6=6-,T ,)* ' 8*-*' *2, ^ ,/*0',1' D*' .;==1-,*0'D ',)*' >);->)*.' ,1' 8)1?',)* ' % ? 2 .,*-*0T ,)* -'0;, *.' 8*-*',1' **0',)*' /1>9',1',69*' >6-*' 1 '620'51+*-2',)*');->)' 1 ' 4=0'620',1' 86,>)I' 1-' .1;/.' M ' ()* >.%+ ' K' NT' :*D% L ' ' XJ' M 1/*^ ?62' " '& 4 '>)% X% % / ' ' ' ' ' 2',)*' 6=1.,1/^ >6/);->)'21'6D.,-6>,'0 ., 2>, 12'1 '>/*-5 '620'/6 , ' .',1' =- + /*5*' 1-' .62>, , ' 86.'9218 2T 6// D*/ *+*-.' 8*-*' >6//*0',1',)*' =-1=)*, >'=- *./ '620'9 25/ '1 ^ >*.' 2')- .,'M ' *,%+'NX% ()*'B*8 .)'=1 2,'1 '+ *8J',)6,',)*' 0*6' 1 ',)*' 5*2*-6/)- ., 62' =- *.,)110' 1 '6// D*/ *+*-.' 56+*' =/6>*' ?1-*' 1-' /*..' >1?=/*,*/ ',1' ,)6,' 1 ',)*' .=*> 6D=- *.,)110'1-'>/*-5A7'Nd*620*-' " "'# ' (1--* .' *0%' ' R ' ._%T >)6 ' # ' ' " ' ?C ' " "' ' >)%+ T 4 *./*-' " "' # ' ' K% 1' (*-,;$ 62' *+*2' >' ' ; % '>% 'D* 1-*')*' D*^ >6?*' 6' <12,62 .,X% ()*/6 , ')6+*' 6/.1',)*' - 5),',1' 60? 2 .,*-',)*' .6>-6?*2,.' 620',1',*6>)' 2',)*' >1?^ ? ;2 , ' ()*' & 1-0'1 '410'620',)*' .6>-6?*2,.' 8*-*' D ',)*' 5-6>*' 1 '410'>1?? ;2 >6,*0'D '6//')- ., 62.'6.' 2.,-;^ ?*2,.' 1 ',)*' 0 + 2*' 5-6>*% ;',)*' _;*., 12')*-*' -*^ /6,*.' 21,' D6-*/ ' ,1' 8)6,' .' *L=*0 *2,' ;20*-' *L ., 25' > -> ; ? .72C >*.% & *' ?6 ')*-*' ;.*',)*' 81-0.' 1 ' ,% 6;/ ' ` // ,) 25.' 6-*' /68 ;/ 1-' ?*2' D;',6//,) 25.' 6-*' 21,' *L^ =*0 *2,%!' 8*' /119'6,',)*' 1-0*-' 2*>*..6- ',1' D*' ?6 2,6 2*0' 2',)*');->)',)*' /6 , '6-*',)*-* 1-*',1' *L*-> .*',)* -'=- *.,)'- 5),'1 '60? 2 .,*- 25',)*' .6>^ -6?*2,.'12/ '8)*2',)*', ?*'620'> ->; ?.,62>*.'-*_; -*' ,%J' -1?',)*', ?*'1 ' =- 62'M ' K QX',)*' 6,)*-' 1 ' ,)*')*-6->)>6/ . .,*?',)*'0 ., 2>, 12'1 '>/*-5 '620' /6 , 'D*>6?*'=-1? 2*2,'620'+*- ' .112'86.';2 +*-.6/^ / '60? ,,*O% 20**0' -1?',)*',) -0'>*2,;- '1286-0' ,)*',*-?' 'I)O % ' 8 86.'6/?1.,'*L>/;. +*/ ' 6==/*0',1',)*'? 2 .,- ',1'0 ., 25; .)' ,'-1?',)*'/6 , % . +*/ ' ,)*' :1?62') *-6->) ' 86.'0*+*/1=*0',)*' >/*-5 ' >6?*',1'D*' 21,' ?*-*/ '6'0 ., 2>,'1-0*-'M8) >)' ? 5),' >12. .,' 8 ,)' 6//,)*' 6=1.,1/ >6/ -*5;/6, 12.'620'01>^ ,- 2*.X'D ;','6/.1',1'D*' -*>152 .*0'6.',)*' 12X '=- *.,^)110'620',)*' *..*2, 6/ ?*62.' 1 '>1?? ;2 >6, 12'D*^ ,8**2'?62'620'410'M 2*,% ' -" ' 2,-10%X% N% ! ' ' ? ;/,62*1;./ ' 8 ,)*' ,)*' 2,-1^1' 2'62'6>, 12'656 2.,'6'=*-.12' 2')1/ '1-0*-.' 8)*-*^ 0;>, 12' 2,1',)*');->)'1 '6'0 ., 2>, 12'D*,8**2'>/*-^ 5 '620'/6 , '6'0 + . 12'1 ',)*' >/*-5 ' 2,1'>/6..*.' 1 ' 0 *-*2,'-629'86.'5-60;6// '0*+*/1=*0% ()*'*6-/ *.,' 620'?1.,' ?=1-,62,'1 ',)1.*' 0 ., 2>, 12.'86.',)6,'D*^ ,8**2'D .)1=' 620'=-*.D ,*-' M.**' 8 ' 3!' 0 ',)*.*' 8*-*' 600*0' 2',)*'>1;-.*' 1 ', ?*'0*6>12' .;D0*6>12'C 6->)D .)1='=- ?6,*'=6,- 6->)'=1=*'620'6'2; ?D*-' 1 ' 1 >*-.' =-*>*0 25',)*' .;D0 0>126,*% 6>)'>/6..' 86.' 2 , 6,*0' 2,1' 1 >*' D ' 6' .=*>6/ 1-0 26, 12'M.**' < L 3!' 2'5*2*-6/',)*' +6- 1;.' >/6..*.' 6>>1-0 25',1' ,)*') 5)*-' 620'/18*-' 0 52 , ' 1 ',)*' 1-0*-.' 8*-*' 0 ^ + 0*0' 2,1',)*' " " '620' '>/*-5 ',)*' /6,,*-' *?^ D-6> 25',)*' '2 ' '620' ' ',)*' 1-?*-',)*' .;D0*6>12. '0*6>12. '=- *.,. 'D .)1=.% $=' ,1',)*' N,)'>*2,;- ',)*' .;D0*6>12.'8*-*'>1;2,*0'6?125' ,)*'/18*-'>/*-5 7' ()*'>6212'/68'+*- ' -*_;*2,/E'6=^ =/*.',)*' 26?*' '*L>/;.+*/ ',1',)*'/18*-'>6..*.' 1',)*' >/*-5 '0*. 526, 25'*6>)') 5)*-' >/6..'M.;D0*6C >12.'0*6>12.''=- *.,. 'D .)1=.X D ' ,.' .=*> 6/ 26?*% # " 'M1-' + +8 >/*-5 ' .' >1?2/ ';20*-.,110',1' ?*62I'D .)1=.' 1-' =-*/6,*.'M_O +%X '620' 'M1-' (8 >/*-5 ',)*' 1),)*-.% 2',)1.*')>);->)*.'8) >)')6+*' ?126., >' 2., ,;, 12. ',)*' >/*-5 '6-*' 6/.1'0 + 0*0' 2,1']$O ' ' >/*-5 '-*5;/6-' D* 25' ?*?D*-.' 1 '1-0*-.' 620' >125-*^ 56, 12.'8)1'D 20',)*?.*/+*.',1'>1?12'-;/*.'620'.*>^ ;/6-',)1.*'8)1')6+*'>)6-5*'1 '=6- .)*.% 2',)*');->) 1' ;.. 6',)*' >1??12' 26?*' 1 ',)*' -*5;/6-' >/*-5 ' .' ,)*' +' >/*-5 '1;',1'8) >)',)*') 5)*-'*>>/*. 6., >6/ 0 52 ,6- *.'6-*'>)1.*2'8) /*',)*.*>;/6-'>/*-5 'M=- *.,. ' 0*6>12.'-*60*-.'620'.6>- .,62.X6-*'>6//*0' " '>/*-5 % % 6 % ' ' ' /68.'?60*' D ' 12.,62, 2*' 620' >12 -?*0'D ' 6/*2, 2 62' / '4-6C , 62'620'()*101. ;.',)*' 4-*6,',)*' >/*-5 '8*-*' *L^ *?=,*0'M %X -1?'6//>+/620'?;2 >=6/1 >*.',)6,' ,)*' ?5),'5 +*',)*?.*/+*.',1',)*' -' -*/ 5 1;.'0;,*.% MK%X -1?'>12,- D;, 12.',1'=;D/>'8 1-9.% MN%X -1?'6' +6- *, '1',6L*.'620' ?=1.,.% M %X -1?'?/,6- '.*-^ +>*',)1;5)',) .' .'21,'..6,*0'2'.1'?62 '81-0.% M %X -1?'6==*6-62>*' 2'>+/>1;-,.% 'D .)1='>1;/0'21,' D*' 1-->*'0',1'5 +*';D/>',*., ?12 T D;,' ?5),'D*' ,69*2' 2'=-+6,* ,)1;5)',)*'D .)1=' 86.'21,'1D/5*0',1' ,69*' 1-?6/16,)'D;,'12/ ')60',)*' 41.=*/.'D* 1-*') ?% >1;-5 25'620',1-,;-*' 8)>)'? 5),'D*' 6==/*0',1'1,)^ *-'8 ,2*..*.'>1;/0'21,'D*' 2/>,*0'12',)*'>/*-5 % 1-' >1;/0',)*'>+/>1;-,.',69*'>152 [62>*' 1 '=;-*/ '*>>/*^ . 6.,>6/>6;.*.'M(D*101.% '/D% L+ ',,%K'/*5% KNT' B;.,2 62'7 'QNX',)1;5)',)*' >1;/0' 2,*- *-*' 2' >- ? 26/?6,,*-.'620' 2' >6.*.' D*,8**2'6' >/*-5 ?62' 620'6'/6 ?621T 1-',)*' /6 ?62'86.'21,'D1;20',1'1D* ' 62'*>>/*. 6., >6/,- D;26/% .)1=.'8*-*' 1 ,*2'6-D ,*-.' 2' 0 .=;,*.'D;,'12/ '8)*2'D1,)'=6-,*.' 65-**0',106 ' ,)*' ?6,,*-' D* 1-*',)*?'620',)*2',)*' *= .>1=6/.*2^ ,*2>*' >1;/0' D*' =;,' 2' 1->*' D ',)*' > + /=18*-% 2' >6.*.'1 '/ *'620'0*6,)'>/*- >6/2,*-+*2,12'86.'..-A7,C / '=-1) D ,*O% I ()*'=- + /*5*.' 8)>)',)*' >/*-5 '*2A1 *0' ;20*-',)*' 62> *2,' ?;2 >=6/ /68.' 1 ' 25/620'8*-*' 2;?*-1;.T D;,' D* 25' ?;>)' 6D;.*0'D ',)*' =1= .)'>/*-5 ',)*' 8*-*' 5-*6,/ '>;-,6/*0'6,',)*' * 1-?6,12% '()1.* 8)>)'218'-*?6 2' 6-*' =*-.126/'.:>)' 6.' >*2' 21,'D* 25'>1?=*//*0',1'.*-+*'12'A;-*.'1-',1'6==*6-'6,' ,)*'.)*- .'1-'>12.*,;*2,/ G'6,',)*'>1;-,C/**,'1-'+*8' 1 '-629=/*05*% /*-5 ?*2'6-*'*L*?=,'6/.1'-1?',*?^ =1-6/1 >*.' 2'-*56-0',1',)*'-'>12, 2;6/&,* 062>*' 12',)*'-'.6>-*0' ;2>, 12.% &)/*'6,,*20 25'0+2*' .*-+>*',)*'6-*'=- + /*5*0'-1?'6--*.' 2'>+/.;', .,6,%7' 086-0' '>)6='+'620' >)6-0' '>)% L+% ,')6.'D**2'60A;05*0',)6,',) .'*L,*20.',1',)*'51 25',1' >12, 2;25'6,'620'-*,;-2 25'-1?'>*/*D-6, 25'0+2*' .*-+>*% ()*'*>>/*. 6., >6/5110.'1 '6'>/*-5A;262'>62C 21,'D*'/*+*0'D ',)*'.)*- T D;,'12') .'?69 25') .'-*^ ,;-2',1',)*'8-,' ' ',)6,',)*'=6-, '.'6'>/*-^ 5 ?62' " '6)+25'21'/6 C **',)*2',)*'.;D.*^ _;*2,'=-1>*..'?;..'D*'0 -*>,*0',1',)*'D .)1=' 1',)*' 0 1>*.*'8)1'D '+-,;*',)*-*1 '.*_;*.,*-.',)*' .6?*% 2',)*' :1;.*'1 1?? 620'/0' 6-;?% ,'86.',)*2'*26>,*0',)6,'21'=-*.,'21-' 0*6>12'21-'? 2.,*-'1',)*' >1,>)');->)'.)6//D*'>6^ =6D/*' 1'.*-+ 25' 2' 6-/6?*2,T ,)6,',)*-' */*>, 12 .)6//D*'+1 0'620',)*?.*/+*.'/6D/*',1'6'=*26/,'1' ' 1',)*' >/*-5 '6'06 ' 2',)*' *+*2,1',)*-' * ,)*-' .,,25'1-' + ,25% ,'81;/0'.**?',)*-*1-*'6.' 2',)*' >6.*' 1' ,)*' D .)1=' 1' L*,*-'656 2.,')1-*',)6,'21'12*' >62' 0*2;0*') ?.*/'1')1/ '1-0*-.% 6-1;.'6>^ /6?*2,'),)6+*'6/.1'-1?',)*', ?*'1 ':*2-' 'D** ' =6..*0',1'=-*+*2,'>/*-5 ?*2' -1?'*2565 25' 2',-60*')1/0 25'6-?.'9**=25',62'1-D-*8')1;.*.'6//'D'8)>)' 6-*' .,6,*0'*L=/6 2*0' 620' >12.1/06,*0'D ' ,)*' 4*1-5*' '>)%L*LJ'M 60*'6 ' ' '.'+X% 1-' 6'=*>;/6-'=- + /*5*' .**' # '8 ' !

,)* ' 1;5),' ,1' >12. 0*- I'26?*/ ' ,)*' 2,*//*>,;6/ 620' ' ,1' ,)*' >/*-5 ' ,)6,' .*2,*2>*' 1 '0*6,)' > 221,'D*' =6..*0 ?1 /_;6/ >6, 12.'1 '),)*'=*-.12',1'D*' */*>,*0% 1-'62 '2;?0 1-'1 '>/*-5 6D/*'1 *2>*.' >1?^ 6-*' 1,)*-' =1 2,.' D ' 8) >)',)* -' >)1 >*' .' 0*,*-? 2*0% ? ,,*0'D ',)*?'M /6>9.,12*' ' +'N7 X%J ' 60 *' 2*' 1-' 2.,62>*' .6 .' ' ,' .'2*>*..6-A7,1'*/*>,'6'=*-^ 6 ! ' ! .%+% .12' 8)1' .' 1'6'5110' 6? / %J' 21,)*-' 81;/0'>)11.*' 6' 8*6/,) '=*-.12'D*>6;.*')*' 81;/0' 21,'-*_;-*',1'D*' .;==1-,*0'1;,'1 ',)*'-*+*2;*.'1 ',)*');-)% ',) -0' +1,*.' 1-'6'=*-.12'8)1')6.'>1?*' 1+*-' -1?'.1?*' 1==1^ . ,*' =6-, ' ' 1;-,)' ;.*.') .' 2 /;*2>*' 2' 6+1-' 1 '6' -*/6, +*' 1-' - *20% &) /*' 621,)*-'/*20.') .' 2 /;*2>*' ,1' 12*' 8)1')6.% 812' ;=12') ?' D ' 6 -' .=**>)*.' 620' ,1' 12*' 8)1')6.% 812' ;=12') ?' D ' 6 -' .=**>)*.' 620' =/6;. D/*' =-*,*2. 12.%' 2' 1-0* ' ,1' .*,' 6. 0*' ,)*.*' 6D;.*.' .1?*' D .)1=.' >/6 ?*0' 62' *L>/;.+*' - 5),' 1 ' 6==1 2, 25',1' .= - ,;6/' 1 >*.% 2',) .' 86 ',)* '56+*' 1 *2>*' ,1' ,)*' =*1=/*% 2',)*' 6, 2' 620' - >62' >);->)*.' 62' 6,,*?=,' 86.' ?60*' ,1' .*>;-*' 5-*6,*-'. ?^ =/>, ' 2' */*>, 12.' D ' 2,-10;> 25' ! () .' 0 0' 21,')18*+*-'/125' >12, 2;*% 21,)*-' =/62' 86.' ,1' +*.',)*' */*>, 12' 2' ?*?D*-.' 1',)*' /6 '6-.,1>-6> ;',)*' 0*,*-? 2 25'8)1',)*.*' .)1;/0' D*' 86.' /*',1' >6=-> *' 1-'6>> 0*2,T 620',)*' -*.;/,' 86.',)6,',)*' 5),' 1 '*/*>, 12' 86.',69*2' 1;,' 1 ',)*')620.' 1 ',)*' =*1=/*' 620' +*.,*0' =6-,/ ' 2',)*')620.' 1 ',)*' -;/ 25' =18*-.' 620' =6-,/ ' 8 ,)',)*' >/*-5A'8)1' *L*-> .*0',)*' -'- 5),' > ,)*-' D ',)*' D .)1=.',)*' -' .; -6562.' 620' + >6-.' 1-' D ' >1//*5 6,*' ?**, 25.' 620',) .' +*- ' 1 ,*2' 8 ,)1;,' =6A 25' 62 ' -*56-0',1%,)*');->)' 1-' 0 1>*.*' ?2?*^ 0 6,*/ '>12>*-2*0% 1?*, ?*.',)*'*L,-61-0 26- '?10*' 1 '6' D .)1=.' 0*. 526, 25') .' .;>>*..1-' 86.' 601=,*0T 1-' .1?*' 12*' ;2>122*>,*0'8 ,)',)*' 0 1>*.*',1'8)1?'6' 01;D, />6.*')60' D**2' -* *--*0' 1-' 0*> . 12'86A.' 6/^ /18*0',1'21? 26,*% ;' 2',)*.*'>6.*.',)*'>12.*2,'1 ' ,)*'=*1=/*' 86.' =-*.;==1.*0% 6,-1265*')6.'=-*+6 /*0' . 2>*',)*' ,)'>*2,;- T D;',,)*%>1?=/*,*' 0*+*/1=?*2,' 1',) .' ,*?' 86.' 6' 81-9' 1',)*' * 5),)' 620' 2 2.)' >*2,;-*.J M.**'+ 3! J 1/*?62' " '& =' 4 1')% T 6--6-'6 !' ' .%+% /*>^ , 12'T 25)6?',! 6 !'D9% +'>)6=' T :*2- ' +!'& 4!"E!' ')% T & *,[*-' ;% &*/,*') " = ! 'SN T :*-[15'5 26 44 %'.%+% 4* .,/>)*% **' > '+ #! 4 ' (' 62' 62> *2,' =- + /*5*' 8)*-*D ,)*' =*-.12.' 1 '>/*-5 `?*2' 8*-*' *L*?=,*0' -1?'>- ? 26/=-1>*..'D* 1-*',)*'.*>;/6-'A;05*.' 2'=6-^ ,>;/6-' >6.*.' 620' >12.*>-6,*0'=/6>*.' 8*-*' *L*?=,*0' -1?'>- ? 26/6--*.,.% **' $ #! () .'=- +^ /*5*' 86.' 1-5 26$ P >12 2*0',1',)1.*' 8)1')60',)*' '" ' ' ' 1'D;',2',?*' *+*- '12*' 86.' 6>>1;2,*0'6'>/*-9' 8)1' >1;/0' -*601' .1',)6,'6,*-' ,)*' 0 ..*? 26, 12' 1 '/*6-2 25' D ',)*' 2+*2, 12' 1 '=- 2, 25',' 86.' 1;20',)6,'6.'2 6'/6 ?*2'6.'0 + 2*.' 8*-*' 60? ,,*0',1',) .'=- + /*5*'620',)*-* 1-*',)*' .,6,% ' :*2- ' ')% L '0 ., 25; .)*.'D*,8**2'/6 7.>)1/^ 6-.'620'>/*-9.' 2')1/ ' 1-0*-.' 620'0 -*>,.',)6,',)*' 1-^ ?*-' .)1;/0'21,' >/6 ?',) .' =- + /*5*' ?1-*',)62'12>*' 620' 2' 1-0*-',1',)* -' D* 25'6,*-86-0.' 92182',)* ' .)1;/0'D*' ?6-9*0' 8,)' 6' /*,,*-' 6>>1-0 25',1',)* -' 1 *2>*' 12',)*' D-682' 1',)*' /* ,',) ;?D% ,*-',) .' D;-2 25',)*' /6, '620'D* 1-*',',)*' -*6/ >/*-5 '8*-*' 0 .>)6-5*0' -1?',)*' .*2,*2>*' 1',)*' /68' 2',)*' 9 25 .' >1;-,' 620' 0*/ +*-*0' 1+*-',1',)*' 1-0 26- ' 1-' >6212^ >6/=;-56, 12% () .' =;-56, 12')6+ 25' 5 +*2'- .*',1' +6- 1;.' D;.*.'620'=-1.,,;., 12' 1 '16,). ' 86.'6D1/ .)*0' 6,',)*' * 1-?6, 12T 620' 6>>1-0 25/ 'D ',)*' ,6,'+*-. '=*-.12')6+ 25' D*2* ,' 1 '>/*-5 ' .)1;/0' 21,' D*' 0*/ +*-*0' 1+*-' ,1',)*' 1-0 26- 'D;,'6 ,*-' D;-2 25' 2',)*')620' .)1;/0' D*' 0*/ +*-*0' 1;,' 1 '=- .12' ;2/*.' ,)*' A;05*',)1;5),' ,' *L=*0 *2,',1'0*,6 2') ?',)*-*' 1-'6' / ?,*0' =*- 10% ,' 8 //D*'>1//*>,*0' -1?',)*'6D1+*' .,6,*?*2,',)6,',)*'=6-^ ,*.'*2.,/*0',1',) .'=- + /*5*'6-*'>/*-9.' 2')1/ '1-0*-.' 8 ,)1;,'D*.'620' 25'D;-2,' 2',)*'D620'8)==*0' 2*0% ?=- .12*0'1-',-62.=1-,*0% ,' .'6'=- + /*5*'=*>;/6- ,)*' ' 1;5),' ,1' >12. 0*- I'26?*/ ' ,)*' 2,*//*>,;6/ 620' ' ,1' ,)*' >/*-5 ' ,)6,' .*2,*2>*' 1 '0*6,)' > 221,'D*' =6..*0 ;=12',)*?' 1-'62 '2;?0 1-'1 '>/*-5 6D/*'1 *2>*.' >1?^ ? ,,*0'D ',)*?'M /6>9.,12*' ' +'N7 X%J ' 60 *' 6 ! ' ! .%+% /*- > ' $ '*,' $! **' ' 620' $! /*- >;.%' **' ') ! /*-9'M >,.'L L'N X% **'O 4 ! ' 1-5 26// '620' =-1=*-/ ' ,)*'26?*' 1-'12*' 1 ',)*'>/*-5 'M +%X'620' ., // ,)*'>1?7 12'6==*//6, 12' D '8)>)'>/*-5 ?*2'1',)*');->)'1 ' 25/620'0 ., 2^ 5;.),)*?.*/+*.' 2'. 52 25'62 '/*56/ 2.,-;?*2,% ' >6?*'6,*-86-0.'D '62'1D+1;.',-62. , 12',1'. 52 '6' '/*6-2*0'?62%J' ,.'?1..',;.;6/6==/ >6, 12' 2' 25/620' .',1',)6,'1 >*-'218'6'/6 ?62'D;,'12>*' 2'6//=-1D6D /C' , '62'1-06 2*0' ;2>, 126- '8)1'/*60.',)*'-*.=12.*.'1 ' ,)*' >125-*56, 12% -1=*-/ '.=*69 25' 2',)*');->)' 1' 25/620',)*' >/*-9' .'21,'62'1- 5 26/ ;2>, 126- '1' ,)*' >125-*56, 12' 2',)*' Y ' 1',)*');->)'8)>)' 2')*-'-;D- >.'.=*69.'?1../ W '21,'6/86 I.'1 ' '>/*-9.J' M1-06 2*0' =*-.12.X' 620' ,' .'>*-,6 2',)6,'.*+*-6/0;^ ,*.'6-*' D '>;.,-;/ 25' =18*-.' ?2?*^ 0 6,*/ '>12>*-2*0% 1?*, ?*.',)*'*L,-61-0 26- '?10*' 1 '6' D .)1=.' 0*. 526, 25') .' .;>>*..1-' 86.' 601=,*0T 1-' .1?*' 12*' ;2>122*>,*0'8 ,)',)*' 0 1>*.*',1'8)1?'6' 01;D, />6.*')60' D**2' -* *--*0' 1-' 0*> . 12'86A.' 6/^ /18*0',1'21? 26,*% ;' 2',)*.*'>6.*.',)*'>12.*2,'1 ' ,)*'=*1=/*' 86.' =-*.;==1.*0% 6,-1265*')6.'=-*+6 /*0' . 2>*',)*' ,)'>*2,;- T D;',,)*%>1?=/*,*' 0*+*/1=?*2,' 1',) .' ,*?' 86.' 6' 81-9' 1',)*' * 5),)' 620' 2 2.)' >*2,;-*.J M.**'+ 3! J 1/*?62' " '& =' 4 1')% T 6--6-'6 !' ' .%+% /*>^ , 12'T 25)6?',! 6 !'D9% +'>)6=' T :*2- ' +!'& 4!"E!' ')% T & *,[*-' ;% &*/,*') " = ! 'SN T :*-[15'5 26 44 %'.%+% 4* .,/>)*% **' > '+ #! 4 ' (' 62' 62> *2,' =- + /*5*' 8)*-*D ,)*' =*-.12.' 1 '>/*-5 `?*2' 8*-*' *L*?=,*0' -1?'>- ? 26/=-1>*..'D* 1-*',)*'.*>;/6-'A;05*.' 2'=6-^ ,>;/6-' >6.*.' 620' >12.*>-6,*0'=/6>*.' 8*-*' *L*?=,*0' -1?'>- ? 26/6--*.,.% **' $ #! () .'=- +^ /*5*' 86.' 1-5 26$ P >12 2*0',1',)1.*' 8)1')60',)*' '" ' ' ' 1'D;',2',?*' *+*- '12*' 86.' 6>>1;2,*0'6'>/*-9' 8)1' >1;/0' -*601' .1',)6,'6,*-' ,)*' 0 ..*? 26, 12' 1 '/*6-2 25' D ',)*' 2+*2, 12' 1 '=- 2, 25',' 86.' 1;20',)6,'6.'2 6'/6 ?*2'6.'0 + 2*.' 8*-*' 60? ,,*0',1',) .'=- + /*5*'620',)*-* 1-*',)*' .,6,% ' :*2- ' ')% L '0 ., 25; .)*.'D*,8**2'/6 7.>)1/^ 6-.'620'>/*-9.' 2')1/ ' 1-0*-.' 620'0 -*>,.',)6,',)*' 1-^ ?*-' .)1;/0'21,' >/6 ?',) .' =- + /*5*' ?1-*',)62'12>*' 620' 2' 1-0*-',1',)* -' D* 25'6,*-86-0.' 92182',)* ' .)1;/0'D*' ?6-9*0' 8,)' 6' /*,,*-' 6>>1-0 25',1',)* -' 1 *2>*' 12',)*' D-682' 1',)*' /* ,',) ;?D% ,*-',) .' D;-2 25',)*' /6, '620'D* 1-*',',)*' -*6/ >/*-5 '8*-*' 0 .>)6-5*0' -1?',)*' .*2,*2>*' 1',)*' /68' 2',)*' 9 25 .' >1;-,' 620' 0*/ +*-*0' 1+*-',1',)*' 1-0 26- ' 1-' >6212^ >6/=;-56, 12% () .' =;-56, 12')6+ 25' 5 +*2'- .*',1' +6- 1;.' D;.*.'620'=-1.,,;., 12' 1 '16,). ' 86.'6D1/ .)*0' 6,',)*' * 1-?6, 12T 620' 6>>1-0 25/ 'D ',)*' ,6,'+*-. '=*-.12')6+ 25' D*2* ,' 1 '>/*-5 ' .)1;/0' 21,' D*' 0*/ +*-*0' 1+*-' ,1',)*' 1-0 26- 'D;,'6 ,*-' D;-2 25' 2',)*')620' .)1;/0' D*' 0*/ +*-*0' 1;,' 1 '=- .12' ;2/*.' ,)*' A;05*',)1;5),' ,' *L=*0 *2,',1'0*,6 2') ?',)*-*' 1-'6' / ?,*0' =*- 10% ,' 8 //D*'>1//*>,*0' -1?',)*'6D1+*' .,6,*?*2,',)6,',)*'=6-^ ,*.'*2.,/*0',1',) .'=- + /*5*'6-*'>/*-9.' 2')1/ '1-0*-.' 8 ,)1;,'D*.'620' 25'D;-2,' 2',)*'D620'8)==*0' 2*0% ?=- .12*0'1-',-62.=1-,*0% ,' .'6'=- + /*5*'=*>;/6-



D&O #

"* ' 2.*-,*0' KH ' -*60 25.' .*2,' DX7,)*' ;' ; .' ,1' $.)*-' M< //' % - '=-1/*5% g KQ XT' & *,.,* 2' >1/^ /6,*0' ,' ,8 >*' M C SXT' (-*5*//*.' *L6? 2*0 ,' 2' Q RT' 620' (.>)*201-'=;D/ .)*0' ,)*' ,*L,' *2, -*' 2' Q K% ó ,' .' 12*' 1 ',)*' ?1..',+6/;6D/*' 2' .6>-*0' >- , ^ > . ?% ' ' >- +*2*-' ! ' 7 ' - '=% N ' ._% *>'

$ / ' 8 6 !

/*,;. ',)*' 26?*' 1 '12*' .6 0',1') 6+*'D**2' 6'D .)1='1 ' 1?*' 2',)*' -.,' >*2,;- ' D;,' 8)*,)*-',)*' .6?*' 8 ,)' 26>/*,;.' 1-' 21,' 620' 8)6,') .' =1. , 12' 2',)*' 1-0*-' 1 ' .;>>*.. 12 ' 6-*' =1 2,.' 8)1// ' ;2.*,,/*0% ' ' < 52*' .% +% 26>/*,%T & *,[*-' ; ' & */,*') D = ! ' SK T : *-[15 '5 26 +!' ; ' T 4 *.*/*-' "!# ' =*-% ' 0 +% ' >)% ' g N ' 2% % ** $!

/ ,% ** !

/ ? 6>, . '(' ! ** '(' ' $!

/ ? 6,*% ** + !

/ 2 >' (< a' 6=, . ?' 12' 6' . >9CD*0' 86.' .1' >6//*0' -1?')E> *1'6' D*0' 20' 86.' 6//18*0' 2',)*' >6.*' 1 '12*' 6/-*60 ' 6' >620 O6,*' /1-' D6=, . ?' 8)1.*' / *' 86.' *20625*-*0T' D;,' ')*' -*>1+*-*0')*' 86.' 21,')*/0' */ 5 D/*' ,1' 1-0*-.% ()*' -.,' 2..62>*' 1 '>/ 2 >' D6=, . ?' .' 1;20' 2' 6' /*,,*-' -1?' ,)*' 1?62' D .)^ 1=' 1-2*/ ;.' M6D1;,' K X' ,1' .)1=' 6D ;.' 6,' 2, ^ 1>)' 2' 8) >)' ,' .' .,6,*0',)6,' 8)*2' 1+6, 62' 8)1')60' 12/ ' -*>* +*0' " ' " % ' 2 ' 620' 8 ,)^ 1;,' 6' .;D.*_;*2,' ?=1. , 12' 1 ')620.' D ',)*' D .)1=')60' D**2' 1-06 2*0' =- *.,' D ' 6' =-*0*>*..1-' 1 ' 1-^ 2*/ ;.' ,)*' 8)1/*' >/*-5 ' 620',)*' =*1=/*')60' =-1^ ,*.,*0' 12',)*' 5-1;20',)6,' ,' 86.' 21,' =*-? ,,*0',1' 1-06 2' 62 ' 12*' 6' >/*-5 ?62' 8)1'/ 9*') ?' M 1+6^ , 62X ')60' -*>* +*0' D6=, . ?' 12/ ' ;=12' ,)*' . >9CD*0' ,)6,')18*+*-',)*' D .)1=')60' 6.9*0',1' 6//18' 62' *L>*=^ , 12' 2',) .' >6.*J' M ;.*D% # !' 6 !' 'S QX% ()*' .6?*' =- 2> =/*' 86.' L=-*..*0' 2' . ' D ',)*' 210' 1 ' *1C 6A.6-*6 '620' -*6..*-,*0' D '6' 6-.'. 210' 2' QKR% .)^ 1=' 1-2*/ ;.' 2',)*' /*,,*-' 6D1+*' -* *--*0',1' '+*2')*.^ ,6,*0',1' >12. 0*-' 6' >/ 2 >' D6=, . ?' 6.' +6/ 0' 620' * ^ > *2,'T HMIJ')*' .6 .' '1' .;>)' 6' 12*' > + 81' ,'>62' D*' .6 0' 6,'6//',)6,')*')6.' -*>* +*0' D6=, . ?%J' ? /6-01;D,.' 8*-*' *L=-*..*0' D ' 1,)*-.' T D;,' 12' ,)*' 1,)*-' D620 ' =- 62' .,-125/ ' 2. .,*0',)6,' 6' >/ 2 >' D6=, . ?' 86.' A;.,' 6.' +6/ 0' 620' * > *2,' 6.' 62 '1,)*-' I6% ! ' S ' & *,[*-';% & */,*') +!] F ! ' SNST' : *-[15 '$ %% ! ' R T *-5 *-' .% +% / 2 _;*.' 25)6? ' ,1 ! 6 ! D% L ' >)' ' g T <1.)* ?' 1' >*2, ' ' g %

/ ,;.' M * -1>X' 6' -6.)' 1;25' ?62' 8)1' 86.' >1?^ =*//*0' D ' B1.*=);.' 8)*2' >1? ?620*-' 2' 46/ /** ' ,1' >;' 1 '12*' 1 ') .' 182' D620.' 6.' 6' =;2 .)?*2,' 1-' *L^ > , 25' 6' -*+1/,' 2' (D*- 6.' MB1.*=)% 1' g N T & 6-' ' KN X%

/169' ?*& ' .6% / L ' ' */.*8)*-*' -*2^ 0*-*0' 2' 1;-'+*-. 12' -1D* J' 1-' ' ?62,/*JX' 86.' 62' ;=^ =*-' 56-?*2,' 1-' -1D*' M1 '>1,,12' HX' 8) >)' *L,*20*0' D*^ /18',)*' 92**.' 1=*2' 6,',)*',1=' .1' 6.',1' D*' 0-68 2' 1+*-' ,)*')*60' 620')6+ 25' 6-?C)1/*.% ,' 86.' 81-2' D I,)*') 5) C=- *..' ;20*-',)*' *=)10' M L10% LL+ ' N XT' 6/.1' D ' 9 25.' 620' =*-.12.' 1 '0 ., 2>, 12' M ' 6?% L+ ' K T B1D' 'K T ' KX' 620' D ' 81?*2' MK' 6?% L ' QX% **'

/ / !

1' 2',)*' *8' (*.,6?*2,' ,)*' 81-0' O% 1' -*2^ 0*-*0' >/169J' 2' <6,,' +' .' 2',.' =/;-6/ 1-?' ,69*2' 1-' 56-?*2,.' 2' 5*2*-6/ 2' 1,)*-' =/6>*.' M<6,,' L+ ' KT' LL+ ' S T >,.' + ' QT' L ' NRX% ()*' >/169' 1-' % 2 ' M >,.' L ' NRX' 86.',)*' 1;,*-' 56-?*2,' M0 ^ *-*2,' -1?',)*' >16,J' 1-' 1' .**?. ,1') 6+*' D**2' 6' /6-5*' = *>*' 1 ' 811//*2' >/1,)' 2*6-/ ' ._;6-*' 8)>)' 86.' 8-6==*0' -1;20',)*' D10A7 1-' 6.,*2^ *0' 6D1;,' ,)*' .)1;/0*-.' 620' .*-+*0' 6/.1' ,1' 8-6=',)*' 8*6-*-' 2' 6,'2 5),% ,' ? 5),'21,' D*' ,69*2' D ' 6' >-*0^ ,1-' M L10% LL ' KS K X',)1;5)',)*',;2 >' >1;/0' M<6,,% ' X' 8)>)' 6>,'5 +*.' =*>;/ 6-' 1->*',1',)*' 2A;2>, 12' 1 '1;-' 1-0% **' ' !

()*' d1-F '-*20*-*0' '>/169J' 2' K' (-1' +' N' 86.' ,)*' 1?62'% *6',) >9' ;==*-' 56-?*2,' ;.*0' >) * C

,2*2,' (+) >)' & *,.,* 2' ;22*>*..6-/ ' ?=;52.% ,*-' *[6 .' 0*6,) ' ,'=6..*0' 2,1',)*' / D-6- ' 1 ',)*' D-1,)*-.' B6>_;*.' 620' *--*' 0;' ;AW ,)*' 1-?*-' 1 '8)1?' D* 25' / D-6- 62',1',)*' 9 25' 1 ' -62>*' 620' 0 25' 2' S S' ,' +6' =;->)6.*0' 620' 0*=1. .*0' 2',)*' 1 6/ D-6- '6,' 6- .% 2',)*' *6-/ ' =6-,' 1 ',)*' * 5),**2,)' >*2,;- ' IN '/*6+*.' 8*-*' >;,'1;,'1 ',) .' < % D '81)2' ?12' 62' 6=1.,6,*' =- *.,' 8)1' .1/0' 12*' 1 ',)*2 ',1' ,1.>)' 2' : 1/^ /620' 620',)*' 1,)*-.' */' 2,1',)*')620.' 1 ',)*' D D/ 1^ 5-6=) >6/ 6-/ 1 ' L 1-0% 1,)',)*.*' =;->)6.*-.' 12' /*6-2 25',)*',)* ,' -*.,1-*0',)*' /*6+*.',1',)* -' =-1=*-' =/6>*%

[6' ?60' .1?*' ;.*' 1 ',) .' 01>;?*2,T & 6/,12 .

D&O #

"* ' 2.*-,*0' KH ' -*60 25.' .*2,' DX7,)*' ;' ; .' ,1' $.)*-' M< //' % - '=-1/*5% g KQ XT' & *,.,* 2' >1/^ /6,*0' ,' ,8 >*' M C SXT' (-*5*//*.' *L6? 2*0 ,' 2' Q RT' 620' (.>)*201-'=;D/ .)*0' ,)*' ,*L,' *2, -*' 2' Q K% ó ,' .' 12*' 1 ',)*' ?1..',+6/;6D/*' 2' .6>-*0' >- , ^ > . ?% ' ' >- +*2*-' ! ' 7 ' - '=% N ' ._% *>'

$ / ' 8 6 !

/*,;. ',)*' 26?*' 1 '12*' .6 0',1') 6+*'D**2' 6'D .)1='1 ' 1?*' 2',)*' -.,' >*2,;- ' D;,' 8)*,)*-',)*' .6?*' 8 ,)' 26>/*,;.' 1-' 21,' 620' 8)6,') .' =1. , 12' 2',)*' 1-0*-' 1 ' .;>>*.. 12 ' 6-*' =1 2,.' 8)1// ' ;2.*,,/*0% ' ' < 52*' .% +% 26>/*,%T & *,[*-' ; ' & */,*') D = ! ' SK T : *-[15 '5 26 +!' ; ' T 4 *.*/*-' "!# ' =*-% ' 0 +% ' >)% ' g N ' 2% % ** $!

/ ,% ** !

/ ? 6>, . '(' ! ** '(' ' $!

/ ? 6,*% ** + !

/ 2 >' (< a' 6=, . ?' 12' 6' . >9CD*0' 86.' .1' >6//*0' -1?')E> *1'6' D*0' 20' 86.' 6//18*0' 2',)*' >6.*' 1 '12*' 6/-*60 ' 6' >620 O6,*' /1-' D6=, . ?' 8)1.*' / *' 86.' *20625*-*0T' D;,' ')*' -*>1+*-*0')*' 86.' 21,')*/0' */ 5 D/*' ,1' 1-0*-.% ()*' -.,' 2..62>*' 1 '>/ 2 >' D6=, . ?' .' 1;20' 2' 6' /*,,*-' -1?' ,)*' 1?62' D .)^ 1=' 1-2*/ ;.' M6D1;,' K X' ,1' .)1=' 6D ;.' 6,' 2, ^ 1>)' 2' 8) >)' ,' .' .,6,*0',)6,' 8)*2' 1+6, 62' 8)1')60' 12/ ' -*>* +*0' " ' " % ' 2 ' 620' 8 ,)^ 1;,' 6' .;D.*_;*2,' ?=1. , 12' 1 ')620.' D ',)*' D .)1=')60' D**2' 1-06 2*0' =- *.,' D ' 6' =-*0*>*..1-' 1 ' 1-^ 2*/ ;.' ,)*' 8)1/*' >/*-5 ' 620',)*' =*1=/*')60' =-1^ ,*.,*0' 12',)*' 5-1;20',)6,' ,' 86.' 21,' =*-? ,,*0',1' 1-06 2' 62 ' 12*' 6' >/*-5 ?62' 8)1'/ 9*') ?' M 1+6^ , 62X ')60' -*>* +*0' D6=, . ?' 12/ ' ;=12' ,)*' . >9CD*0' ,)6,')18*+*-',)*' D .)1=')60' 6.9*0',1' 6//18' 62' *L>*=^ , 12' 2',) .' >6.*J' M ;.*D% # !' 6 !' 'S QX% ()*' .6?*' =- 2> =/*' 86.' L=-*..*0' 2' . ' D ',)*' 210' 1 ' *1C 6A.6-*6 '620' -*6..*-,*0' D '6' 6-.'. 210' 2' QKR% .)^ 1=' 1-2*/ ;.' 2',)*' /*,,*-' 6D1+*' -* *--*0',1' '+*2')*.^ ,6,*0',1' >12. 0*-' 6' >/ 2 >' D6=, . ?' 6.' +6/ 0' 620' * ^ > *2,'T HMIJ')*' .6 .' '1' .;>)' 6' 12*' > + 81' ,'>62' D*' .6 0' 6,'6//',)6,')*')6.' -*>* +*0' D6=, . ?%J' ? /6-01;D,.' 8*-*' *L=-*..*0' D ' 1,)*-.' T D;,' 12' ,)*' 1,)*-' D620 ' =- 62' .,-125/ ' 2. .,*0',)6,' 6' >/ 2 >' D6=, . ?' 86.' A;.,' 6.' +6/ 0' 620' * > *2,' 6.' 62 '1,)*-' I6% ! ' S ' & *,[*-';% & */,*') +!] F ! ' SNST' : *-[15 '$ %% ! ' R T *-5 *-' .% +% / 2 _;*.' 25)6? ' ,1 ! 6 ! D% L ' >)' ' g T <1.)* ?' 1' >*2, ' ' g %

/ ,;.' M * -1>X' 6' -6.)' 1;25' ?62' 8)1' 86.' >1?^ =*//*0' D ' B1.*=);.' 8)*2' >1? ?620*-' 2' 46/ /** ' ,1' >;' 1 '12*' 1 ') .' 182' D620.' 6.' 6' =;2 .)?*2,' 1-' *L^ > , 25' 6' -*+1/,' 2' (D*- 6.' MB1.*=)% 1' g N T & 6-' ' KN X%

/169' ?*& ' .6% / L ' ' */.*8)*-*' -*2^ 0*-*0' 2' 1;-'+*-. 12' -1D* J' 1-' ' ?62,/*JX' 86.' 62' ;=^ =*-' 56-?*2,' 1-' -1D*' M1 '>1,,12' HX' 8) >)' *L,*20*0' D*^ /18',)*' 92**.' 1=*2' 6,',)*',1=' .1' 6.',1' D*' 0-68 2' 1+*-' ,)*')*60' 620')6+ 25' 6-?C)1/*.% ,' 86.' 81-2' D I,)*') 5) C=- *..' ;20*-',)*' *=)10' M L10% LL+ ' N XT' 6/.1' D ' 9 25.' 620' =*-.12.' 1 '0 ., 2>, 12' M ' 6?% L+ ' K T B1D' 'K T ' KX' 620' D ' 81?*2' MK' 6?% L ' QX% **'

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1' 2',)*' *8' (*.,6?*2,' ,)*' 81-0' O% 1' -*2^ 0*-*0' >/169J' 2' <6,,' +' .' 2',.' =/;-6/ 1-?' ,69*2' 1-' 56-?*2,.' 2' 5*2*-6/ 2' 1,)*-' =/6>*.' M<6,,' L+ ' KT' LL+ ' S T >,.' + ' QT' L ' NRX% ()*' >/169' 1-' % 2 ' M >,.' L ' NRX' 86.',)*' 1;,*-' 56-?*2,' M0 ^ *-*2,' -1?',)*' >16,J' 1-' 1' .**?. ,1') 6+*' D**2' 6' /6-5*' = *>*' 1 ' 811//*2' >/1,)' 2*6-/ ' ._;6-*' 8)>)' 86.' 8-6==*0' -1;20',)*' D10A7 1-' 6.,*2^ *0' 6D1;,' ,)*' .)1;/0*-.' 620' .*-+*0' 6/.1' ,1' 8-6=',)*' 8*6-*-' 2' 6,'2 5),% ,' ? 5),'21,' D*' ,69*2' D ' 6' >-*0^ ,1-' M L10% LL ' KS K X',)1;5)',)*',;2 >' >1;/0' M<6,,% ' X' 8)>)' 6>,'5 +*.' =*>;/ 6-' 1->*',1',)*' 2A;2>, 12' 1 '1;-' 1-0% **' ' !

()*' d1-F '-*20*-*0' '>/169J' 2' K' (-1' +' N' 86.' ,)*' 1?62'% *6',) >9' ;==*-' 56-?*2,' ;.*0' >) * C

' 2' ,-6+*// 25 ' 2.,*60' 1 ' ,) *' ,156 ' 6.' 6' =-1,*>, 12' -1?' ,) *' 8*6,)*-% ,'.**?.',1')6+ *' D**2' 6'/125' >/169' 8 ,)1:,' ./**+*.' 8 ,)' 12/ ' 62' 1=*2 25' 1-' ,) *') *60% ,) *-.' . ;==1.*' ,' ,1')6+*' D**2' 6' ,-6+*// 25CD65' 1-' =1-,?62,*6;' 1-' D119.' *,>% .>;.. 12.)6+*' D**2' 8- ,,*2' D ' -*22*-' M4 *..' X' /* 2.*' M ,*D ' dS7 X' 69*?6>)*-' M: */?.,% KKX' ;.?> *-' M4 - =) ' N X' *>)2*-' M.' % QX% **' '*,>% /10 ' "' 1-' N1 J +' B1D' + ' '6' %' 1 ' *6-,)T %+ +(' B1*/' ' '6' % ' 1 *6-,)T (B1D' LL ' NNT' LLL+ ' NQ' 6' ' 1 '*6-,)T .6- ;- ',1 D-*69'>/10. J' .6% LL+ ' K T' : 1.% d ' T' ,1' ')6--18 J' B1D' LLL L ' '=-1=' ,1' + ',) *' =/1;5)*0' */0% **' $ $! /1 .,*-'M 6,%>/6;.,-;?' ' 8! ()..',*-?' .'1 ,*2' 6==/*0',1' 6' 'M_% +%X% ,' 86.' 1- 5 2^ 6// '6==/*0',1',) *' =1->)' 1',) *' '1-' % 'M_% %x' 1 ' 6' >);->)' \.**' =/62' 1 ' 62> *2,' >);->)' ;20*-' ' $ -'' > 3 ' 2' 8) >)' 2,*-?*2,.' 8*-*' 2A60>' D* 1-*' ,' D*>6?*' ;.;6/',1' D;- ' 2' ,) *' >);->)' ,.*/ % ()*' ,*-?' ' .'218' ?1-*' ;.;6// ' ;.*0' 2' 25/ .)',1' 20 >6,*' ,) *' 6->60*' .;--1;20 25',) *' >1;-,'*2>/1.*0' D ',) *' D; /0 25.' 1 ' 6' ?126.,>' *.,6D/ .)?*2,% ().' *2>/1.*0' .=6>*' 86.' 5*2*-6// ' 6' 56-0*2' 1-26?*2,*0' 8 ,)' 6' 1;2,6 2' 620' .)-;DD*- 'D;,' ,'1 ,*2' .*-+*0' 6/.1' 6.' 6' D;-6/C=/6>*' 1-' /*60 25' ?*?D*-.' 1 ',) *' D-1,)*-^)110% ()*' 6->60*' M1-' >/1 .,*-X' 2' ,) *' -.,' 1-' -.,' 620' .)*-' ?*0 ,6, 25' 1-' .,;0 25' 620' 1-')*6/,)' -*>-*6^ , 12' 620' >12+*-.6, 12% 2',) *' *2*0 >, 2*' ?126.,*-C' *.',) *-*' 86.' -*60' 2',) *' >/1 .,*-.' *6>)' 06 '6' =1-, 12' 1',) *' -*5;/6, 12.' 1',) _' 1-0*-.' 620',) *' *2, -*' D10 '1' ,) *' -*5;/6, 12.' D* 1-*' ,) *' 6..*?D/*0' D-1,)*-)110' 1;-' ,?*.' 6' *6-% ,12*' .*6,.' 8*-*' ;.;6//E' =/6>*0' D* 1-*' ,) *' 8 2018.' 620' >*//.' 1-' .,6//.' 1-' .,;0 ' .*,' 2,1',) *' 86// 1',) *' D; /0 25' 1 ' -1?',) *' >/1 .,*-% :*/>.' 620' 1,)*-' 1DA*>,.' 1 '81-.) =' 8*-*' .1?*, ?*.' =/6>*0' 2',) *' >/1 .,*-' 1-',) *' >1;-,% ()*' 1/*6.,*-.')60' 1 ,*2' 5-*6,' 6->),*>,;-6/ D*6;, ' 620' .1?*' 1',) *?' 6-*' +*- ' ?^ =1-,62,' 2',) * -' D*6- 25'12',) *').,1 7'1 '6->),*>,;-*% 6-5*' ?126.,*- *.' 1 ,*2')60' .*+*-6/ >/1 .,*-.% ()*' ,*-?' '86.' 2',) *?'6==/ *0'6/.1',1',) *' >1+*-*0' =6..65*C86 '/*60 25' -1?' 12*' =6-,' 1 '6' ?126.,>' *.^ ,6D/ .)?*2,',1' 621,)*-% '7&*,[*-' ;% & */,*' -> >8%C !+ ' KKQ (C4 (:',) *' >1;-,' 1-' 1=*2' .=6>*' *2^ >/1.*0' D '6' >/1 .,*-'M_% +%X% /19*% **' ! /12 ,*.% **' ' 'Q+ ' " L # ' < ' ? ! /1.*' 1?? ;2 12% **' $! /1.*,' " %% "(' 6' 'B1*/' SX' 6 D- 06/' >1;>)' 8 ,)' >;-,6 2.' -*20*-*0' D ' 1;-,-62.6^ ,1-.' '>)6?D*-J' 2' .6% L L ' % **' 8 ! ()*' B*8.' ., /' *?=/1 ',) *' .6?*' 81-0' ,1' 0*. 526,*',) *' >621=' ;20*-' 8) >)' 6?125',)*?',) *' 2;=,6/ >*-*?12 ' .' =*- 1-?*0% **' ! ()*' 81-0' 2',) *' '(% -*20*-*0' '>/1.*,J' .' % ' . 52 725' =-1=*-/AJ6' =" 'M6.' 2' ;9*' L 'K XT')*2>*' 62 '=/6>*' 1 '=- +6> '620' -*, -*?*2,'M<6,,'+' S T' ;9*' L 'NX% **' + # ! /1,) 25' M56-?*2,' "(' % 8!' ?^ ?*0 6,*/ '6 ,*-',) *' 6// '1;-' -.,'=6-*2,.' >/1,)*0',) *?^ .*/+*.' 8 ,)',) *' /*6+*.' 1 ',) *' 5C,-**T 6 .*-86-0.' 8 ,)',) *' .9 2.' 1 '62 ?6/.% ;D.*_;*2,/ '.1?*' ?*,) 10' 8*' ?6 ',;==1.*' 86.' 0 .>1+*-*0' 1-' ?6,, 25', 15*,) *-',) *')6 -' 1 '62 ?6/.' 620' ?69 25' 6' .1-,' 1 ' */,C>/1,) % 6,*-' ., // ,) *' 6-,' 1 '8*6+ 25' 86.' 2,-10;>*0' 620' 6' 8*D' 86.' 1-?*0' >1?D 2 25',) *')6 -' 1 '62 ?6/.' 8 ,)',) -*60.' 0-6 82' -1?' 811/' >1,,12' 1-' /6L% ()*' 6-,' 1 ' ?62;' 1 ' ?D1/ [*',) *' 5-*6,' 62, _;, ' M4*2% L A' KNT' L$' KT' B1D' + ' SX% ()*' 5 =, 62.' 8*-*' >*/*D-6,*0' 1-' .;>)' ?62; 6>,;-*.% ()*' :*D-*8.' 8) /* 08*// 25' 6?125',)*?' /*6-2*0',)C 6-,' 620' *+*2' *L>*//*01,)*-',*6>)*-.' M')-1;% +' KNX% **' Q" ! &) /*' 8620*- 25' 2',) *' -6D 62' 8 /^ 0*-2*..' ,) *' =-*=6-*0',) *' ?6,*- 6/.' 1-' >1+*- 25',) *' ,6D*-26>/*' 620' 8-1;5),' .1?*' 1 ',) *?' 8 ,)' *?D-1 0^ *- % 1,,12'MHX'>/1,)' 86.'*.,**?*0' ?1.,'+6/;6D/*' 2*L,' ,1',) 6,' ,711/*2' 620' / 2*2% ()6,' 8) >)' 86.' ?62; 6>^ ,;-*0' -1?',) *')6 -' 1 '62 ?6/.' 86.' >12. 0*-*0' 1 '/*6.,' +6/;*% /9' .' 21,' ?*2, 12*0' 6,' 6' +*- ' *6-/ '=*- 10' ;2/*..' ,' D*' .1' 2' [*9% L+ ' N% () .')18*+*-' .' >/*6-',) 6,' /*L620*-' 1;20' . /9.' 2' *-. 6' 620' ,' .' ?1 *' ,) 62' =-1D6D/*' ,) 6,',) *' <*0 62' 0-*..' 601=,*0' HE' ,) *' *-. 62.' ;20*-' -;.' 86.' ./9% ,' 86.' 21,' 2,-1^ 0;>*0' 6?125',) *' 26, 12.' 1 ' ;-1=*' ;2, /' 6/6,*' =*- 10% M **' ,) *.*' +6-1;.' ?6,*- 6/.' 2' ,) *' -' 6/=)6D*, >6/' 1-^ 0*-%X' 46-?*2,.' 81+*2' 1-' 0 *0' 1 '+6-1;.' >1/1-.' 8*-*' ?;>)' *.,**?*0' 2' ,) *' 6.,% ()*' 8*-*' 5*2*-6// ' ?60*' D ' 81?*2' 620' 8*-*' 1>>6. 126// ',6..*;// '*?^ D-1 0*-*0' M4*2% LL+ ' NT' L10% LL+ ' CQT' LLL L N T B;05% ' N T -1+' LLL ' K 7K X% ()*' .6,>' ?10*.' 1 '0-*..' 6-*' 2*6-/ ',) *' .6?*' -1?' 65*',1' 65*' 620')*2>*' ?;>)' / 5),' .',)-182' D ' ?10*?' 1D.*-+6^ , 12' 12',) *' .;DA*>,'1',) *' >/1,) 25' 1',) *' : *D-*8.% ** $! ()*' =- 2> =6/ 6-,>/*.' 1 '0-*..' 8 ,)' ?*2' 8*-*',) *' >/169 J' -1D* J' 1-' ?62V * J' >12., ,;, 25' ,) *' 1-0 26-' 1;,*-' 56-?*2,T ,) *' .) -, J' 1-' ' 1-? 25',) *' 22*-' 0-*..T ,/ >' (1' 1-',) *')*60T ,) *' 5 -0/*J' 1-' >12 2 25',) *' 56-?*2,.' 6,',) *' 86 .,T 620' ,) *' (J' 1-',) *' **,% (1',) *.*' 8*-*' 600*0' 2',) *' >6.*' 1' *?6/*.' ,) *' '? (' 1-' >12>*6/ 25',) *' 6>*' 620' 6.' 6' ?6,,*-' 1 '1-26?*2,',) *'.)18 F)*60^ 0-*.. J',) *' 2*>9/6>*. J' 'D-6>*/*,. J' 620' 629/*,. J' ,) *' A*8*//*0' - 25.' 1-',) *' *6-.' 620' 21.*' 8 ,)' 1,)*-' 1>^ >6. 126/6-, >/*.'1'* *? 26> '6.' 2' .6% M **' *6>)' 1 ',) *.*' 81-0.' 2' ,.' =/6>*%X **' ! ' ' ' ' F **' & ! ' ' ' ' (1' -*20' 1-' ,*6-' ,) *' 56-^ ?*2,.' 86.' -1?',) *' *6-/ *.,I=*- 10' 62' 6>, 12' *L=-*..^ +*' 1 ',) *') 5)*.,'5- * 'M4*2% LLL+ 'KRX% B6>1D' 620' 6+ 0' 0 0' ,' 12' +6- 1;.' 1>>6. 12.T 620' .1' 0 0' B1.) ;6 ' : *[*9 6)' 620' [-6' MK' 6?% L ' N T B1.)' + ' 4T%K' 25.' L L ' T' [-6' L' NX% ()*') 5)C=-*.,' 86.' 1-^ D 00*2',1'-*20') .' >/1,)*.' M *+% L' ST' LL ' X' =-1DC' 6D/E' ?*62 25') .' .6>-*0' 56? *2,.d =>/)6=.',) 1.*' -* *--*>7,1' 2' <6,,' LL+ 'S ' 8*-*' .;>)' 6.' 8*-*' 1-0 ^ 26- / ' 81-2' 1-' ?*-*/ ' A;0 > 6/' 620' 21,' =12, > 6/ 56-?*2,.% 1?*, ?*.' ,' 0*21,*0' 625*-' 1-' 20 526^ , 12' ? 25/*0' 8 ,)' .1--18' M .6% LLL+ ' KKT' LLL+ ' T' >,.' L + ' X% **' ! /1;0' M=-1=*-/ ' IAA7' ' '6.' ',) *' .9EW' 1;O 8' ()*' 6//;. 12.',1'>/1;0.' 2' >-=,;-*' 6.' 8*//' 6.',) *' -' ;.*' 2' . ?D1/ >6/' /625;65*' ? ;.,' D*' ;20*-^ .,110' 8 ,)'-* *-*2>*',1',) *' 26,;-*' 1',) *' >/ ?6,*' 8)*-*' ,) *' .9 '.>6->*/ '*L) D ,.',) *',-6>*' 1 '6' >/1;0' -1?',) *' D*5 22 25' 1 ' <6 ',1',) *' *20' 1 ' *=,*?D*-' 0;- 25' 8) >)' =*- 10' >/1;0.' .1' -6-*/ '6==*6-' 620' -6 2.' .1' .*/^ 01?' 6// ' 6.',1' D*' >12. 0*-*0' =)*21?*26CC6.' 86.',) *' >6.*' 8 ,)',) *')6-+*.,C-6 2' 8) >)' 6?;*/ 2+19*0' M' 6?% L ' QX' 620' 8 ,)',) *' / ,,/*' >/1;0' 21,' /6-5*-' ,) 62' 6' ?62 .')620',) *' 6==*6-62>*' 1 '8) >)' 2',) *' 8*.,' 86.' ??*0 6,*/ '21,>*0' 6.' .1?*,) 25' -*?6-96^ D/*' 21,' 12/A1' 2' ,.*/ 'D;,' 6.' 6' .;-*')6-D 25*-' 1 '-6 2' M ' 25.' L+ ' X% .' 2' .;>)' >/ ?6,*.' >/1;0.' -*^ -*.) 25/ '+* /',) *' 1==-*.. +*' 5/1-*.' 1',) *' .;2'>/1;0.' 1 ,*2' .' ?D1/ [*',) *' + 2*' =-*.*2>*' 6.' 20 >6, 25',) *' 3 =/*201-' 2.;==1-,6D/*',1' ?62' 1',) 6,' 5/1-' 8) >)' ,) *' 8)1// '1-'=6-, 6// '>12>*6/M L10% L+ ' T' LLL RT' ;?% L 'K T' LL 'ST' B1D' LL ' T' .6% L+ ' ' KT' .6' L L' X% ()*'.)*/,*-' 5 +*2' 620'-*-*' 6.' =-*.) ?*2,' 1 '-6 2' =-1? .*0' D ' >/1;0.' 5 +*',) *?',) *' -' =*>;/ 67' =-1? 2*2>*' 2' - *2,6/ ?65*- ' 620',) *' 20 + 0;6/' >/1;0' 2',) 6,' 1-0 26-/ '>/1;0/*..' -*5 12' D*>1?*.' 8*//' 0* 2*0' 620' .' 08*/,' ;=12' / 9*,) *' 20 + 0, 6/,-*-*' 2' ,) *' D6-*' /620.>6=*' M ,62/*E' $ ' ' ' =% X% ? /6-/ ' 8) *2' 6' >/1;0' 6==*6-.' -6 2I' .' 1-0 C

26- / '6==-*)*20*0'620',) ; .',)*'7*>/1;0'8 ,)1;,'-6 2II' D*>1 ?*.' 6=-1+*-D' 1-',)*' ?62'1 '=-1? .*'8 ,)1;,'=*-^ 1-?62>*'M -1+%L+ ' T .6%L+ ' T LL+'ST B;0*' KT >1?=% -1+%CILL+' X% ' ()*' >/1;0' .' 1 '>1;-.*' 6' 5;-*' 1 ',-62. ,1- 2*..'MB1D'LLL ' T :1.%+ ' X'620' 1 '8)6,*+*-' 2,*->*=,.' 0 + 2*' 6+1+-1-'); ?62' .;==/ ^ >6, 12'M 6?% ' T ' X% * 25',)*'/*6.,' .;D.,62^ , 6/ 1 ' + . D/*' 1-?.' ;20* 2*0' 2' .)6=*' 6)0' ;2-*^ .,-6 2*0' 2'=1. , 12' , '.',)*'12*'6?125'?6,*- 6/,) 25.' 8) >)' ?1.,'*6. / '. ;55*.,.' .= - ,;6/ D* 25% : *2>*' , ' .'.1',1'.=*69' ,)*'-*>152 .*0'?6>) 2*- 'D '8) >)' . ;^ =*-26,;-6/ 6==*6-62>*.' 6-*' 2,-10;>*0' M .6% L%+T T [*9% ' T *+% ' *,' =6.. ?X'1-',)*' +* / D*,8**2' ,) 25.' + . D/*' 620' 2+ . D/*T D;, ' ?1-*' *.=*> 6// ' 6' ? .,*- 1;.' 1-' .;=*-26,;-6/ >/1;0' .' ,)*' . ?D1/ >6/ .>6,'1',)*' + 2*'=-*.*2>*' ,.*/ ',)*'=)*21?*212'1 '0*, '+1;>).6 *0'D 'B*)1+6)',1',)*'=-1=)*,',)*'=- *.,' ,)*' 9 25'1-',)*' =*1=/*' M .6% L+ 'N T LLL L'ST > +'NT 6)% 'NX% 1?*, ?*.' ,) >9'06-92*..'.1?*^ , ?*.' 2,*2.*'/; ? 21; .2*..'1 ,*2'6==6-*2,7'620'*.^ =*> 6// 'D '2 5),'62'6>,;6/ -*' .' 6,,- D;,*0',1',) .' 5/1- C>/1;0%M *;,' +' T L10% L/'N T LLL 'KK' KNT K' 6?% LL ' K NX% ;>)'6'D- 5),'>/1;0'6,'62 ' -6,*' 6,', ?*.' + . ,*0' 620' -*.,*0' 12',)*' <*>C. 6,' M L10% LL L' K' NT ' 25.'+ ' T K)-12%+' T [*9% L/ ' X'620'86.'26?*0')*9 26)'M_'+%X D ' /6,*' 8- ,*-.'M.**'()1/*?622' ' ' % ' 1' =.% C KT ,*D- ,[' ' ' ' 1' : 6/% NX% ()*;.'B*)1+6)'6==*6-*0'6,' 26')',)*' ? 0.,'1'6'>/1;0' M L10% L L'RT LLL +'SXT 620'8)*2' 1.*.')60'D; /,' 620' >12.*>-6,*0',)*',6D*-26>/*' ,)*' 71;0' //*0',)*' >1;-,'6-1;20',.'1',)6,' <1.*.'>1;/0'21,'*2,*-'M L10% L/'N 'N X% ()*' .6?*')6==*2*0'6,',)*'0*0>6, 12'1' ,)*' (*?=/*'D ' 1/1?12'MK')-12%+' NT ' 25.'+ X% 1')- .,'6,') .' .*>120'60+*2,' .' 0*.>- D*0'6.' 0*.>*20 25';=12'>/1;0.'M<6,,'L+ ' T LL+' '*,>% >,.' 'RT *+% ' T L+' ' SX% (1'>1?*' 2',)*' >/1;0.'1-'8 ,)',)*' >/1;0.' 1 ')*6+*2'86.'6?125',)*' B*8.'6'9218 2'. ?D1/1' + 2*' =18*-' 620'?6A*., T 620'4-1, ;.' 1D.*-+*.',)6,1'6' . ? /6-' 21, 12' 1D,6 2*0' 6?125',)*')*6,)*2'8)1'-*=-*.*2,*0',)*-'0*, *.'>1+^ *-*0'8 ,)'6'>/1;0% M **',)*',-*6, .*.' 12',)*'. ?D1/^ >6/2?D;.' 1-')6/1' D ff >1/6' \B*2% B' .9*' Q' ' ' 1% h%' :*2>*' >/1;0.' 620' 06-92*..J 6==*6-',1'D*=;'6.'-*=-*.*2,25',)*'?A7.,*-1;.'26,;-*' 1',)*' + 2*' 1=*-6,12.' 2',)*'51+*-2?*2,'1',)*'81-/0'M .6% L>+ 'KX% /1;0.'6-*'6/.1',)*'.A?D1/1' 6-? *.'620'?;/,,;0*.'1'=*1=/*'MB*-% +' NT .6% /L' QT :*D% L ' XT 6' 5;-*' -* *-- 25',1',)*' * *>,.' 1'6' /6-5*'620'>1?=6>,'D10 '1'?*2'?1+ 25';=12',)*'.;-^ 6>*'1'62'*L,*2. +*' =/6 2'/9*'6'>/1;0' 2',)*' >/*6-' .9E% 'O6 '1'>/1;0.' .',69*2' 1-'6'.*6.12'1'>6/6?^ ,'M [*9% LLL 'NT LLL +' KX% *,*-'>1?=6-*.' 6/.*' 6>)*-.',1'>/1;0.'>6-- *0'6D1;'8 ,)'6',*?=*.','MK' *,% ' X% 1/1?12'>1?=6-*.',)*' 2 -? ,*.'1'1/0'65*' 8) >)'6-.*'.;>>*.. +*/ '12*'6 ,*-'621,)*-',1' '>/1;0.' -*,;-2 25'6 ,*-'-6 2J'M >>/*.'L 'KX% ()*' 6+1-'1'6' 9 25' .' >1?=6-*0',1' `6'>/1;0'1',)*'/6,,*-'-6 2 J'-*C' % -*.) 25'620'*-, / [25',)*'*6-,)'M -1+%L+ ' X% ()*' .;00*2'0 .6==*6-62>*'1',)-*6,*2 25'>/1;0.' -1?',)*' .9 ' .'*?=/1 *0') '.6 6)'6.'6' 5;-*' 1-',)*'D/1,, 25'1;,'1',-62.5-*.. 12.'ML/ +' KKX% **' &*? . .' ' $ 1'Q%+% + ' ' $ ' . (6H' ' '" ' L10% LLL ' R' X'1,)*-8 .*'>6//*0' ' '@ ' M87F/ L10% L 'KKX'86.',)*'6>, +*' 1-?'1 ,)*'. ?D1/>6/5/1- C>/1;0'D*,19*2 25'410.'=-*.*2>*' ,1'/*60') .'>)1.*2')1.,'1-',1'2_;-*'620'+ .,'1 *2>*.' 6.',)*'/;? 21;.'>/1;0'1',)*'.62>,;6-'*L) D,*0',)*' 6.?*' ;20*-' 62'6.=*>,' 1'-*=1.*% ()*' >/1;0'8)>)'D*>6?*' 6'=//6-'8)*2',)*')1.,'?1+*0'.**?.',1')6+*' -*.,*0'6,'1,)*-', ?*.'12',)*',6D*-26>/*'8)*2>*'410'.' .6 0',1')6+*' '>1?*'0182' ',)*'=//6-J'M ;?% L ' .1' L10% LLL 'R' X% **' + ' ,' =-*>*0*0' ,)*')1.,'6==6-*2,/'-*.,25'12',)*'6-9'8)>)'/*0',)*' 86'M L10% L 'K'H L/'NS'*,>%T ;?% L' CKNT L' N X' 1'D '2 5),',)*'>/1;0'12',)*',6D*-26>/*'D*>6?*' -*'620',)*'5;0 25'=//6-'6'=//6-'1' -*% 8 L f <10*-2'4*-?62.'*L=/6 2',' 1'6'26,;-6/ 6=^ =*6-62>*'1-'1',)*')1/ ' -*'>6-- *0'D* 1-*',)*')1.,' -1?'1 ',)*'6/,6-T D;',' .'>/*6-/ '.=19*2'1'6.'? -6>^ ;/1;.'620'5-6,* ;// ' -*?*?D*-*0' 2'6 ,*-' 65*.' D ' =1;.' .-6*/ ,*.'M .6%>+'NRT LL+ ' T & .0%L' X' 6.'6',19*2'1'410.'.=*> 6/>6-*'1',)*'-' 6,)*-.% .6 C 7 6)')6.'6'-*?6-96D/*'6//;. 12',1','M+' X'6.'6/.1' 6;/ M' 1-%d' KT .**' 6;' ' ' '" % / 1(,*D% .%6%X% '-*?6-96D/*'=6..65*' 2' ;-, ;.'M+'K g X'0*.>-=, +*'1' /*L620*-.'6-?'12',)*'?6->)' ?*2, 12.'6'D*6>12')1.,*0'12'6'=M7/*' -1?')*60C_;6-^ ,*-.'6.',)*'.526/ 1-'?6->) 25'M 6' -*'86.'1D.*-+*0' D '2 5),'6'.?19*' 2',)*'06f< ?*JX% () .'86.'=-1D^ 6D/ '62'601=, 12'1'62' 6.,*-2';.,1?% **'6/.1'62' 6>>1;2,'1'62'6==*6-62>*'1' -*" '2 5),' 2',)*'*L=*^ 0, 12'1'(?1/*12',1',6/ 'M *O% >%L+ 'SSX' ?^ /6-/ ',)*' *-. 62.';.*0'6.'6'>12.=>;1;.' .526/'62' ?65*'1',)*' .;2'*2>/1.*0'2'>-7 ,6/M ;-, ;. ' N' g RX% 6-6+62.'6-*'., // 92182',1';.*' .;>)'D*6>12.'1' -*'620'.?19*',)*'>/1;0/*..2>..'620'1,*2' .,//2*..' 1',)*'.9 '5 + 25',)*'.?19*'5-*6,'0*2. ,E'1'+1/;?*' 620'D1/02*..'1'1;,/2*%' ' ? ,)' .%+%T ,,1' .%+% *'*>. ! /1;5)'8 5 '6'& *./*A762 <*,)10..' ?.C . 126-E'86.'/1-2'6,' -60 1-0' 25/620' R'620' ;2,*0'8,)',)*'fP*./* 62');->)' 2' Q Q% 2'6'*8' AC7*6-.')*'86.'/>*2.*0'6.'6'/1>6/=-*6>)*-'620'2' Q N 86.'.*2,'8,)' -% 19*'6.'12*'1'D.')*/=*-.' 2') .' ? .. 12',1'20 6% 2' * /12'6/51+*-2?*2,'620')6+* D**2'1'2>6/>;/6D/*'+6/;*',1') .' .;>>*..1-.' 2',)*'? .^ .12' :*'86.'12*'1',)*',-62./6,1-.'1',)*':1/' >-=^ ,;-*.'1',)*' /0'620' *8'(*.,6?*2,.' 2,1',)*' 25)6^ /*.*'/625;65*'620'D*'6..,*0' 2' =-*=6-25'1',)*' =-*..'6',-62./6,12'1',)*' *8'(*.,6?*2,' 2,1',)*' 6/' ,)*'.6>-*0'/625;65*'1',)*' ;00) .,.% .'6'=-*6>)*-',1',)*'26,+*.')*'86.'?1.,'[*6/1;.'_20'.;>>*.. ;/% ' ;-25',)*' -.,' *6-'1')./6D1-.')*'812',)*'>12^ 0*2>*'620'>12+2>*0',)*'A;05?*2,'1'?62AI'0.,2^ 5;.)*0'?*2'6?125',)*')*6,)*2'620'6..*,*0',1'1-?' ,)6,'.,*?'1'*+625*/[6,12'8)>)')6.'D/*..*0'?62' ,)1;.620.'1'=*-.12.'2',)*'./620'1'>/12%J' 2' Q:Q'6/25')*6/,)'>1?=*//*0')?',1'-*,;-2',1'25^ /620% :*'0*0'2' 12012'=-/N QSN% ' ' ' Q N'=% N% /1;,'.'5+*2'2'B1.)'L' '6.',)*'-*20*-25'1' ,)*'*D% +*-D' I (' */.*8)*-*'-*20*-*0' .=1$' ,*0JX'8)>)'=-1=*-/'?*62.' % "'620'0*21,*.',)6,' ,)*'.6206/.'1',)*'4 D*12,*.'8*-*'?*20*0'6.' '1/0' 620'81-2'D '6'/125'A1;-2* ()*' >6.',>/1;,.J' M / 21 " +(' $,*-6//A7'6' HS ' 2'=*>*.X=;' ;20*-'B*-*?6).'6-?.',1'=-*+*2,',)*'>1-0.'D '8)>)')*'86.'0-682'1;,'1',)*'0;25*12'-1?'>;,,25'2,1' ,)*'/*.)'MB*-% LLL+ ' KX'8*-*'1/0',1-2'>/1,)*.'1-' /1+ .'M1/0'4*-% + ' % *% 6?1;.'86--1-TJ ?10*?'4*-% ' -' & 8',)*' -.,7)-.,62' 9 25'1',)*' -629.'86.'D1-2' % % S '6?'D ',)* 0*6,)'1')..' 6,)*-')/0*-> 'D*>6?*'9 25' ',)*' 6C / 62' -629.'8)1.*'>6=.,6/86.'(1;-26 % ,*-')6+^ 25'1+*-,)-182',)*'46//1C 1?62.';20*-' A765-;.' 2*6-' 1..12.')*',119'=1..*.. 12'1',)*'8)1/*'>1;2,-' D*,8**2',)*' 1?2*' 620',)*' 1-*' 620'*.,6D/.)*0') ?.*/' 2' 1..12.% 2' RN')*?6-- *0' /1, /06' 6>)-.,62'620'*6-2*../'0*.-*0',)*'>12+*-.12'1')*-');.D620'8)1'/9*'?1.,'1',)*' -629.'86.'.,//6')*6^ \U4/=>)h'2*6-'D6,,/*'8,)',)*' /*?622'6,'(1/D/6>' 6.'6'/6.,'-*.1;->*' 2+19*0',)*'410'1' /1, /06'1 *-^ 25',1'D*>1?*'6')-.,62'12'>120,12'1'*D,6 2 25

,)*' + >,17 7' ()*' /*?622 ' 8*-*' -1;,*0 ' 620' 12')- .,?6.' 06 ' 1 ',)*' .6?*' *6-' /1+ .' 620' .*+*-6/ ,)1;.0 0.I1 ') .' 6-? ' 8*-*' >)- .,*2*0' D ' *? 5 ; ' D .)1=' 1 ')*).% ()*' -*>*=, 12' 1 ' /1+ .' 2,1',)*');->)' D ' 6' D .)1=' 2' >122*>, 12' 8 ,)' 1?*',*20*0' 5-*6,/ ' ,1' .*WT;-*' ,)*' .;=-*?6> ' 1 ' 1-,)101L ' 1+*-' - 62 .?',1' 8) >)' 6,',)6,', ?*' ?1.,' 1',)*' & *.,*-2')- .,62' =- 2>*.' D*/125*0% 1=0' 26.,6. ;.' 8)1' >// ' 6==-*> 6,*0',)*' ?=1-,62>*' 1',) .' 56 2 ' .6/;,*0' B/1+ .' 6.',)*' ?1.,')- .,62' 9 25%J' 2' '/1+*' 1 ' >12_;*.,' >12>;-- 25' 8 ,)' [*6/ 1-' ,)*' 1-,)101L' 6 ,)' /1+ .' ?6->)*0',1',)*' .1;,)C8*.,' 1 ' 46;/656 2.,' ,)*')*-*, >' . 51,)' /6- >' 8)1?')*' 0* *6,*0' 620' ./*8' 6,' 1;5/*' 2*6-' 1 , *-.' ,69 25'=1..*.. 12' 1 ',)*' 8)1/*' >1;2,- ' 6.' 6-' 6.' 1-0*6;L' 620' (1;/1;.*T D;,')*' 86.'>)*>9*0' 6,' -/*.' 2' 'D ' ()*101- > '9 25'1 ' ,)*' .,-151,).% /1+ .' 218',119' ;=' .' -*. 0*2>*' 2' 6- .' 8)*-*')*' 0 *0' 2' % /1+ .' 2' .*+*-6/ 2^ .,62>*.' ;.*0',)*' - 62 .?' 1 '1,)*-')- ., 62' =- 2>*.' 6.' 6' =-*,*L,' 1-' 86-' 620' >12_;*.,' 620')*' .,6 2*0') .' 26?*' D ' >-;*// ' ? ;-0*- 25' 6'2;?D*-' 1 ') .' -*/6, 12.' 8)1?')*' /119*0' ;=12' 6.' 0625*-1;.' - +6/.T D;,',)*' 8- ,*-.' 1 ',)*' 1? .)');->)' 6..*-',)6,',)*' 86.' >)6.,*' 620'A;.',,186-0' D .' .;DA*>,.% ' **')6?D*-.' 6 f'.%+%T & *,[*-'2%& */,*') " = f' ' R % /1 2*'62' 62> *2,' *= .>1=6/,182' 2' ,)*' .1;,)^ *6.,' 1 ' 1-9' >1;2, ' ,**2' ? /*.' *6.,' D ' .1;,)' 1 ' 1-9% ()*' D .)1=- >' 86.' 1;20*0' 2' ,)*' ,)' >*2,;- ' D ' ,% 1/?62',)*' 6DD* ' 2' '620',)*' >6,)*0-6/ 2' ,)*' N,)' >*2,;- % *6-',)*' >6,)*0-6/ .' 6'-1;20',18^ *-'RK **,') 5)% D1;,' N ',)*' *= .>1=6,*' 86.' ;2,*0' ,1',)6,'1 1-9' .*=6-6,*0' 2' S Q'620'-*;2,*0' 2' QN % **' f' *-9*/* ',)*' >*/*D-6,*0'=) /1.1=)*-' 86.' D1-2')*-*' 620' 86.' D .)1=' 1 ' /1 2*' 2' S Q% - 29C' /* ',)*' 6.,-121?*-' 8)1'0 *0' 2' QN ' 86.' 6/.1' D .)1=' 1 ' /1 2*% 1=;/6, 12' N% /1 2*' .' 6/.1',)*' .*6,' 1 '6' 1?62' 6,)1/ >' D .)1=' 8)1'D*/125.',1',)*' *>>/*. ^ 6.,>6/=-1+ 2>*' 1 ' 6.)*/% ')6?D*-.' 6 % ! /;D' M12/ ' 12>*' 2',)*'=/;-% '620',)6,' 2',)*' =1>C -A7=)6'K' <6>>% +' '/;d8+' 86L T ' " " ' + 1 % *' .,1;,' = *>*.' 1 ' 8110X% /;52 ' 125-*56, 12' 1 ' 6' >125-*56, 12' 1 ' * 1-?*0' *2*0 >, 2*' ?129.' *.,6D/.)*0' 2' R R' 6,' /;52 'M218' /;2 ' 6',182' 1 ' -62>*' *=6-,?*2,'1 ' 612*' 620' 1 -*' */*+*2' ? /*.' 21-,)C8*.,' 1 ' <6>12X' D ' ;9*' & // 6?' 1 ' _;,62 6' 620' *-21 ' 6DD1,' 1 ' ,)*' *2*0 >, 2*' ?126.,*- *.' 1 ' 4 52 ' 620' 6;?*' % & // 6?' 56+*',1',)*' 2*8' >12+*2,.' 6// ,)*' /620.' 1-^ *.,.' + 2* 6-0.' ? //.' ./6+*.' *,>%' 1 ',)*' 01?6 2' 1 ' /;52 % ()*' >12+*2,' 86.',1' D*' 6/86 .' 1=*2' 1-',)*' AX11-' 2**0 ' 620',-6+*//*-.' 620',1'=6 '6' .?6//'622;6/ ,- D;,*',1' 1?*' ,' 86.',1' D*' *L*?=,' -1?' 0;>6/ 620' *= .>1=6/A;-.0 >, 12' D* 25' .;DA*>,',1',)*' =1=*' 620' ,)*' 6DD1 12/ % & // 6?') ?.*/'8*2,',1' 1?*',1' 1D^ ,6 2',)*!' =6=6/ .62>, 12% ()*' >12+*2,' D*562' 8 ,)' ,8*/+*' ?129.' ;20*-' *-21' 6.',.' -.,'6DD1,% $20*-') .' .;>>*..1-' 01' M_%+%X' 12*' 1 ',)*' ?1.,' 2 /;*2, 6/ ?*2' 1 ') .', ?*' 2;?*-1;.' -*2>)' >12+*2,.' ;D1-0 ^ 26,*0',)*?.*/+*.',1' /;52,',);' 1-? 25',)*' 12^ 5-*56, 12' 1 ' /;52 J' 8)>)' .112' *L,*20*0' -1?' *2C *+*2,1',1',)*' ,/62, >' >*62' 620' *?D-6>*0',)*' ?1.,' ?=1-,.' 1-' ,' >*62' 620' *?D-6>*0',)*' ?1.,' ;20*-' /;52 % /6-5*' . 210' 1 ' -*2>)' D .)1=.' 6, 2.*'0;-25',)*', ?*' 1 ' 0/1'0*>/6-*0',)*'*L*?=,12' 1 ' /;52 ' 2+6/ 0T D;,' ;20*-' 0 /1.' .;>>*..1-' ,% ;51' MO *0' RX',)*' 1/0' =- + /*5*' 86.' -*>1+*-*0% ()*' -*=;,6, 12' 1 ' /;52 ' 6,',) .' , ?*' 5-*6,/ ' 2^ >-*6.*0' 2' >12.*_;*2>*' 1 ',)-**' ?129.' 1 ',)*' >127*C' 56, 12' 6.>*20 25' 8 ,) 2' 6' D- * '.=6>*' 1 ', ?*',1',)*' =6=6/* 6 - ' 4-*51- ' '$-D62' '620' 6.>6/ % ' : ;51' 2' QR'D*562',)*' >12.,-;>, 12' 1 ',)*' D6. />6' 1 ' /;52 ' 8)>)' 6,',)6,', ?*' 86.',)*' /6-5*.,' 2',)*' 81-/0'620'.;D.*_;*2,/ '12/ '6' / ,,/*' .;-=6..*0' D ' ,% *,*-.');->)' 6,' 1?*% $20*-' : ;51',)*' >125-*^ 56, 12' 2;?D*-*0' 6D1;,' ' ?129.% : .;>>*..1-' 12, ;.' 0p' <*/5;*/' -*>* +*0',)*' - 5),' 1 ' *L*-> . 25' ,)*' ;2>, 12.' 1 '6' >6-0 26/' 620' 6..;?*0',)*', ,/*' 1 ' ->) 6DD6.' : .' 6?D, 12')6+ 25' 2+1/+*0')?' 2' 5-*6,'0 >;/,*.')*'-*. 52*0' 620';20*-,119'6'=/5- ?^ 65*',1'B*-;.6/*?T D;,'6' *8' *6-.' 6 ,*-')*' -*,;-2*0' ,119' 1-> D/*' =1..*.. 12' 1 ' /;52 ' 1' 8)>)' 6,',)6,' ?*' *,*-' <6;->*' 1 ' <12,D1 .. *-'5*2*-6// ' >6//*0' *,*-',)*' *2*-6D/*' 86.' 6DD1,' 620' ._;620*-*0',)*' ,-*6.;-*.' 1 ',)*' ?:-)% : *' 86.' 6--*.,*0' 620' ?=-.^ 12*0'6,' 1?*' 8)*-*')*0 *0'*L>1??;2>6,*0% $20*-' *,*-',)*' *2*-6D/*' /;52 '-*6>)*0',)*'?1.,'D- // 62,' =1 2,' 2' ,') .,1-E ' ?1-*',)62' '>12+*2,.' D*/125^ 25',1',)*' >125-*56, 12% 112' 6 ,*-' ,' D*562',1' 0*^ >/ 2*' *.=*> 6// ' 2' >12.*_;*2>*' 1 ',)*' -.*' 1 ',)*' ?*2^ 0 >62,'1-0*-.'620'1',)*' ?? *2.*' -)*.' 1 ',)*' >125-*^ 56, 12% *+*-6/ 6DD1,.' *20*6+1-*0',1' -*..1-*' 6' .,- >,' 0 .> =/ 2*' 620' 6DD1,' +1' 1 ' *-5E ' 2' KSR' *.,6D/.)^ *0',)*' 1//*5*' 1 ' /;52 ' 2' 6- .' 2' 1-0*-',1' 2.= -*' ,)*' ?129.' 8 ,)' 5-*6,*-' 2,*-*.,' 2' / ,*-6- ' =;-.;,.T D;,'6//',)*.*' * 1-,'/*0',1'21'=*-?62*2,' ?=-1+*?*2,% 4-60;6// ',)*' 6DD* ' */ ;20*-',)*' -;/*' 1 ',)*' -*2>)' 9 25.' 620' 2',)*' S,)'>*2,;-' ,'D*>6?*'6' '>1??*20J' M_%' 1',)*' >6-0 26/.' 620' =-*/6,*.' 1 ',)*' 6? / ' 1 ' 4;.*' 620' 86.' 12',)6,'6>>1;2,' .*+*-6/ ,?*.' 0*+6.^ ,6,*0' 0;-25',)*' > + /%86-.' 2' -62>*% /;52 '/1.,' ?62 ' 1 ' ,.' >12+*I),.' 2' >12.*_;*2>*' 1 ',)*' * 1-?6^ ,12' 620' D*>6;.*' 1-* 52' 51+*-2?*2,.' 1DA*>,*0',1',)*' >12,2;62>*' 1 '6' >122*>,12' 1 '>12+*2,.' 2',)*' -' >1;2^ ,-*.' 8 ,)' 6' -*2>)' 6DD*EF' 2' SK I' 6-0 26/ >)*^ /*;' ?60*') ?.*/ '6DD1,'1' /;52 '620',2,*0',' 8 ,)' ,)*' #1 7*56, 12'1',)*' <6;-2*.% () .'/*0',1'+ 1/*2,' 0 ..*2. 12.'6?125',)*' ?129.'1' /;52 '620',)*';2 12')60'6,*-'6',?*',1'D*'-*=*6/*0% ()*' >1--;=, 12'6 ,*-' ,) .',?*' .,*60 /' 2>-*6.*0' 620' /;52 '6.' 6' ?126.^ ,>' 2.,;, 12' 86.' 12/ '6' 8-*>9' 8)*2',)*' -*2>)' 12.,;*0,' ..*?D/ '12' *D-;6-' N R' .;==-*..^ *0' 6// ,)*' >12+*2,.% ()*' /6.,'6DD1,'1' /;52 ' 6-^ 0 26/ 1? 2 _;*' 0*' /6' 1>)* 1;>6;/0' 0 *0' 2' Q % ()*' =-1=*-, '1',)*' >12+*2,' 86.' >12 .>6,*0' 620',)*' >);-0)'.1/0' 1-' '-62>.',1',)*',1(-2' 8)>)'D-19*' ,'0182% 2/ '6' *8'? 2.'6-*/*,% *' 1-6 2 'N&"=" ' ' 'M A12' QNRXT & *,[*-'2% & */,*') =' > *8QU'6% 'S T D5 =6 # %&E1(" ,E :6.* 6" "'# f'=% KKST *620*-' " "'# ' ' T +' K R' KSN% *' 8 ! /;.,*-% *' 8 '9 8 ' '9 & / ! / .?6' I)O 81',)*' 26?*' 5 +*2' D ' ;.*D ;.' I, f'.% +% ; EI U% 8 8',1',)*')*60' 1 ',)*' :*-11=C' 1/,62' 1-' 8*.,*-2' 5;/' 1 ',)*' *0' *6',)-1;5)' 8)>)' ,)*' .-6*/ ,*.' =6..*0' 12' 0- '/620T 6>>1-0 25',1') C' /1.,1-5 ;.' I1# f'6 f' ' X' -1?' 6',182' 1 ',)6,'26?*' M>1?=% =)62 ;.' f' # f' '=% S QX' 6==6-*2,7' >1--*.=120 25' 2*6-/ ',1',)*' ?10*,2'.,*' 1 ' ;*[' M *^ /620' ; f=% X' 6'/ ,,/*',1',)*' 21-,)' 1 ' 8)>)' 6-* .1?*' ?1;20.',,//92182'D ',)*' -6D.'6.' - ') / ' M& /.12' ' '; 2' ' N X% *' > . ! 2 70;.' M V '1 ';292182'*, ?1/%T D ',)*' 1^ ?62.'1 ,*2'>6//*0' ($.' ?*2, 12*0' 2' ' <6>>% L+' KN' 6.' 12*' 1 ',)*' 4-**9' > , *.' 8)>)' >12,6 2*0'B*8 .)' -*. 0*2,.' 2' ,)*' .*>120' >*2,.;-' D* 1-*' ,)*')-., 62' *-6' 620' 2' >,.' LL+ ' '6.'6')6-D1-'8)>)'86.'=6..*0' D ' 6;/6 ,*-'/*6+ 25' < -6' 620'D* 1-*'-;22 25'220*-' ,)*'/*' 1 ' -*,*% ,'86.' 6' > , ' 1 '5-*6,'>12.*_;*2>*' . .;6,*0' 6,',)*' *L,-*?*' .1;,)8*.,' 1 ',)*' =*2 2.;/6' M<*/6' ' S' KX' 1 ' 1- .'M ,1/*? ' L' K X' 2' . 6' < C' 2_'\.** ('12' 6' =-1?12,1- ' 8)>)' =-1A*>,.' D*^ ,8**2',)*' ./620.' 1 ' 1.' 620')10*.' M / 2 '+' KRT' .** >,.' LL ' XT' 2' 6>,'62' ./620.' 1' A1 2*0' D '62'6-, >6/ >6;.*86 ',1',)*' ?6 2'/620'6.',1' 1-?',81')6-D1-.' 12** 12',)*' 21-,)',)*' 1,)*-'12',)*' .1;,)' M.** ? ,) ' ' ' ! ? '.%+%X% //',)*' -*?6 2.' 1 ' 2 0;.')18' ,)6,' ,?;.,')6+*' D** 2' 6' >,' 1' 5-*6,' ?652 >*2>*' M.** <622*-,A ' 'KN' ._%X% ,.' 2)6D ,62,.' 8*-*' 1- 5 26// ' 6>*0.*?12 62'>1/12 .,.' M:*-10' ' X% ,

Plan of Cnidus and Chart of the adjoining Coast.

was celebrated for the worship of Venus, whose famous statue, executed by Praxiteles, stood in one of her three temples there (Strabo, xiv, p. 965; Plin. *Hist. Nat.* xxxvi, 15; Hom. *Odyss.* i, 30), and was the birthplace of Etesias and other noted ancients (Pausanias, i, 1, 3). It is now a mere heap of ruins, and the modern name of the promontory is Cape *Krio* (Clarke's *Travels*, iii, 261). The place has been fully illustrated by Beaufort (*Karamania*, p. 81), Hamilton (*Researches*, ii, 39), and Texiar (*Asie Mineure*); see also Leake (*Northern Greece*, ii, 177; *Asia Minor*, p. 226), with the Drawings in the *Ionian Antiquities*, published by the Dilettanti Society, and the English *Admiralty Charts*, Nos. 1533, 1604.

Coin of Cnidus.

Coadjutor, in the churches of Rome and England, an assistant, appointed by competent authority, to any bishop, dignitary of a cathedral, or incumbent who is disabled by age or infirmity from the personal discharge of his duties. Such coadjutor may be either permanent or temporary, and in the former case may be appointed either with or without the right of succession. In the 3d century Bishop Narcissus, of Jerusalem, received as coadjutor Alexander of Cappadocia, and in the 4th century St. Augustine was appointed coadjutor of Valerius of Hippo. The first instance of the bishops of Rome having claimed any influence upon the appointment of coadjutors is found in a letter from Pope Zacharias to St. Boniface, in which permission is given to the latter to consecrate a coadjutor. The provincial councils, however, continued to claim this right, until in 1298 Boniface VIII reserved it as a *causa major* for the papal chair. The laws of the Church of Rome strictly forbade the appointment of coadjutors with the right of succession. The Council of Trent forbade it absolutely, with regard to lower benefices, but in the case of bishops and superiors of monasteries provided that, from important reasons, the popes might make an exception. The popes, however, disregarded this law, as well as so many others given by the councils, and appointed coadjutors for lower offices no less than for episcopal sees. See Wetzer u. Welte, *Kirchen-Lex.* ii, 646; Herzog, *Real-Encyklopädie*, ii, 739; Eden, *Theol. Dictionary*, s. v.

Coal (Sept. and N.T. ἄνθραξ) is a translation usually of one or the other of two Heb. words, viz., גַּחֶלֶת (*gache'leth*, literally a *kindling*, *pruina*), which signifies an ignited or *live coal*, and is of frequent occurrence (2 Sam. xiv, 7; xxii, 9; Job xl, 21; Psa. xviii, 8; cxx, 4; Isa. xliv, 19; xlvii, 14; Ezek. xxiv, 11), often with the emphatic addition of "burning" or of "fire" (Lev. xvi, 12; 2 Sam. xxii, 13; Psa. xviii, 12, 13; cxl, 10; Prov. vi, 28; xxv, 22; xxvi, 21; Ezek. ii, 13; x, 2), and פֶּחָם (*pecham'*, literally *black*, *carbo*), which properly signifies a coal quenched and not reignited, or *charcoal* (Prov. xxvi, 21, where the distinction between this and the former term is clearly made, "as *coals* [*pecham*] are to burning *coals* [*gacheleth*]"), and hence an ignited coal (Isa. xliv, 12; liv, 16). See FUEL. Two other Heb. terms (erroneously) rendered "coal" are רִצְפָּה (*ritspah'*, 'live coal," Isa. vi, 6, literally a *pavement*, as elsewhere rendered), which appears to have been a *hot stone* used for baking upon; רֶשֶׁף (*re'sheph*), properly *flames* (to which jealousy is compared, Cant. viii, 6), and hence pestilential *fever* (Hab. iii, 5; "burning heat," Deut. xxii, 24; elsewhere a "*spark*," Job v, 7; "*thunderbolt*," Psa. lxxviii, 48); and רְצָפִים (*re'tseph*, spoken of a cake "baken on the coals"), which appears to be cognate to both the preceding words and to combine their meaning, and may thus designate (as explained by the Rabbins a *coal*, Sept. ἐγκρυφία, Vulg. *subcinericus*) a loaf baked *among the embers*. See BREAD. In Lam. iv, 8, "their visage is blacker than a *coal*," the word is שְׁחוֹר (*shechor'*), which simply means *blackness*, as in the margin. In the New Testament, the "fire of coals" (ἀνθρακία, John xviii, 18) evidently means a mass of live charcoal, used in a chafing-dish for warming in the East, and so explained by Suidas and parallel instances in the Apocrypha (Ecclus. viii, 10; xi, 32). The substance indicated in all the foregoing passages is doubtless *charcoal*, although anthracite or bituminous coal has been found in Palestine in modern times (see Browning's *Report;* also Elliot, ii, 257). See MINERAL.

"In 2 Sam. xxii, 9, 13, 'coals of fire' are put metaphorically for the lightnings proceeding from God (Psa. xviii, 8, 12, 13; cxl, 10). In Prov. xxv, 22, we have the proverbial expression 'Thou shalt heap coals of fire upon his head,' which has been adopted by Paul in Rom. xii, 20, and by which is metaphorically expressed the burning shame and confusion which men must feel when their evil is requited by good. (See the essays on this text by Heinrich [Lugd. B. 1716], Wähner [Gott. 1740].) In like manner, the Arabs speak of *coals of the heart*, *fire of the liver*, to denote burning care, anxiety, remorse, and shame (Gesen. *Thesaur. Heb.* p. 280). In Psa. cxx, 4, 'coals'=burning brands of wood (not 'juniper,' but broom), to which the false tongue is compared (James iii, 6). In 2 Sam. xiv, 7, the quenching of the live coal is used to indicate the threatened destruction of the single remaining branch of the family of the widow of Tekoah suborned by Joab; just as Lucian (*Tim.* § 3) uses the word ζώπυρον in the same connection" (Smith, s. v.). See FIRE.

Coast, an inaccurate rendering in the A. V. of various terms (usually גְּבוּל, חֶבֶל, etc., Gr. ὅριον) signifying *border* (q. v.), boundary, or extremity, except in the expression "sea-coast" (חוֹף, *choph*, Ezek. xxv, 16; παράλιος, Luke vi, 17; παραθαλάσσιος, Matt. ix, 13). See SEA.

Coat (כְּתֹנֶת, *ketho'neth*, or פְּתֹנֶת, *kutto'neth*, prob-

DOL

6D/ ' ?*62 25' :')*2>*' 4-**9' LI7I7I X ,)*' 81-0' *?=/1 *0' D '1;-',-62./6,1-.' 1-',)*' 62> *2,' ' M_ %X' (+) >)' 86.' 2' ?10*-2' =)-6.*' 6' + '81-2' 2*L,' ,1',)*' .9 2' M *+' L+ ' X' D ' *?6/*.' 6.' 8*// 6.' ?6/*.' M 62, ' NT' K' 6?% L ' X' 620' *.=*> 6// ' D ' ,)*' =- *.,.' 620' B/%*+ ,*.' M L10% LL+ ' T' LL L ' T' *)% + ' ' KX% ()*' .6?*',*-?' .' ;.*0' 1 ',)*' '>16,.' 1 ' .9 2.J' =-*=6-*0' D ' ,)*' /? 5), I' 1-',)*' -.,') ;?62' =6 -'M4*2% ' K X' 8) >)' 8*-*' =-1D6D/ '21,) 25' ?1-*' ,) 62' 6=-12. '1-16 .)1-,' .9 -,' D1;20' 6,',)*' 86 ..% ()*' ,;2 >' 86.' >1? ?12/ ' M6,' /*6.,' 8 ,)' ?6/*.X 8 ,)1;',' ./*+*.' 620' ;.;6// ' -*6>)*0' ,1' ,)*' 92**.% ,' 86.' 5*2*-6// ' ?60*' 1 ' / 2*2 ' D;,' 1-',)*' 8 2,*-' 86.' -*^ _;*2,/ ' ?60*' 1 ' 811/I' 620' ,)*' ->)' 21' 01;D,' 81-*' ,;2 >.' 1 ' 'M 2*' / 2*2 J' % *' \Hh' ',)*2'+*- ' -6-*X% ,' 86.' .1?*, ?*.' 81+*2' *2, -*' 8 ,)1;,'6' .*6?' / 9*',)*' ?10*-2')1.*' MB1)2' L L' KNX% ,' 86.' 6/.1' 1>I' >6. 126// '1 '6' 56 '=6,,*-2I' .;>)' 86.' B1.*=) .' >16,' 1 ' ?62 '>1/1-.J' M4*2% LLL+ X' ,)6,' .' 1 ' 0 / D-*2,' >1/1-*0' ,)-*60.' 2' .,- =*.' 1-'=/6 0*0I% 1?*, ?*.',81' ,;2 >.' .**?',1')6+*' D**2' 81-2' 6,'12>*' * ,)*-' 1-' 1-26^ ?*2,'1-'/;L;- ' 1-',)*',*-?' .' -* ;*2,/ ';.*0' 2',)*' =/;-6/' 1 '62' 20 + 0;6/' M < 6,,' L ' T' < 6-9 '+ 'RT' ;9*' X% 2',)6,'>6.*',)*' 1;,*-' 12*'=-1D6D/ '.;==/ *0' ,)*' =/6>*' 1 ',)*' '>/169J' 1-'=6// ;?% **' ' 'T *,>% ()*' .)*- .' >16,J' I - - 81' ?*2^ , 12*0' 2' B1)2' LL ' 86.' *+ 0*2,/ '62' 1;,*-' 56-?*2,' % 1-'>/169' 620' *,*-' .' .6 0',1' D*' '269*0J' D* 1-*',)-18^ 25' ,'6D1;',) ?' 6.')6+ 25' 12' 12/ ',)*' ,;2 >' 1-'=*-^)6=.'21' ?1-*' ,)62' 6' .,- =' 1 '>/1,)'6D1;',)*' /1 2.' / 9*' ,)*' ?10*-2' -6D.% ()*' / ,,/*' >16,J' ?60*' D ' : 62^ 26)' 1-',)*' 1;25' 6?;*/ M ' 6?% ' RX 86.',)*' 1-' 1;,*-' 0-*..' */.*8)*-*' -*20*-*0' -1D* J' ' ?62,/* J' 1-' >/169J' M_% %% ()* >16,*J' 1 ',)*',)-**' : *D-*8'>) /0-*2' 2',)*' ;-26>*' M 62% ' K ' K X' 6-*' >6//*0' 2' ,)*' 1- 5 26/)6/0*** I " (1' *=,' % % 81',)1;5),' D ' .1?*' ,1' D*' ,)*' *-. 62' 26?*' 1-'/125' 620' 8 0*' '8)*2>*' 4-**9' % 1 1' 6,% ' *,>%'D;,' DA'1,)*-.' 8 ,)'5-*6,*-'=-1D6D / , ',1'D*' 9 20-*0' 8 ,)',)*' -6D >' 26?*' 1-' 6'/125' .) -,' 1-' 1 8)>)' .' >1--1D1-6,*0' D ',)*' (6/?;0 >' 2,*-=-*,6, 12' 1 ' (' % *% ,)*' % ' 1-' 1;,*-' 0-*..% M **' ? ,) .' ' ' ' ' ! & 4! .' % (;2 >6 ' *,>%X **' ! ' ' ' +$ (1' 8' 1>>;-. 2',)*' 0*.>- =, 12' 1 ' 41/ 6,) .' 6-?1-' M ' 6?% L+ ' X' 620' 6/.1' 1 ' 6;/ .' M+*-% NQX% *>' ! ()*'=/;C -6/ 1-?.'6-*' 1;20' 2' *)% + ' T' K')-12% LL+ ' T' 8)*-*',)*' '6-*',-62./6,*0')6D*-5*12.J' M_% +%X% ()*' 9 20-*0',*-?.' I + "(')6D*-5*12 J' B1DL/ ' KSX' I " (')6-2*.. J' ' 25.' LL ' N T' K')-12% L+ ' NNT' D-*6.,C=/6,* J' .6% / L ' X' 620' > (1' D- 5620 2*. J' B*-% L/+ ' T' / ' NX' 8*-*' =-1D6D/ ' /*..' >1?=/*,*' 9 20.' 1 ' ,)*' .6?*' ' *% ! **' 6/.1' 1DD' # ' % %' 6' $2 +*-.6/ .,' ? 2 .,*-' 620' 8- ,*-' 86.' D1-2' 6,' 1-86 ' <6 2*' B;/ ' QQ% ' : .' -.,'*0;>6, 12' 86.' 20*-' 1-,)101L' 2 /;*2>*.' D;,' *6-/ ' 2' / *')*' D*>6?*' 6' $2 +*-.6/ .,% :*' =-*6>)*0') .' -.,'.*-?12' 6,',)*' 65*' 1 ',8*2, C12*' D;,' 86.' =1,' 1-06 =*0' ;2, / QK% :*' 86.' .*,,/*0' 6.' ? 2 .,*-' 2' .;>>*.. 12' 6,' & 6,*-+ //*' <6 2*' 6,' <6/0*2' & 6/,)6?' 620' M. 2>*' Q RX' 6,' 6.,' 1.,12% &)/*' 6,' & 6/,)6?')*' *.,6D/ .)*0' ,)*' " ' @ 8)>)' 2' QSK' 86.';2,*0' 8 ,)',)*' - % ' 2' QS ')*' -*, -*0' -1?' *0 ,1- 6/ / *' 6 ,*-' 6'.*-+ >*' 1 '6D1;',) -, ' *6-.% 2' 7*2>*% .'.;-*' 6.' 410.' 81-0' .',-;*',1' ?*',' ;' ;// ,)*' .6?*' *6-')*' -*>* +*0' -1?' (;,.' 1//*5*' ,/7*' 8-,%J' () .' 62.8*-' .1' 0 .=/*6.*0' ,)*' 9 25',)6,' D*' 56+*',)*' 6->)D .)1=' /*6+*' ,1' =-1>**0' 6>,.2,'/1-0' 1D^ <62 '1') .' *6-/ *-' >12,-1+*-. 6/ .*-?12.' 8*-*' =;D^ / .)*0' 620' 8 0*/ ' > ->;/6,*0' 2' <6 2*' 620' */.*8)*-*% : .' ' 8 ,)' -% 06?.' 620' <-% : ;0.12' 2^ +1/+ 25',)*' .;D*>,.' 1' *+*-/6.,25' =;2 .)?*2,' 620' ,)*' 6;;) /6, 12' 1',)*' 8 >9*0' 8*-*' 6/.1' =;,' 2,1' D119' 1-?'6 ,*-' 6==*6- 25' 2',)*' >1/;?2.' 1',)*' @ : .' % ' ' ' .'-*>152 .*0' 6.' 6' .,6206-0' 2' ,)*' 0*21? 26, 12% : *' 6/.1' 8-1,*' 6' ' " ' 7 ' - !T 2 ' 5 ' ' QS '=% Q '._% 1DD*,' 0 ' '6' 125-*56, 126/ ? 2 .,*-' 86.' D1-2' 6,' *8D;- ' *-9.) -*' 25% ' 2' S Q' 620' .*-+*0' 2',)*' ? 2 .,- ' 1',)*') ;->)' 1 ' 25/620' 1-' 6' .)1-,' ,?*% A*>,*0' 1-' 212>12 1-?, ')*' >6?*' ,1' *8' 25/620 '6-- + 25' B;21' KS SN % : *' .*-+*0' 1-',8*2^ ,' *6-.' 6.' >1//*5 6,*' =6.,1-' 2' 22' 620' -*?1+*0',1' =.8 >)' 8)*-*')*' 0 *0' 1+% ' SQ % : *' =;D/ .)*0' &' N ' 'I' ' ' ' " ' ' " "' 'M S N8S T &' ' ' ' ; % 'M S X% T -" ' ' (' ' ' '5 ' ' ' *,>% M S N8S T &'% ' ' ' ' 'M S 8S T &' - ' ' " '# ' ' ' + ' ' ' ' 'M S SX% ' =-65;*' & ' % K% 1DD.' * ' '% ' % %' 6' D .)1=' 1',)*' -1,*.,62,' = .>1=6/);->)' 1',)*' $2 ,*0' ,6,*. '86.' D1?' *D-66- ' R % : *' 86.',)*' -.,'D .)1=' 1',)*' 0 1>*.*' 1' /6D6?6' D* 25' >12.*>-6,*0' >,1D*-' K' Q % : *' 0 *0' B62;6- ' QS % 1D)6?' 1-0' M -' D " ',8' 6' 1//6-0' ?6-^ ,-' 1',)*' ,**2,)' >*2,;- % ') .' *6-/ '/ *' / ,,/*' :921828 % : *' 86.')1-2' 2',)*' -* 52' 1' 0806-0' ?6-- *0',)*' 2 *>* 1 ' : *2- '/1-0' 1D)6?' 620' 1D,6 2^ *0') .', ,/*% : *' *2,*-*0',)*' ? / ,6- '/ *' 620% 56 2*0' 5-*6,' 0 ., 2>, 12% >>1-0 25' ,1' 6 /*' 2' 6// 60^ +*2,;-1;,'6>,.'1 '81-/0/ '?62)110')*' 86.' *+*-' 1-,;^ 26,*' 01;5), '21D/*' 620' +6/ 62,%J' ') .' ? / ,6- ',6/*2,.')*' 6>_;-*0',)*' *.,**?' D1,)' 1' : *2- ' ' 620' : *2- ' % 2' >12A;2>, 12' 8 ,)' -' >)6-0' ,1- ' -' ()1?6.' 6, ?*-' 620' 1,)*-.')*' 0-*8' ;=' 6' 2;?^ D*-' 1 '6-,>/*.' 8)>)' 2',)*' 1-?' 1 '6' -*?12.,-62>*' 656 2.',)*' >1--;=, 12.'=',)*' >/*-5 ',)*E' =-*.*2,*0' ,1',)*' :1;.*' 1 ' 1?? 12.% : *' =;,' D 2".*/ ',1' 5-*6,' *L=*2.*' 2' >1//*>, 25',-62.>- D 25' 620' 0 .=1. 25',)*' 81-9.' 1 '& >/ *% : *' 6/.1' ;-2 .)*0' 1//6-0' , 2*-^ 62,'=-*6>)*-.' 8 ,)' .)*/,*-' 6,') .' ?62. 12' 6,' 18/2 7' 6./*' 2' *2,% ()*.*' =-1>**0 25.' ?60*') ?' +*-' 1D21L 1;',1',)*' >/*-5EF ;-25',)*' -.,' *6-' 1',)*' -* 52' 1' :*2-' ',)*' =-2> =6/ .;DA*>,' 1 '0*D6,*' 86.' ,)*' 5-18,)' 1')*-.* ()*' >1?? .. 12*-.'-*=1-,*0',1',)*' 6->)D .)1=' 8)1' 2 1-?*0',)*' 12+1>6, 12',)6,',)*' 2>-*6.*' 1')*-.* '86.' *.=*> 6// '18 25',1'/1-0' 1D)6?' 8)1' *2^ >1;-65*0' .>)1/6-.' -1?' L 1-0' 620' 1,)*-' =-1=656,*')*-*, >6/' 1= 2 12.',)-1;5)1;',)*' >1;2,-% ()*' 6->)D .)1=' 6>>1?=62 *0' D ' 6' /6-5*' D10 ' 1',)*' >/*-5 ' 86 ,*0' ;=12' :*2- ' 620')6+ 25' /6 0' D* 1-*') ?',)*' 1 *2>*' 1 '/1-0' 1D)6?' D*55*0' 2' '+ 620' " ',)6,') .' ?6A*.,' ' ' " ' ' " ' ' " (' + ' '% ' " ' ' "!' (1',) .'); ?62*' -* ;*.,',)*' 9 25' -*=/ *0',)6,')*' ,)1;5),' .>)' + 1^ /*2>*' ?1-*' 0*.,-;>, +*' 1',-;,)' ,)62' 1' *--1-1',)6,')*') ?.*/' 81;/0' -*6.12' 8 ,)' /1-0' 1D)6?' 620' ,)6,' .)1;/0' =-1+*' 2* *>,;6/')*' 81;/0' /*6+*') ?',1' ,)*' >*2.;-*' 1',)*')>-)% : *2- ' *20*6+1-*0',1'=*-^ .;60*' /1-0' 1D)6?',1' -*,-6>,' D;,')*' -*,;-2*0',)*' 1//18 25' 62.8*-% ' *+*-' 86.' 6' 0;, ;/ .;DA*>,',1' 1;-' ?6A*.,' '620' ')1=*' *+*-'.)6// D*% *L,',1' 410' '=-1 *..' 1D*0 *2>*',1' ? '9 25% ;',6.' ;-',)*' .= - ,^ ;6/' 01? 2 12' 1',)*' =1=*' ' 2*+*-' >1;/0' .*** 1)' 8)6,' 1;206, 12' ,' .'>/6 ?*0' 21-'>62' '=6 ') ?' 62 '1D*0 C *0 ,1- 6/ / *' 6 ,*-' 6'.*-+ >*' 1 '6D1;',) -, ' *6-.% 2' 7*2>*% .'.;-*' 6.' 410.' 81-0' .',-;*',1' ?*',' ;' ;// ,)*' .6?*' *6-')*' -*>* +*0' -1?' (;,.' 1//*5*' ,/7*' *+ 0*2,',)6,')*' .',)*' 5-*6,' 2, >)- .,' 1-*,1/0' 2')1/ ')121-6- '0*5-**' 1 '01>,1-' 1 '0 + 2 ,% : *' 0 *0' >^ 8-,%J' () .' 62.8*-' .1' 0 .=/*6.*0' ,)*' 9 25',)6,' D*' ,1D*-' N ' QSS' -% 1DD' 86.' 6' +1/;?21;.' 8-,*-% 56+*',)*' 6->)D .)1=' /*6+*' ,1' =-1>**0' 6>,.2,'/1-0' 1D^ <62 '1') .' *6-/ *-' >12,-1+*-. 6/ .*-?12.' 8*-*' =;D^ / .)*0' 620' 8 0*/ ' > ->;/6,*0' 2' <6 2*' 620' */.*8)*-*% : .' ' 8 ,)' -% 06?.' 620' <-% : ;0.12' 2^ +1/+ 25',)*' .;D*>,.' 1' *+*-/6.,25' =;2 .)?*2,' 620' ,)*' 6;;) /6, 12' 1',)*' 8 >9*0' 8*-*' 6/.1' =;,' 2,1' D119' 1-?'6 ,*-' 6==*6- 25' 2',)*' >1/;?2.' 1',)*' @

6 ,D ' `8) >)')*' =-*.*2,*0' ,1' ,)*' 9 25% * 25' 656 2"Z 1>>* ; . ' (' 12*' 1 ' ,)*' ?1.,' 0 ., 25; .)*0' ,)*1/15 62.' 620' D/ >6/ 2,*-=-*,*-.' 1 ',)*' ,)' >*2^ > ,*0' ,1' 6==*6-' D* 1-*' ,)*' 6->)D .)1=7' 620' -* ; . 25' ,;- ' 86.' D1-2' 2' -*?*2' B ;/ ' N ' M1-' ;5; ., R' % *1?=/ 62>* ')*' 86.' >1? ? .,*0' ,1' ,)*' (18*-' D ' ,)*' %X' S N% ()*' 6? / ' 26?*' 86.' '" M6>>1-0 25' ,1' 9 25 .' 1-0*-% '$=12' ,)*' KS,)' 1 ' *=,*?D*-' N')*' 1,)*-.' 1> X') ;,')*' 620') .' D-1,)*-' 4*-)6-0')6+ 25' 86.' D-1;5),' 656 2' D ',)*' / *;,*262,' 1 ',)*' (18*-' D*^ D**2' 2' ,)*-' 1';,' >6//*0' 1' *+*-' 6 ,*-86-0.' -*^ 1-*' ,)*' 6->)D .)1=' ,)*' D .)1=.' 1 ' 12012 '& 2>)*.^ ,6 2*0' ,)6,' 6==*/7, 12% ()*' 6? / ' 86.' 62' 62> *2,' ,*-' 620' 6251-' . ,, 25' ;=12' ,)*' D*2>)' 8 ,)') ?% 620')121-6D/*' 12*' 2' -*?*2' ?62 ' ?*?D*-.' 1 ' ,' ()*' 6->)D .)1=' 0*. -*0' -'B1)2',1' ?1+*' 1-',)*' 6D.1^)6+ 25' //*0') 5)' 1 >*.' 2' ;->)' 620' ,6,% :*' /;, 12' 1 ',)*') ;->)' 2',)*' >;.,1?6- ' 1-?% :*' -*^ 86.' D-1;5),' ;=' 8 ,)' 5-*6,' ?1-6/ 62 ,' -*/ 5 1;.' .,- >,^ =/ *0')*' 81;/0' D*5' 6D.1/;, 12' 1 ' 212*' D ;,' 410' /^ 2*..' 6 1-')*' -*/6,*.' 2' 6' .)1-,' 6 ;,1D 15-6=) ?' ,)')*' /* ,' ;2 2 .)*0'),)6,')6+ 25' D**2' >)6., .*0' 6,' .>)11/ ? 5), %' 7 ,*-' ,) . ' ,)*' 6->)D .)1=' 0*. -*0') ?' ,)' ?69*' 62' *L=-*..%0*>/6-6, 12' >12>*-2 25',)*' .6>-6?*2,' 1-' .1?*' D1 .)' 6/.*)110')*' *+*-' -1?',)6,' ?*' 0*^ 1 ',)*' 6/,6-% (1' 8) >)')*' 56+*' ,) .' 62.8*-d ,)6,'6.' .= .*0' / 25'620')60' .;>)' 6' -*=;,6, 120 1-' ,-;,) ;/^)- .,' 8)*2' ;=12' *6-,)' >12. .,*0' 1',)*' 0 + 2*' 620' 2*..' 6.' 2*+*-' ,1')*' >1?*//*0' ,1' ,69*' 62' 16,)' 620'); ?62' 26,;-*') .' 0 + 2 , ' D* 25' >12>*6/*0' ;20*-') .' ,)6,')6+ 25' 12>*' D**2' .,-;>9' 12' ,)*' ?1;,)' D ') .' 6^ ?69*' 62' *L=-*..%0*>/6-6, 12' >12>*-2 25',)*' .6>-6?*2,' D1,)' 6'-*6/ D10 ' 620' -*6/ D-*60' ,)6,',)*' D-*60' .',)*' 1 ',)*' 6/,6-% (1' 8) >)')*' 56+*' ,) .' 62.8*-d ,)6,'6.' 1DA*>,' 1 '1;-' . 5), 'D;,' ,)6,',)*' D10 ' 1 ')- .,' >12^)- .,' 8)*2' ;=12' *6-,)' >12. .,*0' 1',)*' 0 + 2*' 620' ,6 2*0' 1-' .)-1;0*0' ;20*-' ,' .' ?=*->*=, D/*' ,1' 1;-'); ?62' 26,;-*') .' 0 + 2 , ' D* 25' >12>*6/*0' ;20*-') .' .*2.*.% &)*2')*' 86.' =-*..*0' >/1.*-' ,1',)*' =1 2,' 1 '); ?62 , 7' .1' 2',)*' .6>-6?*2,' 1 ',)*' 6/,6-',)*-*' .' ,-62.2D.,62, 6, 12 ')*' 0*>/6-*0' *L=-*../ ' 656 2.,' ,' D1,)' 6'-*6/ D10 ' 620' -*6/ D-*60' ,)6,',)*' D-*60' .',)*' 600 25' 8 ,)6/ ,)6,',)*' >1?*?1)' D*/ * ' 2' ,) .' 6-,>/*' 1DA*>,' 1 '1;-' . 5), 'D;,' ,)6,',)*' D10 ' 1 ')- .,' >12^ 86.' 6' >12,-60 >, 12' ,1' ,)*')1/ ' >- =,;-*.!' ,)6,',)*' ,6 2*0' 1-' .)-1;0*0' ;20*-' ,' .' ?=*->*=, D/*' ,1' 1;-' 0*> . 12' 86.' ?10*-2' 620' ,)6,',)*');->)' 0 0' 21,' .*2.*.% &)*2')*' 86.' =-*..*0' >/1.*-' ,1',)*' =1 2,' 1 ' +6- ',);.' -1?',)*' 1/0' .,6206-0', //'.)*' 86.' =1 .12*0' ,-62.2D.,62, 6, 12 ')*' 0*>/6-*0' *L=-*../ ' 656 2.,' ,' D ' D* 25' *2018*0% 20' 6.',1'=*262>*' 620' >12 *.. 12 ' 600 25' 8 ,)6/ ,)6,',)*' >1?*?1)' D*/ * ' 2' ,) .' 6-,>/*')*' 6 -?*0',)6,' 62 '=*-.12')6==*2*0',1' D*' ;20*-' 86.' 6' >12,-60 >, 12' ,1' ,)*')1/ ' >- =,;-*.!' ,)6,',)*' ,)*' ? . 1-.;2*' 1 ' 62 ' 5-*6,'>- ?*' 620' 86.' 21,' 2' 6' 0*> . 12' 86.' ?10*-2' 620' ,)6,',)*');->)' 0 0' 21,' >120 , 12',1'0 .*2,625/*') ?.*/ ')*' >12>* +*0' ,' 81;/0' +6- ',);.' -1?',)*' 1/0' .,6206-0', //'.)*' 86.' =1 .12*0' D*' 60+ .6D/*',1' ?69*' ;.*' 1 ',)*' 0 -*>, 12' 1 '.1?*')1/ ' D ' D* 25' *2018*0% 20' 6.',1'=*262>*' 620' >12 *.. 12 ' 620' 0 .>-*',=- *.,% ;',)*' 0 0' 21,') 29',)*-*' 600 25' 8 ,)6/ ,)6,',)*' >1?*?1)' D*/ * ' 2' ,) .' 6-,>/*')*' 6 -?*0',)6,' 62 '=*-.12')6==*2*0',1' D*' ;20*-' 86.' 62 ' 2*>*.. , ' 1 '>12 *.. 25',1',)*' =6- .)' >;-6,*' 1-' 62 ' 1',)*-' 1 ',)6,' >)6-6>,*-' 1-',)6,' 2',) .' >6.*' ,)*-*' 86.' 2**0*0' 21' ?1-*',)62'>12,- , 12',1'>62>*/ ,)*' 6;/,'620'-*..1-*',)*' =*2 ,*2,% (1;>) 25',)*' 81-.) =^ = 25',)*' >-1.. ')*' ?6 2,6 2*0',)6,' 12/ ',)*' D10E!' 1 ')- .,' 8/ ")') ;25' ;=12',)*' >-1.. '1;5),',1'D*' 601-*0% 20' D* 25' ;-,)*-' 2,*--156,*0' 8)6,'-*56-0' 86.',1'D*' =6 0',

6 2 ' X ' D + 1' 62' */6D1-6,*' *L6 ? 26, 12' 1 ' ,) *' -.,' 0' +*-. .*.' 1 ' ,) 6, ' 41.=*/ ' 8 ,)' * .=*> 6/ - *' *-^ *2>*' ,1' ,)*' ? . 2,*-=-*,6, 12.' 1 ' 1> 2; . ' >)/ >), 2' 5 ; . ' 620' 1,) *-.' 1 ' ,) 6, ' .>)11/ ( ) *' 8 - , 25.' 1 ' ,)*' 1> 2 62.') 6+ 25' D**2' 0 ..*? 26,*0' ,) -1 ; 5)' : 1//620' 620' 1,)*-' =-1+ 2>*. ' ,)*' 210.' 1 ' 1-,)' 620' 1 ; ,)' : 1//620' =-*.*2,*0' ,1' ,)*' ,6,*.' 6'=*, , 12' ,) 6, ' ,)*' ? 5) , ' D*' -*.,-6 2*0' 1 ' ,) . ' / D*-, ' 620' 62' *0 >,' 86.' 6>>1-0 25/ ' ..; *0' 2' S N 1-D 00 25' ,)*' =- 2, 25' 620' =; D/ .) 25' 1 ' D> 2 62' D119. ' 620' ,)*' =-*6>) 25' 1 ' ,)*-' 01>,- 2*.' ( ) .' 86.' 012*' 2' 6>>1-062>*' 8 ,)' ,)*' 1= 2 12' 1 ' ,)*' ,)*1/15 >6' 6> ; /, ' 1 ' * 0*2 ' 8) >)' ,)*' ,6,*.') 60' 6.9*0' 1-' 620' 8) *2 62' =1/15 ' 656 2.' ,)*' *0 >,' 86.' 8- ,,*2' D ' 64 ' ' MD*^ / *+*0' ,1' D*' ,)*' 1> 2 62' B126.' >)/ >), 25 ; .X ' ,)*' ,6.9' 1 ' 62.8*- 25' .' 86.' >1? ? ,,*0' ,1' 1>>* ; .' 8) 1' ; / //*0' ,)*' 0 ; , ' .1' 6D/ ' 6.',1' -*>* +*' ,)*' ,) 629.' 1 ' ,)*' 210.' 1 ' 1-,' 620' 1 ' 1-,)' : 1//620 ' 2' S S ')*' 86.' 0-68' 2,1' 6' >12,-1+*-. ' 8 ,)') . ' >1//*65 ; *' : 11-2' D**9' 12' ,)*' 0 + 2*' 6 ; ,) 1-, ' 1 ' ,)*' 6DD6,) ' 8) >)' D*>6 ? *' .1' 86-?' ,) 6, ' ,)*' , 6,*.' 2,*-=1.*0' 620' = ; ' 62' *20' ,1' , 1>>* ; . ' -*>1 / 25' -1 ? ' ,)*' - 5 0' B ; 06 [' 25' + *8 ' 8*2, ' ,1' ,)*' 1==1. , *' *L,-* ? *' 620' ? 6 2*, 6 2*0' ,) 6, ' ,)*' 6DD6,) ' 86.' 6' B*8 .)' 2., , ; , 12 ' 21, ' D 20 25' ; =12' ,)*')- ., 62') ; ->) ' 6/,) 1 ; 5)') *' 86.' 2' 6+1-' 12' 5-1 ; 20.' 1 ' *L=*0 *2> ' 1 ' 1D.*2025' ,)*' 1-0 .' 06 ' D ' = ; D/ >' . *-+ >*.' 1 ' 81-.) =' 620' =-*6>)^ 25 ( ) *' 1//18 25' *6-') *' D*562' ,1' 8 - ,*') .' : *^ D-*8' *L >12 ' 6, ' ,D*' -*_ ; *. ,' 1 ') *-') 5) 2*. .' ,)*' =- 2^ >*. .' < 6- 6' /*121-6' 1 ' -620*2D ; -5' D ; , ' 18 25', 1') .' ? 62 ' 1), >*-' /6D1-.' 620' >6-*. ') *' 0 0' 21, ' 2 .) ' , ' , //' 6' / , , /*' D* 1-*') .' 0*6,) ' 2' SSR (: *' 2*+*-' 2, *-2 9, *0') .' 81-9' 6.' 62' 2, *-=-*, *-' 1 ' ,) *' >- =, ; -*. ' D ; , ' .*2, ' 1-,) ' 12*' >1? ?*2,6- ' 6 , *-' 621,) *-' , //') *') 60' 6/^ ? 1 . ' 512*' ,) -1 ; 5) ' 38 ,) ' ,) *' .6>-*0' D119. ( ) *' 1, ' 6' / , , /*' D* 1-*') .' 0*6,) ' 2' SSR

0' 6.' 12' 6.' =-*>*0 25',)*' 60+*2,' 1 ',)*' *0**?*-% ()*' 6// 1 '?62' 86.' .*/ '>6;.*0' 620' 21,' 2*>*..,6,*0' D '62 '6>,' 1 '410' I ; ' ' % ' ' ' ' 8I' D ;,' 6//) .' =1..,*- , ' 8*-*' 2+1/+*0' 8 ,)' 06?' 2',)*' 5 ; /,'620'>;-.*' 1 ') .' . 2% () .'-*_: -*0' 6' <*0 6,1-' 8)1' >1;/0' 21,' D*' 1 ',)*' 2 ; ?D*-' 2**0 25' -*0*?=, 12' 620' *,' ?;.,' D*' 6' =6-,69*-' 1 ',)*' -' 26^ ,;-*' 6'=-1D/*?',)6,' 86.' .1/+*0' D ',)*' 12' 1 ' 410' D* 25' ?60*' ?62% : *' .,620 25' 6.',)*' .=12.1-' 1 ',)*' *,*-26// >1+*262,' 56+*' ;2,1',)*' 6,)*-',)*' 1D*0 *2>*' ,)6,' 86.' 0 * -1?' ?*2' 620' 6/.1' *20;-*0',)*' =*26/, ' 1 '0*6,)',)*' >;-.*' 1-' . 2',)*-*D ' ?69 25' 6',-;*' *L^ = 6, 12' 620' 6,12*?*2,% '

1>>* ;' / ? ,.' ,)*' 0*6,)' 1 ')- .,' 2' ,.' ;// 1->*' ,1',)*/*>,'D;,')*' 6..*-.,',)6,')- .,' 86.' '6'+ >, ?' 1 '.1' 5-*6,'=-*> 1;.2*..' 620' .;' > *2> ',)6,',)*' 8)1/*' 81-/0' 620' 6// ?*2' 8 ,)1;,' *L>*=, 12' >1? 25',1',)?' >62' 20' .;-*' 620'=*- *>,'.6/+6, 12' 2',)?%J

2'-*.=*>,',1' ?1..,' 01>,-2*.')*' 01*.' 21,' 0*=6-,' -1?' ,)*' * 1-?*0')';->)'1 D;,',)*-*' .'6'.= - ,;6/ / *' 620' =18*-' 2') .')620/ 25' 1',)*?' 8)>)',69*.',)*?' 1;,' 1',)*' .=)*-*' 1'6'>1/0' 620' / */*..' 1-,)101L % : *' 86.' 6' ?62' ?5),' 2',)*' = - ,' 620' 6-' 2'60+62>*' 1 '?1.,' ?*2' 1 ').' , '?*' 2') .'6==-*)*2. 12' 1 ',)*' 81-9' 1 '410' 2')- .,% &)*-*)*' 6/.' 2'>/*6-' . 5),' 8*',, // **/ ,)6,'21D/*' 2.., 2>,.' 6-*' 81-9 25' 2') ?% : .'* (1-.' 6.' 2'-*56-0',1',)*' 1-0 .'06 8* *'=6-,/ ',)*' -;,'1') .'0*. -*',1'+ 20 >6,*' 1-',)*');->)'),)*-')- ., 62'/ D^ *-,'1'86/9 25'6/86 .' 2',)*' = - ,% : *' .68'>/*6-/ ',)*' D12065*' ;20*-' 8)>)',)*' 78'D-1;5),'?*2'620')*/119*0' ;=12',)*' 6DD6,)' 5 +*2' -1?' 26'6.' 6' 19*' ,1' 8)>)',)1.*' 8)1?')- .,')6.' ?60*' -*** .)1;/0' 21,' D*' 2' .;D*>, 12% 2',)..'6.' 2' ?62' ,)25.')*')*/0' D;,')6/',)*',-;,)'21,' 0 .>*-2 25',)*' -**01?' 1 '0 + 2*' 1-0 262>*.!' D;,')*' .' 21,',1' D*' -629*0' 8 ,)',)*/68/*..' .= - ,.' 8)p'81;/0' D-*69'018?' 6// -*.,-6 2I' ;=12',)*/>*2, 1;.2*..' 1',)*' /*.)% : *' 86.'6?125',)*' ,)_' -.,' 2' ?10*-2',?*.',1',*6>)',)*' 01>,-2*' 1'6.= - ,;6/ 0 .=*2.6, 12' 1 '5/1- ' 2' 0 ., 2>^ , 12' -1?' 6'+ . D/*' 9 2501?' 1 ')- .,' 620' .1' 6-' 0 0' 3)*' >6-- ' ,'6.',1' 20' 21,) 25' 1 ',)*' -*.;--*>, 12' 2',)*' /6.',>)6=,*-.' 1 ',)*' =1>6/ =.*% ;')*' -?/ ')*/0' ,)*' 6 ,)'1',)*');->)'1 ' : 1//620' 620' 1,)*-'>1;2,-*.% : .' 1//18*-.' 8*-*' >1?12/ ' 0*. 526,*0' D 7,)*' 26?*' 1>>*A62.% ()*' 1-*?1.,' 6?125')*' 8-,*-.' 1 ',) .' .>)11/ 2',)*' =-1+ 2>*' 1 ' . .,*?6,>',)*1/15 ' 6->' <1?76' & ,. ;.' ;-?622' 620' 62' (/M.**',)*.*' 6-^ ,>/*.X% 2'*L*5*, >6/ / ,*-6,;-*',)*' 5-*6,*.,' 620' ?1.,' >*/*D-6,*0' ?*?D*-' 1',)*' .>)11/ 86.' ,- 256' M_% +%X' 8)/*',)*' = 1;.') 221/15.,' B1019;.'+12' (10*2.,* 2' 620' -' % *L*-> .*0' 6' >12. 0*-6D/*' 2/;^ *2>*';=12',)*'=-6>, >6/ / *' 1',)*');->)'1',)*-',?*.% : .' ,% '-" 1' 2>/;0 25').' $ ' !' ' ' ' ' ' M * 0% S QX') .' ' # " !' ' " 'Nf %'620' 1,)*-' 8-, 25.' 8*-*' =;D/ .)*0' 6,' ?.,*-06?' M S SC Q'Q +1/.% 1/%T KO' *0% '+1/.% 1/% K' +1/.% , % ' 6-V* 1-6' X% : .' ') .' .12 B% : %' .' 5 +*2' 2' +1/% + % **' : *-[15'5 26 =' # %f ' S T & *,[*-' ;' &*/,*') " = ! ' S ST' <1.)*?' " "' # !' >*2,'L+ '=,% ')% T 46..' !' -" 1' 'K NT : 65*2D6>)' # " !' '' 1' +1/% T 1-2*-' ? + " ' ' ' -" 1' =% K ._%T 6 -D6 -2' - % .' 6 -D6 -2' # 9 '

1>) 2C) 26%' **' L%; %

1>)/.*, . ' (· ' M=-1=*-' 26?*' 8 R 8' 86.'D1-2' 2' R' 6,' &*20*/.,* 2' 2*6-' ;-2D*-5T D*^ >6?*'-*>,1-' 2' ;-2D*-5' T 2' K '0*62'6,' -629^ 1-,T 26// ''>6212'1' -*./6;' 2'8)>)'1 >*')*'0*Y' K% : *' 86.' 12*1',)*' ?1..'+ 1/*2,' 1==12*2,.' 1' ,)*' * 1-?6, 12% B/*' 6,,*20*0',)*' *,' 1' &1-?.' M KKX'8)*-*')*' D*>6?*'6'.1-,'1'+1/;2,**-'6 0',1' /^ *L620*-',)*' =6=6/2;2>1% : *' .'>)6-5*0'8,)')6+^ 25'.1;5),',1' 20;>*' ;,)*-',1'5+*' ;=') .'.6 *C>12^ 0;>,' 2'1-0*-',1'=;,') ?' 2',)*' =18*-' 1',)*/*56,*T D;,' 1>D/.*;.'6,*-86-0.'0*2 *0',)6,',) .'86.') . =;-C' =1.*% : *' 86.' 6/.1'=-*.*2,'6,',)*' *,.' 1' 6, .D12' KS'620'1' ;5.D;-5' N % ',)*/6,,*-'8,)' >9' 6D*-'620'& ?= 26)*' ;20*-,119',1'-* ;*',)*' ;5.^ D;-5' 12*.. 12% : .' -* ;,6, 12J' 86.'-*60' D* 1-*' ,)*' *,' ;5;.,'N% 2',)*'0*6,)'1'7>9'M NX' 1>)C' e$Q ,119') .' =/6>*' 6.',)*' /*60 25' >)6?=12' 1 %,)*' 62, C * 1-?*-.% : *' 8-1,*' 6', -60*' 656 2..' <*/62>C' ,)12' *2, ,/*0' "N%% 1' 600-*..*0',1',)*' *?=*-1-% 2' S')*' 86.' 6>, +*' 6,')*' >1//1_;' 1' 6, .D12' 656 2..' ;>*-' 620' <6A1-% : .' 2;?*-1;.'=6?=)/*,.' 6-*' ;// 1'+1/*2>*' 620'=*-.126/, *.'?125',)*?' 6-*' ; + % ' ' " 'M<6 2[' I N X' " ' ; % %'M<6-[' KRX' # '# 'M<6 2[' RT' ' ' ' % ' " 'M R' 1/%X' $% 9 ' ' ' :' ' ' '6 1' NR Q+1% ' ;=2'6 '# ' >*2%L+'=% ST' &*,[*-I';% &*/,*')" = ' 'S T' N" 12 = + ' +'K T (5 +'# '[' " '5 1' 'Q ST' :1*-'7 !';' '? 1'L'R %

1>9'I>,d. -8=' / ,*-6// ' 8!' ,' .'.1?*^ 8)6,'. 25;/6-',)6,',)' D -0'M620'=1;/,- ' 2'5*2* I6/X .)1;/0'21,'D*'0 ., 2>,/ '21,>*0' 2',)*' :*D-*8' >-=^ ;;-*.' '*.=*>6// '6.'-*6- 25'56// 26>*1;.' 18/.' 86.'62' 1DA*>,'1'>12. 0*-6D/*'*>121?>6/ ?=1-,62>*' 2' 5 =,' 620',)*' -' /*.)' 12*' 1 ',)*' =-2> =6/ -*.1;->*.' 1-',)*' ,6D/*' 2' '=6-,'1' 1';,)*-2'620'& *.,*-2' .6% ,' .' ,-;*' ,)*' 06,*' 8)*2',)*' =-6>, >*' 1'1D,6 2 25',)*?' D '6-, >6/)*6,' >1?7?*2>*0' 2' 5 =,' .';> *2,/' 0 .=;,6D/*' 620'D -0.'1',)*' 5*2;.' 46//;6'=-1=*-/' .1' >6//*0'6-*' 21,' 20 5*21;.' 2' & *..*-2' .6'D;,'D*/125' 2',)*' -' 1-5 26/ >120, 12',1'/18*-' 20 6' 201C D 26' 620',)*' 5-*6,' ./620.' 1' ;.,-6/C . 6% *+*-6/.=*^ >*.'6==6-*2,/ '0 ., 2>,'6-*.,// 1;20'8 /0' 2',)*' 1-^ *.,' 620'A;25/*.'1' 20 6' 620',+1'6,'/*6.,' '$ =' '620'?'$ + 1'6-*' 6D;2062,' 2',)*' 8110.' 1' ,)*' & *.,*-2' 4)6;,.',1' 8)>)'1;-' 6?/ 6-' 18/D*6-' .1' >/1.*' 6'-*.*?D/62>*',)6,' 26,;-6/ .,.' >12. 0*-',)*' 0-?*-',1'D*',)* -' 1- 5 26/% 1?*.,>'=1;/,-')6+*' *L .,*0' 2' : 2011.,62' -1?',)*' -*?1,*.,' 62, _;, T =-1D6D/ '?;>)'*6-/*-',)62',)*' 8*/,)'>*2,;-' % %T 1-' 2',)*' ' 1'8)>)' -' & // 6?'B12*.' 6..52.',1',)6,'65*'8*-*60'1' ',)*'D-**0'1',)*',182C >1>9 '620'1',)*=-6>, >*' 1'>1>9C 5), 25'M+' KT' L' KKKX% &)*2',)*' >1>9' 1;20%,.'W#6',1' & *..*-2' .6' 620' ;-1=*' 8*')6+*' 21'-*>1-0% 18/1'=/;?65*' .1' 51-5*1;.'1'. [*' .1'21D/*'1' /*.)'.1'.6=0'1')6D,.'.1' 01?*.,>'1'2>-*6.*' .1'=-1/ >'81;/0'01;D,/*..'*6-/' D*' >6-- *0'6/125',)*' +6-1;.',-6>9.1' - *2,6/ >1?^ ?*->*% ()*-*' .'21',-6>*' 1' ,'.1' 6-'6.'8*'6-*'686-*' 12' ,)*' ?12;?*2,.'1')6-612>' 5A7=,'D;,'8*' 20' ,)*' >1>9' 5;-*0' 2',)1.*' 1' .. - 6% 2' 6')2,2*'

L620-',)*' =6=6/2;2>1% : *' .'>)6-5*0'8,)')6+^ 25'.1;5),',1' 20;>*' ;,)*-',1'5+*' ;=') .'.6 *C>12^ 0;>,' 2'1-0*-',1'=;,') ?' 2',)*' =18*-' 1',)*/*56,*T D;,' 1>D/.*;.'6,*-86-0.'0*2 *0',)6,',) .'86.') . =;-C' =1.*% : *' 86.' 6/.1'=-*.*2,'6,',)*' *,.' 1' 6, .D12' KS'620'1' ;5.D;-5' N % ',)*/6,,*-'8,)' >9' 6D*-'620'& ?= 26)*' ;20*-,119',1'-* ;*',)*' ;5.^ D;-5' 12*.. 12% : .' -* ;,6, 12J' 86.'-*60' D* 1-*' ,)*' *,' ;5;.,'N% 2',)*'0*6,)'1'7>9'M NX' 1>)C' e$Q ,119') .' =/6>*' 6.',)*' /*60 25' >)6?=12' 1 %,)*' 62, C * 1-?*-.% : *' 8-1,*' 6', -60*' 656 2..' <*/62>C' ,)12' *2, ,/*0' "N%% 1' 600-*..*0',1',)*' *?=*-1-% 2' S')*' 86.' 6>, +*' 6,')*' >1//1_;' 1' 6, .D12' 656 2..' ;>*-' 620' <6A1-% : .' 2;?*-1;.'=6?=)/*,.' 6-*' ;// 1'+1/*2>*' 620'=*-.126/, *.'?125',)*?' 6-*' ; + % ' ' " 'M<6 2[' I N X' " ' ; % %'M<6-[' KRX' # '# 'M<6 2[' RT' ' ' ' % ' " 'M R' 1/%X' $% 9 ' ' ' :' ' ' '6 1' NR Q+1% ' ;=2'6 '# ' >*2%L+'=% ST' &*,[*-I';% &*/,*')" = ' 'S T' N" 12 = + ' +'K T (5 +'# '[' " '5 1' 'Q ST' :1*-'7 !';' '? 1'L'R %

1>9'I>,d. -8=' / ,*-6// ' 8!' ,' .'.1?*^ 8)6,'. 25;/6-',)6,',)' D -0'M620'=1;/,- ' 2'5*2* I6/X .)1;/0'21,'D*'0 ., 2>,/ '21,>*0' 2',)*' :*D-*8' >-=^ ;;-*.' '*.=*>6// '6.'-*6- 25'56// 26>*1;.' 18/.' 86.'62' 1DA*>,'1'>12. 0*-6D/*'*>121?>6/ ?=1-,62>*' 2' 5 =,' 620',)*' -' /*.)' 12*' 1 ',)*' =-6>, >*' 1'1D,6 2 25',)*?' D '6-, >6/)*6,' >1?7?*2>*0' 2' 5 =,' .';> *2,/' 0 .=;,6D/*' 620'D -0.'1',)*' 5*2;.' 46//;6'=-1=*-/' .1' >6//*0'6-*' 21,' 20 5*21;.' 2' & *..*-2' .6'D;,'D*/125' 2',)*' -' 1- 5 26/ >120, 12',1'/18*-' 20 6' 201C D 26' 620',)*' 5-*6,' ./620.' 1' ;.,-6/C . 6% *+*-6/.=*^ >*.'6==6-*2,/ '0 ., 2>,'6-*.,// 1;20'8 /0' 2',)*' 1-^ *.,' 620'A;25/*.'1' 20 6' 620',+1'6,'/*6.,' '$ =' '620'?'$ + 1'6-*' 6D;2062,' 2',)*' 8110.' 1' ,)*' & *.,*-2' 4)6;,.',1' 8)>)'1;-' 6?/ 6-' 18/D*6-' .1' >/1.*' 6'-*.*?D/62>*',)6,';6/ .,.' >12. 0*-',)*' 0-?*-',1'D*',)* -' 1- 5 26/% 1?*.,>'=1;/,-')6+*' *L .,*0' 2' : 2011.,62' -1?',)*' -*?1,*.,' 62, _;, T =-1D6D/ '?;>)'*6-/*-',)62',)*' 8*/,)'>*2,;-' % %T 1-' 2',)*' ' 1'8)>)' -' & // 6?'B12*.' 6..52.',1',)6,'65*'8*-*60'1' ',)*'D-**0'1',)*',182C >1>9 '620'1',)*=-6>, >*' 1'>1>9C 5), 25'M+' KT' L' KKKX% &)*2',)*' >1>9' 1;20%,.'W#6',1' & *..*-2' .6' 620' ;-1=*' 8*')6+*' 21'-*>1-0% 18/1'=/;?65*' .1' 51-5*1;.'1'. [*' .1'21D/*'1' /*.)'.1'.6=0'1')6D,.'.1' 01?*.,>'1'2>-*6.*' .1'=-1/ >'81;/0'01;D,/*..'*6-/' D*' >6-- *0'6/125',)*' +6-1;.',-6>9.1' - *2,6/ >1?^ ?*->*% ()*-*' .'21',-6>*' 1' ,'.1' 6-'6.'8*'6-*'686-*' 12' ,)*' ?12;?*2,.'1')6-612>' 5A7=,'D;,'8*' 20' ,)*' >1>9' 5;-*0' 2',)1.*' 1' .. - 6% 2' 6')2,2*'

2> *2,' .. - 62' 46?*C>1>9%

620' .)11, 25' .>*2*' 0*=>,*0' 6,')1-.6D60'M 1,,6'=% >+ C>L +X',)*' .>*2*' .'/6 0' 2'6' 1-*.,'8)1.*' >)6-6>^ ,*- .,>.' .**?',1' 20 >6,*' 6' ?1;2,6 2' -*5 12' .;>)'6.' <*0 6' 1-' -?*2 6% < ;>)' 56?*' .' -*=-*.*2,*0' 2^ >/;0 25'?62A?9 20.'1 'D -0.'12*'1'8)>)'.**?.',1'D*' ,)*' =)*6.62,% ;,C,)*' ?1.,' 2,*-*., 25' .' 6' /6-5*' D -0'8)>)'6==*6-.' -1?' ,.' 1-?'56,'620'6->)25' ,6/,1'D*' 1;-' >1?12' >1>9T ,' .' 86/9 25' 12' ,)*' 5-1;20'6?0.',)*' =-' 1' 6-'6.',) .' .I'*+ 0*2>*%

,' 81;/0'51',1' =-1+*' ,) 6,' ,)*' 18/' 2' 6' 8 /0' ..,6,* ' *L^ .,*0' 6,' ,) 6,' =*- 10' 2' & *.,*-2' . 6 ' ,) 1 ; 5)' 218' ;2^ 92182' 12',) .' . 0*' ,)*' 20 ; .% ()*' >1>9' 620') *2' 6-*' 0 ., 2>,/ ' -*=-*.*2,*0' 2' ,)*' d62,) 62' .>; /=,;.-*. ' 1 ' 62' *-6' =-1D6D/ ' >12,* ?=1-62*1 ; .' 8 ,)',)*')1-.6D60' =6/6>*' 1 ' 2*+*)% ()* ' 6==*6-' 6/.1' 12' ,-; .>62' =6 2, 25. ')6+ 25' =-1D6D/ ' 6' ? ;>)') 5)*-' 62, _; , ' M<-.% 4-6 .' 6 1' =% KQ' X%)*' *6-/ ' 4-**9.' 620' 1?62.' 5;-*',)*?' 12',) * -' >1 2.' 620' 5* ?. ' 620' .=*69' 1 ',) * ?' 6.' =*- *>,/ ' 6? / 6-' 1DA*>,. ' 8 ,)' 21' 6/^ /; . 12' ,1',) * -' 2,-10;>, 12% ()* ')60' *+*2' 1;20' ,)* -' 86 ' 2,1' -,6 2' 6,' .1?*' ;292182' =*- 10' /125' 62,*- 1-',1',)*' 1?62' 2+6. 12' 1-' .*.6-',*//.' ; .' 8 ,)' . ;-=- .*',) 6,' ,)*' -,12.' 0 0' 21,' ,) 29' ,' - 5),' ,1' *6,' ,)*' 511.*' 1-' ,)*')*2' ,) 1 ; 5)' ,)* ' D-*0' D1,)' 1-' ,)*' =/*6. ; -*' 1 '9**= 25',)*?' I1; ' ? !' / D% +X% () .' .' 6' +*- ' 2,*-*. , 25' 6//;. 12' . 2>*' 8*' 6-*' >1?=*//*0',1' -* *-',)* -' 2,-10;>, 12' 2,1',) 6,' ./620',1',)*' 65*2> ' 1 ',)%)1*2 > 62. ' 8)1',-60*0',1' 1-2 86//' 1-' , 2' >*2^ ,;- -*.' D* 1-*' 1?*' 86.' D; /,% $20*-',)*.*' > ->; ?^ .,62>*. ' ,)* -' 6D.*2>*' -1?' 5 =,' 8)*-*' 2' ?10*?' , ?*.',)* ')6+*' D**2' 6-,/0> 6//E 7D-*0',1' .1' ? ?*2.*' 62' *L,*2, ' D*>1?*.' 6' -*?6-96D/*' 620' ;26>>1;2,6D/*' 6>,% ()*E' 8*-*' 20**0' ,' ?6 ' D*' .;-? .*0' ;2^ 92182' 2' 5 =,' 8)*2',)*' <1.6 >' /68' 86.' =-1?;/56^ ,*0' 620',)1;5)' ?=1-,*0' .112' 6 ,*-',)* ' 6/86 .' -*^ ?6 2*0' 2' 62' ;20*,*-? 2*0' >120, 12' 2* ,)*-' >/*62' 21-' ;2>/*62') ;,' / 6D/*' ,1' D*' 0*>/6-*0' * ,)*-' D '0*> .^ 12.' .86 *0' D ' =-*A;0 >*' 1-' D ' 62> ;/ 626/15 *.' =*-)6=.' >) * / ',)*' /6,,*-' I D*>6 ; .*' =1 ; /,-E' 6-*' 0*+1 ; -C *-.' 1 ' ;2>/*62' 62 ?6/.' .>1-= 12.' .>1/1=*20-6' 7?6// [6-0.' 620' 1;25' .*-=*2,.' 1 '*+*- ' 9 20% ;.' 6/^ ,)1;5)',)*' -*6- 25' 1 '>1?? 12' 18/.' 86.' 21,' *2>1;-^ 65*0' D ',)*' : *D-*8 '=1=;/6, 12' ,' .'*+ 0*2,/ '0-68 25 f 2 *-*2>*.' D* 120',)*-' =-1=*-' D1;20.' 8)*2' ,' .' 6^ .*-,*0' M.**' 4 3' ,)6,',)*' 8*-*' ;292182' 2' B*-; .6/*?' 8)*-*' > + / 86-.' 620' 4-**9' 620' 1?62' 01? 2 12')60' 5-*6,/ ' 6 / >>,*0',)*' 26, 126/ f ?622*-.% **' !

2',)*' 0*2 6/.' 1 ' *,*-' 0*.>- D*0' 2',)*' 1 ;-' 41.^ =*/.' 8)*-*',)*' >1>9C>-18 25' M.**' D*/18% .' ?*2, 12*0' D ' 1 ;-' 1-0' ,)*' 81-0.' 6-*' =/6 2' 620' 0 -*>, f 21, ' 8*' ,) 29' 60? ., 25' 1 '>6+ / ' 1-' 1 ' D* 25', 69*2', 1' . 52 ' 62 ,) 25' D ; ',)*' -*6/ +1 >*' 1 ',)*' D -0',)*' 0d >-1=1C I% % '6.' ,' .' *L=-*..*0' 2' <6-9' L / ' N ' 2' ,.' / ,*-6/ 6>>*=,6, 12' 620' 21,' 6.' 0*21, 25',)*' .1 ; 20' 1 '6',-; ?^ =*,' .1' >6//*0' D*>6 ; .*' ,' =-1>/6 ?*0' 6' 86,>)' 2' ,)*' 2 5),f 1-',1' +)6,' */.*',)62' 6'-*6/) *2' 620') *-' D-110' 01*.' 1 ; -' 6+ 1 ;-' 6//;0*' 2' ;9*' L 'N ' 8)*-*',)*' ,*L,' .' =-11',)6,',)*' ?65*' 1 '=1 ; /,-' 86.' 6? / 6-',1' ,)*' 0 .> =/*. ' 620' >12.* ,;*2,/ ' ,)6,',)* ' 8*-*' 21,' -6-*' 2' B ; 0.*6H (1',)*' =-*.*2',' ?*' 2',)*' 6.,' 620' 12',)*' 12, 2*2,' 1 ' ;-1=*',) .' D -0' .' ., // 1 ,*2' 9*=,' 6.' 6?125.',)*' */,6*' M 6*.6-' ; !' ? 2!' + ' KX' 21,' .1' ? ;>)' 1-' 110' 6.' 1-',)*' =;-=1.*' 1 '6221 ; 2> 25',)*' 6=-16>)' 620' 0682' 1 '06 ' M ,,1' .% + %T 6 -D6 -2' .' % +%X% **' % !

1> C f 4' M0d a-1=1 6P+8X% ``()*' >1>9' ; .;^ 6// ' >-18.' .*+*-6/ , ?*.' 6D1 ; ,' ? 02 5),' 620' 656 2' 6D1 ; ,' D-*69' 1 '06 % ()*' /6,,*-',?*' D*>6 ; .*')*' ,)*2' >-18.' /1 ; 0*.,' 620') *' ' .)- // >/6- 12! .' ?1.,' ; .* ; /D' .;?? 12 25' ?62',1') .' /6D1-.' 1D,6 2*0',)*' 6==*//6, 12' 1 ' " ' >1>9C>-18 25' *?=)6, >6// ' 620' D ' 86 ' 1 '*? ^ 2*2>*' ,)1;5)' .1?*, ?*.',)*' 0 ., 2>, 12.' 1 ',)*' D ' 620') *6,)*2' 8 -,*-.' M 1>)6-,' - ' RX% ()*.*' , ?*., ' 620 3 ,)*.*' 26?*.' 1-',)*?' 8*-*' 21' 01; D, ' .1?*' 1 ',)*' ?1.,' 62> *2,' 0 + . 12.' 1 ',)*' 2 5),' 601=,*0' 2',)*' 6.,' 8)*-*' ',)*' D -0' 1 '06 82 25' .' ?1.,' =-1D6D/ ' 20 5*^ 21;.% ()*' /6,,*-' >1>9C>-18' 86.' -*,6 2*0' *+*2' 8)*2 % 6-, 6/ 0 + . 12.' 1 ', ?*' 8*-*' 2+*2,*0% 2' 1 ;-' 1-0 .', ?*',)*' B*8.')60' *+ 0*2,/ '601=,*0',)*' 4-**9' 620' 1?62' 0 + . 12' 1 ',)*' 2 5),' 2,1' 1 ;-' =*- 10.' 1-' 86,>)*.' *6>)' >12. ., 25' 1 ',)-**')1;-.',)*' -.,' D*5 2^ 2 25' 6,' . L' 2',)*' *+*2 25' M ;9*' L 'NQT' <6,,' L +' K T' <6-9' + ' QX!' M ,,1' .% +%X% () .' 86,>)' M,)*' ,) -0' 1 ',)*.*' 0 + . 12.' >1?=-*)*20 25',)*' .=6>*' D*^

,8**2',)*' ,81' >1>9C>-18 25.X' .**?.' ,1')6+*' D**2' 6D1 ; ',)-**' 2',)*' ?1-2 25' 620' 86.' 92182',1',)*' : *^ D-*8.' 6.' >+ N' " = (81' 620' 86. ,*-?*0' D ',)*' 1?62.' T' 6 (20' ,')6.' D*2' ' .;==1.*0',)6,' B*-;.6/*?' D* 25' 6' ? / ,6-E' .,6, 12' 1 ',)*' 1?62.',)*' >;.,1?' 1',)6,' 26, 12' >12>*-2 25',)*' =/6> 25' 620' -*/ *+ 25' 1 ',)*' 5;6-0' 86.' 2' 1->*',)*-*% ()*.*' 86,>)*.' 1-' 5;6-0.' 8*-*' 0*>/6-*0' P',/,*' .1;20' 1 '6',-; ?=*,' 620' 8)*2*+*-' 12*' 5;6-0'-*/ *+*0' 621,)^ *-' ,' 86.' 6/86 .' 012*' D ',)*' ? / ,6- ' . 526/% ()*' 8)1/*' 1;-' 86,>)*.' 8*-*' >/1.*0' D ',)*' D/18 25' 1 '6' .)- //)1-2% -69*2D1->)' .0 .' ,)*' /6..',-; ?=*,' 8)>)' D/*8' 6',)-**' 2',)*' ?1-2 25' 86.' .1;20*0',)-**' , ?*.',1' ? ,6,*',)*' >-18 25' 1 '6' >1>9% **' " ' ! I' /,')6.' D**2' >12. 0*-*0' 6' >12,-60' >, 12',)6,' <6,^ ,)*8' MLL+ 'N X -*>1-0.' 1;-' 1-0',1')6+*' .6 0',1' *^ ,*-' ` * 1-*',)*' >1>9' >-18',)1;'.)6/,'0*2 ?*',)-> * I' 8)*-*6.' <6-9' ML +' .6 .' `D* 1-*',)*' >1>9' >-18' ,8 >*% ;',' <6,,)*8 ' 5 + 25' 12/ ',)*' ' 1',)*' 60?12, 12' M6.' 6/.1' ;9*' LL 'N T B1)2' L ' NQX7*+ 0*2,/ '6//;0*.',1',)6,'12/ '8)>)' 86.' ' >6//*0' " '>1>9C>-18 25' D ;,' <6-9' 8)1' 8-1,*',2^ 0*-' *,*-.' 2.=*>, 12' ?1-*' 6>>;-6,*/ ' -*>1-0 25' " ' 1' ?*2, 12.',)*',81' >1>9C>-18 25.' M&*,..* 2' 12' <6-9' L + 'N T &),D .' D1 ' 12' <6,,' LL+ 'N X 21,)*-' 1DA*>, 12',1',) .' =6-,' 1 ',)*' +625*/ >6/) .,1- ')6. ' D**2' 1;20*0' ;=12' 62' 6..*-, 12' 1 ',)*' <.)26' I; " ') (*1'+ ' X' ' ()*' 01' 21,' D-**0' >1>9.' 6,' B*-;.6/*?' D*>6 ; .*' 1 ',)*')1/ ',) 25. ' % ' 6.' ,' .' 2,*-=-*,*0' >1>9.',;-2' ;=',)*' 0;25C) //.' 620' .*,% -**',)*' -*=, /*.' D ' 8)>)',)*' .6>- >*.' ? 5),' D*' =1//;,*0' 8)>)' 8*-*' *6,*2' 6.' 110T 620',)6,'>12.*,_;*2,/ ' ' *,*-' >1;/0% 21,' " ' 12*' >-18% ;.' ,) .' .' .; > *2,/ ' 62.8*-*0' 6D1+*% +*2',)*' ,-60, 12.',)*?.*/+*.' 12',) .' .;D^ A*>,' 6-*' 21,';2 1-?T 8,2*.',)*' .,1-E' M 6' 6 " 2* =% KS X' 1 '6' 9>1>9' 8)>)' 9 //*0' 6' >) /0' 620' 86.' ._2*0' D ' 1-0*-' 1 ',)*' >1;2>/% ,)*-' 2..62>*.' 6-*' 5 +*2' D ' */620' 8)>)' .)18',)6,',)*' >1>9' ? 5),' >-18',)1;5)' ' " ' 1' 620' *,' D*')*6-0' D ' *,*-' 2',)*' .,//C 2*..71',)*' 2 5),' *.=*> 6// '6.')>' =6/6>*' 1 ' 6 6=)6.' M6>>1-0 25',1',)*' ?10*-2',-60, 12X' .,110' 12' 62' */*^ +6,*0' . ;6, 12' 6,',)*' 0 .,62>*' 1 '.>6->*/ ' ' 6-7.' -1?',)*' > , '86//. M ,,1X% 2',)*?10*-2' 6.',)*' D6-2C011-' 18/.' 6' >1? ?12' 6==*2065*',1'*+*- ')1;.*^)1/0' 620',)*' >1>9C>-1,-25' .' 6' ;2 +*-.6/. 526/1' ?1-2 25' 2' 6/*., 2*' M()1?.12' ' ; "1' ' KX%

',)*' 6.' 6')-., 62' .?D1/% M %X' 2',1?D.' ,)*' >1>9' .' 6' .?D1/1',)*' -*.;--*>, 12',)*' % 1' 1-')*-6/0' 1',)*' /5),' 6,*-',)*' 2 5),' 1 '0*6,)% MK%X' ()*' >1>9' .' 6/.1' 6' .?D1/1' + 5 /62>*% ' <6-, 5C 2 ' ' 1' & 4 " 1 '+' 1_%

1>96,-> *'=-1=*-/ '6' 6D;/1;'.'.*-=*2,'.;==1.*0',1' D*')6,>)*0' -1?' 6' >1>9.' *55' .',)*' -6,)*-' 62> ;/ ,-62./6, 12' 2' 1;-'+*-. 12' 1 ' I2 (%" 1' " 1' .6% L + 'KRX' 620' I2 %" U E' .6% L ' QT' / L ' ST' B*-% + ' X% ()*' /6,,*-' 81-0' 6/.1' 1>>;-.' 2' -1+% LL ' NK' 8)*-*',' .',-62./6,*0' 600*-%!' _; /6' 620',)*' ;/5% ;20*-.,620',)*' " "' 6' 6D;/1;'.*-=*2,' 1' 62, _;, ' 0*2, *0' D ' ?62 ' ?10*-2.' 8 ,)',)*' " 2 1' 6' .?6// 620' *L>** 0 25/ '+*21?1;.' + =*-' 1 ' - >6% '1,)*-.')1F+*+*-',)*' '1-' ')1-2^ *0' + =*-J' M>1VOS*-' '1' 22% ' " ('1' : 6..*/_; .,X')6.' D**2' ?1-*' 0* /2 ,*/ ' L*0' ;=12' 6.' ,/?' 62' ?6/ 2,*20*0' 6' +*-' =1 .121;.' .*-=*2,' 1' 7 =,' 620' 6/*., 2*' 6D1;,' 6' 11,' /125' D-182' 12',)*' D6>9' 620' .0*.' 8 ,)' 6' 8),*' D*//A '6D1;,' 6.',) >9' 6.' ,)*' 25*-' 620')6+ 25',81' 921DC/ 9*' =-1A*>, 12.' ;=12' ,)*')*;0' M>1?=% / 2 'L' X' 8)>)' 8*-*' 62> *2,/ ' >1?=6-*0',1')1-2.' M / 62' & !' ' T / 2 '+ 'N T >1?=% : *-10' ' X% ,'D;-*.' ..*/ ' 2',)*' .620' -1?' 8)>)' ,' .' .>6->*/ '0 ., 25; .)6D/*' 2' >1/1-' 8 ,)',)*')1-2.' =-1A*>, 25' 1 ;' / 9*' **/*-.' 8)*2>*' ;.;00*2/ ' 06-,.' 1-,)' 620' .* [*.' ,.' =-* ' M 10% >% ' X' M **' ,) 1>)6-,' 'K '._% T : 6..*/_; .,' - '=% cS

Q_% */12 2 6 ; / ; . .' $! 'K ST 'K QT -;>*'
- !+ '= % T & $> 2.12 'KO .*-% 'K '. _% -1.=%
/=% 5 !'& % ! +' '=% K '= % S%X ,)*-. '656 2'
-* *-' ,) .' /6. ,' ,1' ,)*' 600*- J' % *% + =*-' M_% +%X' 1 '
4*2% L/ L ' ' & 2*-' 'K S% **' / !

1>9*- '62' 1/0' 25/ .)' ,*- ?' ; .*0' D ; ' 12>*' 2' ,)*
% % 1' ,)*' =1>- =)6' M >>/ ; .% LLL ' R' - 1%GUD 1'
'6. ' 67 ; -.*X ' 2' ,)*' .*2.*' * 1'1-' ,-*6, ' 5*2, / %

1>9/*' M-, & ,6' " " "E 62' ' =/62, ' _% 0%
., 29C8**0'7 *=, %VN0-1>' C *% D-6 ? D/*X 1>>; -.' 12/ ' 2'
B1D' ddd ' a' *',) . ,/*. '5-18' 2., *60'1 '8) *6, '620'
+ ' 2., *60'1 'D6-/* %J' ,' .' =-1D6D/ ' 6' ?*-*' 5*2^
-6/ ,-.?' . 52 25' 0=*-.) 6=.' / 9*',)*' 'M7, C
. 1' ,6-*. JX' 1 ' < 6, , 'L 'N % */. ; .' I !'
RRX' 81; /0' 0*2, ' ,' 8 ,)' ,)*' 'D ; .' 4*. *2 ; .'
_ ; *. , 12.' ,) .' ID ' 'KN T 'NS X' 6.' ,)*' 81-0' ? ; . ,'
21, ' D*' >12 1 ; 20*0' 8 ,)' ,)*' =/ ; -% 1-?' " =
"WH E 8 /0' 5-6=*. J' M_' +%X' 2' .6% +' K' % *>'
8 #!

10*L' /*L62022 ; . ' *,>% **' . L
' $ / '*,>%

10*L' 6212 ; ?' >>/*. **' $2 +*-*. *' .' ,)*
26?*' 1 '6' 81-9' =; D/ .)*0' 6, ' 6- .' 2' S 'D ')- .,%
B ; . , *6 ; 'MB ; . , *// ; .X' 8) >)' ; 20*-, 119', 1' 5 +*' ,)*' >62^
12.' 1 ',)*' -. , ' >1 ; 2> /.' 2' 6' .)6=*' 6.' >12 1-?6D/*' 6.'
=1.. D/*' ,1' ,)*' >1//*>, 12' 1 '>6212.' 8) >)' ,)*' 1 ; 2^
> / 1 ')6/>*012' M X' 86.' . ; ==1.*0' ,1') 6+*' ?60*%
( ) .' ' *, >%' 86.' -*=- 2, *0' 2' ,)*' ; " !'
* !' !' ! M, 1?% '=% KRX' = ; D/ .)*0' D 'B ; . , */ ; .' 620'
1*//; .% ( )*' .; ==1. , 12' 8) >)' /*0' ,1' ,)*' >1?= /6^
, 12' 1 ',) .' 81-9',) 6, ' ,)*' 1 ; 2> / 1 ') 6/>*012') 60'
?60*' 1-' 1-0*-*0' ,1' D*' ?60*' . ; >)' 6' >1//*>, 12' 1 '>62^
12.' .' *--12*1 ; .% , ' . ' , -- ; *' ,) 6, ' ,)*' -*. 1/ ; , 12.' 1 '
,)*' 62> *2, ') ; ->)' >1 ; 2> /.' 8*-*' *6-/ ' >1//*>, *0' 620'
> -> ; /6, *0' 6? 125',) *' D .) 1=. ' 620',) 6, ' 6, ' ,)*' 1 ; 2> /
1 ') 6/>*012' ?62 ' 1 ',)*' D .) 1=. ') 60' 8 ,)' ,)*' ?' >1/^
/*>, 12.' >12,6 2 25',)*' >6212.' 1 ',)*' +*' . 210.' 1 '
>*C 2> -6' *1C , *.6-*6' 4625-6' 620' 2, 1>) 6'
-1?' 8) >)' ?62 ' =6..65*.' 8*-*' -*60% ; .' , ' 6=^
=*6-*0' ,) 6, ' 2' ,)*' 6--625*?*2, ' 1 ',)*' >6212.' ,)*' >1/^
/*>, 12.' 8 0*/ ' 0 *-*0' 620' , .' 21, ' 92182' ,) 6, ' ,)*'
>122> / , 119' 62 ' 6>, 12' 8 ,)' -*56-0' , 1' ,)*' ?6, , *-% '
& *, [*-' ; %' & */, *') " 1 !' 'S R%

10*L' ?. , 2 62*; . ' 6' 110*' >1?=1.*0' D ' 1-0*-'
1 ',)*' ?=*-1-' B ; . , 2 62 ' 620' 2, *20*0' , 1' *?D-6>*' 6//
,) 6, ' 86.' . , // 6+6 /6D/*' 1 ' 1-?*-' >1//*>, 12.' 1 ' ?=*^
- 6/ ?62 ; .>- =, .' 620' *0 >, . ' 6.' 8*// 6.' 1 ' *0 >, .' ,)*2'
-*>*2, % ( )*' =-*+ 1 ; .' >1//*>, 12.' 8*-*' % ( )*' '
? '>1?= /*0' D '4-*51- 62 ; . ' 8) 1' / +*0' 6D1 ; , '
,)*' ? 00/*' 1 ',)*' 1 ; -,)' >*2, ; - % .' >12, 6 2*0' ,)*'
12. , ; , 12. J' M,)*' >1//*>, +*' 26?*' 1-' ,)*'
.*2=72 J' 1-' -*=/ *. ' , 1' =6-, >; /6-' 2_ ; - *. ' 620' -*^
_ ; *. ,. ' 620' ,)*' 0 * ; J' 1-' 1-0*-. ' 12' 5*2*-6/ _ ; *. ^
, 12. X' 1 ',)*' *?=*-1-. ' ; =' , 1' ,)*' , ?*' 1 ' 12. , 62^
, 2*' K% ( )*' ' # '>1?= /*0' D ' : *-C
?15*2*. ' / 9*8 . *' 6D1 ; ',)*' ? 00/*' 1 ',)*' 1 ; -,)' >*2^
, ; - '620' >12, 6 2 25',)*' 12. , ; , 12. J' 1 ' 1>/*^
, 62' 620' < 6L ? 2 62' N% ( )*' ' -" '
>1?= /*0' D' 2',)*' -. , ') 6/ '1 ',)*' ,)' >*2, ; -A ' D '1-0*-'
1 ',)*' ?=*-1-' ( )*101. ; . ' 'D '6' >1?2 , , **' 1 '. L^
, **2' A ; - . , . ' 620' >12, 6 2 25',)*' 12. , ; , 12. ' 1 ',)*'
?=-1-. ' -1?' 12. , 62, 2*, 1' ( )*101. ; . % , ' 86.' =-1^
? ; /56, *0' D ' ( )*101. ; . ' 2' NQ' 2',)*' 6. , *-2' *?=-*'
620' 2',)*' . 6?*' *6-' D ' 6/*2, 2 62' 2',)*' & *. , *-2%
, ' 86.' 0 + 0*0' 2, 1'. L, **2' D119. ' 1 '8) >)',)*' -. ' , +*'
620',)*' 1-?*-' =6-, ' 1 ',)*' . L,)' 6-*' /1. , % //',)*. *'
,)-**' >10*. ' 6-*' 1 ; 20' 2',)*' % 'D '& * =
'=; D/ .)*0' D ' : 62*/% 2' *D% KQ',)*' ?=*-1-'
B ; . , 2 62 ; . ' 1-0*-*0' ,)*' =-*=6-6, 12' 1 ' 6' 2*8' >10*'
8) >)' 86.' , 1' *?D-6>*' 6//,) 6, ' 86.' . , // 1 ' =-6>, >6/
+6/; *' 1 ',)*' ,)-**' =-*+ 1 ; .' >1//*>, 12.' 620 ' 2' 600 ^
, 12' 6//,)*' >12. , ; , 12.' . . ; *0' . 2>*',)*' =; D/ >6, 12'
1 ',)*' ( )*101. 62' 10*% ( ) .' 2*8' >1//*>, 12' 86.' =; D^
/ .)*0' 2' =- /' KR% , *-',)*' =; D/ >6, 12' 1 ',)*' 62^
0*>, .' > ! >1?= /6, 12' 1 ',)*' 8 - , 25.' 1 ' 1-?*Ad : 1?62
A ; - . , . X' 620',)*' ' M62' 2, -10 ; >, 1)' , 1',)*'
. , ; 0 ' 1 ',)*' : 1?62' /68X' 621,)*-' -*+ . 12' 86.' ?60*'
2' <' D ' (- D12 62 ; .% ( ) .' 2*8' -*+ . 12' I ' %=' 1
'% (8' ., //' 1-?.' 62' ?=1-, 62, ' =1-, 12' 1 '
,)*' % 'D ' ' 8) /*,)*' -. , ' -*+ . 12' M 1-*6&
(8' .' /1. , % 2' , .' /6. , ' -*+ . 12' ,)*' 'D 2'
'>12. . , .' 1 ', 8*/+*' D119. ' *6>) ' D119' >12, 6 2 25' 6'
2 ; ? D*-' 1 ', ./*. ' 2' >) -121/15 >6/ 1-0*-% $=', 1',)*', ?*'
1 ' 12. , 62, 2*%2*6-/ ' 6// ,) *% >12. , ; , 12. ' 6-*' %'
'M-*. >- =, . XT 6 , *-',) 6, ' 8*' ?**, 8 ,)' 2 ; ?*-1 ; .' '
M*0 >, . X% ( )*' >10*' 1 ' B ; . , 2 62' . ' 1 ' 5-*6, ' ?=1-, 62>*'
1-') ; ->) ') . , 1- ' 620') ; ->) ' /68 ' 6. ' 6' 5-*6, ' ?62 '
0 >, .' 1 ',)') - . , 62' *?=*-1, .' >12>*-2*0' -*/ 5 1 ; .'
_ ; *. , 12. % 2' _ ; 1, 25',)*' >10*' 1 ' B ; . , 2 62 ' -. , ',)*'
2 ; ? D*-' 1 ',)*' >12. , ; , 12' .' 5 +*2' 2*L, ',)*' .=*> 6/
>10*' M4-*5% ' : >-? % ' (% ' B ; . , % X' -1?' 8) >)' , ' , .' , 69^
2' T 620' 26// ' ,)' , , /*T ,) ; . ' !' % !' ' !' 8) >)' ?*62. ' >12. , ; , 12' ' 1 ',)*' B ; . C
, 2 62*62' >10*' M,) 6, ' . ' ,)*' *2, -*/ ' 2*8' =1-, 12' 1 ', X'
D119' , ' , ./*' N' 8) >)' , . -*6, . ' %2 % ' ' % ' '
& *, [*-' ; %' & */, >') " 1 + ' 'SS %

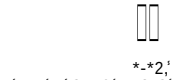
10?62 ' (' % % ' 6' 125-*56, 126/ ? 2 . , *-'
86.' D1?' 2' 1. , 12' ; 5% N QKT 5-60 ; 6, *0' 6, ' : 6 IC
+6-0' Q K' 620' . , ; 0 *0' /68' ; 2, / ,)*' 0*6,)' 1 ') .' 6^
,)*-' 8) *2')*' >1? ?*2>*0' ,)*1/15 ' 620' >1?=/*, *0'
) .' . , ; 0 *. ' 6, ' 0 2D ; -5) % , *-' =-*6>) 25' 6' *6-' 2'
4 7*6, ' - , 6 2 ')*' >6?*' D6>9', 1' ?*- >6' 620' 86.' 1-^
06 2*0' =6. , 1-' 2' 1->) *. , *-' *>*?D*-' ' Q Q% 2'
QN ')*' 8*2, ' , 1' 25/620' 6.' 0*/*56, *' , 1',)*' 125-*56^
, 126/ $2 12' 1 ' 25/620' 620' & 6/*. % : *' 0 *0' *>%
KN Q % : *' 86.' ?60*' % %D ' ,)*' >1//*5*' 1 ' *8'
B*-. * ' QKK' 620' D ' : 6-+6-0' Q % -% 10?62' = ; D^
/ .)*0' 6' N ' '6 'M QN XT $ 'M QN Q+1XT
620' 6' 2 ; ? D*-' 1 ' 1>>6. 126/ 0 . >1 ; -. >. % ' =-65 ; *' & =
' ' RK%

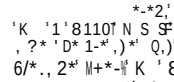
>*/*. , 2*' M 1=*X% **' !
I 1*/*. , 2. % **' !

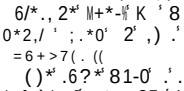
>*/*. , . ' 6' 26, +*' 1 ' -*/620' M1-' 1 ' -*, 652*'-X'
1 '21D/*' D -. , % >>1-0 25', 1' < 6- ; .' < *->6, 1-' I =
'KX ')*' 86.' 6' /68' . , ; 0*2, ' 6, ' : 1?*' 8)*2' 1C
/65 ; .' 6-- +*0',)*-*% ? D-6> 25',)*' + *8 . ' 1 ' *6C
5 ; . ')*' 6>>1?=62 *0') ?' 2' Q M1-' RX', 1' > / '620'
2' ', 1' - >6% ') . ' >) 6-6>, *-' 620', 6/*2, . ') *' . ; >^
>**0*0' *+*2' D*, , *-' ,) 62' */65 ; . ' 2' 0 ; . 25' ,)*'
+ *87' 8) >)',) * ') */0' 2' >1? ?12% : *' 86.' 6>>; . *0'
1 ')*-*. ' D* 1-*',)*' D .) 1=' 1 ' 6-,) 65*' % ' K' 620'
>120*?2*0% : *' 6==*6/*0', 1' : 1?*' 620' 12') .' 86A'
. , 1==*0' 6, ' > / ' 620',)*-*' . =-*60') .' 1= 2 12.' +> '
. ; >>*. . ; // % ( )*2>*' , ' . ' . ; ==1.*0',) 6, ') *' 8*2, ' , 1'
=) *. ; . ' 8) *-*' / *' 86.' 1-06 2*0' =-*. D , *-% 2' '
1=*' U1[? ; . ' 6, ' : *?*' 86.' .1' 6-' .6, . *0' D ',)*'
L=/626, 12.' 1 ' >/*. , ; . ' ,) 6, ') *' -*>1?? *20*0',)*'
- >62' D .) 1=. ' , 1' -*. , 1-*') ?% 2' Q') *' 86.' >12^
0*?2*0' D ' 6' . 210' 6, ' 1?*' 620' 8*2, ' , 1',)*' 6. ,'
1-' .6 *, T D ; ' 6D1 ; ' KR') *' 86.' D62 .) *0' -1?' 12^
. , 62, 21=/*' D ' 1-0*-' 1 ',)*' *?=*-1-% ( )*' 1 ; 2> / 1 '
=) *. ; .' >120*?2*0') ?' I % NN% : . ' /6, *-' *6-.'
6-*' 2+1/+*0' 2' 1D. > ; - , % ' : *' 8-1, *' 6' '
@ ' . / ' % ' " ' 620' +6- 1 ; .' *= . , /*. ' 620'
6==*6/. ' ,)*' . ; D . , 62>*' 1 ' ?1. , ' 1 ' 8) >)' >62' D*' 56,) *-^
0' -1?',)' *L>*-=, . ' 5 +*2' D ' ; 5 ; . , 2*' 620' 8*-1?*T
D ; , ' 212*' 1 ') .' 8 - , 25. ') 6+*' >1?*' 0182', 1' ; .' *2, -*%
>*/*. , ; .' 86.' 6' ?62' 1 '=; -*' ?1-6/ , ' 620' ?1-*' [>; /C
1 ; .' 620' 6>, +*' M=*-) 6=.' ?1-*') 12*. , X' ,) 62' */65 ; .'
6.' 6' >12, -1+*-. , % B*-1?*' .6 .' 1 ') ?' M2' 62' *=. , /*'
, 1' , *. =) 12' % % X' ` /,) 1 ; 5) ' 6' .>) 1/6-' 1 ' >/6C
5 ; . ')*' .' *, ' /*60*-' 620' ?6. , *-' 1 ',)*' 8) 1/*') 1. , %' J'
' C 6+*' # ' !' 221' ' ' K SE' < ; -01>) .' <1. C
)*?% " "' # ' % ' N +1/. ' Q 'T & 55*-. ,/*'
& ' ' ' ?*-. 12 . ' , -62. /% ' =% '
. _ %T >)6 ' # (' '" ' " ' " "' ' 'g %
**' + $!

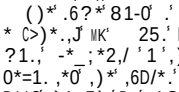
1*/7C - 6' MPX' L1 d T +=>6T ; /5% 8'
,)*' " ' - 6 J' 86.' M. , - >, / ' . =*69 25X',)*' 26?*'
5 +*2' D ',)*' 4-**9. ' 2' ,)*' , , 2*. ' 1 ',)*' */*; > 0**', 1'
,)*' -*?6-96D/*' +6//* '1-') 1//=8' M>1 dV/X 8) >)' 2, *-C

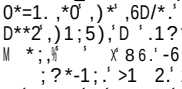
+*2*.' D*,8**2' D62 ; .' 620' 2, C D62 ; . ' .,-*,>) 25' *)%' ( ) .' 6==*6-.' 2' 6>,' ,1')6+*' D**2' ,)*' >)1.*2' -1 ?' /6,%' NNj' \L(' ,1' N j' ' 6' 0 ..62>*' 1 ' 2*6-/ ' 6' 1)1; .-*' 1 ' 01/6,- ' M 1-,*- .' ' 1' ' KT' ' NK T') ; 20-*0' ? /*.%' .' 6==/ *0',1' ,) .' -*5 12' ,) *' 81-0' .' DD = "' '$!' ' ' =%' SQ ' S T' 1D 2.12 ' ' .,- 9 25/ '0*.>- =, +*'M.**' 12 . ; . ' (!' QRRCR X7% ; !' !' =% NQ ' RK ' SK X%' ( ) *' ? 10*?' 26? *' 1 ',) *' ( ) ; .' 6' ? 10*?' ,-6+*//*-' 1D.*-+*.d *')26// ' /119^ +6//* '>12 -?.',) *' 6D1+*' + *8%' ,' .' >6//*0' ; + 1' *0' 0182' 12',) *' +6.,'5-**2' 620' -*0' +6$* ' 75-**2' -1?' 8) >)' .' .,- >,/ ',) *' .6? *' 6.',) *' : *D%' ; + +'M 2 =NX% ,.' *,' ; 2- =*' >1-2 ' -*0' -1?' ,.' + =*A76-0.' 21,' *,' +*-^ 2',) *' 6=1>-A =) 6/' D119.' ,) *-*' .' -*_ ; *2,' ? *2, 12' 062, ' 8) >)' 0 + 0*.' ,) *' -625*' 1 ' *D6212' 620' 2, C 1 ' 1*/*C - 6' 2' 6' .1 ? * 8) 6,' +65 ; *' .*2.*' 2*6-/ ' 6.' *D6212' T' ,) *' 1-? *-' -*6>) 25' ,.') 5) *.,' =1 2,' 2',) *' 62' * ; +6/*2,' 1-' - 6' M ' .0-%' ' 'K 'K T' + ' QT' .218X'?>-*.','1',) *' 21-,) 'D*) 20' 8) >)' / *',) *' *06-.' T' + ' KRT' + ' T' + ' S T' ' <6>>%' L ' 4RT' K' <6>>%' ' ' ,) *' /6,,*-' 2',) *' ., //' ? 1-*' .218 ' >-*.,' 1 ' : *-? 127' QT' + ' T' + ' QT' L ' X%' 2' 6// ',) *.*' >6.*.',) *' 81-0' ,) *' >;/ ? 26, 12' 1',) *' -625*' D* 25',) ;.' 2',) *' 12*' 6, .' 5 +*2' 2',) *' %' 6.' */SC - 6 J' %'>%' 1*/1C - 6% ,) *' 21-,) *-2 ' 2',) *' 1,) *-' 6,',) *' .1 ;,) *-2' *L,-*? , ' 2' .0-%' + ' N ' ,' .' >6//*0' . ? =/ ' - 6%J' $20*-',) *' 1 'A,) *' +6//* ' 8) >)' ,) *' D1;20%' ( ) *' + *8' 1 ',) .' *?=*-1-' 1>/*, 62 ')1*2 >*' 620' 1*/*C - 6' 1-?*0' 5-*6,' +6//* ' .' >) * / ' -*?6-96D/*' 6.' D* 25' ' ' 12*' =-1+ 2>*' >6//*0')1*2 > 6' D62 >6%' $20*-',) *' " ' ' ' " ' ' ' ' ' % ' 7,) *') 1//18' D*,8**2',) *' =-*.*2,' (; -9 .)' 51+*-2?*2,',) *' 8*.,*-2' =6-,' 1 ' >*/*C ,81' ?1; 2,6 2' -625*.' 1 ' E(6%' ' .>-**2' ,)-1; 5) - 6' .' 2',) *' =6.) 6/ >' 1 ' 6 0*' 620',) *' *6.,*-2' 2',) *' 8) >)' ,) *' *12,*.'M ,62 X' D-*69.' 1 ;,'>/1.*.',) *' .1 ;,) *' =6.) 6/ >' 1 ' 6?6.>; .%' ,,1 .%+%T' ? ,) ' .%+%' **' *20' 1 ',) *' =/6 2%' ( ) *-*' .' 6' . ? /6-' .>-**2' 6,',) *' # ! 21-,)' *20' D ; ,' ,11' -*?1,*' ,1' D1' + . D/*J' M ,62/* .' > / + ' .,620',) *' -; 2.' 1 ' 66/D*9' 1-' : */ 1=1/ .%' 2' >. / >1/. *' M 81-.) ==*-.' 1 ') *6+*2JX ,) *' 26?*' 1 '62' - >62' .*>,' 2',) *' ,)' >*2, ; - ' 8) 1' 6==*6-',1' ,) 6+*' D/*20*0',15*,) *-' .1 ?*' =6-,' 1 'B ; 06 . ?' 620' 6^ 562 . ?' 8 ,)') - ., 62 , %' 2' *0 >,' 1 ' : 121- ; .' M %' QX' 1-D 0.' ,) *-' 6..*?D/65*.' 620' 0*?620.' ,D* -' 0 .D620?*2,%' .' .,) * '6-*' >1 ; 2,*0' 2',) .' *0 >,' 6?125' ,) *') *-*, >. ' 620' 6.' ,) * ' 8*-*' 21,' . ; DA*>,',1',) *' A ; - .^ 0 >, 12' 1',) *' B*8 .) %=6,- 6->) ' D ; ') 60' ,) * ' - ' 182' >) * . ' >6//*0' ?6A1->.' 620' 6.' ,) * ') 60' 6' 9 20' 1 'D6=^ ' . ? ' ,) * ' 6-*' D ' .1 ?*' -*56-0*0' 6.' 6') - ., 62' .*>,%' ' 1,) *-.' ,) * ' 6-*' -*56-0*0' 6.' 62' 1 .) 11,' 1 ',) *' .C .*2*.%' **' >) ? 0' D M ' "' # 1' 'g' NT' 25) 6 ? ' , ' M : */ ? ., ' *+ , -.' 8*7 1+' 1/ D%' + ' RX' .' 0*- +*0' D ' 1>) 6-, -1 ?',) *' - 6>' -2 >6' 8) >)' \ ? *62. X%' 4 *.*/*-' " "' # 1' 'g' NT' 25) 6 ? ' , %%1' 620' .' 2*6-/ ' . 212 ?1 ; .' 8 ,)' ,) *' 4-**9' ' I ? !' $!' ' ' X% !' 6 !' L+ ' S K% ( ) *',*-?' 1*/*C - 6' 86.' 6/.1' ; .*0' 2' 6' ? ; >)' 8 0*-' 1*//2%' **' ! .*2.*I' 2',) *' -.' =/6>*' ' 86.' *L,*20*0' .1' 6.' ,1' 2^ >*' >/ + , ' .,620',) *' -; 2.' 1 ' 66/D*9' 1-' : */ 1=1/ .%' 2' >/ ; 0*',) *' 2) 6D ,*0',-6>',1',) *' *6.,' 1 ',) *' 2, C D6^ >*' ? ? *0 6,*' 2* 5) D1-) 110' 1 ' 66/D*9' - .*',) *',81' 2;.-*' 1 ',) *' 2;.-*' 1 ',) *' =/6 2',) -1 ; 5) ' 8) >)' ,) *' 2) 6D ,*0',-6>',1',) *' *6.,' 1 ',) *' 2, C D6^ .-*6?.' 1 ',) *' -12,*.'M 6) -C*/C . X' 620',) *' ,62 ' 8) >)' /18 25' 2' 1==1. ,*' 0 -*>, 12.',1',) *' 21-,) C8*.,' 2;-**2' 1 ',) *' 6-*' -*.' 2)*.' 620' 0 ->, 12.',1',) *' 21-,) C8*.,' 620',) *' .1 ;,) C*6.,' 5 +*' -*.) 2*.' 620' *-, / , ',1',) *' ,-6>,' *2>/1.*0' D*,8**2',) *' ?1 ; 2,6 2' -625*.%' & 1' ,) *' 26?*' 1 ',) *' =/6 2',) -1 ; 5) ' 8) >)',) *' -12,*.' /18^ *0' ' *+ , -.' 8*7 1+' 1/ D%' + ' RX' .' 0*- +*0' D ' 1>) 6-, -1 ?',) *' - 6>' -2 >6' 8) >)' \ ? *62. %%1' 620' .' 2*6-/ ' . 212 ?1 ; .' 8 ,)' ,) *' 4-**9' ' I ? !' $!' ' ' X% ( ) *',*-?' 1*/*C - 6' 86.' 6/.1' ; .*0' 2' 6' ? ; >)' 8 0*-' .*2.*I' 2',) *' -.' =/6>*' ' 86.' *L,*20*0' .1' 6.' ,1' 2^ >/ ; 0*',) *' 2) 6D ,*0',-6>',1',) *' *6.,' 1 ',) *' 2, C D6^ 2 ; .' -625*' D*,8**2',) *' 620',) *' 0*.*-,' 2' 8) >)' ..1 0' ,) *' 5-*6,' > , ' 1 ' 6?6.>; .' 620',) *' 2' ,' 86.' ; -,) *-' >6-- *0' 12' ; =12',) 6,' . 0*' 1 'B1-062',) -1 ; 5) ' (-6>) 12 C ,. ' 620' *-.*6' ,1' 0, ?1*6' 620',) *' D1-0*-.' 1 ' 5 =,' M ,-6D%' L+ ' g K T' 1/ D%' + ' Q ' g' NT' B1.*=) ; .' & 2!' ' N ' X% ,1/*? 'M+%' X' 620' B1.*=) ; .' I& !' L ' N KX' *+*2' =/6>*' > ,) 1=1/ .' 2' ?/*C - 6',) 1 ; 5) ' ,' 86.' ; =12',) *' 8*.,' . 0*' 1 'B1-062T' D ; ',) *' .**?',1' / ? ' ,.' *L,*2,' .1 ; ,) 86-0.' ,1' 6D1 ; ' /6,' N j' N ' 1-',) *' >1 ; 2,- ' 1 ',) *' ? ? 12 ,*.'M ,1/%+' T' B1.*=) ; .' & !' ' 'SX% ,1/*? '0 ., 2>,/ ' 2>/ ; 0*.' 2' ,',) *' 6?6.^ >; .' >1 ; 2,- %' 2',) *' , ? *' 1 ' 6+ 0 ' 1*/*C - 6' 86.' =-1D6D/ ' 2>/ ; 0*0' 2' - 6' 1 ' 6?6.>; . J' 8) >)' 86.' >12_ ; *-*0' D ' ,) 6,' ? 126->)' MK' 6?%+ ' SX' D ; ' -*>1+*-*0' -1?' 1/1?12' D ' *[12',) *' .12' 1 ' / 606)' M ' 25.' L 'K X% ( ) *' =1..*.. 12' 1 ' ,' 86.' 62' 1DA*>,' 1 ' ?62 ' .,-; 55/*.' D*,8**2',) *' */*; > 0 *' 620',) *' 9 25.' 1 ' 5A =,' M 1/ D%' NT' ' T' ' T' + ' T' L+ ' NRT' LL+ ' X% ( ) *-*' >62' D*' / ,,/*' 01 ; D,' ,) 6,' 6' =6-,' 6,' /*6.,' 1 ' >*/*C - 6' 86.' 2>/ ; 0*0' =',) 6,' 6// *' 1 ' *D6212J' < = N X' ? *2, 12*0' D '81.) ; 6' ML ' T' L ' X' ,) *' *L,*2,' 1 ' 8) >)') 6.' D**2',11' ? ; >)' -*.,- >,*0' D ' -*>*2,' 5*15-6=) *-.%' ( ) *' 26?*' 6// *' 1 ' *D6212J' >1 ; /0' .>6->*/ ' D*' 6==/ *0' 8 ,)' =-1=- *, ' ,1' ,) 6,' .*>, 12' 1 ',) *' 5-*6,' +6// * ' 8) >)' / *.' 6,',) *' D6.*' 1 ' : *-?12' 6,' 6' >12. 0*-6D/*' 0 .,62>*' -1?',) *' -625*' 1 ' *D6212%' 1 ; D,/*..' 66/C 460' 86.' . ,; 6,*0' 6 2C 0*-' < 1 ; 2,' : *-? 12TJ' D ; ,' 8*') 6+*' -*6.12',1' D*/ ' +*' ,) 6,',) *' 6// *' 1 ' *D6212J' 2>/ ; 0*.',) *' 8) 1/*' 1 ' ,) 6,' +6// * ' 8) >)' .*=6-6,*.',) *' - 05*' 1 ' : *-?12' -1?' ,) 6,' 1 ' *D6212%' ,' .**?.',) 6,' 6,' 6' .; D.*_ ; *2,' =*^ - 10' ,) .' +6// * ' 86.' >6//*0' D ' ?1.' 6==6-*2,/ ' 2' >12, *?=, ' ',) *' +6// * ' 1 ' 01/.J' M!A//A' : = ' >) 6=' X%' **' ' ( ) *' 26?*' 86.' ?1.', 6==-1=- 6,*%' ( ) *' 8) 1/*' . 0*.' 1 ',) *' +6// * ' 6-*' ,) >9/ ' .; 00*0' 8 ,)' 1/0') *6,) *2',*?=/*.%' <-%' 1-,*-' + . ,*0' 21' /*.' ,) 62' 1 ; -,**2' 1 ',) *? ' 620') *') *6-0' 1 ' .*+*-6/' 1,) ^ *-.%' 1?*' 1 ',) *?' 8*-*' 1 '5-*6,' . [*' 620' .=/*201-' . ; >)' 6.' ,) 1.*' 1 ' 66/D*9' < *A0*/') 6' 620' : DD6- C D = "' '$!' ' ' =%' SQ ' S T' 1D 2.12 ' ' ; !' !' =% NQ ' RK ' SK X% ( ) *' ? 10*?' 26? *' 1 ',) *' +6//* '>12 -?.',) *' 6D1+*' + *8%' ,' .' >6//*0' ; + 1' 8) >)' .' .,- >,/ ',) *' .6? *' 6.',) *' : *D%' ; + +'M 2 =NX% 2',) *' 6=1>-A =) 6/' D119.' ,) *-*' .' -*_ ; *2,' ? *2, 12' 1 ' 1*/*C - 6' 2' 6' .1 ? * 8) 6,' +65 ; *' .*2.*' 2*6-/ ' 6.' 62' * ; +6/*2,' 1-' - 6' M ' .0-%' ' 'K 'K T' + ' QT' + ' KRT' + ' T' + ' S T' ' <6>>%' L ' 4RT' K' <6>>%' ' ' QT' + ' T' + ' QT' L ' X% 2' 6// ',) *.*' >6.*.',) *' 81-0' .' 5 +*2' 2',) *' %' 6.' */SC - 6 J' %'>%' 1*/1C - 6% 2' .0-%' + ' N ' ,' .' >6//*0' . ? =/ ' - 6%J' $20*-',) *' *?=*-1-' 1>/*, 62 ')1*2 >*' 620' 1*/*C - 6' 1-?*0' 12*' =-1+ 2>*' >6//*0')1*2 > 6' D62 >6%' $20*-',) *' =-*.*2,' (; -9 .)' 51+*-2?*2,',) *' 8*.,*-2' =6-,' 1 ' >*/*C - 6' .' 2',) *' =6.) 6/ >' 1 ' 6 0*' 620',) *' *6.,*-2' 2',) *' =6.) 6/ >' 1 ' 6?6.>; .%' ,,1 .%+%T' ? ,) ' .%+%' **' # ! >./ >1/. *' M 81-.) ==*-.' 1 ') *6+*2JX ,) *' 26?*' 1 '62' - >62' .*>,' 2',) *' ,)' >*2, ; - ' 8) 1' 6==*6-',1') 6+*' D/*20*0',15*,) *-' .1?*' =6-,' 1 'B ; 06 . ?' 620' 6^ 562 . ?' 8 ,)') - ., 62 , %' 2' *0 >,' 1 ' : 121- ; .' M %' QX' 1-D 0.' ,) *-' 6..*?D/65*.' 620' 0*?620.' ,D* -' 0 .D620?*2,%' .' .,) * '6-*' >1 ; 2,*0' 2',) .' *0 >,' 6?125' ,) *') *-*, >. ' 620' 6.' ,) * ' 8*-*' 21,' . ; DA*>,',1',) *' A ; - .^ 0 >, 12' 1',) *' B*8 .) %=6,- 6->) ' D ; ') 60' ,) * ' - ' 182' >) * . ' >6//*0' ?6A1->.' 620' 6.' ,) * ') 60' 6' 9 20' 1 'D6=^ ' . ? ' ,) * ' 6-*' D ' .1 ?*' -*56-0*0' 6.' 6') - ., 62' .*>,%' ' 1,) *-.' ,) * ' 6-*' -*56-0*0' 6.' 62' 1 .) 11,' 1 ',) *' .C .*2*.%' **' >) ? 0' D M ' "' # 1' 'g' NT' 25) 6 ? ' , ' M : */ ? ., ' *+ , -.' 8*7 1+' 1/ D%' + ' RX' .' 0*- +*0' D ' 1>) 6-, -1 ?',) *' - 6>' -2 >6' 8) >)' \ ? *62. %%1' 620' .' 2*6-/ ' . 212 ?1 ; .' 8 ,)' ,) *' 4-**9' ' I ? !' $!' ' ' X% ( ) *',*-?' 1*/*C - 6' 86.' 6/.1' ; .*0' 2' 6' ? ; >)' 8 0*-' .*2.*I' 2',) *' -.' =/6>*' ' 86.' *L,*20*0' .1' 6.' ,1' 2^ >/ ; 0*',) *' 2) 6D ,*0',-6>',1',) *' *6.,' 1 ',) *' 2, C D6^ 2 ; .' -625*' D*,8**2',) *' ?1 ; 2,6 2' -625*.%' & 1' ,) *' 26?*' 1 ',) *' =/6 2',) -1 ; 5) ' 8) >)' ,) *' -12,*.' /18^ *0'

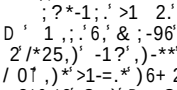


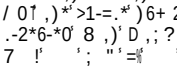


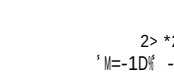


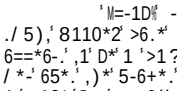


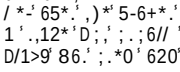


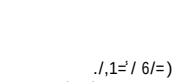


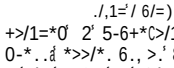


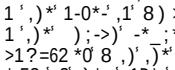


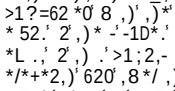


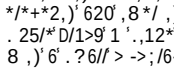












K& &) 1*+*-' >1--; =.*0' 6' ? 6 0*2 ' * ,) *-' D ' 0*>* ' 1->* ' 86.' >1 ? =*//*0' ,1' ? 62 ') *- ' 620' =6 ') *-' 6,) *-' 6' 2*' M=-1=*-/ ' ' .) *9*/. ' *; ,& LL ' KQ' . _%T ' ,) *' /6, ,*-' ? ; . ,' ., // D*' =6 0' *+*2' 8) *2' ,) *' 6,) *-'-* ; . *0' ,1' =*- ? ,' ,) *' ? 6-- 65*' M L10& LL ' T >1 ? =&) /1 ' L%%!' ' N T < .) 26 ' " "' X& ',) *' ? 62' ; . *0' + 1/*2>*') *' 1- * , *0' ,) *' - 5) ,' 1 '0 +1-> 25',) *' 81 ? 62' I*+*-' 6 , *-' M,) *' 5 =, 62' /68' 86.' D, // ?1-*' . *+*-*' 12' ,) . ' =1 2, ' 10& >' ' QX& **' 0 / ! N7' 2',) *' >6. *' 1 ' . *0 ; >, 12' 1-' -6=*' 1>>; -- 25', 1' 6' D*, -*,) *0' *? 6/*' 2' 62' 2) 6D , *0' . =1, ' .) *' ? 2 . ,' >- ' 1-') */= ' 1-' D*' >12. 0*-*0' 6. ' 6. . *2, 25', 1',) *' 0*D6 ; >) I' ? *2, ' 620',) ; . ' . ; DA*>, *0' ,1' ,) *' . 6 ? *' = ; 2 .) ? *2, ' 1 ' ., 12 25' 6. ' ,) *' ? 6/*' =6 -, T D ; , ' ' .) *' 86.' 2' 6' /12*/ ' */0 ' 8) *-*') *-' . >-*6 ? . ' 1-' 6. . . /62>*' >1 ; /0' D*' 1 ' 21' 6+6 / ' .) *' 86.' =-*. ; ? *0', 1') 6+*' D**2' 1->*0 ' 620',) *' -6+ .) *-' 6/12*' 86.' ., 12*0' M *; , & LL ' KN . _%T >1 ? =' B1. *=) & ! + ' Q ' KNT) /1 ' ' N KXT *,' *+*2' 2' ,) *. *' >6. *. ' ,) *' /6, *-' 2, *-=-*, *-. ' 1 ' ,) *' /68' ; 20*-. , 110' 6' -*= ; 0 6, 12' D ' 6' D // 1 ' 0 +1->*' 6. ' 6//186D/*' M>1 ? =& < 6, , ' ' RT .** 6 ; /; . ' ' KNX& ' =- *. , . ' 06 ; 5), *-' ,) ; . ' =/6 25',) *' >1 ; -, *. 62' 86.' M. , 12*0' 620X D ; -2, ' M *+& LL ' RX& M **' 5*2*-6// ' < >) 6*/ . ' ! 5 " ! ' N ' . _%T + ' KRQ' . _%T + ' N N' . _%X **' 1 ℂ (%

1) 1 -, ' I " 8' 6' ? / , 6- ' , *- ? ' ; . *0' D ' ,) *' 1^ ? 62. ' , 1' 0*21, *' 6' >1 ? = 62 ' 5*2*-6// ' >1 ? =1. *0' 1 ' S ' 11, ' . 1/0 *-. T 6' /*5 12' >12. . , *0' 1 ' , *2' >1) 1-, . ' * *- ' >1) 1-, ' D* 25' >1 ? =1. *0' 1 ' ,) -**' ? 62 =/*. ' 620' *+*- ' ? 62 =/*' 1 ' K ' ? *2T 6'/*5 12 ' >12. *_ ; *2, / ' >12,6 2*0' 2' 6// S ' ? *2& ,) *-. ' 6//18' D ; ' ' ? *2', 1' 6' >1^) 1-, ' 8) >)' 81 ; /0' ? 69*' ' 2' 6' /*5 12& ' . ' =-1D^ 6D/*' ,) 6, ' >1) 1-, . ' 6 ? 125',) *' 1 ? 62. ' 6. ' >1 ? =62 *. ' 6 ? 125',) *' ? 10* ? . ' 1 , *2' +6- *0' 6. ' , 1',) * -' 2 ; ? D*-& ** #! *. 0*. ' ,) *' -*5 ; /6- /*5 126- ' >1) 1-, . ' ,) *-*' 8*-*' >*-, 6 2' 1,) *-. ' . *=6-6, *' 620' 0 . , 2>, ' -1 ? 62 '/*5 12 ' 6. ' ,) *' " '2 '620' ! ; >) ' 6==*6-. ' , 1') 6+*' D**2' ,) *' ,6/ 62' D620 ! ' ? *2, 12*0' 2' >, . ' d ' ' 8) >)' 86.' 2C6, , *2062>*' 12',) *' 1 ? 62' 51+*-21-' 8) 1' 6, ' ,) 6, ' , ? *' 86.' -*. 0 25' 6, ' 6*. 6-*6& ' ,) *' . 6 ? *' 0*. >- =, 12' 6/. 1' 86. ' ,) *' ; 5 ; . , 62' D620J 1-' >1) 1-, ' M >, . ' LL+ ' X' 8) >)' ? 1. ' , =-1D6D/ ' 0*- +*0' , . ' 26 ? *' -1 ? ' *D6. , *' ,) *' >6= , 6/ 1 ' 6 ? 6- 6& ( ) *' >1 ? 620 25' 1 >*-' 1 ' 62' 1-0 26- ' >1) 1-, ' 86.' >6// *0' - " ' " ' ' , ' 86.' >1 ? =1. *0' 1 ' 1 ? 62' > , ^ [*2. ' 1-' % ' " ' ' >1 ? =1. *0' 1 ' 6 ; L / 6- ' , -11=. & **' 8 !

1 2& * 1-*' ,) *' 6D /12 62' *L /*' M. **' * / 25 ' , " ! ' KKK' . _%' 6/. 1' 2' $51/ 2 ' -" ! LL+ X' ,) *' : *D-*8 . ') 60' 620' 92*8' 21' -*5 ; /6-/ ' ., 6 ? =*0' ? 12* ' D ; , ' 5*2*-6// ' ? 60*' ; . *' 1 ' 6' > ; --*2> ' 2' , -6 >' >12. ., 25' 1 ' ; 2>1 2*0' .) *9*/. ' M1-' , 6/*2, . X' 1 ' . /+*-' 8) >)' ,) * ' " ' ', 1' 12*' 621,) *-' M4*2& LL ' ST L10& LL ' T K' 6 ? & L+ ' KT ' 25 . ' LL ' NRT B*-& LLL ' R' . _%T >1 ? =& / 2 ' LLL ' NX ' A ; . , ' 6. ' 6 ? 125' 1,) *-' 26, 12. ' 2' ? 1. , ' 62> *2, ' , ? *. ' ; 2>1 2*0' ? *, 6/ .*-&+*0' 1-' ? 12* ' M 62 ' 6-& # ' L ' T , -6D1 ' ' X ' 620' *+*2', 1',) . ' 06 ' ,) *') 2*. *' ? 69*' ,) * -' >1 ? ? *-> 6/ , -62. 6>, 12. ' D ' ? *62. ' 1 ' . /+*-' D6-. ' M 1. *2 ? ; //*-' ' ' RQT .** =*-/ 25 ' ' =' 1' 2' $51/ 2 ' -" ! LL+ X& ? 125' ,) *' *6-/ *. , ' : *D-*8 . ' D ; , ' 21, '6 , *-86-0. ' M -; . ; . ' ' ' " '% ' '% ' ' ! *, -1=1/& QX' 62' 1L' 1-' 1,) *-' 62 ? 6/ M>1 ? =& / 2 ' LLL ' NX 86.' , -60*0' 2. , *60' 1 '>6.) 'M. **' < >) 6*/ . ' >' "' ' ! ' ; " ! 2' ,) *' ! $! ' ? ! ' SK' ' X& *, ' 6/-*60 ' 2' ,) *' , ? *' 1 ' D-6) 6 ? ' ,) *-*' > ->; /6, *0' 2') ,) *-' . 6 '6. ' , '. ** ? . ' /+*-' 251, . ' 4*2% LLL ' RT B1.) ' LL + ' NKT .** 4*. *2 ; . ' -" ! # "! =' K T *-,) *6; ' =' 7 T (; >) ' ? ! =& NRR' KX' 1 ' 6' 0*, *-? 2*0' 8 * 5) , ' 8) >)' 86.' =-1D6D/ ' 20 >6, *0' D ' ? 6-9. ' M4*2& LL ' ST L/ ' K X' ., 6 ? =*0' ; =12' ,) *? ' M. 1',) *' (6-5; ?' 1 'B126,) 62' *L=/6 2. ' ,) *' 1-? *-' =6. ^ .65*' D ' & ' *& - % % 8! **' 1 ! +*2' ; 20*-' ,) *' -*5 ; /6-/ ' 1-562 [*0' : *D-*8' ., 6, *' . ? 6/ / . /+*-'= *>*. 'M>1 ? =' % % 1' + (8 ? 6 ') 6+*

=6-. *0' 2' *L>) 625*' M6. ' 6 ? 125',) * -') >*2 > 62' 2* 5)^ D1-. ' T D ; , ' . **' : *-10 ' ' R T) /1 . , -& # ! ' L ' X ' 6/^ ,) 1 ; 5) ' 0*. , . ; , *' 1 ' 26, 126/ 6 ; ,) 1 - , ' M. **' ' 6 ? & L ' QT >1 ? =& L10& LLL ' NT *+& Lak+ ' N' . _%T *; , & L + ' KSX' ,) *' D6-. ' D* 25' 8* 5) *0' 12/ ' 2' =6 ? *2, ' 1 ' /6-5*' . ; ? . ' MW1 ? =& K 25. ' L ' X ' 6/,) 1 ; 5) ' ? 10*? ' - *2, 6/ ? *->) 62, . ' 8* 5) ' 1 ; , I' *+*2' -*5 ; /6-/ ' >1 2*0' ? 12* ' M 1/2* ' N 1' ' N X& **' ' ! 1-', -62. =1-, 6, 12' 620' =-*. *-+6, 12 ' ? 12* ' 6. ' 6, ' ,) . ' 06 ' 2',) *' 6. , ' 86. ' 0*=1. , *0' 2' D65. ' MK' 25. ' + ' KNT L ' T . **' : 6- ? 1- ' , " ! ' KSKX& **' 5*2*-6// ' *-,) *6 ; ' ? "! ! ! =' ' . _%X **' 8 ! , *-',) *' *L /*' *-. 62' ? 12* ' 86.' ? 1. ' > ; --*2, ' *. =*> 6// ' ,) *' ' M_& +%X ',) *2' 4-6*>1C - 62' 1 ',) *' */*; > 0. ' M_& +%X ', // ',) *' , ? *' M & & NX' 1 ' =- 2>*' ^ ? 12' M_& xx',) *' <6>>6D**' 8) 1' . *>; -*0' -1 ? ',) *' -^ 62' ? 126-*D. ' ,) *' - 5), ' 1 ' 6' 26, +*' >1 265*' M ' <6>>& d ' sx ' 620' . . ; *0' .) *9*/. ' M_& +%X ' D1,) ' 8) 1/*' 620') 6/ ' 1 ' 8) >)' . *+*-6/ M. 1 ? *' * 5), X' 6-*' ., // *L, 62, & ( ) *' 1//18 25' >1 2') 6. ' 12' 12*' . 0*' 2' 6 ? 6- , 62 ' ,) *' 26 ? *' 1 ' ? 12' 620' . 1 ? *' * ? D/*? . ' ; =12' 8) >)' , ' . ' +* 7' 30 >; /, ' , 1' =-121 ; 2>*' 620' 12' ,) *' 1,) *-' ' ( ) *' */ +^ *-62>*' 1 ' B*-; . 6/*? J' 8 ,) ' ,) *' =6/? ℂ, -**' 620' , 81' +6. *. & ( ) *-*' 6-*' 1,) *-' >1 2. ' D*6- 25' 12' 12*' . 0*' ,) *

MB1 6' 1 ? 12' < 6>>6D. *; . %

2. >- =, 12 ' 2' 6 ? 6- , 62 ' ? 12 J' 12',) *' 1,) *-' ' *^ / +*-62>*' 1 ' B*-; . 6/*? J' 8) >)' 6-*' . ; ==1. *0', 1') 6+*

(-1D6D/>' 1 2' 1 ' ,21; ' 6-C>1>) *D6. &

D**2' . , -; >9' D ' ? 12' 6->1>) 6D ' 21, ' D ' ? 12' <6>C >6D. *; . & ( ) *-*' 6-*' ? 6-9. ' 12',) *. *' >1 2. ' 1 ',) * -') 6+^ 25' D**2' . , -; >9', 8 >*' 12>*' D ',) *' 1 ? 62' 6; ,) 1- , *. ' 620' 656 2' D ' ,) *' B* 8 . T ' ,) *-*' 6-*' 6/. 1' *L6 ? = /*. ' 1

6-/ ' B* 8 .) ' 1 2' 1 ' ; 2>*-, 6 2' 6, *%

4-**9' 620' 1 ? 62' >1 2. ' 1 ',) *. *' 01 ; D/*' , =*. ' 6==/ *0' 12*' ; =12',) *' 1,) *-& ' /*6 ' 620' +6. *' 6==*6-, 1' D*',) *' 5*2*-6/ . ? D1/. ' 1 ',) *' >1 2. ' , -; >9' 2' B ; 0. *6' 06- 25' ,) *' 01 ? 2 12' 1 ',) *') 5) C=- *. , . ' 620',) *' >1 2. ' ,) *? ^ . */+*. ' 6-*' 1-' ,) *' ? 1. , ' =6-, ' 20 *-*2, / ' *L*>; , *O& ( ) 1. *' 1 ' /*L620*-' B622. *; . ' 6-*' 6// 1 ' D-12[*' 6. ' 6-*' 6/. 1',) *' >1 2. ' 1 ' 2, 5122. T ',) *. *' /6. , ' D*6-',) *' . ? ^ D1/ 1 ' 6' >1-2; >1= 6 ',) *' , =*' 2+6- 6D/ ' 1 ; 20' ; =12' ,) *' >1 2. ' 1 ',) . ' =- 2>*& -1 ? ',) *' 2. >- =, 12. ' 12',) *

1 2. ' 1 ' 2, 512 ; . %

6D1+*' >1 2. ' , ' . ' . ; ==1. *0',) 6, ' 2, 512 ; . ' 8 .) *0', 1' 0*>/6-*' ,) 6, ' , ' 86.' 2',) *' >6=6>, ' 1 ' 0*. >*2062, ' 1 ' < 6, , 6,) 6. ',) 6, ') *' 86.') 5) C=- *. , & ( ) *' >1 2. ' 1 ',) *

B;O6*62'9 25.' -1?' : *-10',)*' -.,' 6-*'6//' 1 'D-12[*' 8 ,)',)*' *L>*=, 12' 1 '6' . /+*-' 12*' 6.. 52*0',1' : *-10' ,)*' ( ) -0 ' 8) >)' .' . ;==1.*0',1' D*' ; 2 _ ;*' ' 5- =C =6',)*' *>120',) 8*' 6-*' ?62 ' >1 2. '`.,-;>9' 6 ,*-',)*' 0*.,-;>, 12' 1 ' B*-;.6/*?' 8) >)' =-*.*2,' 1;' ,)* -' -*^ +*-.*.' =1-,-6 ,.' 1 ',)*' -* 52 25'*?=*-1-7 ( )*' 06,*H 12',)*.*' >1 2.' 0*21,*' ,)*' *6-' 17',)*' =- 2>*.' -* 52 M **' *6>)' 1 ',)*' 9 25.' 2',)*' -' 1-0*-%X +*2,;6// ')18*+*-',)*.*' <6>>6D6*62'.)*9*/.'=6..*0'1;,' 1 '> ->;^ /6, 12' 12' 6>>1;2,' 1 ' 1-* 52',-6 >' MD* 25'*.=*> 6// ' .;==/62,*0 D ' (- 62' ? 2,65*' 6>>1-0 25',1' *-,)*6; ' =% ' ._%X% **' #4 ' ! 2',)*' , ?*' 1 ')- .,' 4-**9' >;--*2> ')60' ?1../ ' =-*+6 /*0' M>1?=;^ ,*0' =-1D6D/ ' 6,' 6' 0*=-*> 6,*0' -6,*X' 1 ' 8) >)' ,)*' 1/^ /18 25' = *>*.' 6-*' ?*2, 12*0a' ,)*' " ' M_% +%X' 8) >)' 86.' ,)*' ;2 ,' 1 '+6/;*T' ,)*' " 'M_% +M%X' 1-' 01;D/*' 0-6>)?' I1 % % 1' <6,,' L+ ' K XT' 620' ,)*' 'M_% +%X' 1-',*,-60-6>) 2% ()*' .?6//*.,' >1 2' 86.',)*' % ' M ,L-1-' .>6 *' ? ,* J' <6-9' L ' KT' ;9*' L ' RX' 8) >)' 86.',)*' .*+*2,)' =6-,' 1 ' 6' 51/0' = *>*' MLT2 Ya1;,aVF 1-')6/',)*' : 1?62' _ ;60-62.' 1-' 6-^ ,) 25%J' **' ! $20*-',)*' 1?62' -;/*',)*' ?^ =*- 6/ >;--*2> ' 26,;-6// ' 1D,6 2*0' 2' 6/*. , 2*' M.**' <6,,% LL$ ' CK X' .1',)6,',)*2>* 1-,)',)*' 1?62' D*^ >1?*.',)*' .,6206-0'M.1' 2',)*' < .D26' ; ' / 1' +X' 1 'B*8 .)' +6/;6, 12' M.**' ,-125 .' # ' '6 % ' ' " ' ? % ' ==*20' X% 25/*' >1 2.' 1 ',) .' >;-^ -*2> ' 26?*0' 2',)*' % ('6-*',)*' 1//18 25a I 8' ()*' 'M_% +%X' 2' 4-**9' 'I1 * % ' (6/?% % 2>1--*>,/ ' A *22 JX',)*' ;.;6/ ;1',)*' /*L620- 62' < % 2',)*' ?6-5 2'% ' ' =1=;/6-'*., ?6, 12'>1--*.=120 25'6D1;',1',)*' ?10*-2' " :' MSX' ()*' 'M -1?' '\ %*' 'D-6..h' 8) >)' 86.'.,- >,/ ',)*' D6. .' 1 ',)*' 1?62' ?12*,6- ' . .,*?' / 9*',)*' ?10*?' % 8' 2' 4-**9' ' I1 % ' (6/?;0 >' ;.;6// ' 7 ZX' 1 ' >1==*-' M<6,,% d'KRT' ;9*' L ' SX' 1- 5 26// ' X',)*2' ,)*' 0*26- ^ ;.T' ,)D1-*',)*' * 5 ' 1 ',)*' *?=*-1-' 0;- 25' 8) 1.*' -* 52',' 86.'.,-;>9% **' + #A M 1?=% =*' C' ! ' ' .,%T 6-,)' ' ' !' & ' ' ' -" ' =.% QN %X' M>X' ()*' 4 'M1-';-6-,*-X' 2' 4-**9% + ' I) 1% -*' <6,,% +% KST' <6-9' L ' KX' 8) >)' 86.'B',)*' 6.' 6' >1==*-' >1 2% **' ' ! ()*' ,, >' 0-6>)?6' =6..*0' 6.' *_; +6/*2,',1',)*' 1^ ?62' 0*26- ;.% ()*-*' 6-*' 6/.1' 1>>6. 126/ -* *-*2>*.C ,1' 1,)*-' 620' .?6//*-' >1 2.' M.**' ,)*' < .)26' A' '$" ' 'RT' +'QT') " ' ' T' ' X' *% 5%',)*' " ' 2>6 Xb '6..6-6T' E %I 'M ! H eX bK' 6..6-6T' D*. 0*.' >*-,6 2' 62, _;*' +6/;*.' *% 5%',)*' / /' M 7 X b' ' .)*9*/' 1-' "' ,)*' .,6,*-T % "(M2 7 7.NXba= *>*' 1 ' ?12* ' 2' 5*2*-6/' *,>% M.**' ;LC' ,1- ' !' - !' >1/% ' KN ' ' Q KT' 6.*-;.' ' ' ' #1 !' % ' >% KNX% 1 2.' 8*-*' =;2>^ ,;-*0'620') ;25' 6.' 218606 .' 6-1;20' >) /0-*2 .' 2*>9.' 1-'1-26?*2,'M< .)26' " 'L ' X% M **' ,)1' !' 5 !=% N'._%T /*?? ' ' ' ' !' (// 25% N T .*2.>) ? 0,' ' % !' ' !'5 !' ? ' ' ' !' *0% K' -5*2,% N T & ;-? ' ' '% 1' ' ' ' ' !' !' %!'5 !' ' ? !' ,;,,5% QK %X' **' #! I ()*' 2,- 2. >' "' 1 ' ?12* ' 2' ,)*' +6- 1;.'=*- 10.' 1 ',)*' :*D-6*1CB*8 .)' 62, _;, ' .'+*- '0 >;/',1' *.^ ,?6,*' -1?',)*' 1>>6. 126/ 2, ?6, 12.' 1 ' ?*->62, /* +6/;*' M.**' < >)6*/ .' ' % ' !' %!'# !' ' !' 2',)*' !' X ' ? !' ' ._%X' *.=*> 6// ' 6' ,)*' ?*6.;-*' 620'_;6/ , ' 1 '6-, >/*.' ,) ;.' *., ?6,*0' .' 6/.1' ;2>*-,6 2' M.*' 1>9) ' " !'2 "!'=% K' ._%X% **' #! L6?=/*.'.1?*8)6,' 20 >^ 6, +*' 1 ',)' .' =1 2, ')18*+*-' 6-*',)*' 1//18 25a 2' , ?*.' 1 '=/*2, ' ' *=)6)' 1 ' 8)*6,' .1/0' 1-' 1' .)*9*/' 620' K *=)6).' 1 ' D6-/* ' 1-' ' .)*9*/' MK' 25.' + 'NT' >1?=% 1/ D% ' XT' 62' 5 =, 62')1-.*' 2' 1/1?12 .' , ?*' 86.' 81-,)' ' .)*9*/.'M ' 25.' L ' KRXT' N ' .)*9^ */.' 8*-*' 5*2*-6// '5 +*2' 1-' 6' ./6+*' M L10% LL ' NKT' >1?=% 4*2% LLL+ 'KQXT' 1-' '.)*9*/.'6')=6=/6 2'>1;/0' D*') -*0' 2',)*', ?*.' 1 ',)*' B;05*.' MB;05% L+ ' X% ;',' 2' /;.)%, ?*.'=- >*.' 8*-*' 1 ,*2' ?;>)') 5)*-' *% 5% 6' >)1 >*' + 2*C.,1>9' 86.')*/0' 6,' '.)*9*/ M .6% + ' KNXT' ,)*' ( ) -0 ' 8) >)' .' .;==1.*0',1' D*' ;2 _;*' ' 5- =C =6',)*' *>120',) 8*' 6-*' ?62 ' >1 2.' -.,-;>9' 6 ,*-',)*' 0*.,-;>, 12' 1 ' B*-;.6/*?' 8) >)' =-*.*2,' 1;' ,)* -' -*^ +*-.*.' =1-,-6 ,.' 1 ',)*' -* 52 25'*?=*-1-7 ( )*' 06,*H 12',)*.*' >1 2.' 0*21,*' ,)*' *6-' 17',)*' =- 2>*.' -* 52 M **' *6>)' 1 ',)*' 9 25.' 2',)*' -' 1-0*-%X +*2,;6// ')18*+*-',)*.*' <6>>6D6*62'.)*9*/.'=6..*0'1;,' 1 '> ->;^ /6, 12' 12' 6>>1;2,' 1 ' 1-* 52',-6 >' MD* 25'*.=*> 6// ' .;==/62,*0 D ' (- 62' ? 2,65*' 6>>1-0 25',1' *-,)*6; ' =% ' ._%X% **' #4 ' ! 2',)*' , ?*' 1 ')- .,' 4-**9' >;--*2> ')60' ?1../ ' =-*+6 /*0' M>1?=;^ ,*0' =-1D6D/ ' 6,' 6' 0*=-*> 6,*0' -6,*X' 1 ' 8) >)' ,)*' 1/^ /18 25' = *>*.' 6-*' ?*2, 12*0a' ,)*' " ' M_% +%X' 8) >)' 86.',)*' ;2 ,' 1 '+6/;*T' ,)*' " 'M_% +M%X' 1-' 01;D/*' 0-6>)?' I1 % % 1' <6,,' L+ ' K XT' 620' ,)*' 'M_% +%X' 1-',*,-60-6>) 2% ()*' .?6//*.,' >1 2' 86.',)*' % ' M ,L-1-' .>6 *' ? ,* J' <6-9' L ' KT' ;9*' L ' RX' 8) >)' 86.',)*' .*+*2,)' =6-,' 1 ' 6' 51/0' = *>*' MLT2 Ya1;,aVF 1-')6/',)*' : 1?62' _ ;60-62.' 1-' 6-^ ,) 25%J' **' ! $20*-',)*' 1?62' -;/*',)*' ?^ =*- 6/ >;--*2> ' 26,;-6// ' 1D,6 2*0' 2' 6/*. , 2*' M.**' <6,,% LL$ ' CK X' .1',)6,',)*2>* 1-,)',)*' 1?62' D*^ >1?*.',)*' .,6206-0'M.1' 2',)*' < .D26' ; ' / 1' +X' 1 'B*8 .)' +6/;6, 12' M.**' ,-125 .' # ' '6 % ' ' " ' ? % ' ==*20' X% 25/*' >1 2.' 1 ',) .' >;-^ -*2> ' 26?*0' 2',)*' % ('6-*',)*' 1//18 25a I 8' ()*' 'M_% +%X' 2' 4-**9' 'I1 * % ' (6/?% % 2>1--*>,/ ' A *22 JX',)*' ;.;6/ ;1',)*' /*L620- 62' < % 2',)*' ?6-5 2'% ' ' =1=;/6-'*., ?6, 12'>1--*.=120 25'6D1;',1',)*' ?10*-2' " :' MSX' ()*' 'M -1?' '\ %*' 'D-6..h' 8) >)' 86.'.,- >,/ ',)*' D6. .' 1 ',)*' 1?62' ?12*,6- ' . .,*?' / 9*',)*' ?10*?' % 8' 2' 4-**9' ' I1 % ' (6/?;0 >' ;.;6// ' 7 ZX' 1 ' >1==*-' M<6,,% d'KRT' ;9*' L ' SX' 1- 5 26// ' X',)*2' ,)*' 0*26- ^ ;.T' ,)D1-*',)*' * 5 ' 1 ',)*' *?=*-1-' 0;- 25' 8) 1.*' -* 52',' 86.'.,-;>9% **' + #A M 1?=% =*' C' ! ' ' .,%T 6-,)' ' ' !' & ' ' ' -" ' =.% QN %X' M>X' ()*' 4 'M1-';-6-,*-X' 2' 4-**9% + ' I) 1% -*' <6,,% +% KST' <6-9' L ' KX' 8) >)' 86.'B',)*' 6.' 6' >1==*-' >1 2% **' ' ! ()*' ,, >' 0-6>)?6' =6..*0' 6.' *_; +6/*2,',1',)*' 1^ ?62' 0*26- ;.% ()*-*' 6-*' 6/.1' 1>>6. 126/ -* *-*2>*.C ,1' 1,)*-' 620' .?6//*-' >1 2.' M.**' ,)*' < .)26' A' '$" ' 'RT' +'QT') " ' ' T' ' X' *% 5%',)*' " ' 2>6 Xb '6..6-6T' E %I 'M ! H eX bK' 6..6-6T' D*. 0*.' >*-,6 2' 62, _;*' +6/;*.' *% 5%',)*' / /' M 7 X b' ' .)*9*/' 1-' "' ,)*' .,6,*-T % "(M2 7 7.NXba= *>*' 1 ' ?12* ' 2' 5*2*-6/' *,>% M.**' ;LC' ,1- ' !' - !' >1/% ' KN ' ' Q KT' 6.*-;.' ' ' ' #1 !' % ' >% KNX% 1 2.' 8*-*' =;2>^ ,;-*0'620') ;25' 6.' 218606 .' 6-1;20' >) /0-*2 .' 2*>9.' 1-'1-26?*2,'M< .)26' " 'L ' X% M **' ,)1' !' 5 !=% N'._%T /*?? ' ' ' ' !' (// 25% N T .*2.>) ? 0,' ' % !' ' !'5 !' ? ' ' ' !' *0% K' -5*2,% N T & ;-? ' ' '% 1' ' ' ' ' !' !' %!'5 !' ' ? !' ,;,,5% QK %X' **' #! I ()*' 2,- 2. >' "' 1 ' ?12* ' 2' ,)*' +6- 1;.'=*- 10.' 1 ',)*' :*D-6*1CB*8 .)' 62, _;, ' .'+*- '0 >;/',1' *.^ ,?6,*' -1?',)*' 1>>6. 126/ 2, ?6, 12.' 1 ' ?*->62, /* +6/;*' M.**' < >)6*/ .' ' % ' !' %!'# !' ' !' 2',)*' !' X ' ? !' ' ._%X' *.=*> 6// ' 6' ,)*' ?*6.;-*' 620'_;6/ , ' 1 '6-, >/*.' ,) ;.' *., ?6,*0' .' 6/.1' ;2>*-,6 2' M.**

.D -*% &) /*' ,)*-*')*' >6?*' ;20*-' ,)*' 2 /;*2>*' 1 ' <*,)10 .?' 620',)*' 2>-*6.*0' 0*/ , '620'*6-2*.,2*..' 1 ') .' ? 2 .,- ' *L> ,*0' .1' ?;>)' 1==1. , 12' ,)6,')*' 6D62012*0' ,)*' =/6>*' 620' A1 2*0' &*./* ' 8)1?')*' *_;6//*0 ' ') *' 0 0' 21,' .;-=6..' 2' , 2*-62,' ? 2 .,*- 6/' /6D1-.% 2' Q ' & *./* '>12.*>-6,*0') ?' 6' D .)==' 1-' ,)*' <*,)10 .,' 2' ?*- >6' 620' 2' ,)*' .6?*' *6-')*' =-*. 0*0' 6,' ,)*' 1-562 [6, 12' 1 ',)*' <*,)10 .,' = .>1^ =6/');->)' 6,' 6/, ?1-* B//O%' 620' >12.*>-6,*0' -62> .' .D ;- ' 6' D .)1=% ' 8*' *L>*=,' .1?*' /1>6/' >12.*>-6^ , 12.' 2',)*' <1-6+ 62' .*,,/*?*2,. ' 19*' 86.',)*' -.,' -1,*.,62,' D .)1=' 1 ',)*' & *.,*-2')*? .=)*-*% 1-' ?62 ' *6-.')*' + . ,*0' -*/620' 622;6// ' 620' =-*. 0*0' 2' ,.' 12 *-*2>*.!')*' 86.'-*=*6,*0/ '=-*. 0*2,'1 ',)*' 25/ .)' 12 *-*2>*'P)*',-6+*-.*0' 25/620' >1,/620' & 6/*. ' 620' ?*- >6' ,)-1;5)1;,') .' /125' / *% :*' 86.' *.=*> 6// ',)*' 1-* 52' ? 2 .,*-J' 1 ' <*,)10 .?% : .' .,6,;-*' 86.' .?6//') .' +1 >*' *? 2 2*') ;,') .' .1;f 86.'6.'+6.,'6.' *+*-' 08*/,' 2' 6'); ?62' -6?*% ()1;5)')*' D*>6?*',)*' -.,' D .)1=' 1 ' <*,)10 .?' 2',)1' $2 ,*0' ,6,*.')*' 1;20'21,' 2' 6' 0 1>*.*' >1*L,*2. +*' 8 ,)',)1' 2*8'-*=;D/ >'-11?' 1-') .' *2*-5 *% :*' 86.'>12, 2;^ 6// '>12,- + 25' 2*8' ?*6.;-*.' 1-',)*' *L,*2. 12' 1 ',)*' 41.=*/% :.' =/62.')60')*' D***2' 6' ?62' 1 ' 1-0 26- ' 6D / , *.' 81;/0')6+*' *2, ,/*0')?',1',)*' 26?*' 1 ' 6^ 26, >T D;,')*' 86.' 12*' 1 ',)1.*' -6-*' .= - ,.' 8)1.*' 5-*6,*.,'>12>*=, 12.' 620' .>)*?*.' 6-*' ,)*' /*5 , ?6,*' =-10;>,.' 1 ',)*-' *2*-5 *.% :*' >-1..*0',)*' ,/62, >' * 5),**?, ?*.'6,') .' 182' *L=*2.*% (1',)*' *20'1 ') .' / *')*')60' >)6-5*' 1 ',)*' <*,)10 .,' ? .. 12.',)-1;5)^ 1;',)*' 81-/0% :*' 1;20*0',)*' 2*5-1' ? .. 12.' 1 ',)*' & *.,' 7 *. '(8)>)')6+*' *L*-,*0' 62' ?=1-,62,' 2 /;^ *2>*' 12',)*') .,1- ' 1 ',)1.*' ./620.% ()* ' 2>/;0*0 ' ?*?D*-.'6,',)*', ?*' 1 ') .' 0*6,)% :*' 21,'12/ + . ,*0') .' ? .. 12.' D;,'.=*2,'6/?1.',)*' & *./* 62' 12 *-*2>*' 6.' =6,- ?12 6/' 1-,;2*' 2',)* -' .;==1-,'=-*6>)*0' 1-',)*?' 620' D*55*0' 1-',)*?' -1?' 011-',1' 011-% ()*' ? .. 12^ 6- '.=-,'86.' 8 ,)') ?' 6.' 6' D;-2 25' -*' .);,';=' 2') .' D 1 2 * . 6 2 0' 0;- 25') ./' *7,' 86.' 21,' 0** ?*0' 2*>*.^ .6- ',1' 1-562 [*' 6' ? .. 126- '.1>*, '6?125',)* & *.' /* 62.' 1-')*' *?D10 *0',)6,'5-*6,' 2,*-*.,' 2') .' 182' =*-.12% &)*2' 6'+*,*-62' 1 '6/?1.,' .*+*2, ' *6-.')*' =-*.*2,*0') ?.*/ 'D* 1-*',)*' & *./* 62' 12 *-*2>*' 6.' 6' ? .. 126 ' 1-',)*' 6.,' 20 *.' ()*' 12 *-*2>*' 1D^ A*>,*0' 12' 6>>1;2,'1 ',)*' *L=*2.*'D;,' 19*' 1 *-*0',1' =6 ',)*' >)6-5*.' 1 ',)*' 1;, ;') ?.*/ ',1',)*' 6?1;2,'1 ']N '620' .1' =-*+6 /*0' 1+*-' 6// 1DA*>, 12.' 620' *?^ D6-9*0' 8 ,)' 6' .?6// P620' 1 '/6D1-*-.% :*' 0 *0' 12',)*' +1 65*' 2' Q ' 620' 86.' D;- *0' 2',)*' .*6' D;',)*' ;20*-,69 25' .;>>**0*0' 620',)*' & *./* 7 2' 6.,' 20 6' ? .. 12.' 6-*',)*' -*.- /,' ')6.' D**2' A;../ ' 6..*-,*0' ,)6,'*L>*=,' & *./* '21' ?62' 86.'*+*-'>122*>,*0' 8 ,)' ,)*' <* 10 .,' D10 ' 8)1' >12,- D;,*0' ?1-*',1' *L,*20' ,)*' D/*.. 25.' 1 ')- ., 62 , ' : .' >1//*65;*' 2',)*' *= .>1=6>' 1 ',)*' ?*- >62');->)' 81;/0' 21,'6//18' 1 '*+*2',) .' *L>*=, 12T 6' ? 2 .,*-' 1 ')- ., J' .6 0' .D;- '8)*2',)*' 2*8.' 1 ') .' 0*6,)'6-- +*0 ' 6' ? 2^ .,*-' 1 ')- .,' 2' I[*6/' 2' /6D1-.' 620' 2' .*-+ >*.',)*' 5-*6,*.,' ?62' 1 ',)*' /6..' >*2,;7 7J' & *./* ';.*0',1' .6 ',)6,' 19*' 86.' 6' - 5),')620',1') ?% & ,)6/')*' 86.' 6' +1/;? 21;.' 8- ,*-' =;D/ .) 25' &' $ " ' ' 6 1' NT & '&' ' '" ' " ' ';' 9 ' QKT .' 1-0 26, 12' .*-?12' 6,' 6/, ?1-*' Q T 620' ?62 '1,)*-' .*-?12.'12',)*' ' ' " ' $3% 1 620',)-*' ;2*-6/' 0 .>1;-.*.' 12' ,)*' 0*6,)..' 1 ' & *./* ' *+% <-% >)6-0.12 ' 620' : *.^ ,*-' 22' 15*-.T 1;-'.*-?12.'12',)*' " ' ' *:' &' ' ' " ' $ "' " % ' ' " ' 6% ' ' " ' # f : *' 6/.1' ..;50' & ' & ' ' " !$ =' ' '6 ' ' " ' $ ' '" ' % ' R T & '& ! ' ' " ' % '12' 6' =6?=)/*,I1 ' & //6?' : 6?*,' 1 ' 1;,)' 6-1/ 26T ' ' " ' $ ' 2' -*=/ ',1' *+!% <*/+ //*' :1?*' Q T ' ' ' =-*=6-*0' A1 2,/ ' C8,)',,*2- ' <11-*T # (' " ' ' ' 2' N +1/.% Q QT 2;?*-1;.' -*=1-,.' 620' 600-*..*.' 12' ,)*' ? .. 126- '>6;.*T ' "F 0 *0' *>% ' :1* *-' 7 ' ; %" ' ? +' # ' $ % ' S' +1/.% ,1' >1?=/*,*0' 2' Q T 620 ' L K%

.;D.*_;*2,GE '5 ' , ' '6 % ' ' ' 5 ' ' ' "' %" ' ' '

1/D*-,' < 62; .>- =,' M 1C -*/6, 12')*' -*,6 2*0' ;2, /' .' 0*6,)' 2' Q N% '
K >' . ' 1 (L; .X',)*/6,*.,'>- ,C ' ' 1' 'KQ T' *>9' 6 ' " 1' =% NR'
' =F71' ' >6/ 0*. 526, 12'1'6' D*6;, ;/ >;-C' K 'K K%
P' I' . +*' 4-**9' < % 1',)*' B% (%'218'
7 ' IK 0*=1. ,*0' 2',)*' 1 6/ 1-` ?=*- 6/ 1/*' : *2- ' % %'62' 25/ .)' 1?62 .,'0 + 2*' 620' 1==12*2,' 1',)*' * 1-?6, 12' 86.' D1-2' 6,' 410.C
N D-6-X176,' 6- .'1'8) >)' ,' .' 1') //' ./*' 1' & 5),' 620' 86.' *0;>6,*0' 6,' & 2>)*.,*-'
7 C ' 5 'M 1/D*-,% KQ XT' ;.;6// '0*. 5C >)11/' 620' *8' 1//*5*' L 1-0' 87*-*')*' D*>6?*'
g' D' 7' 26,*0' 6.' NN 1',)*' 41.=*/.' N 1 */18' 2' KN% 2' ')*'B7*>6?*' -*>,1-'1')*/?F'
=' ' ' ,)*' >,.'620' >6,)1/ >' = ../*.'620 1-0' 2' K' 86-0*2' 1' *8' 1//*5*% 2',)*' 6>>*.^
'1',)*' 6;/ 2*' = .,/*.% ,' .' . 12' 1' 086-0' ' -% 1/*' 2>/ 2*0',1',)*' * 1-?6^
+*- ' 2 =1 T,62,' E1' D/ >6/ >-, ^ , 12') ;',' 6 ,*-86-0.' -*,;-2*0',1') .' 1- 5 26/ + *8.'
> .?' D* 25' ., /*0' D ' >))1?' 620' 6 ,*-' #;**2' < 6- .'6>>*.. 12')*' D*>6?*' 6' [*6/1;.'
,)*' :**2' 6?125',)*' < % 2' 1?62.,% &)*2' -62?*-' 86.' D;-2,% 1/*'=-*6>)*0'
>;-. +*' /*,,*-.J' I6 !' '7!' -' 6' + 1/*2,'.*-?12' 6,',)*' *L*>;, 12% 2' S')*' 86.'
'K X% ,'>12,6 2.'6//',)*' 4-**9' ?60*' + >6-C5*2*-6/' 1'.= - ,;6/ , *.J' ;20*-' 6-0 26/
(*.,' *L>*=;',)*' =1>6/A=.*' 620' 1/*% : *' 86.' =-1? 2*2,' 2' 6//',)*' =-1>**0 25.'
2>/;0*.' 6' =1-, 12'1',)*' *=,'+*-^ 656 2.,' -1,*.,62,.' 2',)1.*' 0-*60 ;/, ?*.%J' 2',)*'
. 12' 1',)*' -1=)*,.' (/*' 1-0*-' -.,' *6-' 1' / [6D*,)' D*' 86.' 2*0' '?6-9.' 1-'
1',)*' D119.' .'218' ?;>)'>12 ;.*0' >12,*?=,' 1',)*' _;**2.' ?6A*7,E7J' 620' 2' <6 ' S '
D;' -1?',)*' 8-, 25',)*' '6==*6-')*' 86.' .*2,',1',)*' (18*-' 8D*-*')*' 0 0' 21,' -*?6 2'
12>*',1')6+*' D**2' 6- 625*0' 6.' /125% :*' 0 *0' 2' 12012' 2' R% % ?125') .' 8-,^
/A ;.;6/% ()*' *05*.' 1'2*6-/ '6//',)*' 25.' 6-*% ' % "' ' '5 1' T'
/*6+*.' 6-*',1?' 1-' >;,' 686 ' 1-' @ ' $ ' (" ' " ' ' ' MD1,)' 2'
)6+*' 1,)*-8 .*'0*>6 *0% ()*' < % 1L .' & ' ' X T ' ' ; " %'D 1'
)6.'D**2'?;>)' 2A;-*0'D '*L=0.;-*' / 20% SS 'Q+1% ' ,- =*'& :' ;-2*,'6 (%' '
,1'06?=2*..' 620',)*' 29')6.' " '5 :' : 119'6 ' ; %" 1' +' KS%
12',)*' 1==1. ,*' =65*' '*.=*> 6// ' 2'
,)*' >,.' .1',)6,' ,' .'+*- '0 >;/,'
,1'-*60' M(-*5*//*.' & ' ' " '
? +' 7!' G(%' =%
KX% 2',) .' 86 ')18*+*-' D '
-*60 25' + ',)*' =6-,' ,);.'
,-62. *--*0' ?62' =6..65*.')6+*'
7 ' ' D**2' -*>1+*-*0' 1' 8) >)',)*' 1- 5C
K 26/ 8-, 25') 6.' D*>1?*',1,6// '* C
` K 7 6>*0' 1-'*+*2',)*' ?6,*- 6/ >12,6 2C
' ' =*- .)*0% ,' .' 8-,,*2
7 ' K 5 12' +*//;?' 2' 1/ 1' 1-?' 8 ,)' K
/ 2*.' 2' *6>)' =65*' 2' 6' 2*
-2' -1;20')620' M8) >)' ;20*-51*.' 6
5-60;6/>)625*' 2',)*' >1;-.*' 1',)*
1' D 81-9X',)*' 6>>*2,.' .1?*, ?*.' 2*C
1' 5/*>,*0% 6--17;*' -.,'>1//6,*0',
F' ' ' 2*5/ 5*2,/ '620') .'-*60C
7' %N% 25.' 6.' >1?? ;2 >6,*0' DA' /$L
f 1' 1' 8*-*' 2.*-,*0' 2' < // .' *0 , 12' 1
' % ,)*' *8' (*.,6?*2,' 8)*2>*',)*
7 ' ' 7' 8*-*' ,-62. *--*0' ,1'&?*,6=2 .%>. =*69 25' 1') ?.*/' 2',)*' ;
' ' Z' ' 4-*.D6>)'-*C*L6? 2*0'" ,' '2'2 6-,T 'M+1/% '=% X')*' .6 .d ' Y'6'+*- '
7'7 1',)*2' *5,-;=',1'.1 2**1 6*2,*' 620' *+*2' D* 1-*' ? ' ,**2,)' *6-' ')60'
>)1/[' ;// 'D;,' ,' 81;/0' .**?'
>;-.1- / T (-*5*/*.' >6-* ;// '>1/^
/6,*0' ,' 2' Q % ' ,.' ,*L,' 86.
=;D/.)*0'D ' 6D6, *-J'M 6+ 0.12'
- ' ' ; ' 1' '
K SX% ,'*+ 0*2,/ 'D*/125.',1',)*'
/+*2,)'Z *2,;- '620' -*?6-96D/'
>12 -?.',)*'-*60 25.'1',)*'1/0*.,'
>10 >*.'*.=*> 6// ',)1.*' 9218 2'6.'
' '620' '/*62 25'>) * / ',1',)*'
/*L620- 62' -*>*2. 12% ' >- +*2^
*-' ' ' " ' ' '
'7!' - I1' =% T (-*5*//*.' 2'
: 1-2* .' 1' 2*8' *0% +'
K R% **' $ / ' 8 L
!
1/D*-,' & // 6?' 6' = 12**-'Y ',)*' <*,)10 .,'
= .>1=6/);->)' 2' &*.,*-2' *8' 1-9' 86.' 6' 26, +*'
1' < 6-A0620% : 1' 86.' 60? ,,*0' 12' ,-6/ 2,1',)*'
) /60*/=) 6' 22;6/ 12 *-*2>*' 2' R % 2' RK 8*'
20') ?' 6,',)*' 4*2*-6/ 12 *-*2>*' 2',)*' > , '1' 6/^
, ?1-*T)*' ,)*2' D*>6?*' >122*>,*0' 8 ,)' ,)*' > ->;,.'
1'(156'620',)*' /69*' >1;2,- 'M6'=*- *>,' 8 /0*-2*..'6,'
,)*' , ?*X'620')*-*')*' /6D1-*0' 6 ,) ;// '620' ;2>1?^
=/6 2 25/ '21,8 ,).,620 25',)*' 0 >;/, *.'1 '6//9 20.'
8) >)')*')60',1'*2>1;2,*-';2, /' Q '8)*2')*' /1>6,*0%
2' QKS')*' 86.'-*60? ,,*0' 6.' 6'.;=*-2;?*-6- W8) >)
1/*' : *2- ' % %'62' 25/.)' 1?62.,'0 + 2*'
620' 1==12*2,' 1',)*' * 1-?6, 12' 86.' D1-2' 6,' 410.C
>)11/' 620' *8' 1//*5*' L 1-0' 87*-*')*' D*>6?*'
//18' 2' KN% 2' ')'B7*>6?*' -*>,1-'1')*/?F'
1-0' 2' K' 86-0*2' 1' *8' 1//*5*% 2',)*' 6>>*.^
. 12' 1' 086-0' ' -% 1/*' 2>/ 2*0',1',)*' * 1-?6^
, 12');',6,*-86-0.' -*,;-2*0',1') .' 1- 5 26/ + *8.'
620' 6,*-'#;**2' < 6- .'6>>*.. 12')*' D*>6?*' 6' [*6/1;.'
1?62.,% &)*2' -62?*-' 86.' D;-2,% 1/*'=-*6>)*0'
6' + 1/*2,'.*-?12' 6,',)*' *L*>;, 12% 2' S')*' 86.'
?60*' + >6-C5*2*-6/' 1'.= - ,;6/ , *.J' ;20*-' 6-0 26/
1/*% : *' 86.' =-1? 2*2,' 2' 6//',)*' =-1>**0 25.'
656 2.,' -1,*.,62,.' 2',)1.*' 0-*60 ;/, ?*.%J' 2',)*'
-.,' *6-' 1' / [6D*,)' D*' 86.' 2*0' '?6-9.' 1-'
>12,*?=,' 1',)*' _;**2.' ?6A*7,E7J' 620' 2' <6 ' S '
)*' 86.' .*2,',1',)*' (18*-' 8D*-*')*' 0 0' 21,' -*?6 2'
/125% :*' 0 *0' 2' 12012' 2' R% % ?125') .' 8-,^
25.' 6-*% ' % "' ' '5 1' T'
@ ' $ ' (" ' " ' ' ' MD1,)' 2'
1L .' & ' ' X T ' ' ; " %'D 1'
/ 20% SS 'Q+1% ' ,- =*'& :' ;-2*,'6 (%' '
" '5 :' : 119'6 ' ; %" 1' +' KS%
1/*' ()1?6.' 62' 25/.)' 12>12 1-?.,'82.'
*0;>6,*0'6,' & *.,? 2.,*-' >)11/' 620'6,')- .,');->)%
L 1-0% 2' S S')*' D*>6?*' =- 2> =6/ 1' ,% <6-.'
:6//'8)*-*')*' 86.',;,1-',1'B1)2' 1>9*% 2' SS')*'
86.'*A*>,*0' -1?' L 1-0' D',)*' 9 25.'>1?? .. 12*-.'
1-' 212>12 1-?, '620'1=*2*0' 62' 6>60*? '6,' *,,/*C
)*60' L 1-0.)-*% ()*2>*')1' -*?1+*0',1' 12012'
8)*-*')*' D*>6?*'=6.,1-' 1'6'/6-5*' >125-*56, 12'620'
12*'1',)*'/*_ ;-*-.'6,' 22*-.' :6//% :*' 86.'6',-125'
1==12*2,'1',)*' *121? 62'M_% +%X01>,- 2*% :*' 0 *0'
2' *=,*?D*-' SR % ?125') .' 8-, 25.'6-*' ' ' =
' ' 5 '@ " ' '5 % ' *20%
SQR'Q+1T &' ' ' " ' 5 :' 9
% '5 " ' 'D ' % " ' '
" '5 !' 6/6? '@ (' '
RS%
1/*-05*' $ '0 # '86.'D1-2'6,' ,,*- '
,% <6- '2' *+12.)-*' 1'8)>)'=6-.)') .'6,)*-'
86.',)*' + >6-'12',)*' K .,'1' >,1D*-' K% 2'1-^
=)62'6,',)*'65*'1'2 2*')*' 86.'.*2,',1')- .,.':1.=^
,6/'8)*-*')6-/*.' 6?D' 86.'6?125') .'>12,*?=1-6F
-*,% :*-*')*' ?60*'+*- '5-*6,' =-15-*.,' 2' >/6.. >^
6/ 9218/*05*7' 620' 6,' 62' *6-/ 665*' =/;25*0' 0**=/ '
2,1'&?*,6=2 .%>. =*69 25' 1') ?.*/' 2',)*' ;
' ' Z' ' 4-*.D6>)'-*C*L6? 2*0'" ,' '2'2 6-,T 'M+1/% '=% X')*' .6 .d ' Y'6'+*- '
7'7 1',)*2' *5,-;=',1'.1 2**1 6*2,*' 620' *+*2' D* 1-*' ? ' ,**2,)' *6-' ')60'
>)1/[' ;// 'D;,' ,' 81;/0' .**?'
>;-.1- / T (-*5*/*.' >6-* ;// '>1/^
/6,*0' ,' 2' Q % ' ,.' ,*L,' 86.
=;D/.)*0'D ' 6D6, *-J'M 6+ 0.12'
- ' ' ; ' 1' '
K SX% ,'*+ 0*2,/ 'D*/125.',1',)*'
/+*2,)'Z *2,;- '620' -*?6-96D/'
>12 -?.',)*'-*60 25.'1',)*'1/0*.,'
>10 >*.'*.=*> 6// ',)1.*' 9218 2'6.'
' '620' '/*62 25'>) * / ',1',)*'
/*L620- 62' -*>*2. 12% ' >- +*2^
*-' ' ' " ' ' '
'7!' - I1' =% T (-*5*//*.' 2'
: 1-2* .' 1' 2*8' *0% +'
K R% **' $ / ' 8 L
!
1/D*-,' & // 6?' 6' = 12**-'Y ',)*' <*,)10 .,'
= .>1=6/);->)' 2' &*.,*-2' *8' 1-9' 86.' 6' 26, +*'
1' < 6-A0620% : 1' 86.' 60? ,,*0' 12' ,-6/ 2,1',)*'
) /60*/=) 6' 22;6/ 12 *-*2>*' 2' R % 2' RK 8*'
20') ?' 6,',)*' 4*2*-6/ 12 *-*2>*' 2',)*' > , '1' 6/^
, ?1-*T)*' ,)*2' D*>6?*' >122*>,*0' 8 ,)' ,)*' > ->;,.'
1'(156'620',)*' /69*' >1;2,- 'M6'=*- *>,' 8 /0*-2*..'6,'
,)*' , ?*X'620')*-*')*' /6D1-*0' 6 ,) ;// '620' ;2>1?^
=/6 2 25/ '21,8 ,).,620 25',)*' 0 >;/, *.'1 '6//9 20.'
8) >)')*')60',1'*2>1;2,*-';2, /' Q '8)*2')*' /1>6,*0%
2' QKS')*' 86.'-*60? ,,*0' 6.' 6'.;=*-2;?*-6- W8) >)

,*,?*0' ,' 620' 1/*- 05*')60' 21,' *21;5)' ,1' ;-2 .)') ?' 8 ,)' 06 / ' .;D. .,*2>*¼ B1.*=)' 1,,/* ' 6' D*2*+1^ /*2,' D119.*//*-' 6,' - .,1/ ' 20 25' ,) 6,') *') 60' 8- ,,*2' *21;5)'=1*?.',1' ?69*' ;=' 6' . ?6//' +1/; ?*' 1 *-*0') ?' ,) -, ' 5; 2*6.' 1-' ,)*?¼ ()*' +1/; ?*' 86.' =;D/ .)*0' 2' R '620' 1,)*-'/ ,*-6- '.>)*?*.' 8*-*' =-1A*>,*0¼ 2' R ' 1/*- 05*' ?6-- *0' <%.' 6-6)' -->9*-' 1 ' - .,1/ ' 6' . .,*-' 1 ',)*' 8 *' 1 ') .' - *20')6-/*.' /1 0¼ 2' 7RS')*' =;D/ .)*0' 6' +1/; ?*' 1 ' =1*?.' ,)*' 5-*6,*-' 2; ?D*-' 1 ' 8) >)') 60' D**2' 8 - ,,*2' 6,' *6-/ *-' =*- 10. ' 2,*-.=*-.*0' 8 ,)' .1?*'D ')6-/*.' 6?D' 620' 2' R ' 6' .*>120' *0 , 12' 6==*6-*0' 8 ,)' ,)*' 600 , 12' 1 ' .1?*' =1*?.' D ')6-/*.' /1 0¼ 1/*- 05*' 86.' 6,' ,) .' =*- 10' 1 ') .'/ *' 6' $2 ,6- 62¼ : *' Q .' 1 ') ?.*/ ' ' ' 86.' 6,' ,) 6,' , ?*' 620' /125' 6 ^ ,*-' ,) 1 ; 5)' 6' (- 2 ,6- 62' M¼*¼ ' 8' 2' =) /1.1=) ' *,' 6' [*6/1;.' $2 ,6- 62' 2' -*/ 5 12† ?1-*' 6>>;-6,*/ ' ' 86.' % " % '12*' 1 '),) 1.*' 8) 1' D*^ / *+*' 1 ;-' 1-0',1') 6+*' D**2',)*' -*6/ .12' 1 'B1.*=) '620' 8) 1' 0/6 ',)*' ?6 2'¼.,-*..' 12' ,)*' -*.;--*>, 12' -6,)*-' ,) 62',)*' >-;> L 12J' I ; !' !' ' SQX¼ 2' RQ 1/*^ - 05*' + . ,*0' 4*-?62 '620' 8*2,',)-1;5)' 6' >1;-.*' 1 ' 4*-?62' / ,*-6,;-*¼ 2') .'-*,;-2',1' 25/620')*' 8*2,',1' / +*' 6,' ,)*' 69*. ' 8)*-*' 1;,)* ' 620' & 1-0. 8 1-,)')60',)*2' .*,,/*0' ,)*' 12*' 6,' *. 8 >9' 620',)*' 1,) *.' 6,' 4-6. ?*-*¼ ()*' 6==*//6, 12' 1 ' ' 69*C=1*,.J' 86.' 5 +^ *2',1',)*.*' ,)-*'*' 8-,*-.' 6 ,*-',)*' =;D/ >6, 12' 1 ',)*' ; # !' 1/*- 05*'218' D*>6?*'>122*>,*0' 8 ,)' ,)*' - ' 1' 620' 8-1,*' D1,)' 12' =1/ , >.' 620' / ,*-6^ ,;-*¼ -1?'6D1;,' Q Q ,1' 6D1;,' Q ')*' >12,- D;,*0',1' ,)*' !' 2' Q R) *' *0 ,*0',)*' @ 1' -.,'=;D/ .)^ *0' 6.' 6' =*- 10 >6/ 6,',)*' 69*.¼ : *' /* ',',)*' 69*.' 2' Q '620' 0 0' 21,' 6 ,*-86-0.' -*,;-2',1',)*?†) .' 8 *' 620' >) /0-*2' -*?6 2*0' 2',)*')1;.*' 1 ' 1;,)* ' 620' 8)1/) 7 0*=*20*2,' 12') ?¼ 2' 1/*- 05*' -.,' 6-^ - +6/ 2' 12012')*' -*. 0*0' 8 ,)' <-¼ 67 / <12,65;' 620' 2' Q S ,)*' D*>6?*' ,)*' 5;*.,' 1 ' - 4 //?62' 6,' : 5)56,*' 2' 8)1.*')1;.*')*0 *0¼ ()*' ?62 ' - *20^ .) =.' 8/ >)' 1/*- 05*' 6,,-6>,*0',D') ?.*/ ',)-1;5)' / *' ,)*' . 2>*- , ' 620' >12.,62> ' 1 ' 8) >)' 8*-*' 6D;2^ 062,/ ' .)182 ' =/6>*' 2' 6' .,- 9 25' / 5),',)*' 6 ? 6D /^ , ' 1 ') .' >)6-6>,*-†) .' 2*5/*>,' 1 ') .' 6 ? / ' 620' *L,-*?*' >6-*/*..2*..' -*.=*>, 25',)*' 1D/ 56, 12.' D1,)' =*-.126/ 620' =*>;2 6- ' 8) >)' 0*+1/+*0' ;=12') ?' 6.' .,- 9 25/ ' //;.,-6,*' ,.' 8*692*..¼ ,' 86.' 21,' D* 1-*' ,)*' >1? ?*2>*?*2,'1 ') .'-*. 0*2>*' 2' 12012',)6,')1' 1-?*0' 62 ' +*- ' *L,*2. +*' 6>_;6 2,62>*' 8 ,)' ,)*' 8 - , 25.' 1 ',)*' /6,*-' 4*-?62' ?*,6=) . > 62. ' D ' ,)*' 601=, 12' 1 ' 8)1.*' ?*,)10' 620',*-? 21/15 ' -6,)*-' ,)62' D ' 62 ' 0*+*/1=?*2,' 1 ' 6' . .,*?7' 2') .' .;D.*^ _;*2,'=;D/ >6, 12. ')*' >6?*' ,1' D*' 6>>1;2,*0',)*' -*=C -*.*2,6$+7* 1 ' 4*-?62' ?*,6=) . >.' 2' 25/620¼ :*' =;D/ .)*0' .;>>*.. +*/ ' D*,8**2' ,)*' A *6-.' Q ' 620' QK ',)*' '$ $*',)*' ; %" ' 1',)*' D1;20' +1/; ?*' 1 ',)*' @ 1',)*' ' ' ' ' " "' '$ ' ' ' ' ' "1'620',)*' & ' '5 ! ;- 25' ?1.,' 1 ') .'/ *' 1/*- 05*' 86.' =11-' 620' 0*=*20*2,' -1?' >6-*/*..' ?=-1+ 0*2>*¼ :*' .; *-*0' 6/.1' -1?' >)-12 >' //') *6/,) ' >1?D 2*0' 8 ,)' 620',1' 6' >*-,6 2' *L,*2,' >6;..*0' D ' 6') 6D ,' 1 ' ;. 25' 1= ; ?¼ : 1' 0 *0' B ;/ ' K QN ¼ ' 6 ("' 1' % ! ' 1/*- 05*' 6.' 6'% ' 8*' 01' 21,') *-*' .=*69¼ .' 6?*,6=) . >6/ ,)*1/15 62') .' 2 /;*2>1' ;=12') .' 182' 65*' 620' *.=*> 6// ' ;=12' ,..' 1;25*-' ?*2' 1 ' 5*2 ;. ' &6.' 5-*6,*-',)62',)6,' 1 '62 ' 1,)*-' 25/ .)?62 ' :.' ?>27/ 6,.- D;.*.' 8*-*' 1 ' 6') 5)' 1-0*-' ..-625*/ ' D/*20*0' 620',)1-1;5)/ ' >;/, +6,*0¼ (1' 6' .;D,/*, ' 8) >)' 81;/0')6+*' 0 ., 25; .)*0') ?' 2' ,)*' 65*' 1 ' .>)16/.,> .?') *' 600*0' 6' 5-*6,' >1?=6..' 1 ',)1;5),¼ ()*' 0*+1, 126/ 620' *L=1. ,1- ' 8- , 25.' 1 ',)*' D*.,' 25/ .)'0 + 2*. ' .;>)'6.' : 119*-' (6 /1-' 6L,*-' * 5)^ ,12' 620' & */* ' 8*-*' >125*2 6/' 110' 1-') .' ? ., >6/ 620' -*/ 5 1;.' 26,;-*¼ & ,)') .' *2/6-5*0' 9218/*05*')*' 6D62012*0' $2 ,6- 62 .?' 620' 1-?*0' 1-') ?.*/ ' 6')6/ C>1?=/*,*' ,)*1/15 '=6-,/ '1-,)101L'=6-,/ ' ? .^ , >6/ ' 620' =6-,/ ' M,)1;5)' ;2>12.> 1;./ X =62,)* ., >¼ ,' 86.' 12*' 1 ') .' ?1.,'>)*- .)*0'.>)*?*. ') .' 6+1-^ ,*' + . 12' 2' >/1;0/620' ' ,1' >1?=1.*' 6' 81-9' 1 ' >1/1.^ .6/ =-1=1-, 12.' 8) >)' .)1;/0' *?D-6>*',)*' 8)1/*' -625*' 1 ' ?*2,6/ =) /1.1=) ' ,69*2' 2' ,.' 8 0*.,' ?*62 25' 2^ >/;0 25' 1 ' >1;-.*' ,)*1/15 ' 620' -*/ 5 12¼ :*' -*6// ' 12/ ' 8-1,*' 6' *8' 0 .>122*>,*0' -65?*2,.' 1 ') .' ? 5), ' .6.9¼ ;',)*.*' -65?*2,.')6+*' =-1+*0' 1 ' ? ?*2.*' .;55*., +*2*..',1' 1;25*-' 2,*//*>,.. J' 620' ' ?6 ')*' 1;20' 218' 6?125' *+*- ' >/6..' 1 ' 25/ .)' 0 ^ + 2*. ' -1?',)*' -160');->)',1',)*') 5)*.,' ;.* C ,*.¼ ()*' >120 , 12' 1 ',)*' 25/ .)' 7 20' 6,',)*' 1 ' 1/*- 05* .' 6==*6-62>*' .',1' D1' 21,*0' 6.' 6>>1;2, 25' 1-',)*' 8120*- ;/ 2 /;*2>*')*' 56 2*0¼ ' ()*'-*>* +*0' =) /1.1=) ' 86.' .*2.6, 126/ .?' 2' 2,*// 5*2>*' 620',)1;5), '620' ;, / ,6- 62 .?' 2' ?1-6/.' 620',)*'-*>* +*0' ,)*1/15 ' >12,*2,*0' ,.*/ '8 ,)' 0*6/ 25' 1-,) ' 8)*2' 0 ^ 06>,>',)*' 0- ') ;.9.' 1 '6' =18*-/*..' ?1-6/ .?' 620' 8)*2' 6-5; ?*2,6, +*' 8 ,)' 2. ., 25';=12',)*' *L,*-26/ *+ 0*2>*.' 1 ')- ., 62 , ¼ 4-1, ;.' 620' 6/* 1M8)1.*' ' " %"' 86.' 6',*L,CD119' 6,' 6?D- 05*X 8*-*' ,)*' 1-6>/*.' 12' ,)*' .;DA*>,' 1 ',)*')- ., 62' *+ 0*2>*.¼ - 62 .?' 620' $2 ,6- 62 .?' 6/86 .' 1;20' 6/125. 0*' 1 '. *2.6, 126/ .?' 620' ?6,*- 6/ .?') 60' >-*=,' / 9*' 6' 15CD/ 5),' 1+*-') 6/' ,)*' 6>*' 1 ' - , .)')- ., 62 , ¼ 2' ,;>)' 6' ..6,*' 1 ',) 25. ' ,' .' *6. ',1' ; 27-.,620') 18' ,)*' 6==*6-62>*' 1 ' 6' ,*6>)*-' / 9*' 1/*- 05*' 81;/0' D*' 8*/>1?*0¼ : *' 86.',) >*' 0*>/6-*0' *2*?AI' 1 ',)*' .*2.6^ , 126/ 620' ;, / ,6- 62' =) /1.1=)*-.¼ : *' 86.' -*=;,*0' ,1') 6+*' ?6.,*-*0',)*' 4*-?62' =) /1.1=) ',1') 6+*' 6D^ .,-6>,*0' -1?' ,' 8) 6,' 86.' .1;20' 620',-;*' 620',1') 6+*' 6,,6 2*0',1' 6' >/*6-' + . 12' -1?' ,)*' ;,?1.,') *5),' 1 ') ; ?62',)1;5), ' 1 ',)*' ;/, ?6,*' ;2 , ',)*'=*- *>,'620' + ,6/)6-?12 ' 1 '=) /1.1=) ' 620',)*1/15 ' 1 ',,*'-*+^ */6, 12' 1 '-*6.12' 620',)*'-*+*/6, 12' 1 ' 410¼ :*'=-1^ *..*0') ?.*/ '6' 0*+1;,' 620' 1-,)101L')-.,' 62' D*/ *+^ *-¼ <1.,' 1 '6//')*' ?=-*..*0' 620' 6,,-6>,*0',)*' 1;25' ?*2' 1 ') .' , ?*' D ') .' 21D/*' 0*6/ 1 ',)1;5),' 620' =;-^ =1.*') .' - *+*-*2,' .= - ,') .' 6-C.** 25' =-6>, >6/ 8 .^ 01?') .' >- , >6/ 620' 2,; , +*' .656> , ') .' ;2 12' 1 ' 0**=' /*6-2 25' 2*',6.,*' 620' -*>/;.*')6D ,.' 8 ,)' =) /^ 1.1=) ⊁ D-*60,)' 1 '+ *8' 620' 8 0*') ;?60' . ?=6,) *.¼ ' 2*' ?6 2' =1 2,' =*-)6=.' " ' ?6 2' =1 2,' 1 ' 1/**^ - 05*.' " %"' 86.',) *' 62, 62' 0 ., 32>, 12' D*** 2',)*' -*6.12' 620',)*' ;20*-.,620 25¼ $=12',) .' 0 ., 2>^ , 12' 1/*- 05*' 5-6 ,*0') .' =*>;/ 6-' 620' 6.' 8*',) 29' ;2>)- ., 62' 01>,- 2*' 1 ',)*' 151.¼ <62 ' 8)1')6+*' 21,' 1//18*0' 1/*- 05*' 2',)*',)*1/15 >6/ 01>,- 2*')6+*' 65-**0' 8 ,)') ?' 2' -* *-*2>*',1',)*' ?*,6=) . >6/ 0 .^ , 2>, 12' 6>>1-0 25',1' 8) >)',)*' ;20*-.,620 25' .',)*' /15 >6/ 6>;/, ' 2' ?62',)*' -*6.12' .¼,)*' 2,; , +*' 6>^ ;/, ' 8) >)' .,620.' 6>*',1' 6>*' 8 ,)' .= - .;6/ 620' *.^ .*2, 6/ ,-;,)1' 620',)*' ? ?*0 6,*' 1DA*>,' 1 ' 8) >)' .' 6.' <-¼<1-*//.6 .' `,)*' 5110' ,)*' D*6;, ;/ ' 620',)*' ,-;*¼ ()*' 2,; , +*' 6>;/, ' 2' ?62') 6.',);.' 6.. 52*0' ,1' ,' 62' *2, -*/ ' .*=6-6,*' .=)*-*' 620',) 6,',)*') 5)*.,¼ ,' 08*//.' 2' 6' -*5 12' 6=6-,' */*+6,*0' 6D1+*' ,) 6,' 1 ',)*' /15 >6/ ;20*-.,620 25' 620' .' _; .*' 20*^ =*20*2,' 1 ' ,¼ * 25',);.' 20*=*20*2,' 1 ',)*' ;20*-^ .,620 25' ,' .' 20*=*20*2,' .1' 6-' 6.',)*' ?1-6// 5110' 620' - 5),' .' >12>*-2*0' 1 '-*+*/6, 12'2/.S'M8) >)' ?;.,' D*'=-*.*2,*0',1' ,') ,)*' 6-' 6.' ,' ?6 ' D ' ,.' 182' / 5),' 620' 6;,)1-, ' 6=^ =-1+*' 620' 86--62,',)6,' 8) >)' -*+*/6, 12' D- 25.' D* 1-*' ,¼ 1-' -*6.12' ;20*-.,110' 6.' 6D1+*' 0* 2*0' ?;.,' 8)*,)*-' 2' ?6,,*-.' 1 ',6..*' >- , > . ?' 1-' ?1-6/.' D*' ,)*' .;=-*?*' A;05*' 620' D*' 6' /68' ;2,1' ,.*/ ¼ ();.' ,)*' .* 2, //6, 1271' 5*2 ;.' 0*+*/1=*0' 2,1' <6;- >*.' 01>,- 2*' 1 ',)*' 0*2, >6, 12' 1 ',)*' fD-0' 1-' 12' _' 410' 8 ,)' 6//?*2' 8 // D*' -*60 / ' .**2¼ : 18' 2*6-/ ' -*/6,*0' ,' .',1',)*' ?10*?' 62,)*' . ?' .' 21' /*..' 0D+ C 1;.¼ 1/*- 05*' 2' 6'=6..65*' 1 ') .' - +1' 8 ,)' 8) >)' ?62' =6..65*.' 2') .' 8- , 25.' ;// ' 6>>1-0' .=*69.' 1 ' ',)6,') 5)*-' .,6,*',1' 8) >)' - .,1,/1' >1;/0

2*+*-' -6 .*') ?.*/ ' D ; ,' 8) >)' 86.' 26, ; -6/' ,1' /6,1 ' 620')6.' D**2' ,1' 1,)*-.' \) ?.*/ ' 1-' 2.,62>*h' ' 2' 8) >)' ,)*' ; 20*-.,620 25' .' 0 ., 2>,/ ' >12,*?=/6,*0 ' 620 ' 6.' ,' 8*-*' /119*0' 0182' ; =12' -1?' ,)*' ,)-12*' 1 ' 6>,; 6/' 0*6. ' 1-' / + 27-' 2D1-2 ' *..*2, 6/' ,-;;).%I' : *' .=*69.' 1 ',)*' .= - , .' 6.>*20 25' 2,1' ,)*' *?= -*12' 1 ' 0*6.%' : *' 0*2, *.',)*' -*6.12' 8 ,)' ,)*' 0 + 2*' 11' 51.' ?69 25') ?' 2' ,) .' .*2.*' ,1' D*' ,)*' `/ 5),' 8 ) >)' / 5),*,)' *+*- ' ?62' ,)6,' 1?*,)' 2,1' ,)*' 81-/0%I' : *' 0*2 *.' 6.' ?62 ' )6+*' /*6-2*0' -1?' ) ?' ,1' 0*2 ' ,)*' =1.. D / , ' 1 '6' -*+*/6, 12' '" !' : *' .=*69.' 1 ',)*' ( - 2 , ' 6.' 62' ` 0*6 ' 620' 626/ [*.' ,) .' ` 0*6' 2' . ; >)' 6' 86 ' 6.' ,1' -*.1/+*' ,)*' (- 0 ; 2 , ' 2,1' 8)6,' .' -*6// ' 21'D*,,*-',)62'6'-* 2*0' /6,12 [*0' 6D>/$62 . ? ' 12/ ' 21,' 6D*// 62 . ? ' D*>6 ; .*' 21,')6//18*0',1' D*' >12>*' +*0' ; 20*-' 62 ' >120 , 12.' 1 ' , ?*' 620' .=6>*% ; >)' 6-*' .1?*' 1 ',)*' -*. ; /, .' 1 ' 1/*- 05* .' =*>; / 6-' =) /1.1=) ' 6.' 6==/ *0' ,1' .1/+*' 1-' 6.' ; .*0' ,1' ? *6. ; -*' 620' 0* 2*' ,)*' ? .,*- *.' 1 'D* 25') ; ?62' 620' 0 + 2*J' M.**' ;-- ' 2' " ' 1' B62%' Q ' 6-, ' T' 620' 55' 2' 1 "I' ' =- / ' Q S' 6-,%' T' B ; / ' Q S' 6-, ' X% ' : .' + *8.' 1 ' % 1' 6.' 5 +*2' 2' ,)*' ' ' 4 '$% ' 6-*' 6/?1.,' 6.' /18' 6.' ,)1.*' 1 ' ,)*' 6, 126/ .,.% : .' .)*1- ' 1 ',)*' .'**?.' ,1' *L>/ ; 0*' 7 ?1.,' *2, -*/ ' ,)*' 0*6' 1 ' .; D., ,:, 12 ' 2' 1-0*-',1'6+1 0' 8)6,')*' >6//.' ,)*' >1?7*-> 6/J' ,D*1-Ef ()*' 12/ ' ;2 1-?' *0 , 12' 1 ' 1/*- 05*.' 81-9.' .' ,)6,' 1 ' -1 *..1-')*00' M % % : 6-=*-.' Q N' ' +1/.% K?1X% -* L*0' ,1' ,' 8 // D*' 1 ; 20' <6-.) .' 60?-6^ D/*' -*/ ? 26-E' ..6 ' ,1' ,)*' & ' # ' 620' 6/.1' 62' 6D/*' 620 5*2 6/' 2,-10 ; >,1- ' ..6 ' D ' -1^ *..1-')*00' (/*' 81-9' 2**0.' 21,) 25' D ; ,' 62' 20*L' ,1' D*' >1?=/*,*% ' 4 //?62 .' ' ' 'M 120% QQQX' ,8%1' +1/ ; ?*.' 8*-*' =-1? .*0' D ; ' 12/ ' 12*')6.' 6==*6-*0% 2' Q 4 6==*6-*0' : -%B%' ?12'M 120%' K' +1/.% Q+1X% - , ^ >6/*..6 .' 12' 1/*- 05*' 6D1 ; 20' 2' ,)*' /*60 25' -*+ *8 .& 6?125' ,)1.*' ,)6,' *L6? 2*') .' =) /1.1=) >6/' ,)*1/15 ' 620' ,.' -*. ; /, .' 6-*' =6=*-.' 2' ,)*' " '$% '+ ' S T' ' 'LL' C T' ; " '$ ' +' T' -" 'D ' 'M 1-0 .X' ' SN T' & !' ; ' % ' ;, ' Q R' 6-,%' T' ; "' ' B62%' QS ' 6-,%' +% 7

1/*. ' / */ 6 ' 6' 26, +*' 1 ' 1-,)6?=,12.) -*' 86.' ?60*' .,*86-0' 1 ' <6506/*2' 1//*5*' L 1-0' 0 ; -^ 25',)*' 1?? 128*6/,)' 8)*2',)*' 6?1 ; .' 20*=*20*2, ' -% 41108 2' 86.') *60' 1 ' ,)6,' >1//*5*% ,*-' ,)*' *.,1-6, 12' D*' 1D,6 2*0' 6' >/*-9.) =' 2',)*' 6.,' 20 6' : 1 ; .* I 8) >)') *' .' .; ==1.*0' ,1')6+*')*/0' ; 2, /') .' 0*6,)' 2' SQQ' : .' 26?*' .' =-*.*-+*0' D ') .' 8*//C 92182' ,-*6, .*' *2, ,/*0' &' % ' - ' ? 1' $ %' 1- 5 26// ' =; D/ .)*0' 2' S N ,1' 620' ?62 ' , ?*.' -*=- 2,*0% ' .',)1-1 ; 5)/ ' 6/+ 2 ., >%

1/*. ' 4 *1-5*' 6' ?2 .,*-' 1 ',)*' <*,)10 .' = .>1^ =6/'); ->) ' 620' 1-' ?62 ' *6-.' 6' A1 ; -26/ .,% : 1' 86.' D1?' 2' 25/620' B ; 2*' K RK T' >12+*-,*0' 6,' ,8*/+*' D*>6?*' 6' /1>6/=-*6>)*-' 2' Q T' *? 5-6,*0',1' ?*-^ >6' 2' Q Q' 620' ??*0 6,*/ ' *2,*-*0',)*' , 2*-62,' ? 2 .,-' 2' ,)*' *8' 1-9' 12 *-*2>*% : *' 86.' 62' '* **, +*' =-*6>)*-J' 1-',) -, C,)-*' *6-.' 620' 12',)*' .,' 1 ' <6 ' Q Q')*' 0 *0' 2' *8' 1-9% : *' 86.' 62' 2+6/ 0' ?1-*',)62')6/ '1 ') .' / *' *,' *? 2*2,/ ' >)**-^ ; / 620' ; .* ; /% ()1 ; 5)') .' 60+62,65*.' 1 ' *0 ; >6, 12' 8) /*' 71 ; 25' 8*-*'/ ? ,*0')*' 86.' 2*+*-,)*/*..' 6' +*- ' 8*/C-*60' ?62' 620' 1-' ,8*/+*' 7 -.' 86.' *? 2*2,/ ' .; >>*.. ; / 6.' 6.. .,62,' *0 ,1-' 1 ' " " & 'D 1' 620',)-**' *6-.' .1/*' *0 ,1-' 1 ',)*' $ M " '& '620' ; 206 C.>)11/' D119.% ?125') .' =; D/ .)*0' 81-9.' 6-*' -" ' &' 'M Q?1X' ' " ' 'M Q)1X' $ % ' 'M Q?1X' ' " ' ' 'M Q?1X' ' ' ' < ' '& ' M Q?1X' 620' # ' ' " ' 'M K?1X% <-% 1/*.' 86.' 6' . 2>*-*' 620' . ?=/*C)*6-,*0')- ., 62' 5*2,/*?62' /1+ 25' 6//' D ' 6//' D*/1+*0% .' 6' =-*6>)*' T' 6/,)1 ; 5)' 21,' =18*- ;/') *' 86.' >/*6-' 2.,-;>, +*' =*-.;6. +*

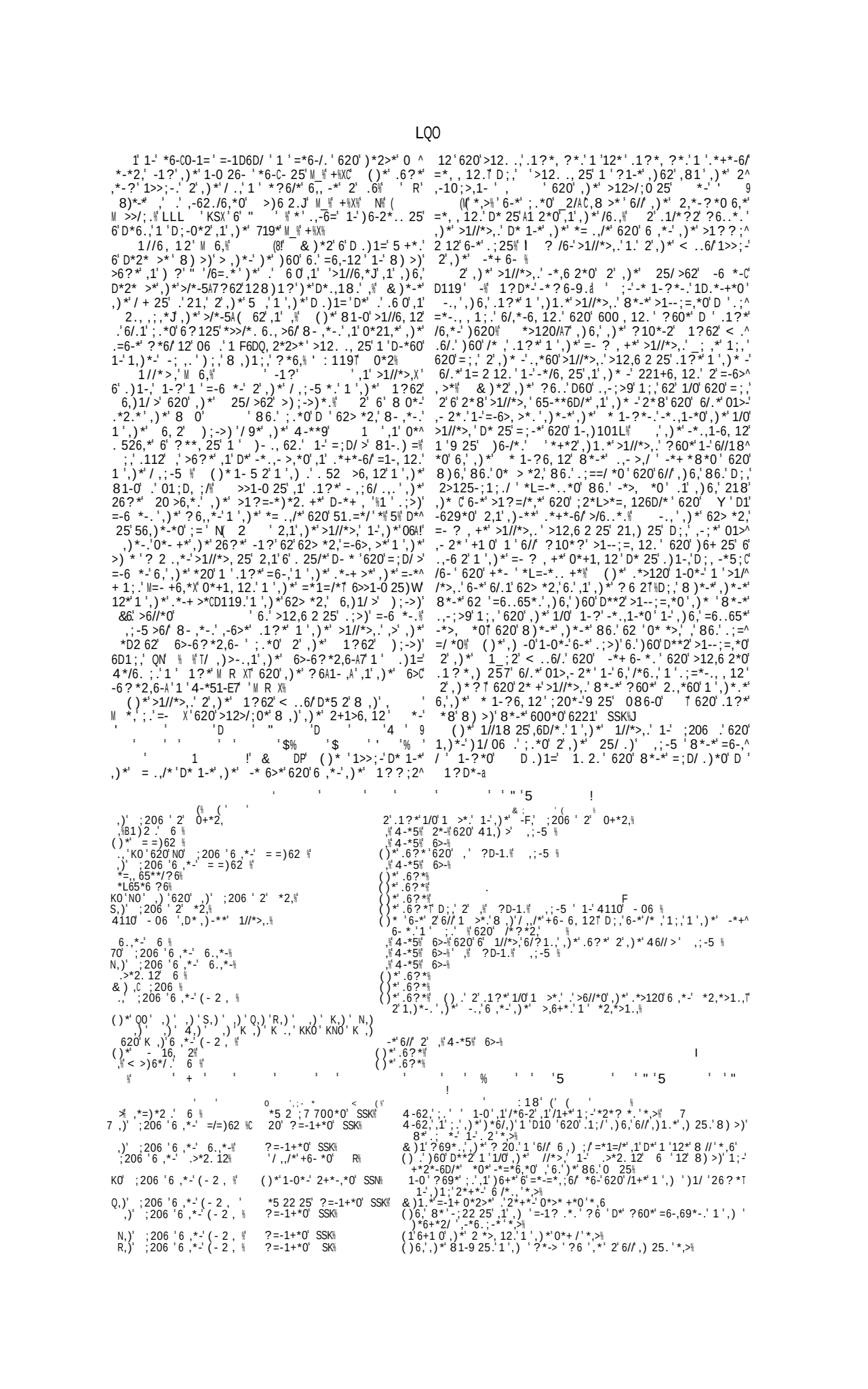
620' *? 2*2,/ ' >12.1/6,1- ' ' : .' A1 ; -26/' 8) >)' 86.' >6-* ;// ' 9*=,' 1-' 2*6-/ ' , ' *6-.' .)18.')18') *' /125*0' ,1' / +*' 620' /6D1-' 1-' 410%J' : .' 0*6,)' 86.' =*6>* ;/ 620' D*6 , ;/! T ' ' ' Q Q' =% Q%' %

1/*, ' -%$ '' 86.' D1?' 2' 12012' 2' SS' 86.' *0 ; >6,*0' 6, ' L 1-0' 620' ,-6+*//*0' 12' ,)*' 12, 2*2,' 1-' .*+*2' *9-.' 8)*-*')*' ?60*' ,)*' 6>_ ; 6 2,62>*' 1 ' ?62 ' *? 2*2,' .>)1/6-.' *.=*> 6// ' 1 ' -6.?; .' /C 0.*; .' 620' 26>*-' 620' 8)*-*')*' 6/.1' /*6-2*0' 4-**9% : *' 1D,6 2*0') ; ->)' =-* *-?*2,' 8)*2' +*-' 1 ; 25% 2' R ')*' >1?? *2>*0' /*>, ; - 25' 6, ' L 1-0' 12' ,% 6 ; /.' = . ,/*. ' 620' 0-*8' >-180.' 1 ' . , ; 0*2, . ' 2' /1 ')*' 86.' ?60*' 0*62' 1 ' ,% 6 ; /.' 2' 8) >)' >6=6> , ') .' *20*6+1-.',1' -* . ,1-*' 0 .> =/ 2*' D-1 ; 5),' 12') ?' ,)1 ; 5)')6== / ' 8 ,)1 ; ' * *>, ' 6' >)6-5*' 1 ')*-*. % : *' 2,-1' 7 0 ; >*0' 0 + , . ' /*>, ; -*.' 6, ' ,% 6 ; /.' 0*/ +*-*0' D ') ?^ .*/ ' 620' 1,)*-.% ()*.*' /*>, ; -*.' -6 .*0' 2' ,)*' 26, 12' 6' .= - ,' 1 ' 2_ ; - ' 6 ,*-',)*' 71/ ' >- =, ; -*. ' 8) >)')60' ,)*2' /125' D**2' /6 0' 6. 0*' =-' ,)*' .>)11/ 0 + 2 , ' 620' .1' ? 5),' D*' .6 0',1' =-*=6-*' 6' 86 ' 1-',)*' -* 1-?6, 12' 8) >)' .112' 6 ,*-' *2. ; *0% f *' >6221,' D ; ,') 29',)6,' 1/*,' 86.' 2' .1?*' ?*6. ; -*' 2. ,-; ? *2,6/' ,186-0.' ,' ,)1 ; 5)')*' 0 0' 21,'/ +*',1' .**' ,'* *>,*0' -')*' *L=-*. .^ *0' 6' 5-*6,' >12,*?=,' 1-' -*/ 5 1 ; .')1 ; .*-' *L=1.*0' ,)*' 6D ; .*.' ,)6,' =-*+6 /*0' 2' ,)*?' 620',)*' ? .>) * .' 6,^ ,*20 25',)*' ?=1. 25' >*/ D6>' 12' ,)*' >/*-5 % ( ) .' 86 ' 1 ' ,) 29 25 ' ,15*.,)*-' 8 ,)') .' -**' 620' =; D/ >' ?622*-' 1 ' >1?? ; 2 >6, 25') .' ,)1 ; 5),. ' 8) >)' 8*-*' ,)*2' -*56-0*0' 6.' ?= 1 ; .' 620')*-*, >6/' -*20*-*0') ?' ' 1D21L 1 ; .' ,1' ,)*' >/*-5A7 620' *L=1.*0') ?' ,1' 6' =*-.*>; , 12' -1?')*' D .)1=' 1' 12012% 6, ?*-' ,*// .' ; .' 2' D .' .*-?12.' 21,' 12/ ' 86.' 1/*, ' D-1 ; 5),' 2,1' ,-1 ; D/*' D ; ,' D*' 81 ; /0' >*-,6 2/ ')6+*' 512*' ,1',)*' .,69*')60' 21,' 410' ,-2*0' ,)*' 9 25 .')*6-,%J' 2' K')*' 1 ; 20*0' ; 2*201 8 *0',)*' 21D/*' 2., , ; , 12' 1 ' ,% 6 ; / .' >)11/ 1-' 1N' .>)1/6-.% : *' 0 *0' 2' R% : *' 8-1,*' 6' 6, 2' 4-6?? 6-' 1-' ,% 6 ; / .' >)11/' 8) >)' 86.' /125' 2' ; .*% ?125') .' -*/ 5 1 ; .' 8 - , 25.' 8*-*' ' ' ' ' " (' ' ' '$ ' M 120% SRN K?1X' ' ' ' ' 'M 120% Q X' 6% ' '6 ' *,>' **' 2 5),.' ' ' ' 'M 120% K ' Q+1X' B12*.' " ' ; !V **D1)?' , '5 'M 120% QS X%

1/C)1 [*)' M : *D%) 2 " / "(' .' *=,% d1d 7.' d6d676X' 6' 0*.>*2062,71 ' B ; 06) ' D* 25',)*' .12' 1 ' : 6[6 6D' 620' 6,)*-' 1 ' 12*' 6-;>)' M >)% L ' X' % %62,*' NS% : *')60' 6/.1' 6' .12' 26?*0')6//; 2' 8')1' -*=6 -*0' =6-,' 1 ',)*' 86//.' 1 ' B*-; .6/*?' 6 ,*-',)*' 6=, +,E7 M *)% ' X%

1/52 ' & / ' '' 60?-6/' 1 ' -7>*' 86.' D1-2' *D-; 6- ' S '6, ') .' 62>*.,-6/ >6.,/*')6, /C /12C.; -C 1 25% : .' 6,)*-' 46.=6-0' 0*' 1/52 ' ?6-^ .)6/1 ' -62>*' 0 *0' *6-/ 'M KKX' 620' D*_ ; *6,)*0',1') .' 8 018',)*' ,6.9' 1 ' *0 ; >6, 25',1 ' *' .12.% 2',) .' .)*' 86.' 6.. .,*0' D ',81' ?6.,*-.' 12*' 1 ' 8)1?' 2.,-; >,*0' ,)*' D1 .' 2' /625 ; 65*.' 620' =) /1.1=) ' 620',)*' 1,)*-' 2' D10 / ' *L*-> .*.% 46.=6-0' *6-/ ' 0 ., 25; .)*0') ?.*/ ' 1-' 6' -?2*..' 1 ' >)6-6>,*-' 620' =; - , ' 1 ' =- +6,*' / *' +*- '-6-*' 2',)1.*' 06 .% : .' 12/ ' - *20' 86.',)*' 1 ; 25' 0 ; 9*' -62> .' 1 ' 4 ; .*' 6 ,*-86-0.' 6?125') .' D - *-*.,' *2*? *,% : *' *2,*-*0' ; =12' ,)*' >6-**-' 1 ' 6-?. ' 620' *6-/ ' 812') 5)' >*/*D- , ' 2' ,)*' 86-.' 656 -8,' ,6/ ' 620' =6 2% 2' ' 6,' ,) -, ' 1/52 ' 86.' ?60*' >1?? 620*-' 1 ' ,)*' -*2>)' 2 62,- % ()*' +*- ' .*+*-*' 0 . > =/ 2*' 2,-102**0' D ') ?' >)625*0',)*' 8 /0' D620.' 1 ' /68/*..' .1/0 *- ' 2,1' 62' 1-562 [*0' 6-? % 2' ' ,)*' *6-' 2' 8) >)') .' ?1,)*-' 0 *0') 1' 86.' ?6-- *0',1')6-/1,,*' 0*' 6+6/% ; ,' ,)*' ,-1 ; D/*.' 1 ') .' , ?*.' >6//*0') ?' .112' 656 2' 620' 656 2' 620' 656 2' ,1',)*' -12,' 1 ' D6,,/*' f ,)*')6== ' . . ; *' 1 ',)*' >6?=6 52' 1 ' KC ' .',1' D*' 6.^ >- D*0',1') ?% : *' D*>6?*' 51+*-21-' 1 ')6?=652*' /6,*-' 1 ' >6-0 ' 620' ./*' 0*' -62>*% 2' S K')*' 86.' ?60*' 60?-6/' 1 ' -62>*% &)*2' 25' : *2- ' ' + 1^ /6,*0',)*' ,-; >*' 620',)*' 86-' 8 ,)' =6 2' D-19*' 1 ; ; 62*8 ' 1/52 ' 86.' >1?LL ; .. 12*0',=' 0* *20' ,% # ; *2, 2

656 2.,' ,)*' =62 6-0.⅋ 2' .= .*' 1 '6')*-1 >' 0* *2>*' 12' ,)*' K)' 1 ' ;5; .,' ,⅋ #;*2, 2' *//⅋ ⅋ 1/ 52 ' 86.' ,69*2' =- .12*-' 620' D-1;5),' ,1I',)*' *,)*-/620. ' 8)*-*')*' -*?6 2*0' ,81' *6-.⅋ : *-*')*' D*>6?*' 6' -1,*.,62,⅋ ,' ,)*' =*6>*' 1 ')6,*6;C 6?D-*. .' 2' R')*' -*56 2*0') .' / D*-, ' 1-' 6' -62.1?' 1 ' ' /1- 2.⅋ ( )-1;5)' ,)*' .;00*2' %0*6,)' 1 ' : *2- ' ' M RX' 620' ,)*' 6.>*2. 12' 1 ') .' ,)-12*' D ' -62> .' ',)*' 4; .*.' D*>6?*' ,*?=1-6- / ' 6// =18*- ;/' 620' 1/ 52 '/1.,' ?62 ' 1 ') .')121-.⅋ : *' /* , ' ,)*' >1;-;' 8 ,)' 6'/ 5),')*6-,⅋ : *')60' D**2' .;.=*>,*0' 1 '7)*-^ *. J' D;,')60' 21,' *,' =;D/ >/A7 >12 *..*0') ?.*/' 6 -1,*.,62,⅋ 86-*' ,)6,' ,) .' ..*=' ? 5),' D*' 6,6/ ,1') .' 6?/ ' ' ,' 86.' 12/ ' 6 ,*-') .' 8 *')60' 5/60/ ' >12^ *..*0',1' ,)*');->)' 1 ')- .,J',)6,')*' =6-,119' 1 ' ,)*' 1-0 .' ;==*-' 2' =-*.*2>*' 1 ',)*' 8)1/*' + //65*⅋ ( )*' 2*8.' 86.'-*>* +*0' 8 ,)' -*A1 > 25' 6?12I5 6//' -1,C o*.,62,.⅋ &)/*' 1/ 52 '/ +*0' 6' =*6>* ;/' .*>/;0*0'/ *' 8 ,)') .' 6?/ ' ',)*' =;D/ >' 0 .>12,*2,' 6,',)*' ;.;-=6\ , 12.' 1 ',)*' 4; .*.')60' -*6>)*0' 6'>/ ?6L⅋ ( )*' >12^ .= -6> '1 ' ?D1 .*' 2' S '6?=/ ' .)18.',)*' .,6,*' 1 ' =1=;/6-' 1= 2 12' 2' -6 A>*⅋ 1/ 52 ' 0 0' 21,' =6-, > ^ =6,*' 2',)1;5)' ,)*' .**?.',1')6+*' 9218 2' 1',)*' =/1,' 7;,'6,',)*' 12+*2, 12' 1',)*' 1,6D/*.')*' ?60*' D-6+*' D;,' 2* *>,;6/ 6,,*?=,.',1' 56 2' ?1-*' -**01?' 1 '81-^ .)=' 1-',)*' -1,*.,62,.⅋ ( )*' 0*6,)' 1 ' -62> .' ' 2' S ')18*+*-')>)625*0' ,)*' 8)1/*' 6.=*>,' 1 '6 6 -.⅋ 1/ 52 ' 620') .' D-1,)*-' 20*/1,'8*-*' -* 2.,6,*0' 2',)* -')121-.'620' 218' ?1-*' ,)62' *+*-' -1,*.,62, .?' 1;20' 6' =18*- ;/ =-1,*>,1-' 2') ?⅋ : *' ,119' =6-,' 2',)*' ,*-- D/*' -*/ 5 1;.' 87-.' 8)>)' /6.,*0' 1-' ,) -,' *6-.⅋ ' ,)*')*60' 1 ',)*' 1?62' 6,)1/ >' =6-, ' .,110',)*' 4; .*.' 8) /*' 120 ' 620' 1/ 52 '/*0',)*' -1,*.,62,.⅋ ;' ,)*' /6,,*-' .; ^ *-*0' .*+*-*' -*+*-.*. ' 620'12/ '6 ,*-',)*' -- D/*' -*/ 5 1;.' 87-.' 1 ' -62> .' 1 '4; .*' SN'D 'B*62' 1/,-Z7BD-,;2*' D*^ 562',1'D*' 12>*' ?1-*' 6+1-6D/*',1',)*?'7,*1/ 52 ' 86.' 21,' ?=/ >6,*0' 2',) .' ?;-0*-'6.')6.'.1?*, ?*.'D**2' 6..*-,*0⅋ ,*-' ,)*' =*6>*' 1 ' ?D1 .*' >12>/;0*0' <6-)>' R' 2'8) >)' -**01?' 1 '>12.> *2>*' 620' 1 '81-^ .)=' 86.' 5-62,*0',)*' -1,*.,62,' 21D/ , ' ,)*' 60?^ -6/ 656 2' -*, -*0',1') .' *.,6,*.' 2')6, //12⅋ 1;-' *6-.' /6,*-') ;*' 86-' D-19*' 1;' 62*8 '620' 86.' 12' D1,)' . 0*.' 865*0' 8 ,)' ,)*' 1/0' .= - ,'620' D ,,*-2*..⅋ 1-' 6', ?*',)*' =-1.=*>,.' 1 ',)*' 2 1-?*0' =6-, '/119*0' +*- ' 06-9⅋ 2' SR' 120*' */!' 620' 12/ '6' *8' 8**9.'/6,*-' 1/ 52 .' P-1,)*-' 20*/1,⅋ ()*' 60?-6/.' . *5*' 1 ' 1 , *-.' 86.' 6' 6/;-*' 620' 8) /*')*' 8 ,)0-*8') .' ,-11=.' ,)*' 6-/ 6?*2,' 2' 6-.')60' >120*?2*0') ?' ,1' 0*6,)');25') ?' 2' * 5 'D-19*') .' *.>:,>)*12' 620' 1 *-*0' 6' =- >*' 1 ' ' /1- 2.' 1-') .')*60⅋ 1/ 52 .' / *' 20**0' 86.' *20625*-*0' D ' .*+*-6/ 6,^ ,*?=,.' ,1' 6..6.. 26,*') ?⅋ ;' ,21' -*+*-.*.' >1;/0' D-*69' 1/ 52 .' .= - ,'1-' 06;2,') .' *2*-5 ' 2' ' 6,' -26 '/*' ;*',)*' -1,*.,62,.'56 2*0'6'>1? '/*,>'+ >^ ,1- !' 620' .)1-,/ ' 6 ,*-' 6// ;-,)*-' ?1+*?*2,.' 8*-*' *20*0' D ' 6',-;>*' 8) >)' -*.;/,*0' 2',)*' =*6>*' 1 ' ,⅋ 4*-?6 2.⅋ 1/ 52 .' 8 *')60' 0 *0',)-**' *6-.' D* 1-*' 620' f ',)*' 60?-6/' 6/,)1;5)' 6/-*60 ' 6,' 62' 60+62>*0' 65*' ?6-- *0' B6_;*/ 2*' >1;2,*..' 1 ' <12,/;' 620' c2C ,-*?12,' 6' 1;25' D*6;, ;/' 2,*// 5*2,' 620' = 1;.' /60 '1 ' 6+1⅋ <*628) /*',)*' >;--*2,'1 '1= 2 12' 6,' >1;-;' .S*?>0',1')*' 5-60;6// ' .*,,/ 25' 2' 6+1-' 1 ',)*' -1,*.,62,.⅋ ()*' ;2 12' 1 ',)*' ,81' =6-, *.' 86.',1' D*' >1?=/*,*0',P',)*' ?6-- 65*' 1 ' : *2- '1 ' 6+6--*' M/6,*-' : *2- ' X',1' <6-56-*,'1 ' 6/1 .⅋)6-/*.' d' 2**0^ *0' 6' ?62' 8)1' 81;/0' D*' *_;6// '-*.=*>,*0' D '6// =6-^ ,*.'620' 1/ 52 ' 86.' .;?72 12*0',1' >1;-,⅋ : *' 8*2; ;// 1 '>12 0*2>*' 2',)*'9 25 .' 5110C8 //!' 6 A0' 20**0' .' 01*.' 21,' 6==*6-',)6,')6-/*.' 620') .' ?1,)*-' 6,)6^ - 2*' 0*' <*0 > .')60' 6,',)6,', ?*' 62 ')1.,/*' 2,*2, 12.' ,186-0.') ?⅋ ()*' 60?-6/' 8*=',.'*6-.' 1 'A1 '6,') .'-*C >7, 12' 2' /1 .' M *=,⅋ N X⅋ ()*' 9 25' *?D-6>*0') ?' 620' D1,)')6-/*.' 620') .' ?1,)*-' .)18*0') ?' *+^ *- ')121-⅋ 4-60;6// ' 1/ 52 '56 2*0' 6' 0*> 0*0' 2 /;^ *2>*' 1+*-',)*'9 25 '620' ?60*' 5110' ; .*' 1 ' ,' 2' 6+1-' 1 ,)*' : ;5;*21,.⅋ 6,)6- 2*' D*>6?*' 6/6-?*0' 620')*-' A*6/1;. '1 ' 1/ 52 '>)625*0' 2,1')6,-*0' 6/,)1;5)' ;'6=^ =*6-.',)6,'6.' *,')6-/*.' 86.' 21,' // 0 .=1.*0',186-0.' ,)*' 60?-6/⅋ 2',)*' Q,)'1 ' ;5;.,' K',)*' ?6-- 65*' 1 ': *2- '620' <6-56-*,',119' =/6>*⅋ 2',)*' .6?*' 06 ' 1/ 52 '8-1,*',1' :.'8 *',)6,')*')1=*0',1' .**')*-' .112' 6.')*' 86.' 8*6- '1 '>1;-,'/ *⅋ ()*.*' 8*-*',)*' /6.,' / 2*.' .)*' *+*-' -*>* +*0' -1?') .')620⅋ 1;-' 06 .' /6,*-'6.')*' 86.' 86/9 25' 2',)*' .,-**,'6' .)1,' 86.' -*0' 6,') ?' -1?'6')1;.*' 2',)*'=-*.*2,' ;*0*' +1/ T 6' 2^ 5*-'1 ') .'- 5),')620' 86.' 0*.,-1 *0' 620') ./*' ,'6-?' 81;20*0⅋ ()*' 6..6.. 26, 12' 1 ',)*' 60?-6/' 86.' 6.^ >-D*0',1',)*' 4; .*.' 620' //*0' 6// 6-.' 8 ,)' 6/6-?' 620')1--1-⅋ ()*' 9 25' + . ,*0' 1/ 52 ' =-1 *..*0',)*' 5-*6,*.,' . ?=6,) ' 620' .81-*' ,1',)*' -1,*.,62,.)*' 81;/0' D*' -*+*25*0' 1-',)*' D/110 ' 0**0⅋ ;' 6,)6^ - 2*' 0*' <*0 > .')60' -*.1/+*0' 12' 1/ 52 .' 0*6,)⅋ 2' ,)*' *+*2 25' 1',)*' KN0' *+*- ,) 25' 86.' =-*=6-*0' 1-' ,)*',*-- D/*' ?6..6>-*' ,)6,' 86.' ,1',69*' =/6>*' 12',)*' 1//18 25' 2 5),⅋ 2',)*' KN0' 2 ,*-' ? 02 5),' 6' 5;6-0' 1 '12/ ' +*' ?*2' 620' 6' *8',.*-+62,.' -*?6 2*0' 8 ,)' ,)*' 60?-6/⅋ 2',)*' ?1-2 25' D*,8**2' 12*' 620',81' M ;206 ' ;5;.,' K X' 6' ?;-0*-1;.' D620' 6==-10,)*0' ,)*')1;.*⅋ 3 ,')60' A*>2' -*.1/+*0',1' 9 //',)*' 60?-6/' -.,' 620',)*2' 5 +*',)*' . 526/ 1-',)*' 5*2*-6/ ?6.^ .6>-*⅋ ()*' 1;25' ;9*' 1 ' 4; .*')60' ;20*-,69*2' ,1' 0*.,-1 ') .' 5-*6,' *2*? ⅋ ()*' 011-.' 8*-*' D;-.,' 1=*2' 620',)*' 5;6-0.' 9 //*0⅋ ',)*' -.,'21 .*' 1/ 52 ' -*_;*.,*0',1' D*' / ,*0' -1?') .' D*0' 620' .6 0',1') .' ?2.,*-' 6 ' 6' =-6 *-' . -T' '=;,' ? ' .1;/ 2,1',)*' 6+ 1;- .')620⅋J' '.*-+62,' D;-.,' 2,1',)*' -11?' 620' 12' D* 25' _;*., 12*0' -*=/ *0' 410' >6//.' ;.⅋J')6+*' /125' D**2' -*60 ',1' 0 * J' 1/ 52 '-*=/ *0T D;,' 1;'1,)*-.' .6+*' 1;-.*/+*.⅋J' ()*' ?;-0>-* aS'*2,*-*0' ,)*' -11A2' 620' 1;20',)*' 60?-6/ .,620 25' ;=-5),' 2*' >6//*0',1') ?' -*' - /',)*' 60?-6/ H I *. J' 1/A52' 62.8*-*0' 8 ,)' 0 52 , T 620' 1;' 1;25' ?62' .)1;/0' -*.=*>,' ? ' 5-6 ')6 -.' 620' 21,' ,69*' ? '/ *⅋J' & ,)' 62' 16,)' .D⅋*' .1/0 *',)-;.') .' .81-0' 2,1' 1/ 52 .' D-*6.,⅋ : .' D10 ' 2' 8) >)F/ >' 86.' .,$/ 21,' *2, -*/ ' *L, 2>,' 86.',)-182' 1;,' 1 ',)*' 8 2018⅋ 4; .*' 8)1')60' D**2' 86, 25' D*/18 ' 8 =*0' ,)*' D/110' -1?',)*' 6>*' 1 ',)*' >1-=.*' ,0' -*>152 .*' ,' 620' 9 >9*0',)*' D10 ' 8 I⅋ .' 11,⅋ 2' ,6/ 62 ' *C ,-;>> ' >;,' 1 ',)*')*60' 620' D-1;5),' ,',1',)*' 1;+-⅋ ()*' D10 ' 86.' ?;, /6,*0 '0-655*0',)-1;5)',)*' .,-**,.' 1 ' 6- .' 620' 6,'/6..');25' ;=12',)*' 56//18 .' D ',)*' **,⅋ &)*2')6-/*.' d' >6?*' ,1' .**' ,' 6' *8' 06 .' /6,*-')*' .' .6 0',1')6+*' -*=*6,*0',)*' 81-0.' 1 ' ,*/C / ;.' ()*' D10 ' 1 '62' *2*? ' 6/86 .' .?*//.⅋8*//⅋J' 2' 6-/ 6?*2,' 12',)*' KS,)' 1 ' ;5;.,')*' .,6,*0',),)*' ?6..6>-*' 1 ',⅋ 6-,)1/1?*8')60' D**2' 2*>*..6 ' ,1' =-*+*2,',)*' *L*>;, 12' 1 '6' =/1,' 2' 8) >)',)*' 9 25' 86.',1' D*' 6..6.. 26,*0' 620' 6>>;.*0' 1/ 52 ' 1 ' 25-6, ^ .;0*' 620',-*6.12⅋ ()*' .-*+ /*' 6-/ 6>*2- 6>>*=,*0',)*.*' .,6,*?*2,. ' 0*>/6-*0' 1/ 52 ' 6' ,-6 ,1-' 620' 0*^ >-**0',)*' 1- * ,;-*'1 '6//') 0'- 5),.' 620')121-.' 8) >)' -*.1/;, 12' 86. ')18*+*-' 6 ,*-86-0.' >1?=/*,*/ ' -*^ +19*0⅋ ' : *-[15' 5 26 %f L L' NN ' ._⅋T : 1* *-' &1,,+⅋ ; 1' L ' N T : 665 ' '@ ' = 1' +1/⅋ ⅋ i 1/ $ 'M ,;d,1=' ⅋-⅋ 1 1>' ;/5⅋ 8' 6' *C + ,*' 6/.1' >6//*0' 6/ ,6.J'M ' .0-⅋ L' KNX' 1-' 8) >)' ,)*' : *D⅋,*L,'M [-6' L' KNX')6.' ' 1 ' M _⅋+⅋X' ,)*' .6?*' 6.' */ ,6⅋J' J 1//6-' ,)*' -*20*- 25' 1 ' 12*' 4-⅋ 620' ,81' : *D⅋ 81-7.' 2',)*' ;,) #7*-.⅋ ⅋ / ' >% "!' B1D' L7L ' QT 8)7-*')18*+*-' .1?*' ?*-*/ ' -*60' 1.X' =-1=*-/ ' .52 *.' 6' "' 2' 8) >)' .*2.*' ,' 1 ,*2' 1>>;-.' 620' .')*2>*' 6==/ *0',1' 62 ' 6=*-,;-*' 1-' 1- >*⅋ ** $ ' !' ,' .' -*_;*2,/ '6==/ *0' */.*8)*-*' M6.' 2',)*' =6..65*' >,*0X',1',)*' 1=*2 25' 1 '6' 56-?*2,',)6,'>/1.*.' 6-1;20',)*' 2*>9' .;>)' 6.',)*',;2 >' M L10⅋ LLL .' KN7 .6⅋>LLL 'KX⅋ **' > / · !' K⅋ I 2%" "(% 1' B;05⅋+ 'KSX' '>1//6-. J' ?*2, 12*0' 6?125',)*' .=1 /.' 1 ',/ *' < 0 62 ,*.' 8*-*' 6' =*>;/ 6-' 9 20' 1 '% =



L>/ ; . +/ ‘ ,1‘ ,)*‘ ; 2 +*-. , ‘ /6f(*-*‘ ,)*-*‘ .‘ D ; .‘ 12*‘ >1//*5*‘ 2‘ 6‘ ; 2 +*-. , ‘ 6.‘ .‘ .) *‘ >6.*‘ 2‘ ,)*‘ ; 2 l‘ +*-. , *.‘ 1 ‘ >1,/620‘ 620‘ ?1 .,‘ 1 ‘ ,)1.*‘ 2‘ ?*- >6‘ ,)*‘ ,81‘ D10 *.‘ 6->‘ 1 ‘>1 ; -.*‘ 0*2, >6/‘ ,)1 ; 5)‘ ,)*‘ ; 2>^ , 12.‘ 8) >)‘ ,)* ‘ =*- 1-?‘ 6-*‘ 0 *-*2,% 2‘ 4*-?62 ‘ ,)*-*‘ 6-*‘ 21‘ >1//*5*.‘ 2‘ ,)*‘ 25/ .)‘ .*2.*† 620‘ ,)1 ; 5)‘ ,)*‘ ; 2 +*-. , *.‘ 2‘ ,)6, ‘ >1 ; 2, - ‘ =*- 1-?‘ =-*> .*/ ‘ ,)*‘ .6 ?*‘ ; 2>, 12.‘ 6.‘ 2‘ >1, /620‘ ,)*‘ +*-D6/ >12 ; . 12‘ D*^ , 8**2‘ ,)*‘ >1//*5*‘ 620‘ ,)*‘ ; 2 +*-. , ‘ .‘ 6+1 0*0‘ D ‘ ,)*‘ /6, , *-‘ =*- 1-? 25‘ ,)*‘ ; 2>, 12.‘ 1 ‘ D1,)‘ 2‘ , .‘ 182‘ 26?*‘ 6.‘ , 81‘ .*=6-6, *‘ =6-, .‘ 1 ‘ , .‘ =-1=*-‘ 0 ; , *.% 2‘ -62>*‘ ,)*‘ , /*‘ >1/1/*5*‘ 1‘)6.‘ 6‘ ?*62 25‘ , 1, 6// ‘ 0 *-^ *2, ‘ -1?‘ ,)6, ‘ 8) >)‘ 8*‘ 6, , 6>)‘ , 1‘ , å , ‘ .‘ 6‘ .>)11/ ‘ -*.=120 25‘) 18*+*-‘ ?1-*‘ , 1‘ ,)*‘ 5 ?26. ; ?‘ 1 ‘ 4*-^ ?62 ‘ ,)62‘ , 1‘ ,)*‘ 5-6?? 6-C.>)11/ 1 ‘ ,) .‘ >1 ; 2, - % // ‘ ,)*‘ >1//*5*.‘ 6-*‘ =/6>*0‘ ; 20*-‘ ,)*‘ $2 +*-. , ‘ 1 ‘ -62>*‘ , 1‘ 8) >)‘ ,)*‘ >*2, -6/ [25‘ , *20*2> *.‘ 1 ‘ ,)6, ‘ >1 ; 2, -A7)6+*‘ 5 +*2‘ 6‘ ?*62 25‘ 8) >)‘ 6/. 1‘ 0 *-.‘ 8 0*^ / ‘ -1?‘ ,)6, ‘ 8) >)‘ ,)*‘ , *-?‘ ; 2 +*-. , ‘ D*6-.‘ 2‘ 25^ /620J‘ M)6? \P*-.‘ 6 *8!‘ .% +%X% *** [# !

1//*5 6‘ (‘ >% % ‘ 81‘ 2. , ; ^ , 12.‘ 1-‘ , -6 2 25‘ 1? .)‘ ? .. 126- *.‘ 1-‘ .*-+ >*‘ 6?125‘ `7)*-*, >6/J‘ 620‘ =6562‘ 26, 12.% ()*‘ -. , ‘ 86.‘ ,)*‘ 4*-?62‘ >1//*5*‘ 6, ‘ 1?*‘ 1 ; 20*0‘ D ‘ 1 1/6‘ 2‘ SK% 4-**9‘ 25/ .) ‘ : ; 256- 62 ‘ <6-12 , *‘ 620‘ ( )-6>1C /C / - 62‘ >1//*5*.‘ 8*-*‘ *. , 6D/ .)*0‘ D ‘ 4.-*51- ‘ d % >1, , .)‘ 620‘ - .)‘ >1//*5*.‘ 1//18*0† 620‘ ,)*‘ 2., , ; ^ , 12‘ 1 ‘ ,)*‘ 125-*56, 12‘ ‘% % ‘* ‘ 86.‘ . ; >^ >**0*0‘ D ‘ ,)*‘ *-*>, 12‘ 1 ‘ ,)*‘ >1//*5*‘ 8) >)‘ D*6-.‘ ,)*‘ .6?*‘ , ,/*% <1-*‘ -*>*2, / ‘ 62% ?*- >62‘ >1//*5*J‘ M Q X‘ 620‘ 6‘ 1 ; ,)‘ ?*- >62‘ >1//*5*‘)6+*‘ D**2‘ *. , 6D^ / .)*0%

1//*5 6/‘ 1-‘ 1//*5 6 , *‘) ; ->) å M %X‘ 2‘ ,)*‘ 1?62‘) ; ->) ‘ 6‘ >) ; ->)‘ .*-+*0‘ D ‘ >6212.‘ -*5 ; /6-‘ 1-‘ .*>; /6-% ()* ‘ 1- 5 26, *0‘ 2‘ 6‘ 0*. -*‘ , 1‘)6+*‘ ?6. . ‘ >120 ; >, *0‘ 2‘ , 182.‘ 8) >)‘)60‘ 21‘ >6,)*0-6/ M % X‘ 8 ,)‘ 5-*6, *-‘ =1?=‘ ,)62‘ >1 ; /0‘ D*‘)60‘ 8 ,)‘ 12*‘ =- *. , % - 5 26// ‘ ,)*‘ >6212.‘ 08*/, ‘ 2‘ >1?‘ 12‘ 2‘ 12*‘ >1//*5*‘ D ; .‘ , //. ‘ 86.‘ 6 , *-86-0.‘ 6D62012*0% *‘ f MK%X‘ 2‘ 25/620‘ ,)*-*‘ 6-*‘ .*+*-6/ ‘ >) ; ->)*. ‘ 8) >)‘ 6-*‘ .*-+*0‘ D ‘ 6‘ 0*62‘ 620‘ 6‘ D10 ‘ 1 ‘ >6212.% ()* ‘ 0 *-‘ -1?‘ >6,)*0-6/.‘ 2‘ ,)6, ‘ ,)*‘ .**‘ 1 ‘ ,)*‘ D .)1=‘ .‘ 6, I‘ ,)*‘ /6, , *-% ()*‘ .*-+ >*‘ .‘ 1-‘ .)1 ; /0‘ D*‘ ,)*‘ .6?*‘ 2‘ D1,)% ()* ‘ 6-*‘ ; 20*-‘ ,)*‘ A ; - .0 >, 12‘ 1 ‘ ,)*‘ D .)1=‘ 1 ‘ ,)*‘ 0 1>*.*‘ 2‘ 8) >)‘ ,)* ‘ 6-*‘ . , ; 6, *0‘ 620‘)*‘ *L*-> .‘ .*.‘ + . ,1- 6/ =18*-.‘ 1+*-‘ ,)*?% MN%X *+*-6/ >) ; ->)*.‘ >122*>, *0‘ 2‘ 12*‘ >1-=1-6, 12‘ 6-*‘ >6//*0‘ ‘>1//*5 6, *J‘ >) ; ->)*. å *% 5% 6‘ >1?D 26, 12‘ 1 ‘ .*+*-6/ * 1-?*0‘ -1, *., 62, ‘ ; , >)‘ >) ; ->)*.‘ 2‘ *8‘ 1-/ ‘ .‘ .1‘ ., /*0%

1//*5 6/‘ 1-‘ 1//*5 6 , *‘ . , * ? ‘ 6‘ ?10*‘ 1 ‘ *L) D , 25‘ ,)*‘ -*/6, 12‘ 1 ‘) ; ->)‘ 620‘ , 6, *‘ *?=/1 *0‘ D ‘ ; *201- ‘620‘ 6 ‘ 2‘ -1, *., 62, ‘ 4*-?62 ‘ ()* >) ; ->)*.77*-*‘ -*56-0*0‘ 6.‘ D* 25‘ 6 , *-‘ 12., 62, 2*. ‘ , ?*‘ /*56/‘ >1-=1-6, 12.‘ I ‘ 81‘ 8 ,)‘ - 5), .‘ , 1‘ 1-?‘ ,)* -‘ >-**0. ‘ >120 ; >, ‘ ,)* -‘ 81-.) =‘ >)11.*‘ ,)* -‘ =-*. 0 25‘ 1 >*-‘ 60?‘ , 620‘ *L=*/ ?*?D*-.† , 1‘ ?69*‘ 620‘ 60?2 .,*-‘ D C/68. ‘ >1--*>, ‘ . ; >)‘ 6D ; .*.‘ 6.‘ ?5), ‘ >-**=‘ 2‘ 6?125‘ ,)*?‘ >6// 2‘ ,)*‘ 6 0‘ 1 ‘ ,)*‘ > + /*=18*-‘ ‘2*>*..6- ‘ 1-‘ 2‘ >*-, 6 2‘ >6.*.‘ , 1‘ /*6+*‘ ,)*‘ *L*-> .*‘ 1 ‘ ,)*.*‘ - 5), .‘ , 1‘ 1,)*-.% , ‘ 86.‘ 6. . ; ?*0‘ ,)6, ‘ ,)*‘ - 5), .‘ 1- 576// ‘D*/125 25‘ , 1‘ ,)*‘ >125-*56, 12. ‘ 8) >)‘)60‘ D**2‘ 2‘ >1 ; -.*‘ 1 ‘ , ?*‘ ; . ; -=*0‘ D ‘ ,)*‘) *-6->) ‘ 8*-*‘ -*. , 1-*0‘ , 1‘ ,)*‘ >125-*56, 12.‘ D ‘ A,)*‘ *1-?6, 12‘ 620‘ 8*-*‘ /* , ‘ D ‘ ,)*‘ *1-?*0‘ >125-*56, 12.‘ , 1‘ ,)*‘ > + / 6 ; .)1- . , *.% >>1-0 25‘ , 1‘ 7 .‘ + *8‘ ,)*‘ > + / 6 ; ^ ,)1- , ‘ 81 ; /0‘)6+*‘ 6‘ 01 ; D/*‘ =18*-‘ 8 ,)‘ -*56-0‘ , 1‘ ,)*‘) ; ->) ‘ ,)*‘ * ‘ ‘ 1‘ ,)*‘ - 5), ‘ 1 ‘ . ; =*- 2, *20^ *2>*‘ 620‘ 1 ‘ =6, -1265*‘ 8) >)‘ 2)*-*.‘ 2‘ ,)*‘ .*>; /6- 6 ; ,)1- , ‘ 620‘ " * ‘ ‘ 1‘ ,)*‘ . ; ?‘ 1 ‘ ,)*‘ >1//*5 6/ - 5), .‘ 2‘ 2, *-26/ 6 6 -.‘ 1 ‘ ,)*‘) ; ->) ‘ , -62. *--*0‘ , 1‘ , ‘ M,)*‘ .*>; /6-‘ 51+*-2?*2, X‘ 6.‘ ,)*‘ -*=-*. *2, 6, +*‘ 1 ‘ ,)*‘ >125-*56, 12.‘ 1 ‘ ,)*‘ >1 ; 2, - % 1-‘ .1?*‘ , ?*‘ ,) .‘ + *8‘ 86.‘ *65*-/ ‘ ?60*‘ ; .*‘ 1 ‘ D ‘ ?1., ‘ 1 ‘ ,)*‘ -1.*. , 62, ‘ ., 6, *‘ 51+*-2?*2, . ‘ D ; .‘ 2‘ ?10*-2‘ , ?*.‘ , ‘) 6.‘ ?1-*‘ 1-‘ /*. .‘ 5 +*2‘ 86 ‘ 2‘ *+*- ‘ >1 ; 2, -A‘ , 1‘ 6‘ .1 ; 20*-‘ >12>*=^ , 12‘ 1 ‘ ,)*‘ -*/6, 12‘ D*, 8**2‘) ; ->)‘ 620‘ , 6, *% ‘ 7& *, C [*-‘ , ‘ & */, *‘) " = ! ‘ S ‘ **‘ ‘ $ ‘ ‘ !

1$*5 62, . ‘ 6‘ =6-, ‘ 1 ‘ ,)*‘ *?12. , -62, . ‘ 1 ‘ : 1/^ /620% , ‘ 0*- +*0‘ , .‘ 26?*‘ -1?‘ ,)*‘ ?*?D*-.‘ >6// 25‘ ,)*-‘ 6. . *?D/ *.‘ ! ()* ‘ -*A*>, *0‘ 6// >-**0. ‘ 6// -*5 ; /6-‘ ? 2 . , *-. ‘ 620‘ 6// , *. , . ‘ 1 ‘ >1?? ; 2 12‘ 620‘ 1-?. ‘ 1 ‘ *>>/*. 6. , >6/ 51+*-2?*2, % ()* ‘ 6-*‘ .1?*^ , ?*.‘ >6//*0‘ ; " ‘ D*>6 ; . *‘ ,)*‘ ‘ ?*, ‘ , 8 >*‘ 6‘ *6-‘ 6, ‘) 2.D*-5 ‘ 6‘ + //65*‘ 2*6-‘ * 0*2% ()*‘ 1/C /*5 62, .‘ 8*-*‘ >12/ 2*0‘ , 1‘ : 1//620T) ; , .1?*‘ 1 ‘ ,)*‘ -=-6>, >*.‘ 6-*‘ 1//18*0‘ D ‘ 1,)*-‘ -*/ 5 1 ; .‘ D10 *.‘ 2‘ 1,)^ *-‘ >1 ; 2, -*. ‘ 6.‘ D ‘ ,)*‘ / ?1 ; ,)‘ -*,)-*2‘ M_% +%X‘ 2‘ 25/620% ‘ <1.)* ?‘ " "‘ DD ‘ >*2, ‘ L+ ‘ =, % ‘ >)% + %

1//*5 6, *‘) ; ->)% ** ‘ 1-‘ L ‘ ‘ $ ‘ !

1// *-‘ B*-*? ‘ 62‘ 25/ .)‘ 212CA ; -1-‘ 86.‘ /1-2‘ 2‘ S ‘ 6, ‘ , 18C8 ,)C# ; ‘ 6?D-05*.) -*% : *‘ =6..*0 <% ‘ 6, ‘ 6 ; .‘ 1//*5*‘ 6?D-05*‘ 2‘ S S‘ 620‘ 1D^ , 6 2*0‘ ,)*‘ / + 25‘ 1 ‘ ?=, 12‘ ; ..*L‘ 8) >)‘)*‘ -*. 52^ *0‘ 1-‘ ,)*‘ /*>, ; -*.) =‘ 1 ‘ 4-6 .‘ 22‘ SQ % ‘ ,)*‘ *+1/ ; , 12‘ 1 ‘ SQQ ‘)*‘ 21, ‘ 12/ ‘ -* ; .*0‘ ,)*‘ 16,) . ‘ D ; ‘ 86.‘ 6>, +*‘ 2‘ D*) 6/ ‘ 1 ‘ ,)*‘ 0*,) -12*0‘ ?126->)% 2‘ SRS ‘)*‘ 86.‘ 1 ; , /68*0% , ‘ /6. , ‘)*‘ , ; -2*0‘ /7 .‘ , 6/*2, .‘ , 1‘ D*, , *-‘ *20. ‘ 620‘ ?60*‘ 86-‘ 12‘ ,)*‘ / >*2, 1 ; .2*..‘ > ‘ ,)*‘ ,)*6, -*% : .‘ -., ‘ 81-9‘ 12‘ ,) .‘ .; DA*>, ‘ 86.‘ &‘ $" ‘ N ‘ ‘ " ‘ ‘ ‘ (M ‘ ‘ " ‘ $ ‘ M 120% NQ‘ O*0% Q+1X% ()*‘ 8 , .‘ 2‘ +6 2‘ 1=^ =1.*0‘) ?‘ 620‘ 6 , *-‘ 6‘ , *2‘ *6-. ‘ .-; 55/*‘ 2‘ 8) >)‘) *‘ 8-1, *‘ 1,) *-‘ D119.‘ 620‘ =6?=) /*., ‘ 12‘ ,) *‘ .; DA*>, ‘) *‘ 6>^ >1?=/ .)*0‘) .‘ 1DA*>, % ()*‘ -*., ‘ 1 ‘) . ‘ / *‘ 86.‘ .=*2, ‘ 2‘ +6- 1 ; .‘ / , *-6- ‘ /6D1-.% : *‘ 86.‘ >12.*>-6, *0‘ 6‘ 212C A ; - 25‘ D .)1=‘ D ‘ -‘ : >9.‘ 2‘ N‘ 620‘ 0*0‘ 2‘ N KS% 1// *-‘ 86.‘ 6‘ ?62‘ 1 ‘ *? 2*2, 6D / , *. ‘ D ; , ‘ 1 ‘ . ?6// -*6.12 2576>; /, % *. 0*.‘ ,)*‘ D119.‘ 6D1+*‘ 26?*0‘)*‘ 8-1, *‘ 6 ‘ # ‘ ‘ ? ‘ ; ‘ M2*8‘ *0 , 12‘ 8 ,)‘ *‘ 1 ‘ 1// *-‘ 120% Q ‘ R‘ +1/. % Q+1X† # 6 ‘ ‘ ‘ $ * ‘ M 12AB% N‘ +1/. % Q+1X† # J‘ I>1V‘ ? %" 1‘ ‘ ‘ ‘ 1‘ -1?‘ <1C -*-.‘ 8 ,)‘ 600 , 12.‘ M 120‘ CK ‘ ‘ +1/. % 1/% X‘ D*^ . 0*.‘ 2 ; ?*-1 ; .‘ >12, -1+*-. 6/ , -6>, . % ‘ <6>6 ; /6 ‘ # ‘ ‘6 ‘ NSN† ‘ ‘ M=-* L*0‘ , 1‘) .‘ 6 ! # ‘ ‘6 M X† : 119‘ 6 ! ; %" ‘ + ‘ N † ; %" ‘ ; ‘ + ‘ K%

1// *-‘ B1. *=) ‘ +*- ‘ 6‘ ? 2 . , *-‘ 1 ‘ ,)*‘ *^ 1-?*0‘ -1, *., 62, ‘ ; , >)‘) ; ->) ‘ 86.‘ D1-2‘ 6, ‘ / ?^ 1 ; ,)‘ <6. . % ‘ >, % KS QKQ‘ 5-60 ; 6, *0‘ 6, ‘ ; , 5*-.‘ 1/^ /*5*‘ *8‘ -; 2.8 >9‘ % B% ‘ B ; / ‘ Q R‘ 620‘ 6, ‘ ,)*‘ ,)*1/S5 >6/ .*? 26- ‘ 1 ‘ ,)*‘ * 1-?*0‘ ; , >)‘) ; ->)‘ 2‘ ,)6, ‘ > , ‘ B ; / ‘ Q K% *0‘ 6, ‘ 25., 12‘ % ‘ ; ^ 5 ; . , ‘ QS % (*‘ 86.‘ 6‘ >/*6-‘ ? *,)10 >6/‘ =*-. ; 6. +*‘ 620‘ */1_ ; *2, ‘ =-*6>)*-% . :/ , *-6- ‘ 6, , 6 2?*2, . ‘ 8*-*‘ ; 2 ; . ; 6// ‘ /6-5*‘ 620‘ *2, -*/ ‘ >12.*>-6, *0‘ , 1‘) .‘ ? 2^ . , -‘ .‘ 6‘ =-*6>)*-‘ , 1‘ >) /0-*2‘ 620‘ ,)*‘ 1 ; 25‘ ?*2‘)*‘ .‘ *2, , /*0‘ , 1‘ ,)*‘ -. , ‘ -629% : .‘ =; D/ >6, 12.‘ 8*-*‘ ,)*‘ 1//18 25å -" ‘ " ‘ ‘ ‘ " ‘ ? % ‘ %% ‘ ‘ " ‘ ‘ ‘ ‘ ‘ ‘ 7 ‘ M6‘ =- [*‘ *.^ .6 ‘ 12‘ *6>*‘ ? ‘ (-6>, ‘ 1> *, ‘ % Q ‘ 1 ‘ 8) >)‘ 1+*-‘ , *2‘ ,)1 ; .620‘ >1= *.‘)6+*‘ D**2‘ > ->; /6, *O8 ST -" ‘ " ‘ # ‘ ‘5 ‘ ‘ " ‘ @ ‘M=- [*‘ *..6 ‘ -*.D , *- 62‘ 16-0‘) /6% Q R8S T -" ‘ < ‘ ‘ " ‘ ; ‘M ?% (-6>, ‘ 1> % % QS X(!1 ‘ ‘ ‘" ‘ ‘ ‘ " ‘M % QS †‘ -*=; D/ .)*0‘ 2‘ 25^ /620X a ‘ V>6.627‘ " ‘ ‘ ‘@ ‘M ?% (-6>, ‘ 1> % % QS X‘ ET1 -" ‘ ‘ ‘ ‘ # ‘ ‘ " ‘ % ‘ ‘ " ‘ " ‘ ‘ %% ‘ ‘ " ‘ " ‘6‘ =1..) ; ?1 ; .‘ 81-9‘ , 1‘ 8) >)‘ .‘ =-* L*0‘ 6‘ D- * ‘620‘ A ; .‘ D 15-6=) ^ >6/ .9*, >)‘ " ‘) .‘ D-1,)*-‘ *+% [-6‘ & 1// *-‘ M % QS X%

1// *-‘ & // 6? ‘ 6‘ 6=, .‘ ? 2 . , *-‘ 86.‘ D1?‘ 2‘ > , ; 6, *‘ <6..% ‘ >, % ‘ ‘ : *‘ 5-60 ; 6, *0‘ 6, ‘ -182‘ $2 +*-. , ‘ 2‘ R ‘ . , ; 0 *0‘ ,)*1/15 ‘ ; 20*-‘ =-*. 0*2, ‘ <6L* ‘ 620‘ 86.‘ / >*270‘ , 1‘ =-*6>)‘ 2‘ RQ% 2‘ R) *‘ 86.‘ 1-06 2*0‘ 6, ‘ 1. , 12‘ 6.‘ ? 2 . , *-‘ 6, ‘ /6-5*

D6,' .112' 8*2,' 6.' =6.,1-' ,1' *8=1-,' .=*2,' 12*' *6-' ,)*-*' 620' 1;-' 6.' =6.,1-' 1',)*' -.,' 6=, .,');->)' *8' 1-9% 2' Q ')*' D*>6?*' =6.,1-' 1',)*' 6=, .,' >);->)' 2')6-/*./17+2' <6..%'8)*-*')*'-*?6 2*0' . L^ ,**2' *6-.' 6 6 ,) ;/ 620' .;>>*.. ;/ ? 2 .,*-% 2' QK ') .')*6/,)' 6 / 25')*' -*. 52*0') .' >)6-5*' 620' -*?1+*0',1' 1.,12' 8)*-*')*' -*?6 2*0' 0;- 25' ,)*' -*.,'1') ./ *'01 25'7-+ >*' 6.' ? 2 .,*-'6,'/6-5*% :*' 86.' 6'= 12**-' 1',)*',*?=*-62>*'-* 1-?'620' -1?' QKS',1' QK0' *0 ,*0' ,)*' 7 ' " " % ',)*' -.,' 3' ,*?=*-62>*'=6=*-% :*'0 *0' <6->)'KR Q N% ?125') .'/ ,*-6- '/6D1-.' 8*-*'6' # =" +1'6' .*- *.' 1 '$ 9 ' ' ' 'MD*5;2' 2' QK X' *0 , 12.' 1 ' 6;- 2'620'1 ' 20-*8' ;//*-'620'.*+*-6/1>>6. 12^ 6/ *-?12.% ' =-65;*'& '+ 'N S%

1// 2.' 2,)12 '62' 25/ .)' *.,' 86.' D1-2'6,' :*.,12'2*6-' :1;2./18' 2' S S'620'86.' *0;>6,*0'6,' ,12'620' 25.' 1//*5*' 6?D- 05*% *25'6' ?62' 1 '=-1=*-, ')*' .=*2,') .'/ *' >)*'/ *' 2' /,*-6- ';=;-^ .;,.% :*'0 *0'2' KR% :.' 2 /0*'=- 2> =/*.'D-1;5),') ?' 2,1' >1// .12' 8,)' *2,/* ')620/*-' 620' ?62' 1,)*-.% :.'>/;*'81-9.'6-*' ' ' '" '? ' '5 'M 120% N Q+1X'D*^ T% ' ' 'M 12012' 'Q+1X'a' ' 9 ' '@ " + 'M NXT' 6 ' ' "' -" = '& ' 2'-*=/ ',1' *22*,'M 120% K 'Q+1X'D*^ .0*.' +6-1;.' =6?=)/*,.% 2' ')*'=;D/.)*0') .' " %" ' 4 ' ' '7 8)>)'86.' -*=- 2,*0' 2' '2'Q+1'8 ,)'>1--*>, 12.' 620' 86.' ,-62./6,*0' 2,1' -*2>)' D ' *.' <6 [*6;L' M K X% -% 6?;*/ /6-9*' -*=/ *0',1',)*'2*>*..6-672' 01>,- 2*'1' 1// 2.' >)*/' D ' 2. ., 25' 12',.' 2*L=*^ 0*2> '>12. 0*-*0'6.' 0*.,-;>, +*' 1'?1-6/-*.=12. D /C' ,X% *2,/* .'5 + ' % ' ' ' ' '@ =' " + 'M5 +*2' 2' 6201/=) .'6 " '-" ' (1/% 8X .' 6'.)6-='620'.6->6.,>'D;,' ;// '60*_;6,*'-*^ =/ ',1',)*' .9*=, >6/ 6-5;?*2,.' 1' 1// 2.% **' *C' /620' ' ' ' ' >)%+ T 6--6-' '# ' '@ ' -" " !

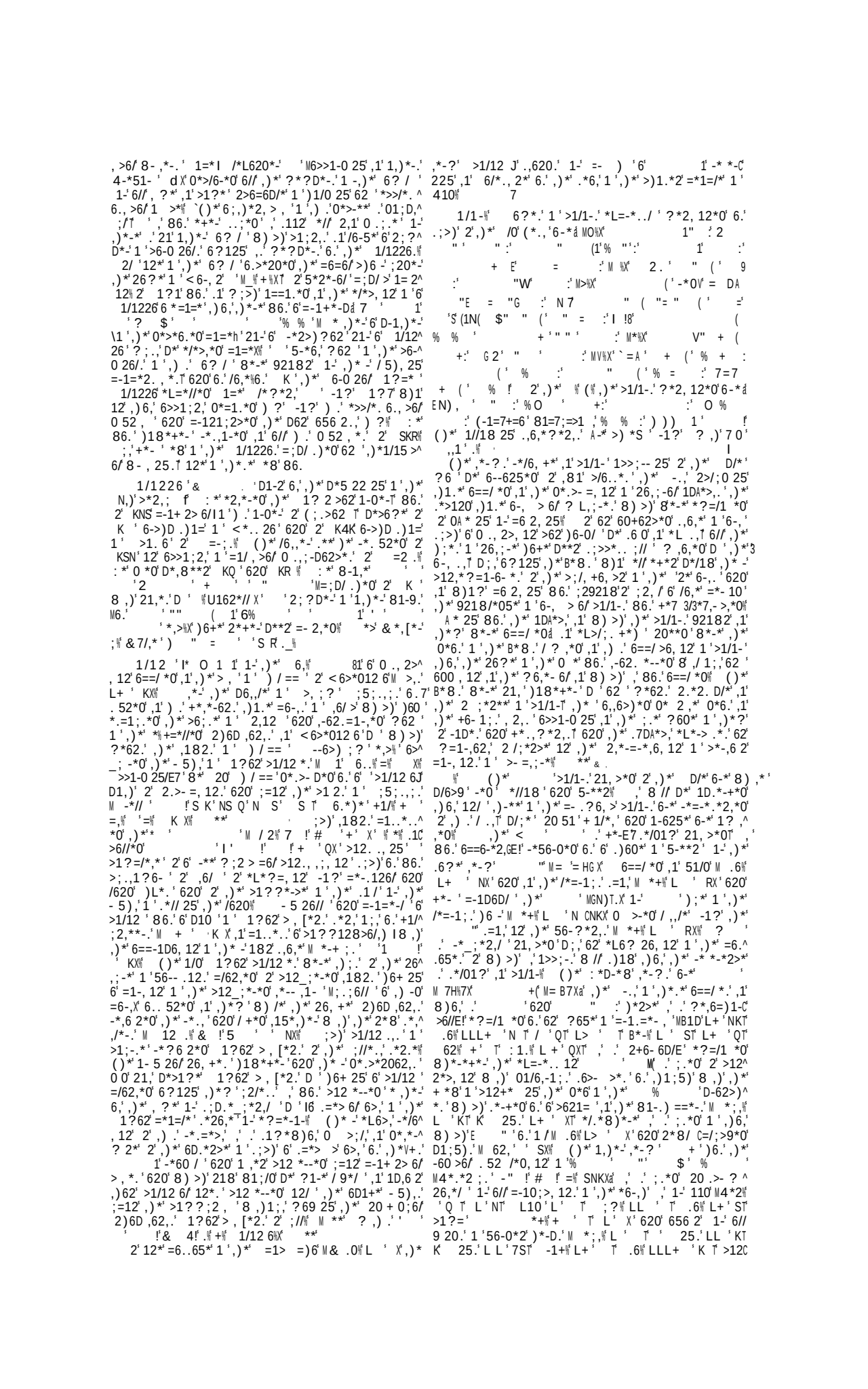
1// 2.' B1)2' 6' <*,)10 .,' = .>1=6/ ? 2 .,*- I' 86.' D1-2' 2' *8'B*-.*A!' 2' SR% 2' Q N)*'-*?1+*0' ,1')1' 620' *2,*-*0',)*' , 2*-62,' ? 2 .,- ' 2' Q % :*' 86.' 12*'1',)*'=12**-.'1' <*,)10 .?' 2',)*' & *.,% 2' Q '8)/*' *,' 6' /1>6/ =-*6>)*-')*' =-*6>)*0',)*' -.,' <*,)10 .,' .*-?12' 2' 2> 226,',1' 6' 01[*2' =*-^ .12.' 2'62' ;==*-' -11?% & ,)' 6'D-*' 2,*-+6/')*' /6^ D1-*0'6.'62' , 2*-62,' ;2, / QNS'8)*2')*' D*>6?*' .;^ =*-622;6,*0% :*' 0 *0' Q % :*' 86.' 62' 6D/*' 620' 6 ,) ;/ =-*6>)*-'1 ,*2' ?=-*.. +*/ '*/1_;*2,7'620'*?^ 2*2,/ ' .;>>*.. ;/6.' 62' *+625*/ .,% *+ +6/.' 1 ' / 5 12' 1//18*0') .' 11,..*=-'*+*- 8)*-*% 2' 2.,-;>^ , +*' .9*,>)'1') ./ *' -1?',)*'=*2'1 'B;., >*' <` *62' 86.'=;D/.)*0' 2' Q M 2>226, ' ' 'S T "!' !'5 ' Q '=%NK % 1// 2.' B1)2' %'6'0 ., 25; .)*0' <*,)10 .,' = .^ >1=6/ ? 2 .,*-' 86.'D1?'2*6-' *6 1-0' */% Q % : '=6-*2,.'-*?1+*0',1')1' 2' Q '620',1' 4*1-5*,182' % %' 2' Q K'620') .' 6>60*?>6/ *0;>6, 12' 86.' 1D^ ,6 2*0' 6,',)*' /6,,*-' =/6>*% 4 + 25' *6-/ ' =-1? .*' 1' ,6/*2,')*' 86.'=/6>*0'6.'6'/68' .,;0*2,' 2',)*' 1 >*' 1' & // 6?' & -,' D;',)*'=/62'1') ./ *' 86.'>)625*0'D ' D .'>12+*-. 12'6,'6'>6?=0?**, 25' 2' 1;01;2' 1% 6%' 2' QK % :*'A1 2*0',)*' <*,)10 .,' = .>1=6/);->)' 620' 2' QKS'86.'/>*2.*0'6.'6'/1>6/=-*6>)*-% 2' QN ')*' *2,*-*0',)*' , 2*-62,'? 2 .,- ' 2',)*' 6/, ?1-*' 12 *-^ *2>*'620') .' 5-*6,' ,6/*2,' 6.' 6' =-*6>)*-' .112' 56 2*0') ?'6'>1?7620 25'-*=;,6, 12% :*' //*0'6//,)*'=-1?^ 2*2,'6==1 2,?*2,.' 2') .' 12 *-*2>*' 6.' =6.,1-' 620' .*-+*0' *+*-6/ ,*-?.' 6.' =-*. 0 25' *0*-% 2' QNS')*' 86.' */*>,*0'6.. .,62,' *0 ,1-' 1',)*' " '& ' 6,' *8' 1-9% () .' 1 >*')*' .112' -*. 52*0' =6-,/ '12' 6>>1;2,'1',)*'*>,'1',)*'>/ ?6,*';=12',)*')*6/,)'1') .' 6? / ' D;,' ?6 2/ ' D*>6;.*')*' D*/ *+*0')*' >1;/0' D*,.,*-' .*-+*')*');->)' 2',)*' ?1-*'-*5;/6-'0;,.*.' 1' ,)*' ? 2 .,- % *8' ' 2'62 '=*-10'1',)*') .,1-' 1',)*' <*,)10 .,' = .>1=6/);->)'6+*' ?1-*.;>>*..^ ;// ' =-*6>)*0')*-' 01>,- 2*.' 1-' ?1-*' 6 ,) ;// ' 0*^ *20*0')*-' 0 .> =/ 2*% :*' 86.' */*>,*0',1',)*' 4*2*-6/' 12 *-*2>*' 6.' .112' 6.')*' 86.' */ 5 D/*' 620',1' *+*- ' .;D.*_;*2,'12*' 0182',1',)*'/;.,' 8)*2')*'/*0',)*' 0*/^ *56, 12% :*')60' =-*C*? 2*2,' =;/=,' =18*-% :.' .*-?12.' 8*-*'?6-9*0'8 ,)'5-*6,'>/*6-2*..'1',)1;5),' 6=,'520' .>- =,;-6/ //;.,-6, 12.' 620' 8*-*' 0*/+*-*0' 8 ,)'*/*562>*'1'.=**>)'620'1 ,*2' 8 ,)'62'*/1_;*2>*' *6-2*..,2*..'620'=18*-',)6,'8*-*'1+*-8)*/?25% 3 .' 6'0*D6,*-'12',)*' /11-'1',)*' 4*2*-6/1-' 22;6/ 12^ *-*2>*')60' *8'*_;6/.'>*-,6 2/ '21'.;=*- 1-% 3 :*' 0 *0'1'=2*;?12 6'6 ,*-'6'.)1-,' //2*..'<6 ' Q ' T ' ' Q Q';=% S%

1// 2.'B;0.12' 8 5),'.';=*- 2,*20*2,'1',)*' <*,)10 .,' = .>1=6/ ? .. 12.' 2') 26'86.' D1-2' 2' & 6 2*' 1;2, ' % %' *D% K' QKK% :*' -*?1+*0' 8 ,)') .' =6-*2,.',1' <>)562' 2' QN '86.' >12+*-,*0' 2' QNQ' 5-60;6,*0' 2' <>)562' $2 +*-., ' Q ' *2^ ,*-*0',)*' , 2*-62,' ? 2 .,- ' 2',)*' <>)562' 12 *-^ *2>*'620'86.'6==1 2,*0',*6>)*-' 2',)*' & *./* 62' *?^ 26-'6,' /D 12' 2',)*' .6?*' *6-% :*' 86.' .*2,'6.' ? .. 126- ',1') 26'620' .;=*- 2,*20*2,' 2' Q '-*^ ,;-2*0'8 ,)' ?=6 -*0')*6/,)' 2' Q '620'0 *0' <6 ' N' Q K' 2' & 6.),*268' 1;2, ' <>)562% :.'? 20'86.' >/*6-'620'+ 51-1;.'?1-*'.1/0',)62'D- // 62,'620'?1-*' /15 >6/,)62'*/1_;*2,% *6-.'D* 1-*',)*');->)'*.^ ,6D/.)*0',)*')26'? .. 12'620'8)/*'=-1.*>;,25') .' >1//*5 6,*' .,;0*.')*'=;-.;*'6' >1;-.*' 1'-*60 25' 12') 26'=-*=6-6,1-',1'6'8)1/*/ *'1'? .. 126-'/6D1-' 6?125',.'D*2 5),*0'?//12.'620').' ? 20')60'21'-*.,' ;2,/ ,'86.'6>,;6// '.;--1;20*0'D ',)*-'06-92*..'620' ? .*-% 1' ,*?=1-6-'?=;/.*'/*0')?',),)*-'21' ,-62. *2,' *-+*2,' **/25.';-5*0')?',1'6/ *'1',1/2' ,)6,'0 .,62,'/620†);,'6'=*-?62*2,'>12+>,12'1'0;, '=1..*..*0')./? 20'12*'5-*6,'7*6'1'.,;=-*?*'.*-+>*' ,1')-.,'>12,-1//*0').'8)1/*'*9.,*2>*'620'>6-- *0'6//).',)1;5),..'6//).'6 *>,12.'6//).' ?=;/.*.',1',)6,' *L,*2.+*',*--,1-'1')*6,)*2.?'620')./?6-, -(/*1' 6,,6D)-6*2,.',1') .'81-9'8*-*'12/ '/11.*2*0'D '0*6,)%J T ' ' ' Q K'=% NT -65;*'& 9 '+ 7'QN %

1// 2.'& *// 25,12';%'6'<*,)10 .,' = .>1=6/ ? 2 .,*-' 86.' D1-2' <6 ' Q S' 2' &1/>1,,' &6 2*' 1;2, ' % %T -*?1+*0'8 ,)') .'=6-*2,.',1'<>)562' 2' QN '86.'>12+*-,*0' 2' QN 'D*562'=-*6>)25' 2' QN ';20*-',)*'=-*. 0 25'*/0*-'620'*2,*-*0',)_'<>)^ 562' 12 *-*2>*' 2' QNQ% ()*' 12 *-*2>*',)*2' 2^ >/;0*0'6// 1'<>)562'620' 1-,)C8*.,*-2')1% ^ ,*-',8*2, ' *6-.'.*-+>*'6.'6'..6, 12*0'?2.,*-'620' .*+*2' *6-.'6.'=-*. 0 25'*/0*-')*'0 *0'6,' *,-1,' ;5% Q Q% :*'86.' */*56,*',1',)*'4*2*-6/ 12 *7=2**' 6,' 1.,12' Q K'620'6/.1',1',)6,'6,' 20 626=1/.' 2' Q S% <-% 1// 2.'86.'6'?62'1'5-*6,'1->*'1'>)6-6>,*-% :*' 86.'6'?6.,*-/ '=-*6>)*-'620'86.'-*?6-96/7I7'6D/*' 2' 0*D6,*T D;,'=*-)6=.') .')5)*.,'*L>*//*2>*'&6.' 2')./ .6 *'A;05?*2,'6.'6'>1;2.*//1-'D '8)>)')*'86.'6/86 .' 2/;*2,6/6?125') .' D-*.)-*2% ' ' 9 ' Q Q';=% NN T ('5 % ' L L' R%

1/2'& '6 #' %'8 '86.' D1-2' *>% K QQ'6,' *-/25)6;.*2' 2',)*'=-2>=6/,I71' ==*C *,?1/0'8)*-*') .' 6,)*-' 86.' ? 2 .,*-% :.' 6? / '8*-*'1'<1-6+62' 1-5 2% :*.,;0A*0'6/' *,C ?1/0'<6-D;-5'(;D 25*2'M;20*-' /6,,'620' >)2;--*-X' 620' 26// ' 2'41,, 25*2% 2' Q S)*'D*>6?*'=-1 *..^ 1-' '1',)*1/15 '6,'<6-D;-5'620' 2' Q ' 6,',)*' * 1-?6, 12' B;D/**')*'D*>6?*'01>,1-'1',)*^ 1/15 V 2' Q Q')*' -*>* +*0'6' 01;D/*' >6//'12*' -1?' : * 0*/D*-5',1',)*'=) /1.1=) >6/',)*'1,)*-' -1?' -*.^ /6;',1',)*',)*1/15 >6/ 6>;/, / :*'6>>*=,*0',)*'/6,,*-% <-' .'6>60*?>'0 .>1;-..*.'*?D-6> 25'*L*5*,>'620')*' .,1- >6/',)*1/15 '6,,-6>,*0',)*'?1-*'5 ,*0'6?125',)*' .,;0*2,.% *. 0*.') .'1>>6. 126/6>60*?>6/8-, 25.' MUX*D '% %" ;' '\<6-D% Q h'$% ' = ' ' . %" ' ' \ -6, ./% Q Qh' '% % ' " !' !' " %% ' ' 2'\ -6, ./% QK h' h=

' + " ' ' . %) ' & ' % ' ' ' '\ -6, ../ QN hX ' 620 ' ? 62 ' +6/ ; 6D/ *' 6-, >/*.' 2' A1 ; -26/. ' , 81 ' D119.' =6-, > ; /6-/ ')6+*' ?60*') .' 26?*' ; 2 +*-.6// ' 9218 2 -., ') .' -*+ . 62' 1 ' ,)*' -.,' +1/ ; ?*' 620' ,)*' -.,' =6-, ' 1 ' ,)*' .*>120' +1/.' ?*' 1 ' ,)*' ,) -0' *0 , 12' 1 ' < $2.>)*-.' " " ' ' + ' M 6..*/' QNK 620' QN X I' ( ) .' *0 , 12' 1-?*0' 62' *=1>)' 2' ,)*' : ..,1 ' 1 ' 15^ ?6. ; ' ,) .' =- 2> =6/ D119 .' ,)*' ; " ' -" "=' ' MK' +1/.' * =. QNS ' *0 , ' D ' >) ; /[X ' &) >)' 1-' 6' /125 I' , ? *' *.=*> 6// ' 2' ,.' /0C (*., 6 ? *2, ' =6-, ' 86.' >12. 0*-*0' 6.' ,)*' ?1..' *L>*//*2, ' 81-9' 12' ,) .' .> *2>*' : *' 0 *0' 12' ,)*' ,)' 1 ' *D-; 6- ' QNN 2' ,)*1/15 ')*' 86.' 6' ? 10*-6,*' 6, 126/ . ., ** 6' .9*,>)' 1 ') ?' D ' >) ; /[' 2' ,)*' 6D1+*C ? *2, 12*0' ; " ! ' -" 1' +1/ ' : *-[15 ' 5 26 + %' L L ' NN 1//1=.' ?' / !' % "E' 8 ' #$OP31 0, ')53') 5 7P' ,8(P3# 0, ' , ()' ,83#5' 6$01')53' 5(61753# 0, ' (#)(88..3*' 0L ' $6)' (#)53' #9 = ; 0 0, ' 38%<06# $ 0#$3 Q)9' &-0 ' / ' 33' / ! 1// - 0 62. ' 6' .*>, ' 1 ') *-*, >.' 8) >)' 6-1.*' ,1^ 86-0.' ,)*' >/1.*' 1 ' ,)*' 1 ; -,)' >*2, ; -EW .1' 26?*0' -1?' 6' .?6// >69*' 1 '6' > / 20- >6/' 1-?' M 1dd ; =B> ' 8 8) >)' ,)* ' 1 *-*0' , 1' ,)*' -5 2' < 6- ' 8 ,)' / D6^ , 12.' 620' .6>- >*. ( ) * ' 8*-*' >) * / ' -6D 62' 81?^ *2 ' 8) 1' -*20*-*0' 0 + 2*') 121-.' , 1' ,)*' -5 2' < 6- ' 6.' 6' 5100*..' , ' .' >12A*>, ; -*0' D ' *620*-' ,) 6, ' ,)*' >69*C1 *- 25' 86.' 6' , -62. *-' 1 ' ,)*' 1D/6, 12.' 1 ' ,)*' 1-0 .' ; ==*-' , 1' ,)*' 81-.) = ' 1 ' ,)*' -5 2' ,)*' 8) 1/*' ,69 25' ,)*' .) 6=*' 1 '6' =6562' >*-* ? 12 ' ,)*' , -; ,)' =-1D^ 6D/ ' D* 25' ,) 6, ' ,)*' >1--; =, 12' 86.' 2, -10 ; >*0' -1?' ,)*' =6562' 81-.) = ' 1 ' *-*. ' 620' ,) 6, ' ,)*' >; .,1?6- ' D-*60C 1 *- 25.' 6, ' ,)*') *6,) *2' *6.. ' 1 ' ,)*') 6-+*.. ' 2') 121-' 1 ' *-*. ') 60' D**2' >) 625*0' 1-' . ; >)' 1 *- 25.' 2') 121-' 1 ' < 6- % ' **' = =) 62 ; . ' f' Q' <1) * ?' " '" # 1' ' N ' *620*-' " "' # ' M (1--* .' A ,-62./%X ' ' NNR% 1/?62 ' 12' - .)' ? .. 126- ' 1 ' ,)*' ,) -0' *>>/*. 6., >' 8) 1' D ' -1 6/' 6 ; ^ ' ,) 1- , ') 60' D**2' >6//*0' -1?' -*/620' , 1' =-*. 0*' 1+*-' ' ,)*' .1** 20 . 6-2*' 2' 1-,)' - , 6 2%' ; - 25') .' 620') .' =-*0*>*..1-. ' . ; =*- 2, *20*2> ' ,)*' >) ; ->)*.' 2' ' ,) 6, ' >1 ; 2, - ' 8) >)') 60' D**2' 0*+6..6, *0' D ' *206' ,)*' /6..' 6562' 9 25' 8*-*' -*.,1-*0' 620' 8*-*' *2A1 25' 5-*6, ' , *?=1-6/ 620' .= - , ; 6/ =-1.=*- , ' ; ' , 6D1 ; ' , % SSK' ,)*' 25/1C 6L12' >/*-5 ' 8) 1') 60' 0*.*-, ^ ' *0' ,) *.*' >) ; ->)*.' 2' ,)*') 1 ; -' 1 ' 0625*-' 8 .) *0' , 1' -*, ; -2' 620' , 1' .) 6-*' ,) *?' 6, ' /*6., ' 8 ,)' ,) *' - .)' 620' 12 62' ? .. 126- *. ; , ') *-*' 6' 0 >; /, ' 6-1.*' ()*' 25/ .)' 6,) 1/ >') ; ->) ' 6.' -*>*2, / '-*>12., - ; >, *0' D ' ' ; 5 ; /, 2*' 620' ,) 6, ' ,)*' >1, 1C - .) ' 8*-*' 1 ; 20' , 1' ' D*' .1' 0 .. ? /6-' 2' 01>, - 2*' 620' ; .65*' ,) 6, ' ,) *' >1 ; /0' 21, ' >120 ; >, ' 81-.) = ' 2' ,)*' .6?*' *0 >*. ' ()*' 0 *-^ *2>*.' 8*-' ? 2 ; ? *-1 ; .!' 6?125' ,) *?' 8*-*' ,)*' , ; *.^ , 12' 1 ' ,)*' ()-***) 6=, *-.' M_ %' +%X ' ,)*' , 12. ; -*' 620' ,)*' , ? *' 1 ' 9**=25' 6. , *-% 2' 6==*6/' , 1' ,)*' =1=*' 86.' 1 ; .*/*.. ' 1-' /125' D* 1-*')*') 60' =; ' , ' 1-.) ' .' 0*^ > . 12' ! D ; ' ,)*' - .)') ; ->)' 620' ,) 1.*' 1 ' 126') 60' 21, ' >1?=/ *0' 8 ,)' , ' .8 ' ,)*' 9 25' -*_ ; -*0' ,)*' 8) 1/*' , 1' D*' =-*. *2, *0' , 1') ?' 1-' 60A ; ., ?*2, % ()*' 0 .>; .. 12' 86.' 2' - .)' 620' 25/1C 6,) 1/ >.' M.**' *0*' / D V ' >% K X ()' .' 0*> . 12') 18*+*-' 86.' 6-' -1?' * *>, 25' =*6>*% ()*' 01? 262, ' =6-, ' .112' D*>6?*' 2^ , 1/*-62, ' 620' -*_ ; -*0' ,)*' >/*-5 ' 1 ' 1/?62' , 1' D*' -*1-^ 06 2*0' 1' ,) 6, ' ,)*' -' >) ; ->/ >. ' =-*+ 1 ; .' , 1' ,)*' =*- 1-?' 62>*' 1 ' 6,) 1/ >' 81-.) = ' .) 1 ; /0') *' .=- 29/*0' 8 ,) ' *L1-> .*0' 86, *-' M .) *-' +1/% ' =% / ! 620' 6/.1' ,) 6, ' ,) * ' .) 1 ; /0' 1D.*-+*' ?62 ' 2*8' - , *.' 620' ; .65*.' , 1' ' 8) >)' ,) *') 60' D**2' *2, -*' .,-625*-.% (1' 6// 1 ' ,)*.*' ' , 1' ,) .' 06 ' 6-*' +*2*-6, *0' 6.' ,) *' ?1.' =-*> 1 ; .' -*/ >. ' / 9*' ,) *' &*/.) ') - . , 62.' D* 1-*' ,)*?' 1/?62' 620' 1 ' 1/152*% ()*' =1/ , >6/' , -1 ; D/*.' 1 ' ,)*' K,) ' 620 ,) *' ?1.. ' 1 ') .' >/*-5 ' -* ; .*0' , 1' . ; D? , ' 620' _ ; *, / ' %N,) ' >*2, ; - *.7 ? 2 .) *0' ,) *' =18*-' 1 ' ,) *' 6->) D .) 1=C' -*/ 2_ ; .) *0' 2' 1-,)' - , 6 2' ,) *' >) ; ->)*.' 8) >)' ,) * ' / * ' D ; ' , ' -1.*' 656 2' ; 20*-' 12-60' +12' : *0) . , 60*2) 60' D ; /, ' 1-') 60' -*. , 1-*0' 620' 2' 8) >)' ,) * ') 60' . ; >^ >*.. ; // ' =-*6>) *0' 1-' 2*6-/ ' . *+*2, A' *6-. ' 1/?62' 218' -*, ; -2*0', 1' -*/620', 69 25' 8 ,)') ?' 6//') .' 182' >1 ; 2, - ?*2' 620' ,) -, C. L' *>>/*. 6., >.' 1-' . , ; 0*2, . ' 8) 1' 60) *-*0', 1') .' , *6>) 25% 1-' ,)*' /6, , *-')*' *.^ , 6D/ .) *0' 12' ,) *' *6. , ' 1 ' ,)*' ./620' 62' 2. , , ; . 12' /125' 9218 2' 6.' ' <6 1' 1 ' ,)*' 25/ .) J' , 1' 8) >)' *0*' .6 .' ? 62 ' /1>9*0' -1?' 25/620 ' ,) 6, ' ,)*' ? 5), ' 56 2' 9218/*05*' 620' /*60' 6') 1/ ' / *%J' ; , ' 21, 8 ,) . , 620^ 25') .' . ; >>*. .' 2') .' 2*8' *2, *-=- . *') *' >1 ; /0' 21, ' -*C' 7' >1+*-') ? . */ ' -1?') .' 1-?*-' 0*6, T) *' 8*2, ' 6D-160' , -6+*/*0' 12' ,) *' 12, 2*2, ' + . , *0' ,) *' 6. , ' 620' 0*0' 6D1 ; ' % S S *** *0*' # ! 6 !1O ! >% ' 620' 6/.1' + ' T' <11-*' # ' ' ' M ?% *0 , % ') /60%X% 1/?62 ' + . % % 62' *? 2*2, ' 125-*56^ , 126/ ? 2 . , *-' 86.' D1-2' 2' 1.,12' >, % R S N% : *' 5-60 ; 6, *0' 6, ' : 6-+6-0' SRK ' 620' .6 /*0' 1-' 12012' SR ' D ; ' 12' ,) *' +1E!65*' 86.' , 69*2' D ' 6' -*2>)' +*.^ .*/ 620' >6-- *0', 1' -62>*' 1 ' , *-' -*?6 2 25' 2' 25^ /620' .1?*' ,) -**' *6-. ') *' 7+6.' >6// *0', 1' , 69*' >) 6-5*' 1 ' -6, , /*' , -**, ') ; -) >)' 1. , 12% : 1' 6>>*=, *0' 620' 86.' 1-06 2*0' ; 5% SRR ' 2' 12012' : *' 0 *0' ; 5% KR % : *' 86.' ?60*' % % D ' ,) *' $2 +*-. , ' 1 ' 4/6.518 ' N % -% 1/?62' = ; D/ .) *0' 6' ' ' 6 * "(' - 1' ' I"' ' ' "' ' 5 E' $ ' 2 ' M XT' -" ' % " ' ' ? 1' ' $ ' M XT' @ ' $ ' ' + ' L ' K ' KK' M XT' , ' ' M KKXT' &' - ' ' @ ! " % M K XT' &' ' ' ' " ' ? ' " ' ' ' M NSXT' 620' 6' /6-5*' 2 ; ? D*-' 1 ' 1>>6. 126/ .*-?12. % ' =-65 ; * & 1M ! ' KKN% 1/152*' 6' >*/*D-6, *0' > , A' 12' ,)*') 2*' ,)*' .>6, ' 1 ' 62' *6-/ ' D .) 1=- >% ()*' /*5*20' ,) 6, ' 6' 0 .> =/*' 1 ' ,)*' 6=1. , /*' *, *-' D ' ,)*' 26?*' 1 ' <6, *-2 ; . ' 86*' ,)*' 1 ; 20*-' 620' -. , ' D .) 1=' 1 ' ,)*' >) ; ->) ' 1 ' 1/152*' . ' ' 218' 5*2*-6// ' 6D62012*0' *+*2' D ' 1?62' 6,) 1/ >' 8-, *-. % <6, *-2 ; . ' ,)*' -. , ' M) . , 1- >6/ % D .) 1=' 1 ' 1C /152*' . ' ?*2, 12*0' 6.' *6-/ ' 6.' N N M <62. ' ! , % ' 1/% NSX% ()*' . ; >>*. . 1-' 1 ' <6, *-2 ; . ' ; ^ =) -6, *. ' 6, , *20*0' 2' N ' ,)*' 210' 1 ' 6-0 >6 ' 620' 86.' 12*' 1 ' ,)*' 0*/*56, *. ' 1 ' ,) . ' . 210' , 1' ,)*' ?=*-1-' 12^ . , 62, 2. % ()*6>, . ' 1 ' 6' 210' 1 ' 1/152*' 1 ' N S ' 8) >)' . , 6, *' ,) 6, ' ; =) -6, *. ' 86.' 0*=1.*0' 1-' D* 25' 62' - 62 6-*' 218' 5*2*-6// ' -*56-0*0' 6.' . =; - 1 ; . % 2' SKNC SN' 8*' 20' ; 2 D*(, ' ?*2, 12*0' 6.' 6->) D ./ 1=' 1 ' 1/152*' M *, , D*-5 ') " "!' ' " ! ' S K X *, ' , ' 01*.' 21, ' 6==*6-' , 1') 6+*' D**2' 6, ' ,)*' , ?*' 6' -*5 ; /6-' 6->) D .) 1=- >' 1-' D .) 1=. ' 1 ' 1/152*' 6-*' ?*2, 12*0' 6 , *-' ,) 6, ' 06, *' 620' 12 6> ; . ' M_ % ' +%X' 2' Q . ; DA*>, *0' , ' , 1' ,)*' ?*, -1=1/ , 62' 1 ' <6 *2>*' -1?' 8) >) ' B, ' 86.' =-1D6D/ ' 0*, 6>) *0' ; 20*-') 6-/*?652*' D*, 8 **2' R ' 620' RR ' 2' 1-0*-' , 1' D*' -6 . *0', 1' ,)*' 0 52 , ' 1 ' 62' 6->) ^ D .) 1=- >% ' 26, 126/ . 210' 86.') */0' 6, ' 1/152*' 2' Q ' , 1' -*5 ; /6, *' ,)*' 60? 2 . , -6, 12' 1 ' ,)*' 5110.' 1 ' ,)*') ; ->) ' 620' , 1' >12.*>-6, *' ,)*' >6,) *0-6/% ()*' ?=1-^ , 62>*' ,) . ' .**') 60' 1D, 6 2*0' 2' ,)*' ' >*2, ; - ' . ' =-1+*0' D ' ,)*' 6>',) 6, ' ,)*' ?=*-1-' , , 1' ' 56+*' , ' , 1') .' D-1,)*-' -; 21' ,)*' -. , ' 6->) D .) 1=' 8) 1' 86.' 6, ' ,)*' .6?*' , ?*' 6' =- 2>*' 1 ' ,)*' 4*-?62' ?= -*% 1=*.' 620' *?=*-1-.' + *0' 2' 2>-*6. 25',) *' 8*6/,) 620' =18*-' 1 ' ,)*' 6->) D .) 1=' 1 ' 1/152*' 620' . 210.') */0' 6, ' ,) 6, ' =/6>*' 0*>/6-*0') ?' , 1') 6+*' ,) *' - 5), ' 1 ' =-*>*0*2>*' 1+*-' 6// 1,) *-' >/*-5E ' ,)*' =6=6/ /*56, *.' ' 6/12*' *L>*=, *0% D1 ; ' ,) *' ? 00/*' 1 ' ,)*' K,) ' >*2, ; - ' ,) *' 6->) D .) 1=.' 1 ' 1/152*' 8*-*' */*+6, *0', 1' ,)*' -629' 1 ' */*>, 1-. % -1? 2*2, ' 6?125',) *' 6->) D .) 1=.' 1 ' ,) . ' =*- 10' 8*-*' 221' ' 8) 1' 6D0 ; >, *0' ,)*' 1 ; 25' *?^ =*-1-' : *2- ' 620' 6 26/0 ' >1-2, ' 1 ' D . .*/' >. ' [6D/*' 5*2*-6/' 1 ' ,)*' ?=*-1-' -*0*- >9' ' 8) 1' =6, -12 [*0' ,)*' 62, C=1=*. ' 620' D-1 ; 5), ' -1?' < /62', 1' 1/152*' ,)*' =-*. *20*0' D10 *. ' 1 ' ,)*' ,) -**') 1/ ' 9 25. J' 8) >)' ; =' 8) >)' ,) *') 60' D**2' *2, -*' . , -625*-. % (1' 6// 1 ' ,)*.*' ' , 1' ,) .' 06 ' 6-*' +*2*-6, *0' 6.' ,)*' ?1. ; =-*> 1 ; .' -*/ >. ' / 9*' ,) *' &*/.) ') - . , 62.' D* 1-*' ,)*?' 1/?62' 620' 1 ' 1/152*% ()*' =1/ , >6/' , -1 ; D/*.' 1 ' ,)*' K,) ' 620 ,) *' ?1.. ' 1 ') .' >/*-5 ' -* ; .*0' , 1' . ; D? , ' 620' _ ; *, / ' %N,) ' >*2, ; - *.7 ? 2 .) *0' ,) *' =18*-' 1 ' ,) *' 6->) D .) 1=C' -*/ 2_ ; .) *0' 2' 1-,)' - , 6 2' ,) *' >) ; ->)*.' 8) >)' ,) * ' / * ' D ; ' , ' -1.*' 656 2' ; 20*-' 12-60' +12' : *0) . , 60*2



,-6..' ,)*' -*.,- >,*0' 6==/ >6, 12' 1 ' 1 ;-' 8:' 8)*2' '>1?=/*L 12' 1 ',)*' D- 0*' .' / 9*2*0' M 62, ' + ' X' 6.' 6==/ *0',1' 5-6.. ' ,' ?*62.' .=*> >6// ',)*' 'D "' 8*// 6.' ,)*' ') ;*' =-10;>*0' D '6' / 5), ' 1 '/1>;.,.' ' (+1' .6% LLL+ 'KX' 620',)*' 06-92*.' 1 'D/6>92*.' ,.*/ 'M 6?% MB1*/ + ' QX% .' D* 1-*' 8*')6+*' +6- 1 ;.') * 5),*2 25' ?6^ 2',)*' 0*.*-,'MB1D' .LL L 'QX% /.*8)*-*' ,'0*.>- D*.' + ' QX% .' D* 1-*' 8*')6+*' +6- 1 ;.') * 5),*2 25' ?6^ 5*. ' .2>)' 6.' ,)*' ,*2,.' 1 ' *06-' 6' /1>9' 1 ' 516,-.',)*' ,)*' . >9/ ' *//18 .)') ;*' 1 ' ? /0*8*0' >1-2' M *:,% -6+*2' M 62, ' ' T' + ' T' + ' X'620' .6>9>/1,)' M *+% + LL+ 'KKT' ' 25.'+ 'N T' K')-12% + 'KQT' ?1.' + ' KX% 5 '86.'6/.1'6' >1/1-' 1 '8) >)',)*' : *D-*8.')60' RT' : 65% ' XT' 620'/6../ ' ,' .' ;.*0' 1-' ,)*' *2, -* 6' + + 0' >12>*=, 12' ,) .' ?6 'D*' 6,,- D ;,*0' =6-,/ ' ,1' 6D.*2>*' 1 '>1/1-' =-10;>*0' D ' *6-' MB*-% LLL 'ST' >1?=% ,)*' =-*+6/*2>*' 1 ',)6,' >1/1-' 2',)*' 1 ;,86-0' 6.=*>,' 1 ' 7d1=1>' : 1-2% 'd 'N SXT')*2>*' M *+% + 'QX ,)*' >1;2,- *.' 620' =*1=/*.' 8 ,)' 8) >)',)* ' 8*-*' 6? /^ 0*.>- D*.' ,)*' 5)6../ ' / + 0');*' 1 '0*6,)% 2' 1,)*-' 6-' 6.' 6,,*.,*0' D ',)*' 26?*' 01?' 620' D ',)*' 81-0.' =6..65*.' 5-**2J' .' *--12*1;./ ' ;.*0' 2',)*' % % 1-' '"M*6-,)X' 620' 'M?62X' .1',*-? 0' *,)*-' 6.' " 'M4*2% LLL I'N T' .,)% 'SX' 'M *+% ' T' D* 25' 1-?*0' 1;,' 1 ',)*' -*0' *6- D' 1-' 6.' D* 25' -*0' 2' LL ' X' 'MB;05% L+ ' 'QX' %% 'MB1D' + ' 4X' >1?=6- .12' 8 ,)' ,)*' 6 -' >1/1-' 1 ',)*' ..E(62.' 620' 620' % 'M 62,' 'NX% ();.' ,' ?6 'D*' .6 0',)6, ,)*' D/6>9' 1 ',)*' 7 ,) 1= 62.% *0' 86.' -*56-0*0' 6.' ' 2'*+*-' ;.*0' 2',)*' D/*',1'>12+* ',)*' ?=-*.^ 62' */*?*2,' 1 '=*-.126/' D*6;, á >1?=% ' 6?% L+ ' KT' . 12' 1 '=*-2*' ,1' ,)*' "' 'M4*2% LLL I'N T' .,)% 'SX' 'M *+% ' T' 62, ' '8)*-*',)*'/ ' .',)*' '12*' 1-'8) >)' -6' LL ' X' 'MB;05% L+ ' 'QX' %% 'MB1D' + ' 4X' 86.' 6?*0' M / 2% LL ' XT' 62, ' + 'NT' + ' ' 8)*-*' 620' % 'M 62,' 'NX% ();.' ,' ?6 'D*' .6 0',)6, ,)*' 1 ' 21' .>*2, >' 9218/*05*' 1 '>1/1-.' 620' 8*' >62^ ,)*' >1?=/*L 12' .' >1?=6-*0',1',)*' -*0' -;,' 1 ',)*' =1?*56-626,*T' 620' 6?% + ' ' 8)*-*',)*' 21,' D;,',) 29',)6,',)*' 6,,*?=,',1' *L=/6 2' .;>)' =6.^ .9 2' .' -*00*-',)62' >1-6/M % % -;D*.JX' >12,-6., 25' .65*.' 6.' *+% + 'N' D ',)*' -;/*.' 1 '=) /1.1=) >6/,-;,)' 8),)*' 8) ,*' 1 ',)*' 'D* 1-*' 21, >*0% ()*' ? ;.,' 6 /M.**' : *25.,*2D*-5 ' ' 2'/1>%X% 2.,*60' ,)-**' >1/1-.' 8) ,*' D/6>9' 620' -*0' 8*-*' .1?*, ?*.' 2^ 1 '6..;?25',)6,',)*' *?*-6/0'-*=-*.*2,.' ',)*' A6.C' ,*-? L*0' 2' 62 ?6/.' 620' 56+*' -.*',1',)*',*-?.' 7- Kc' =N-' '620',)*' .6-0 2*' ',)*' 0*6' 2,*20*0',1' D*' " (' %% 'M % % 8),*JX' =-1D6D/' 8),*' 620' >12+* *0' D ',)*.*' ?65*.' ?6 'D*' . ?=/',)6,' % ' -*0' MB;05% + ' XT' + (' 1 '*,)*-' 8,)' " ' % '/5),% ()*'*?*-6/0' 1-' 2.,62>*' 8) ,*' D620.' 12',)*/*5.' 1-' 8),*C 11,*0T ! = ' + E' 86.' >) * / ' =- [*0' D ',)*' 62> *2,.' 1-' ,.' % + '620' (' % '8),*' 620' D/6>9T' 620' (';6/ , *.' I E f 4' -=)*;.,'.' ' %!' =% /6..,/ ' ('% 'M % % 5- [[[/*0JX' ,)*% QX' 8)*2>*' =*-)6=.' ,'0*- +*0' ,.' 26?*' I%% 1 1 ' .=.1,.' D* 25' /6-5*-',)62' 2%,)*',81' 1-?*-'M4*2% LLa7' -1?' . ' ()*' A6.=*-' .' >)6-6>,*- [*0' MD' NK' N T' LLL ' XT' ,)*' /6,,*-',*-?' .' ;.*0' 1 ' ')1-.*' B1)2') ?.*/' M *+I' LL ' X' 6.' D* 25' >- .,6/C>/*6-' MU*>)% + 'N' SX' 8 ,)' 6' . ?D1/ >6/' ?*62 25á' : *25^ I), - 1 18' 620'21,'6.')6+ 25'6' >*-,6 2')*% ()*' .,*2D*-5' I " f' 2' /1>%X' >12. 0*-.',)*' >1/1-' ..*/ ',1' .6-0 2*' ?6 'D*' >1?=6-*0' 8 ,)',)*' 6?D*-' 1 ' [*9% ' D* ' ;2?*62 25' 620',)6,',)*' =-1=)*,')6.' 600*0',)*' 'K '1-',)*' D;-2.)*0' D-6..' 1 ' 62% L'S' 1-' 656 2' ,*-?' .,-125I M % % D6 JX' D' 8 ' 1 ' *L=/626, 12T' ,)*' 2*' D-6..' 6.' 'D;-2 25' 2' 6' ;-26>*' J' 1 ' *+% ' : ,[5'> * f' 2'/1>%X' *L=/6 2.' ,' 2' 6' =*>;/ 6-' ?62C' ' *6>)' >12+* 25',)*' ?=-*.. 12' 1 ',)*' >1/1-' 1 ' -*' 2' 6' .,6,*' 1 '=;-*' 2>620*.>*2>*% ? /6-/ ',)*' D*- /' A7*-' 1 ',)*' >1?=/*L 12' 1 ',)*' 5 =, 62.% ,'-*?6 2.' 1-' -6,),*-',)*' " 'M,)*' :*D-*8' " "8?6 'D*' 1-' ;.' 218',1' 21, >*',)*' +6- 1;.',*-?.' 6==/ *0',1',)*.*' .*/*>,*0' D ' 62 *//ML' SX' 12' 6>>1;2,' 1 ',.',-62.=6-*2^ ,)-**' >1/1-.%I' M **' *6>)' 1 ',)*' 6D1+*' 81-0.' 2' ,.' > % 2' *L>*=, 1)' ?6 'D*' ?60*' =*-)6=.' 2' -*56-0' =/6>*%X ,1',)*' .6==)-*' 2' 6.' 6-' 6.' ,.');*' 62.8*-.',1',)*' % (' 0**=' D/;*' 1 ',)*' -?6?*2,'M L10% LL + ' T' >1?=6-*' 8) >)' .' 6==/ *0',1' .;>)' 1DA*>,.' 6.' ? /9' M4*2% L$L [*9% 'KST' L' X'D;,'*+*2' 2',) .'>6.*',)*' =*//;>7, ' KX' ?6226' M L10% L+ 'N X'.218' M .6% ' QX')1-.*.' "('1? ,,*0' 2' % % L10% LL + ' X' 1-'=1/^ MU*>)% ' QX' -6 ?*2,'M >>/% ' QXT' 620' '>1526,*' 81-0' .)'1',)*' .,12*' M>1?=% 6?% + ' X' 1-?.'62' ?=1-,62,' *L=-*..*.',)*' >1/1-'1',)*' ?112' M .7% LL + 'KNX% '21,',)*' ?6 2'*/*?*2,' 2',)*' >1?=6- .12' ()*') 5)^ " ' // ' 8),*' .' 6==/ *0',1',)*' >1?=/*L 12' *.,'0*+*/1=?*2,' 1 '>1/1-' 2',)*' ? 20' 1',)*' :*D-*8' M 62,% ' XT' & ' " ('6',*-?'1'6'/6,*-'651',1' *+ 0*2,/ '86.' "'620')*2>*',)*'=-*01? 262>*' 5 +*2' .218' M 62% + 'R' 12/ X'620',1',)*'=6/*2*..'1'.)6?*' ,1' "'6.',.'-*=-*.*2,6, +*'M>1?='),)*'>122*>, 12'D*^ M .6% LL L 'KK' . B',1',)*')6 -'6/12*% 2^ ,8**2'$. ()620' 8!' ()*' **/25'6==*6-.'D1,)' 2' 1,)*-'>/6..'1',*-?.'6-.*.' -1?',)*',*L,;-*.'1'6'26,^ ,)*' ?1-*' 2;?*-1;.' 6//;. 12.',1' ,',)62',1'62 '1,)*-' ;-6// '8),*'>1/1-'6.' " "'620' " ! ()*.* >/1-' ' 2',)*' +6- *,'1',*-?.'D' 8)>)',)*' '0.>- ?^ 81-0.'6==*6-',1')6+*'D**2'1-5 26// '1' 1-* 52'1-5) ' 26,*0',*.)60*.I'-1?'% ' ',2,'M: / 'D +(' D;,'8*-*'>122*>,*0'D ',)*' :*D-*8.'8,)'-11,.' 2',)*-' + "' *+% L 'K' ._%X ;=',1',)*' ?1.,' D- // 62,' 18 2'/625;65*' 0*.>-=,+*' 1'6' 8),*'>1/1-'M4*.*2;.' .=/*201-' / (" ' [*9% + 'KT' 62% L ' NX' -" ' R NQ X% ()*',*-?.'8*-*' 8,)1;'01;D,' 620' 2',)*'>1?=6-.12.'D '8)>)',)*' 1' ,.' 2J' 620' =-?6-/E7' 6==/*0',1',)*'?6,*-6/' D;',)*' 0*6' 1'>1/1-' ' ' 8)' 8),*' ?6-D/*' M .,)% 'ST' 62,' + ' XT' 620' .218' J' M<6-9' L' NX' 5/.,*2 25' J' M ;9*' L' KRX% ./6/.1'=-1? 2*2,'=6-,>;/6-/ ' 2',)*' 0*.>-=, 12' 1',)*' 218' .';.*0'*/*+*2',?*.' 2' 6' .?/6-' 86 ',)*' .;2' >;-,6 2.' 1',)*' ,6D*-26>/*' M L10% LL+ ' X' 6H 0',)*' +*' .,62>*.',)*'=1 2,'1',)*'>1?=6-.12' .' 21,'.1' 1D+ 1;.' =-* 1 ' ?*.' ? ?/9' 12>*% 2' .1?*' 2^ =-' 1 ' .,.' +*.,?*2,'1',)*' 1 ' 811/ 1;-',?*.' ? /9' 12>*% 2' .1?*' 2^ .,62>*.',)*'=1 2,'1',)*'>1?=6- .12' .' 21,'.1' 1D+ 1;.' *% 5% 2' B1D' LLL+ ' ' ,)* ' .,620' 6.' 6' 56-?*2,J' 2' -* *-*2>*',1',)*' " '>1/1-' 1',)*' : *D-*8' 0-*.. ' 620' 2' .6% L+ ' N' 8)*-*',)*' 5/62> 25');*.' 1',)*' 01+* .' =/;?65*'.;55*.,*0' 62' ?65*' 1',)*' D- // 62,' * *>,' 1',)*' " ')1/06 '>1.,;?*% G *L,',1' 8),*' +' 1' -6,)*-' +')1/0.',)*' ?1.,'=-1? 2*2,'=/6>*' 21,' 12/ ' 6.' .'1==1.,*'D;,'/6/.1'6.'-*=-*.*2, 25',)*'>1?=/*L 12' 1',)*' - *2,6/.% ()*-*' 8*-*' +6- 1;.'.)60*.' 1',' 2^ >/;0 25',)*' " '1',)*' /*' 86,*-'M8)*2>*' ,.' 26?*' // 1-x ',)*' '" , 2,' 1 '*6-/ '0682',1' 8)>)',)*

L H

01? 262,' 2' ,)*')/1.6 >' >*-*?1 ,/6/'' 620' ,' 86.' ,)*' >1/1-'=-*.>- D*0' 1-',)*' - DD12' 1 ',) *' - 25** 2' ,) *' D1-^ 0*-' 1 ' ,)*' 56-?*2,' 1 ' *+*- ' .-6*/ ,* ' ,) 6,' 6.' ,)* ' /119*0' 12' ,' ,)* ' ? 5),' -*?*?D*-' 6// ,)*' >1?? 620^ ?*2,.' 1 'B*)1+6)'M ; ?%L+ 'NQ'NRX% & ,)'% % 1'6.' ,)*' 0-*..' 1 '9 25. ' 8*-*' 6..1> 6,*0' 0*6.' 1 ' '620' * ' + 'K4T c..)%'+ ' ST 62,%$ ' T* ' T' 62%+' S 'KRT >1?=%L X 0'L L 'KK 'O" % ' % % ' 1 ' ,)*' B ; = , *-' 6= ,1//2 ; .' 6,' 1?*' ,)*' % %%(' 2' 1 ')1*D; .'\ + 0 ' !' ' 'KNh',)*' O % " ' %U% % ' 1 ',)*' 1.>;-' \ 6; .62% +' K h' ,)*' H %U% % G- ' 1 ',)*' [62, 2*. ' *,>%X% =' '620' 1' -1?',)* -'-*.*?D/62>*' ,1' D/110'M=-1D^ 6D/ X'D*>6?*' ?D1/ >6/ 1 '/ *T)*2>*' ,' 86.' 6'>- ?^ .12' ,)-*60' 8)>)' 6)6D' 86.' ,1' D 20' 12')*-' 8 2018' 6.' 6' . 52' ,) 6, .)*' 86.' ,1' D*' .6+*0' 6/ +*' 8)*2'B*- >)1' &6.' 0*..-1 *0'MB1.)' ' QT' + ' K X'620' ,' 86.' >- ?.12' 8)>)' ,)*' =- *.,' 86.' ,1' ; .*' 6.' 6' ?*62.' 1 '-*.,1- 25' ,)1.*' 8)1')60' >12,-6>,*0' 0* /*?*2,' D ' ,1; >) 25' 6' 0*60' D10 'M ; ?%L L ' SCKKX% -1?' ,.' ,,*2. , '620' L*02*..' ,) .' >1/1-' .' 6/.1' ; .*0' ,1' . ?D1/ [*' 8)6,' .' 20*/ D/*' 1-' 0**=/ ' *25-6 2*0'M .6%' QX% ()*' >1/1-.' >) * / ' ; .*0' 2' ,)*' <1.6 >' - , ;6/ 8*-*' 8) ,*') 6> 2,)' MD/ ; *X ' =; -=/*' 620' >- ?.12%' ,' .' 6' .; =*- > 6/ + *8' 8) >)' >12>/ ; 0*.' ,)6,' ,)*.*' 8*-*' ; .*0' ?*-*/ ' -1?' ,)* -'D- // 62> 'M -6 ; 2 ' ' 'N !'C !'# !T 6)-'C !' !' ' !@!' **' ; -,)*-' D*/18%

' ' ' # ' !' 1/1-.' 6-*' ?60*' ; .*' 1 ' 2' -*/ 5 1 ; .' . ?D1/ . ?' 6?125' ,)*' B*8. ' 620' 2' .*+*-6/ D-62>)*.' 1 ',)*')- ., 62') ; ->)% =*^ > >' 0 -*>, 12.' 8*-*' 5 +*2' 2' ,)*' %' (% 1-' ,)*' >1/1-.' ,1' D*' ; .*0' 2' D ; /0 25' 1 ' ,)*' ,6D*-26>/*' 620' ,)*' ?69^ 25' 1 ' ,)*' 0-*..' 1-' ,)*' B*8 .)' =- *.,.% 1/1-.' 6-*' 6/.1' 2,-10 ; >*0' 2' 5 + 25' ?1-6/' 1-' .= - ,; 6/' /*...12.' 620' 2' 0*.>- D 25' .>*2*.' 2' -*+*/6, 12 ' 6.' 2' .6%' ' Q' 2' ,)*' 0*.>- =, 12' 1 ',)*' (-62. 5 ; -6, 12 ' 620' 1 ,*2' ?' ,)*' ?65*- ' 1 ',)*' =1>6/ =.*%' **' 6-, >/*' 6D1+*% *- '*6-/ ' 2' ,)*') .,1- ' 1 ')- ., 62 , ' ,)*' . ?^ D1/ . ?' 1 '>1/1-.' 86.' 2,-10 ; >*0' 2' ,)*' - , ;6/ . ?' 620' ,)*' 6-,' 1 ' ,)*')- >)% 2' ,)*' 4-**9!')- >)' ,) . . ?/ : P/ . ?') 6.' D**2' 81-9*0' 1 ; ' ,1' . ; >)' 6' 0*5-**' 1 ' ? 2 ; ,*2*..' ,)6,' / ,,/*' 1-' 21' 0 .>- ? 26, 12' 2' ,)*' ; .*' 1 ' >1/1-.' .' 6//18*0' ,1' ,)*' =6 2,*-% 2' ,)*' 1? .)')- >)' .1?*8)6,' ?1-*' /6, ; ; 0*' .' 6//18*0' ,1' ,)*' 6-,^ .,% +*' >1/1-.'6-*' -*>152 .*0'6.')6+ 2576',)*1/15 >6/ ?*62 25'1-'*L=-*.. 12a &) ,*' *0' 4-**2' 1/*, '620' /6>9%

% " ' .' ,)*' ?1.,' 1 ,*2' -* *--*0' ,1' .2' ,)*' >-=^ % N ' .' >12. 0*-*0' ,)*' >1/1-' 1 '=*2 ,*2>*' 620' , ; -*.% .' ,)*' ; 2 12' 1 '6//' ,)*' -6 .' 1 '/ 5), ' ' .' ,)*' . ?D1/ 1 ' "' 620' % '% ! ' .' 6==/ *0' ,1a M %X' ? ' " '@ " ' ,)*' .1 ; ->*' 620' *..*2>*' 1 ' ? ? ; ,6^ D/*',-; ,)% 2' 62 */M+ 'RX' ,)*' 2> *2,' 1 ' 6 .')6.' 56-?*2,.' 8) ,*' 6.' .218 ' 8 ,)') .')6 -'/ 9*=; -*' 811/% ()*' ?6226' 2' ,)*' 8 /0*-2*.. ' D* 25' 8) ,*') 6.' D**2' >12. 0*-*0' 6.' ,)*' *?D/*?' 1 ' ,)*' & 1-0' 1 ' 410% MK%X" ' 6,' ,)*' (-62. 5 ; -6, 12' 6==*6-*0' 2' 56-?*2,.' ' 8) ,*' 6.' ,)*' / 5), J' M < 6,, ' L+ 'KT' < 6-9' L 'NX% .' ,)*' 4-*6,' B ; 05*')*' 8 // D*' .*6,*0' 12' 6' 5-*6,' 8) ,*' ,)-12*' M *+% LL' X% 2' 81-9.' 1 '6-, ' 8)*2')- .,' 6==*6-.' 6.' ,)*' 1-0' 1 ',-; ,)' 6?125',)*' 01>,1-.' 1 ,)*' /68')*' .' -*=-*.*2,*0' 2' 8) ,*' 56-?*2,.% MN%X' ()*' '6-*' 2*+*-'-*=-*.*2,*0' 2',)*' >- =,; -*.'6.'>/1,)*0' 1,)*-8 .*,)62' 2' 8) ,*' 6.' 6,')*' ,*=; />)-*' 1 ')- .,' M < 6,, ' LL+ 'NX' 6,' ,)*' .>*2. 12' M >,.' ' X% M %X' ()*' ' 2' 5/1- ' .)6// 86/9' 2' 8) ,*' M *+% ' X' .)6// D*' 6--6A7>0' 2' 8) ,*' M +' T' + 'RT' L+ ' '620' L LF' ' 8)*-*',)*' 2*' / 2*2' >/*62' 620' 8) ,*' . ' .)*-' 5),^ *1; .2*..' 1 ',)*' .6 2,.X ' 620',)* ' .)6// -*>* +*' 6%8),*' .,12*' M ' X% M %X' ()*' % ' 6,' ,)*' >12. *>-6, 12' 1 ,)*' (*?=/*' 8*-*' ``6--6 *0' 2' 8) ,*' / 2*2J' MK')-12% ' KX% 2',)*' 1 ; -,)' >*2,; - ',)*' =- *.,.' 1 ',)*')- .', 62') ; ->)' 81-*' 8) ,*' 56-?*2,.' 8) /*' =*- 1-? 25' ,)* -' 1 >*.% 2',)*' 1? .)') ; ->)' 8) ,*' .' !*' -*^ ,6 2*0' 1-' ,)*' 6/D' ,)*' >1=*' ,)*' 6? >*' *,>%' 620' 2' ,)*' *2, -*' =- *../ ' 56-?*2,.' 12' ,)*' *., +6/.' 1 ',)*' 6, + ' = =)62 ' 6.,*-' *,>% 2' ,)*') ; ->)' 1 ' 25/620',)*' 8) ,*' .; -=/ >*' 1 ',)*' 1? .)') ; ->)' .

-*,6 2*0% ,' .' ,)*' .6?*' 6.' ,)*' ' *L>*=,' ,) 6,' ,)*' ./**+*.' 6-*' D-160' 620C ; //% M %X' ()*' " ' 1-^ ?*-/ ' 8*-*' 0-*..*0' 2' 8) ,*' 1-' 12*' 8**9' -1?',)* -' D6=, . ?' 620' 8) ,*' .' *,' ; . ; 6// ' ,)*' 0-*..' 81-2' D ' 5 -/.' 2' ,)* -' >12 -?6, 12%

% 5 ' .' 6' . ?D1/ 1 ' -*' 620' 1 '5/18 25' /1+*% , 86.' ; .*0' 2' ,)*' 0-*..' 1 ',)*' B*8 .)' =- *.,)110% ' .' ; . ; 6// '601=,*0' /6-5*/ ' 2' =6 2, 25')- .,' =*- 1-?^ 25') .' ? -6>/*.' 1-' 1,)*-' /6D1-.' 1 '/1+*' 1-' 6.')*' .' 5 +^ 25',1') .' 0 .> =/*.',)*' ? .. 12',1' >62 ' 2,1',)*' 81-/0' ,)*' -*' 1 ') .' 81-0' M ; 9*' L ' RX% 2',)*' 6?1 ; .' .,6206-0' 1-' /6D6-; ?' 1 ' 12.,62, 2*' ,)*' ?1215-6?' 1 ')- .,' -*..,*0' 12' 6' = ; -=/*' >/1,)% *0*' .6 .',)6,' 6,' ,)*' ,?*',)*')1/ ' .*=; />)-*' 8I6.' =6 2,*0' 8) ,*' 620' -*0% 1?*') 6+*' D**2' =6 2,*0' 8 .)' -*0' 8 25.' M=*-^)6=.' -1?',)*' 81-0' .*-6=) ' =/*2 ,.; 0*' /1+*X% ()$ =-*.,/ ' +*.,?*2,.' 2' ,)*' 1? .)') ; ->)' 6-*' -*0' 12' &) ,.; 2, 0*' 620' 12' 06 .' 1 ',)*' ?6-, -.I' ()*' ?^ D-1. 62' - ,*' =-*.>- D*.' -*0' 0 ; - 25' ,)*' >12.*>-6, 12' 1 C ,)*')1.,' 620',)*' ?D-1. 6/ 620' 122*.*' - ,*.' 0 ; -^ 25',)*' *., +6/ 1 ',)*- ->; ?1 . 12% ()*' -*0' 0-*..' 1 ',)*' >6-0 26/.' .' =-1 *..*0/ ' 2,*20*0' ,1' 9**=' D* 1-*' ,)*?C>12.,62,/ ',)*' /1+*' 620' =6.. 12' 1 ',)*' 6+ 1 ; -% ()*' =1=*' 8*6-.' -*0' 12' 4110' - 06 % ()*' 4-**9' =-*.,' 8*6-'-*0' 1-26?*2,.' 0 ; - 25' ; 2*-6/ .*-+ >*.%

()*' -*0' .=19*2' 1 '6D1+*' .' 6/86 .' .>6-/*,% - ?^ .12' -*0' .' 6==1 2,*0' 1-' >*-,6 2' 06 .' 2' >*-,6 ' ' C , .*.' 1 ' ,)*' 1? .)') ; ->)%

% ? ' -1?' ,.' 626/15 ',1',)*' +*5*,6D/*' & 1-/0' 20 >6,*.' / *' 620')1=*' *.=*> 6// ' 2' ,)*' ; , ; -*' / *' 6-0' 2',)*' >1? 25' 1 ' 1 ; -' 1-0% ()*' =*-=*, ; 6/ 1 ; ,)' 1 ' 625*/.% .' 1 ,*2' 20 >6,*0' D ' =6 2, 25',)*?' 2' 56-^ ?*2,.' 1 '5-**2% ()*' .6 2,. ' 620' *.=*> 6// ' B1)2',)*' +625*/ .,' 8*-*' 1 ,*2' -*=-*.*2,*0' 2' 5-**2' D ' =6 2,^ *-.'620' .>; /=,1-.'M8)1'1 ,*2'>1/1-*0',)* -' 81-9.X% ()*' ,-**' 1 '/ *' 2' 6-60 .*' .' =6 2,*0' 5-**2% 2' 1/0',-6^ 0 , 12')6.' , ',)6,' 6',8 5' 1 ',)*' ,-**' 1 '/ *' 86.',-62.^ =/62,*0' 620' =-10 ; >*0',)*' ,-**' -1?' 8) >)',)*' >-1.' 1 ')- .,' 86.' ?60*6 B1)2',)*' 6=, .,' 620',)*' -^ 5 2' <6- ' 6-*' 1 ,*2' -*=-.*.*2,*0' 2' ?62.' /*.' 1 ' 5-**2% -62>)*.' 1 '> =-*.. ' /6 ; -*/ ' 620' 1,)*-' +*-5-**2.' 6-*' 1 ,*2' =/6>*0' 2',)*' >1 2.' 1-' 1+*-',)*' 5-6+*.' 1 ',)*' 0*60' 6.' *?D/*?.' 1 ',)*')1=*' 2' 6' ; ,; -*/ ()*' 1? .)') ; ->)' 0 -*>,.' ,)*' 8*6-' 5-**2' -1?',)*' = =)62 ' ,1' *L65*. ?6' ; 206 ' 620' -1?',)*' ,) -0' 6 ,*-' 6.,*-',1' 0+*2,% ()*' ?D-1. 62' - ,*' 1-^ 0*-.',)*' >/1,)',)6,'>1+*-.',)*')1.,',1' D*' 5-**2% =^ % N ' .' >12. 0*-*0',)*' >1/1-' 1 '=*2 ,*2>*' 620' .1--18% ()*' 1? .)') ; ->)' 1-0*-.' ,',1' D*' 81-2' 0 ; -^ 25' 6//, ?*.' 1 '=*262>*% 2' =6 2, 25',)' .' >1/1-' .% 1 ,*2' 6==/ *0',1' B1)2',)*' 6=, .,' 8)1' =-*6>)*0' -*^ =*2,62>*' ,1',)*' -5 2' <6- ' 6.',)*' ?1,)*-' 1 '5- * ' 620',1',)*' 625*/.' 8)1'6-*' .*2,',1' >6// 2*2',1' -*=*2,CI' 62>*%

% ; ' .' 1-D 00*2' ' ',)*' 1? .)') ; ->)') ; ' ,' .' .1?*, ?*.' ; .*0' 6.',)*' >1/1-' =*>; / 6-/ ' 6==-1=- 6,*' ,1',)*' -5 2' <6- % ' ; '" .',)*' ; 2 +*-.6/ -*=-*.*2,6, +*' 1 '.1--18' 0*..-; >, 12' 620' 0*6,) ' 620' .' >12. 0*-*0' 12/ '6==-1^ =- 6,*' 12' ?1 ; -2 25' 1>>6. 12.% ' 86.' 6/.1' 6==1 2,*0' 2' 12*' 1 ',)*' /6,*-'-* 1-? .' 1 ',)*' *2*0 >, 2170*-' 1 ' ?129.' 6.',)*' 0-*..' 1 ',)6,' 1-0*-% ()*' .,; 0*2,.' 1 ',)*' ; 2 +*-. , *.' 1 ' L 1-0' 620' 6?D- 05*',)' 8*-*' 5 +*2' ,)*' D/6>9' 5182' &) >)' ,)*' 8*6-' *,% () .' 5182' 86.' 601=,*0' D ',)*' * 1-?*0' ;-:>)' 1 ' 25/620').' ,)*' 0-*..' 1 ' ? 2 .,*-. ' 8)1' 8*-*' 6// .,; 0*2,.' 1 ',)*' ; 2 +*-. , *.' 620',) ; .' .'=6..*0' 1+*-' ,1',)*' -1,*.,62, ' = .>1=6/) ; ->)' 1 ' ?*- >6' 620' ; -,)*-' 56+*' ,)*' >1/1-' 1 ' >/*- >6/ 0-*.' .' 1' 6// -.1,*&,)*-.% ' ' -*; .*-' [B*-SO> M 60*-D1-2 QSNX' < 6-, 52 H >C' ' '& 4 ' " ' + ' M 6- .' QS X' 6/^ ?*-' & 4 ' [' " ' 6 " ' 5 ' ' ' \>.:C " M SSX' B6? *.12' $ ' ' & '& ' ' N ' ._%

1/1. *6.' M 1d1>-*-6H' 1/% ' KT' D ; ' ,)*' =-*=12^ 0*-62>*' 1 ' < % 6 ; ,) 1- ,A' .' 2' 6+1-' 1 ') O (' =

6' 1-?' ; . *0'D ',) *' [62, 2*' 8- ,*-. '620' 8) >)' =*-) 6=.'-*=-*. *2, . ',) *' =-1+ 2> 6/ ? 10*' 1 '=-121 ; 2> 25' ,) *' 26 ? *% 2' >1 2.' 620' 2.>- = , 12. ' \. **' >9) */ ' ! 7 ! ' ' A ' 620' 2' >/6. . >6/ 8 - , *-.' \. **' 6/>9*2% ' # ' + ' N h ' 8*' 20' 1f1M Z(6X% 6' > , ' 1 ')- 5 6' 6>6, 626 ' 2' ,) *' ; ==*-'=6-, ' 1 ' ,) *' D6. 2' 1 ' ,) *' < . *620*-' 12' 12*' 1 ' , .' 6 /; *2, . '26 ? *0' ,) *' >; . ' : *-6=1/ . ' 620' 610 _ *6' 8*-*' 2' , .' ? ? *0 6, *' 2* 5) ^ D1-) 110' M 1/% ' ! + ' N ST' . **' *+% ' ! ' X% 1/1…*' */! 6 . ',) *. *' 1,) *-' , 81' > , *. '-1. *' 2' ?^ =1-, 62>*% ,' 6' /6, *-' 06, *' ,) * ' 8 *-*' 6// 1+*-,) -182 D ' 62' *6-,) _ ; 69*% : *-101, ; . ' M+ ' N X' 620' d *21=) 12' >1& "! ' K ' X' .=*69' 1 ' , ' 6. ' 6' > , ' 1 '>12. 0*-6D/*' >12^ . *_ ; *2>*' M>1?=% / 2 ' + ' KRX% ,-6D1' MLA ' S SX' O*^ .>- D*. ' , ' 6. ' 12/ ' 6' (-1d1-√ 6 ' 21, ' 6' ((1d, >! *. ' */. *^ 8) *-*' M=% QX) *' ?=/ *. ' ,) 6, ' , ') 60' . 1 ? *' ? *->62, /*' ? =1-, 62>*! 620' / 2 ' 2' 6 ; / . ' , ? *' 0*. >- D*. ' , M+ ' X' 6. ' 12*' 1 ' ,) *' '>*/*D*-- ? 6' 1== 06J' 1 ' , . ' 0 . ^ , - >, % 1/1…*' 86. ' . , ; 6, *0' >/1. *' , 1 I ,) *' 5-*6, ' 160' 8) >)' /*0' -1 ? ' =) *. ; . ', 1',) *' ; =) -6, *. % : *2>*' 1 ; -' ? =; /. *' 81 ; /0' D*' , 1' >12>/ ; 0*' ,) 6, ' 6 ; ƒ =6. . *0' ,) . ' 86 ' 620' 1 ; 20*0' 1 -' >12 -? *0' ,) *' 1/1.. 62') ; ->)' 12') . ',) -0' ? . . 126- 'A1 ; -2* 'M >, . ' L+ ' KNT' L L ' X% : *' ? 5), ' 6/. 1') 6+*' *6. /E' + . , *0' 1/1..c>' 0 ; - 25' ,) *' =-1/125*0' . . , 6 ' 6, ' =) *. ; . ' 8) >)' ? 2/*0 6, */ ' 1/^ /18*0% ()*' ? 1. ' >1 ? =*, *2, ' >1 ? ? *2, 6, 1-. ') 18*+*-' 65-*'*' 2',) 29 25',) 6, ' 1/% ' ' =-1+*. ',) 6, ' 6 ; ƒ) 60' 2*+*-' D**2',) *-*' 8) *2',) *' *= . , /*' 86. ' 8 - . , *2' MD ; . ' .** ,) *' $! ' ! ') ! QKN' ' S K . _ %X% **' + $! ()*1C 01-*, . ' 6-5 ; ? *2, ' ,) 6, ') *' ? ; . ') 6+*' + . , *0' 1/1…*' 12' ,) *' A1 ; -2* 'A ; . . ' -* *--*0', 1 ' D*>6 ; . *' . ' .6 XG', 1') 6+*' 512*' ,) -1 ; 5) ' ,) *' 8) 1/*' -*5 12' 1 ') - 5 6 ' ? 6 ' D*' =-1+*0' 6//6> 1 ; . ' -1 ? ' 5*15-6=) >6/ >12. 0*-6, 12. ! 1/1.. e ' ,) 1 ; 5) ' *,) 21/15 >6// ' 2') - 5 6' M : *-10% R' . ' d *2% R' >%X ' 86. ' 6, ' ,) . ' =*- 10' =1/ , >6// ' 2' ,) *' =-1+ 2>*' 1 ' . 6' M. **' '+*% % >%X% ()6, ' ,) *' 6=1. , /*') 1=*0' , 1' + . ' ,) *' =/6>*' 12' D* 25' 0*/ +*-*0' -1?') . ' 1?62' ?=- .12?*2, ' . '>/*6-' -1?') /*?12' KK' M>1?^ =6-*') / ' K X%) /*?12' 620') . /6+*' 2*. ?; . ' 8*-*' 08*//*-. ' 2' 1/1..e% 1' 6/. 1' 8*-*' ->) ==; . ' 620' =6=)-6. % -1?' 1/% ' T' + ' K', ') 6. ' D**2' 26, ^ ; -6// ' >12>/ ; 0*0' ,) 6, ' ,) *' /6, , *-')- ., 62' 86. ' ,) *' 1 ; 20*-' 1 ',) *' 1/1.. 62') ; ->)' M. **' / 1-0 . ' 1' ,1' ? ! ' - ' 'N X% **' > / / ' ! ()*' 81-^ .) =' 1 ' 625*/. ' ? *2, 12*0' D ' ,) *' 6=1../*' M 1/% ' QX >; - 1; . / ' -*6==*6-. ' 2')- ., 62' , ? *. ' 2' >122*>, 12' 8 ,)' 12*' 1 ' ,) *' , 1=15-6=) >6/ *6, ; -*. ' 1 ' ,) *' =/6>*% ' >) ; ->)' 2') 121-' 1 ' ,) *' 6->) 625*/ < >) 6*/ 86. ' *-*>, ^ *0' 6, ' ,) *' *2, -62>*' 1 '6' >) 6. ?' 2' >12. *_ ; *2>*' 1 '6' /*^ 5*20' >122*>, *0' 8 ,)' 62' 2; 206, 12' M : 6-, /* . ' 6 A' " ' ' ? 1' =% KXT' 620' ,) *-*' . ' 5110' -*6. 12' 1-' 0*2, 25',) . ' >) 6. ?' 8 ,) ' 12*' 8) >)' . ' ? *2, 12*0' D ' : *-101, ; . % () . ' 9 20' 1 ' . ; =*-. , , 12' . ' ? *2, 12*0' D ' ( ) *101-*, ' 6 ' . ; D. ., 25' 2') . ' , ? *' 6/. 1' D ' ,) *' E C [62, 2*' 8 - , *-' >*, 6. ') 12 6, *. ' &) 1' 86. ' 6' 26, + *' 1 ' ,) . ' =/6>*' 620' 8) 1' . 6 . ',) 6, ' 1/1.. e' 620') 12e' 8*-*' ,) *' . 6 ? *' > " ! ' =% X% ()*' =-1D6D / , ' . ',) 6, ' ; 2^ 0*-',) *' /6, *-' *? =*-1-. ' MX1/ . . e ' D* 25' 2' 6' -; 21; . ' . , 6, *' ? 60*' 86 ' 1-' 6' ? 1-*' ? 10*? ' , 182 ' " ' Md 8C (M . 1' ()*1=) /6>, % ' ! ' X' . , ; 6, *0' 2*6-' , % ()*' 2* 5) D1-) 110' M+ . , *0' D ' 1>1>9*X' 86. ' *L=/1-*0' D ' < -A -; 20*/ >$ ' " " ' =% QT & ' ' S XT' D ; ' < -% : 6? /, 12' 86. ' ,) *' -. ', 1' 0*, *-? 2*' ,) *' 6>, ; 6/ . , *' 1 ' ,) *' 62> *2, ' > , ' 8) >)' 6==*6-. ', 1' D*' 6, ' . 1? *' / , , /*' 0 . , 62>*' -1?' ,) *' ? 10*-2' + //65*' 1 ') 1C 26. ' >5 " ' '& ' ' ' QX% ()*') ; 5*' -625*' 1 ' < 1 ; 2, ' 60? ; . ' - . *. ' ? ? 70 6, *' EJ D*) 20', ,) *' + /^ /65*' >/1. *' , 1' 8) >)' ,) *-*' . ' 2',) *' ? 1 ; 2, 6 2' 62' ?^ ? *2. *' =*-=*20 >; /6-' >) 6. ? ' 6 1-0 25' 62' 1 ; , /*, ' 1-' 6' 8 0*' ? 1 ; 2, 6 2', 1--*2, % ()*' -; 2. ' 1 ' 62' 1/0' >6. , /_ ' ., 620' 12',) *' . ; ? ? , ' 1 ' ,) *' -1>9' 1-? 25',) *' /* , ' . 0*' 1 ' ,) ' >) 6. ? % ()*-*16-*' .1? *' , -6>*. ' 1 ' -; 2. ' 620' -65? *2, . ' 1 ' . , 12*' 2' ,) *' 2* 5) D1-) 110' D ; ' D6-*/ ' ? 1-*' ,) 62' . ; > *2, ' , 1' 6, , *. ; ,) *' *L . , *2>*' 1 '62' 62^ > *2, ' . , *' M 1>1>9*' 6 ' ' T % >) ; D*-, ' 5 ' ' KQKT' . *>' 5*2*-6// ' : 1 ?622' ! ' ' %! ' ' ! =. % RT *//6- ' 7 ! ' ' K . _ %T < 622*-, ? ' ' K ' . _ %T ? ,) ' ' ' ! ? ! . % %% ' ? ,) '. % % **' ' : > / ' ' ' 3! =/1 . . 12. ' > / ' ' ' ' ,) *' . *+*2,) ' 1 ' ,) *' 6 ; / 2*' *= . . /*. ' ,) *' 8' (*. , ' M. **' 6+ 0.12 . ' V2C ! ' ' " ' 7 ! ' -! ' NR ' . _ X% **' > / ! % & " " %% ' ()6, ' ,) . ' *= . , /*' . ' ,) *' 5*2; 2*' =-1^ 0 ; >, 12' 1 ' ,) *' 6=1. . /*' 6 ; / . ' =-1+*0' D ' ,) *' ? 1. , ' . 6, C . 6>, 1-A ' *+ 0*2>*' 620') 6. ' 2*+*-' 20**0 ' D**2' . *- ^ 1 ; . / ' >6//*0' 2' . ; *. , 12% ()*' *L, *-26/ ' , *. , ? 12 *. ' MB ; . , % <% - %" =% N ' DT' ()*1=) /% ' & ! ' =% ' *O% 1/% SQST -*2e ; . ' # ! ' ' T /*? % /*L% $ U ! ' =% NK T + ' =% QQ ' 6/% ' >O% 1. , *-' T (*-C , ; //% ' ! >) % T ' 5 ' (! >) % KNT - 5*2 ' A' ' '+ ' X' 6-*' *L=/ > , ' 620' ,) *' 2, *-26/ ' 6-5 ; ? *2, . ' 1 ; 20*0' 12',) *' ., /* ' D6/62>*' 1 ' . *2, *2>*. ' =1. , 12. ' 1 ' 60+*-D. ' ; . *. ' 1 ' ,) *' -*/6, +*' =-121 ; 2 ' =6-, > = 6/ 626C 1/ ; ,) 6 ' ; 2 ; . ; 6// ' . , -125' 620' 8*// 0* 2*0% ' ; . ' 21, ' - 5), ' , 1' . ; ==-*. . ' ,) *' 6>, ' ,) 6, ' < 6 *-) 1 '>' ; ' ' ') !1Y O! QNQX 620' 6 ; -' MUX*-' &% ' ' =% X') 6+*' 0*/ D*-6, */ '-*A*>, *0',) . ' *= . , /*' 6. ' >/6 ?^ 25', 1' D*' 6' =-10 ; >, 12' 1 ' ,) *' 6=1. , /*' 6 ; /% ( ) *' -. , ' 1 ' ,) *. *' >- , >. ') 18*+*-') 6. ' D**2' D- * / ' D ; , ' 6. ' , ' 81 ; /0' . **? ' % ' 62. 8*-*0' D ' < * *-' >) ! =% XT' 620', 1',) *' . *>120' 2') . ' . ; DA*>, +*' 620' 62, C) . C , 1- >6/ 6, , *? =', 1' ? 69*' 20 + 0 ; 6/ 8 - , 25. ' 1 ' ,) *' (% ? *-*' ,) *1. 1=) . , >C=-10 ; >, 12. ' 1 ' 6' /6, *-' 421. , ^ > . ? ' ,) *' 2, *// 5*2, ' 620' >- , >6/ -*60*-' 8 // 26, ; -6// ' */0' D ; , ' / , , /*' >-*0*2>*' M. **' 6D 5*-' ' ' " ' *, >% -6, ./% Q KT /1==>-' ' ' 1 ' 6%%0' ' 6% " " ' ' ' 4-E_X) %% / : NX ' , . ' 2^ 0**0' -*?6-96D/*',) 6, ' ,) *' . , -125/ C?6-9*0' =*>; / 6- , ' 1 '. , A /*' ,) *' 2*-+*' 620' 1->*' 1 ' ,) *' 6-5 ; ? *2, . ' 620',) *' 1- 5 26/ , ' ,) 6, ' 6==*6-. ' 2' *+*-A7 =6-65-6=) ' .) 1 ; /0' 21, ') 6+*' ? 60*' D1,) ' ,) *. *' 8 - , *-. ' =6) . *' 2',) *- ' //C >12. 0*-*0' 6, , 6>9' 12', . ' D= . , /*' M. *>' (-*5*//>. ' 2' : 1-2* . ' D * ! 2*8 ' *0 , % +1/% X% % ', . '/*. . '>*-, 6 2 ') 18*+*-' " ' 620' " #' , ' 86. ' >1?=1. *0% ()*' >1? 12' 1= 2 12' . ' .) 6, ' 6 ; / 8-1, *' , 6, ' 1?*' 0 ; - 25') . ' ?=- .12?*2, ' 2',) 6, ' > , ' M >, . ' LL+ ' S' X% -6. ? ; . ' 1//18*0' D ' 1,) *-. ' . ; ==1. *. ' ,) 6, ' =) *. ; . ' 86. ' ,) *' =/6>*' 6, ' 8) >)' , ' 86. ' >1? =1. *0' D ; ' ,) . ' . ; 55*-, 12' .' 1D+ 1 ; ./ ' ; 2, *26D/*' -1?' , ' 2^ >1? =6, D / , ' 8 ,) ' ,) *' 6//; . 12. ' >12, 6 2*0' 2' ,) *' *= . ^ ./*' ,. *' / ' , 17,) *' ..6, *' 1 ' , -1 ; D/*' 620' ?=- .12?*2, ' 2' 8) >)' ,) *' 6=1../*' 86. ' 8) /. , ' >1?=1. 25' , ' M ' K T + ' QX 2' 4*-?62 ' ,) *' 1= 2 12. ' 1 ' ,) *1/15 62. ') 6+*' D**2' 0 + 0*0' 1 ' /6, *' *6-. ' D*, 8**2',) *' >1? 12') ^ =1,) *. . ' 620' 12*' =-1=1. *0' D ' >) ; /[' 2' ,) *' -" ' " ' $ ') + ' 1-' QKR' M=% S K . _ %X ' + [% ') 6, ' ,) . ' *= . , /*' 8 ,) ' ,) 1. *' , 1' ,) *' =) *. 62. ' 620' B $C *?12' 86. ' 8 - . , *2' 0 ; - 25' ,) *' 6=1. , /* . ' M, 81' *6-. X' ?=- .12?*2, ' 6, ' e. 6-*6' =-*+ 1 ; . ' , 1') . ' D* 25' . *2, ' , 1' 1?*% () . ' 1= 2 12') 6. ' D**2' 601=, *0' 620' 0* *20*0' D ' >) 1, , ' 1, , 5*-. ' 620' & 55*-. ' 8) /. , ' ,) 6. ' D**2' 1==1. *0' D ' *620*-' , * 5*-' : 6-/*. . ' ; >9*-, ' -*0C 2*-' 620' 1,) *-. % 2' 6' ? 1-*' -*>*2, ' 2 ; ? D*-' 1 ' ,) *' . 6 ? *' =*- 10 >6/ ') 18*+*-' ,) *' 8) 1/*' _ ; *-, 12') 6. ' D**2' . ; D^ A*>, *0', 1' 6' 2*8' 2+*. , 56, 12' D ' -*! & 55*-. ' 8) 1' >1, *. ' , 1',) *' >12>/ ; . 12',) 6, ' 1' ,) *' 6>, . ' 6D1+*' 6=^ =*6/*0', 1 '212*' >62' D*' -*56-0*0' 6. ' 1-' *, 7 *. ') ^ =1,) *. . ' >$! ' ! ' ! Q '=% NSX% ()*' 6D1+*' 1= 2^ 12',) 6, ' ,) . ' *= . , /*' 620',) 1. *', 1',) *' =) *. 62. ' 620', 1') /*?12' 8*-*' 8 - , , *2' 0 ; - 25',) *' 6=1. , /* . ' ?=- . 12^ ?*2, ' 6, ' .6-*6' M >, . ' LL 'K CLL+ 'NKX') 6. ' D**2' -*C % >*2, / ' 60+1>6, *0' D ' . *+*-6/ 8 - , *-. ' 1 ' 6D / , ' 620' . , 6, *0' 8 ,) ' . ; >)' >15*2>A' 620' >/*6-2*. . ' D ' < * *-' >6 ! ' ! /! 6%" ! =*' . % X' 6. ' 1' 0*. *-+*' .1?*' >12. 0*-6^ , 12% , ' 8 // D*' 1 ; 20') 18*+*-' , 1' -*. , ' 12' 25*2 1 ; . C /7 C ; -5*0' =/6 ; . D / , * . ! 8) *-*6. ' , 1' 51' 21' ; -. ,) *-' 2, 1' B) *' =-*. *2, ' *= . , /*' ,) *' 21, >*. ' 1 ' ,) *' 6=1. , /*. ' ?=- .^ 12?*2, 2' >) 6=' + ' N' '>*-, 6 2/ *.*') , 1- >6// ' 2>12. . , *2, ' 8 ,) ' ,) *' 26, ; -*' 1 ' ,) *' ?=- .12?*2, ' 6, ' e. 6-*6% ()*' =*-? .. 12' 1 ' */ L' M >, . ' 9L + ' KNX' >72' . >6->*/ ' D*' . , -6 2*0' 2, 1' 62 ' 0*7**' 1 ' / D*-, ' , 1' , *6>) ' 1-' =-*6>) ' ,) *' 41. =*/ ' 8) /*' ,) *' 6>, . ' -*>1-0*0' 1 ' 6 ; / . ' ?=- .12?*2, ' 6, ' 1?*' M >, . ' LL+ ' KN ' Q X

6-*' .;> ' 6.' ,1')62 12 [*' 60? -6D/ ' 8 ,)' ,)*' -0*01?' 2' ,) .'-*.=*>,' 8) >)' 1 ;-' =-*. *2,' *= ../*' -*=-*. *2,. ' ,1')6+*' D**2' 6>>1-0*0' D1,)' ,1' ,) *' 6=1. ,/*' 620') .' >1-2I' =62 12.' M.**' >)6=' + ' ' 620' >1 2=% *' ! *,*' 6 f / ' f =% K' NT' f *.*/*-' + '=% K X M ,,1' .% %T ? ,) ' .% +%X% 26// ' ,) *' 1 ;206, 12' 1-' ,) .' 1= 2 12' .' ,69*2' 686 ' D ' ,) *' 6>, ' ,) 6,' ,) *' ?=- .12^ ? *2,' 1 ' 6 ;/ 6,' 6*.6-*6' 86.' 21,' .1'/125' 6.' >1? ? 12/ ' .;==1.*0% **' + $ f ,' .' ?1.,' / 9*/ ' ,) *-.* 1-*' ,) 6,' ,' 86.' 8- .,*2' 0 ;- 25' 6 ;/ .' -.,' ?=- .12? *2,' 6,' 1?*' 1-6D6D/ ' 2' ,) *' .=- 25' 1 ' % % ' 620' 6=^ =6-*2,/ ' .112' 6 ,*-' ,) *' = ../*' ,1' ,) *' =)*. 62. ' 8 ,)' 8) >)' ,' >12,6 2.' 2 ; ? *-1 ; .' 620' ,.- 9 25' >1 2> 0*2>*.% 2' .;==1-,'1 ' ,) .' 06,*' ,) *' 1//18 25' 6>,.' ?6 ' D*' 60^ 0 ;>*0' (?1,) ' 86.' 8 ,)' 6 ;/ 6,' ,) *' ,? *' M>)6=' ' T >1?=%) / ' RXT =6=)-10 ,.;.' M =6=)-6.X)60' /6,*/ ' >1?*' -1?' . 6' < 21-'M ' a RT >1?=%) / ' K T +' QX' 6=0' 86.' 218' 8 ,)' 6 ;/ M +' KXT 6 ;/ 86.' 2' =- .12 ' 620')60' D**2' =-*6>) 25' 2') .' >12 2*?*2,' M +' N' QT .*>' >,.' LL+ ' N ' N XT +6- 1;.' - *20.' 8*-* 6,' ,) .', ? *' 8 ,)') ?' M +' C T ,)*.*')60' ,)*-*^ 1-*')60' , ? *' ,1' 56,)*-' 6D1;,') ? ' 620' ,' 86.' 21,' 6' .* .12' 1 '0625*-XT (>) >;.' M12') .' .*>120' A1;-2* X' 620' 2*. ? ;.'>6-- *0' ,)*' /*,,*-'M +' 'QT' 620' .;D.>- =^ , 12' T >1?=% =)% + 'K T) /*?% KX% -1?',) .' /6.,' > ->;? .,62>*' ' 81;/0' 6==*6-' ,) 6,' ,)*' *= .,/*' >1;/0' -1,')6+*' D**2' 8-,,*2' +*- '*6-/ ' 2') .' ?=- .12?*2,' 6.' ,)*' /*,,*-' ,1') /*?12' M01;D,/*..' 8- ,,*2' 21,' /125' 6 ,*-X .=*69.' >12 0*2,/ '1 '6' .=**0 '-*/*6.*' M.**' 12 C' D*6->' 620' : 18.12 .' ' 6% ' '$ ' ' NQ X%

' ()*' ,- 9 25'. ? /6- , ' D*, 8**2' ? 62 ' =1-, 12.' 1 ' ,) .'*= ../*' 620' 1 ' ,) 6,' ,1' ,) *' =)*. 62.') 6.' 5 +*2' - .*' ,1' ? ;>)' .=*>;/6, 12' D1,/' 6.' ,1' ,) *' -*6.12' 1 ' ,) . ' .,;0^ *0' . ? /6 ' 620' 6.' ,1' ,) *' =- 1- , ' 1 ' 1-0*-' 2' -*C' .=*Z7 ,1' >1?=1. , 12% ()*.*' =1 2,.' >6221,') *-1' D1' 0 .>;..*0' 6,'/*25,) 'D;,' ? ;. ,' D*' .0 ? *8) 6,' D- * / ' 0 .^ ? ..*0' 8 ,)' ,) *' . ?=/*' *L=-*.. 12' 1 ' 62' 1= 2 12' ,) 6,' ,) *' . ? /6-,E' ? 6 ' -*6.126D/ 'D*' 6>>1;2,*0' 1-' M X' D ' ,) *' =-1L ? , ' 2' , ?*' 6,' 8) >)' ,) *' ,81' *= ../*.' 8*-*' 8 - ,,*2' MKX' D ',) *') 5)' =-1D6D / , ' ,) 6,' 2' ,8 1' > , *.' 1 ' . 6 ' 8 ,) 2' 6' ? 10*-6,*' 0 .,62>*' -1= ' 12*' 621,) *-' ,) *-*' 81;/0' D*' ? 62 ' 01>,- 26/ =-*A;0 >*.' 620' ? 62 ' .1> 6/' 5*/6, 12. ',) 6,' 81;/0' >6/' 1-,) ' 620' 2**0' =-*> .*^ / ',) *' .6 ?*' /625;65*' 1 ' 86-2 25' 620' *L) 1-,6, 12% ()*' =+ 1-,E' 2' >1?=1. , 12' ? ;.,' -*?6 2' 6' ? 6,,*-' 1-' 6' -*6.126D/*' 0 *-*2>*' 1 ' 1= 2 12J' M ? ,) X% **' > / ' ' 620' + ' >6% ' 8!

3 %' ' % ' ()*' = ../*' ,1' ,) *' 1/1.. 62.' 86.' 8- ,^ ,*2 ' 6==6-*2,/ ' 2' >12.*_;*2>*' 1 ' 2 1-? 6, 12' -*>* +*0' D ' 6 ;/ ,) -1 ;5)' =6=)-6.' >12>*-2 25' ,) *' 2,*-26/ .,6,*' 1 ',) *-' >) ;->)' M ' SCQX% &) *,) *-' ,) *' 6=1.,/*')60' *+*-') ? .*/ ' D* 1-*' ,) .' , ?*' + . ,*0' 1/1..6A .' ? 6,,*-' 1 ' ;2>*-,6 2, ' 620' 0 .=;,*% -1?' >)6=' ' ' 8)*-*').6 .' ' 81;/0',) 6,' *'92*8' 8 6,'5-*6,' >12^ / >,' ') 6+*' 1-' 12' 620' 1-' ,) *?' 6,' 610 >*6 ' 620' 1-' 6.' ? 62 ' 6.') 6+*' 21,'.**2' ? ' 6>*' 2',) *' /*.) J' *,>%' ,' B 6.' D ' .1?*' D**2' +*- ' >12 0*2,/ ' >12>/;0*0' ,) 6,') *')60' 21,% ,') 6.' D**2' ;-5*0') 18*+*-' ,) 6,' 8)*2 ' 2' +*-% ' ,) *' 6=1.,/*' .6 . ' ,) 1 ;5)' ' 6 ?' 6D.*2,' 2' ,) *' /*.) ' *,' 6 ?' ' 8 ,)' A71;' 2' ,) *' .= - , J' *,>%') .' /62^ 5;65*' .I' .,-125/ ' 20 >6, +*' 1 ') .') 6+ 25' 1-?*-/ ' D**2' 6 ? 125' ,) *' 1/1.. 62.' I' 1-' ,) *' - % ' . ' ; .*0' 1-*' =-1=*-/ ' 12/ ' 1 ' . ;>)' 6D.*2>*' 6.' 6- .*.' -1 ?' ,) *' =*-^ .12 .' " ' ' ' ' ,) *' =/6>*' 1 ' 8) >)') .' 6D^ .*2>*' .'=-*0 >6,*0% 2' .;==1-,' 1 ' ,) *' .6 ?*' + *8') 6+*' D**2' 600;>*0' 6 ;/ .') 6+ 25', 8 >*' + . ,*0' 620' 512*' ,) -1 ;5)') - 5 6' M >,.' L+ 'ST' L+ 'KNX' 2' 8) >)' 1C /1... ' 86.' 6' >) * '> , T) .' 6? / 6-' 6>_;6 2,62>*' 8 ,)' ' ? 62 ' 1 ' ,) *' 1/1.. 62') - . , 62. ' =6=)-6%7' -1) =C' =; . ') /*?12' M8) 1' 86.' 12*' 1 ') .' 182' >12+*-,. ') /% N RX' 620' ==) 6' =-1D6D/ ' ,) *' 8 *' 1 ') /*?12T) .' 6==6-*2,' 6>_;6 2,62>*' 8 ,)' 2*. ? ;. ' ,) *' .6

.6 >'B;06 [*-.' *L) D ,*0'21'=-12*2*..' * ,)*-',1'6'.=*>^ ;/6, +*' 71. .' 1-' ,1' 6.>*, > . ?'' ,)*' 421.., >' 6.>*, >.' 1)' ,)*' 1,)*-')620' 8*-*' ; . ;6// ' 1==1.*0' ,1' 6' - 5 0' >*-*?12 6/ .?% .' .' .1' ?=-1D6D/*')18*+*-',)6, ' 2' 6' . ?6// >1? ? ;2 , '/ 9*',)6,'1' 1/1...*',)-*'* 0 ., ;>,' =6-, *.' .)1;/0')6+*' *L .,*0' ,)6,' 8* 6-*' 0- +*2', 1',)*' >12>/;. 12',)6,',)*' >1--;=,',*20*2> *.' 2' _;*., 12' 0 0' -*6// ' *L .,' 2' >1?D 26, 12' 2' ,)*' .6?*' =*-.12.' 620' ,)*' 0 >;/, ' 8 // =*-)6=.' D*' 6//*+ 6,*0' ' 8*' D*6-' 2' ? 20',)6,' 2',)*' 6=1.,1/>'65*',81'>6/..*.' 1 'B;06 [25' ,*6>)*-. ' *_;6// '1==1.*0',1',)*'. ?=/>,E' 1',)*' 6=1.^ ,1/>' ?*..65*',)1;5)' 2' 0 *-*2,' 86 .'D;. *0',)*?^ .*/+*.' 2' .18 25',6-*.' 6?125',)*' 8)*6,' 2',)*' + . D/*');->)%' .)1'/*I 1,-2*-'>12. .,*0' 1',)*- 5 0' 1-?6/ .,.' >) * / ')6- .**.' 8)1'1>>;=' .1'=-1? 2*2,'6'=/6>*' 2' ,)*').,1- '1',)*' >,.' 620' 2' .*+*-6/' 1' 6;/.' *= .^ ,/*. '620' 8)1'>12,*20*0' 1-',)*' >12, 2;*0' 1D/ 56, 12' 1',)*' /68' 1' <1.*.' ;=12' 4*2, /*' >12+*-,.' ,)*' /6,,*-' 8*-*' .=*>;/6, +*' 60)*-*2,.' 1',)*' /*L620- 62' .>)11/' 8)1.*' =- 2> =/*' ,' 86.',1' .;D1-0 26,*',)*'/*,,*-',1',)*' .= - ,' 1-' -6,)*-',1',-*6,',)*' 1-?*-' 6.' 6' ?*-*' .)*//' 7+) >)' ,)*' 2 , 6,*0' 8*-*' 6,'/ D*-, ' ,1' >6.,' 686 ' 6.' 81-,)/*..' 1-' 2,*20*0' 12/ ' 1-',)*' +;/56-% & ,)',).' 6/.*' .= - ,;6/ .?' 86.' ; .;6// ' >1?D 2*0' 62' */*?*2,' 1 ' - *2,6/',)*1.1=) ' 8 ,)' ..' 01>,- 2*' 1',)*' *..*2,C ,;/'*+/ 1'?6,,*-' 620',)*' 6.>*, >' =-6>, >*./ D ' 8) >)' ,% 86.' .;==1.*0',)6,',)*' .1;/ ' ,1',)*' *?62> =6,*0' -1?',)*' ?6,*- 6/',)-6/01?' ;20*-' 8) >)' ,'6,'=-*.*2,' /6D1-.% (1'625*/1/15 '1-',)*' -6? 25'1 '625*/ >'5*2^ *6/15 *.',)*' B*8.' 2' 5*2*-6/1',)6,'65*'8*-*' 21,1- ^ 1;./ '600 >,*0T 2',)*'=6.,1-6/*=..,/*.'M.**' (?%M ' X' 8*' 656 2' ?**',) .' 0/*' 1-?' 1' .=*>;/6, 12% ()6,' =*-.12.' ?D;*0' 8 ,)',)*.*' +0- 1;.' 21, 12.' .)1;/0' 12' D*>1? 25')- ., 62.' 6,,*?=,' 62' 6?6/56?6, 12' 1' ,)*?' 8 ,)',)*' -' 2*8' 6 ,)' .' D;,' 26,;-6/T' 620',)*' //C' 6..1-,*0';2 12' .**?.',1')6+*' 5 +*2' D -,)',1',)*' 421.^ ,>.?' 1'6' .;D.*_;*2,'65*' 8 ,)' ,' ?12..-1;.',*2*,.' ,)*' =-10;>,' 1' 62' ;2D- 0/*0' 2+65 26, 12% (*6>)*-.' ,)*2' 1'-'=*-)6=.' 6' . 25/*',*6>)*-'M41/% SX' 1',).' >6.,' 1 ,A;06 .?')60' * *>,*0' 62' *2,-62>*' 2,1',)*' 1C /1.. 62');->)' 620' .**?.',1')6+*',)*-*' *L=*- *2>*0' 6' 6+1-6D/*' -*>*=, 12% 2' 6' 4*2, /*' >1?2;2 , '/ 9*,) . ')6- .6 >'B;06 .?'>1;/0'21,'.1'*6. / ')67' 56 2*0' 6' 11, 25T D;',)*' ? L,;-*' 1'? .,>6/ .=*>;/6, 12'620' 6.>*, >' 0 .> =/ 2*' 8) >)' 0 ., 25; .)*0',)*' .*>, 12' 1' ,)*' /*L620- 62' .>)11/ 6//;0*0',1' 86.'A;.,'606=,*0',1' 6,,-6>,',)*' ; (.,6D/*' *.=*> 6// ' 2') 5 6' -1?', ?*' ? ?*?1-6/ ,)*' /620' 1' ? ., >' -,*.' .;>)' 6.' ,/ 1.*' >122*>,*0' 8 ,)',)*' 81-.) =' 1' D*/*' 620' 1' ?65 >6/ .;=*-., 12% -1?' ,) .' >125*2 6/ .1/' 2' 6' .;D.*^ _;*2,' 65*' <12,62 .?' .=-625T 620' 6.' *620*-' -*' ?6-9.' I&% " + 1' ' KX' ,' .' -*?6-96D/*',)6,' 2',)*' ,)' >*2,;- ',)*' 1;2>/1' 610 >*6' 86.' >1?^ =*//*0',1'=-1) D ,'6'.=*> *.' 1'625*/C81-.) =' 8) >)' 6=^ =*6-.',1')6+*' ?6 2,6 2*0' .' 5-1;20' 2',)*.*' -*5 12.' M 62%N X% & *' ?;.,'21,')18*+*-' .;==1.*',)6,',)*.*' ,*20*2> *.'BD60 81-9*0',)*?.*/+*.' 1;' 2,1' 6' 0 ., 2>,' . .,*?'1-')60'D-1;5),' 1-,)',)*' D .,*-'=-6>, >6/ -;,;.' 8) >)' 8*-*',)*-'26,;-6/>12.*.;*2>*'620' 8) >)' 6,'6' /6,*-'=*- 10' 0 ., 25; .)*0',)*')*-*. 6->).' 6//;0*0',1' 2',)*=6.,1-6/*=..,/*.'620',)*' 1//18*-.' 1' *- 2,);% ()*' >1--;=,',*6>) 25' 86.' 6.' *,' 2' ,.' D;0% ()*' 6=1../*',)*-* 1-*'-*>1?? *20.'21')6-.)' ?*6.;-*.' ;>)' 6.'*L>1? ?;2 >6, 12'd)*',-*6,.',)*' >6.*' 6.' 12'*' -6,)*-' 1' 521-62>*' 620' 2*L=*- *2>*T 6.',)6,'1'*-- 25' D;,' . 2>*-*')- ., 62.' 21,'1'6>, +*'1==12*2,.T 620'.**9.' D 5*2,/*' =*-.;6. 12',1' 8 2',)*?' D6>9',1',)*' -' 6//*^ 5 62>*',1')- .,% ' 6 -D6 -2' .%+% *1' & ! % ' 9*',)1'?6A1-,'1' 6;/.'*= .,/*1' .!*M 2' L%%!' QX %% !B' XT')- .1.,1?' # ' M 2' L%%!' 'NSQXT' U; 25/*' & " ' M & ,,*2D% R' ,1XT' U62C *D ;. ' ' M 2' L%%!' + XT' <;.>;/;. ' IA' ' M 6. /% S Q' R' 1/%XT' -*, ;. ' ' M<1-5' Q,' +1XT' />+ 62 .' D,1'M4*2% Q' f 1XT' 4- 2.*;.'6 % ' M 6. /% Q' +1XT' 1//1>9' -' M 0 2D% S' +1T' 4*2*+% S KXT' 6/.1' 9 ' M 120%/S N ,%1XT' 6-,8-5),' M 160%

1;,'>*6. 25',)6,',)* ' ?6 'D*' -; , ;/ 2' 5110' 81-9.' 620' *.=*> 6// ',)620' ;/ ,1',)*' 6,)*-'8)1'56+*',)*?' 62' 2)*- ,62>*' 8 ,)') .' .6 2,.' 620' ,-62./6,*0',)*?' 2,1',)*' 9 2501?' 1') .' 12T" '$ ' " ' ' ' " ' ' ? ',)*' -.,CD1?' D* 1-*' *+*- '>-*6,;-*',)*' '1'6//',) 25.' *6-,)/ '620')*6+*2/ ',)*' :*60' 1',)*');->)' : *' 2' 8)1?' 6//',) 25.' .;D. .,' 620' D' 8)1?' 6// ,) 25.' .)6+*' D**2' ->12> /*0',1',)*' *,*-26/ 6,)*-'M ' RCK X% () .' -*>12> / 6, 12' ,)*' 6=1../*' -*^ ? 20.',)*?' 86.'*L*?=0' 0' 2',)*-'18 2'>6.*.'T .)*' 8*-*' 12>*' 6/ *26,*0' D ;,' 218' .1' -*>12> /*0' 6.' ,1' D*' =-*.*2,*0')1/ '620' D/6?*/*..' D* 1-*' 410' '12/ ',)*' >12, 2;*0' -?' 2',)*' 6 ,) '620' 8*-*' 21,' ?1+*0' -1?' ,)*')1=*' 1' 8) >)',)*' 41.=*/' 86.',)1' .1;->*' 620' 1-^ 5 2' M ' K CK X% ',) .' 41.=*/',)*' 6=1../*' 0*>/6-*.') ?.*/',)*' ?2.,*-T',)*' ? .,*-.' 1' .6/+6, 12' 86.' ,)6,' 1-' 8) >)')*' ,1 /*0' 620' 1-' 8) >)')*' .; *-*0' M ' K CKRX% 1-%81-*' .' .; *- 25.' 12/ ' 1-',)*') ;->)' 6,'/6-5*' D;,' 6/.1' 1-',)*?' 620' 1,)*-.' 8)1?')*')60' 21,'=*-.126// ' + . ,*0' *+*2',)6,',)*' ' ? 5),'>1?*',1' ,)*' ' " " ' ' " '620' ? 5),'21,' 6// + >, ?.' ,1'=/6;. D/*' .1=) .,- *.T ,)*' 8*-*',1'86/9' 2')- .,' 620',1'D*' D; /,' 12') ?' M ' C X% : *-*',)*' 6=1%../*' D- 25.' 2',)*' =6-, >;/6-',)*?*' 1',)1' *= ../*% .=*^ > 6// '8*-*',)*' 1/1.. 62.',1'D*'>6-* ;/ ,)6,'21'=) /1.^ 1=) '86.',1'/*60',)*?' -1?' : ?' 2' 8)1?' 08*/,'6// ,)*' ;/2*..' 1',)1' 410)*60'8)1'86.' " ' # ' ' ' % ' % '620' 8)1')60' _;>9*2*0',)*?' 1-^ 5 +*2',)*?' 620' 2' .' 0*6,)')60',- ;?=)*0' 1+*-' 6// ,)*')1..,.' 1 ' 06-92*..' M ' ' X% ;-*/' 8 ,)' .:= - ,;6/=- + /*5*.',)*' 8*-*' 21,',1'D*'A;05*0' 2',)*?6,,*-' 1' ?*-*' >*-*?12 6/ 1D.*-+62>*.' 1-' D*5; /*0' 2,1'>-*6,;-*C81-.) =% " ' ' " ' " ' ' " ' ' :' ',)*' 8*-*',-;/ ';2 ,*0',1') ?' 8)6,'2**0'86.',)*-*' 1'D10 / '6;,*- ,*.'H M ' SCKN%X 2',)*'/6,,*-')6/ 1',)*'*/= ../*',)*'6=1../*'*2 7*.' ,)*' =-6>, =6/ 0;,*.I' /18 25' -1?',)*'.*' ,-;,).%)1' 1/1.. 62.'8*-*',)*2',1'2 20',) 25.'6D1+*' .A7 -.;6/ ,)) 25.' 21,'>6-26/1-0 262>*.' 1-',)*' -/ *' 86.') 00*2' "' +('M ' C Xa',)*' 8*-*',1'?1-, ',)*-'?*?^ D*-.'620%,)*' *+ /=- 2> =/*.' 2' 8) >)',)*' 12>*' 86/9^ *0'T ,)*' 1/0' ?62' 86.',1'D*' =;,' 1 '620',)*' 2*8' ?62' =;,' 12' 2' 8) >)' 6// 6-*' 12*' ' "'M ' C KX% ;-^ ,)*-?1-*',)*' 8*-*',1' 5 +*')**0',1' .=*> 6/ 0;, *.T ,)*' 8*-*',1'D*' 1-5 + 25' 620' /1+ 25'6.' 86.')- .,% 2',)1'>12.> 1;.2*..'1') .' 6D 0 25' 81-0' 8*-*',)*' ',1' . 25T 2') .' 26?*' 8*-*',)629 ;/ M ' NC' X% & +*.'620') ;.D620.') /0-*2' 620' =6-*2,.' 8*-*' 6//,1'=*- 1-?',)*-'0;, *.T *-7 62,.' 8*-*',1'D*' 6 ,)^ ;/'?6.,*-.',1'D*'A;.,'M ' QC +' X% 2',)*'/6.,')6=,*-',)*'6=1./*' 5 +*.' ;-,)*-'>*=,. '.,- 9 25/ '. ? /6-',1',)1.*' 5 +*2',1') .' =)*^ . 62'>12+*-,.% ()*' 8*-*',1'=-6 '1-',)*'1=1../*'620' 1-') .' .;>>*..' 2'=-*6>) 25',)*' 41.=*/T ,)*' 8*-*',1' 86/9'> ->;?2.=*>,/ '620',1'D*' -*60 ',1'5 +*' 6' -*6.12^ 6D/*' 62. 8*-',1'6// 8)1' _;*., 12*0',)*?' M +' KC X% (>) >;,',)*'D*6-*-'1',)*'/*,,*-'620' 2*. ?;.'81;/0' ,*// ,)*?' 6// ,)*' .,6,*' 1',)*' 6=1../*' M +' CRXa' -.^ ,6->);.' 620' 1,)*-.' .*2,',)*?' -*20/ '5-**, 25.' M +' C X% & ,)'62' 2A;2>, 12',1' 2,*->)625*',) .'/*,,*-' 8 ,)',)6,'.*2,',1',)*' 2* 5)D1- 25'>);->)' 1' 610 >*6' M +' 4X' 6' .=*> 6/ ?*..65*',1' ->) ==;.' M +7 X' 620' 62' 6;,15-6=)' .6/;,6, 12',) .' .)1-',);,'.,- 9 25'*= ../*' >1?*.',1',.' >/1.*% ' ? ,)' .% +% **' > / ! % ' ()*' 1//18 25' 6-*' *L=-*../ '12' ,) .' = .,/*' M 2>/;0 25' 2' .1?*' 2.,62>*.' 12*' 1-' ?1-*' ',)*' 1,)*-' /H6;/ 2*' /*,,*-.X',)*' ?1.,' ?=1-,62,' D* 25' 6*. 526,*0' D '62' 6.,*-.9' M I X' =-* L*0d B*-1?*' D?C

S K' ,1X¶ I */0'6 % 'M 120% S ' 1/%¶ 6/.1' SK ' S RX¶ /,12'6 % 'M 1;0% S ' ,1¶ SK ' S+/' 1/%X¶ #; -1.' 'M 2' ' % 1' ;50%I N% SKNX¶ -*// ;.'O1 'M 2' ,%%' ' SKNX¶ 1>C >* ;.' '6%' ' f M 2' ,%%f L 'K NX¶ /, 25'& 9 'M 2' ,%%f +X¶ I 6+*262,'6 % 'M 62,6D% SK ' 1/%¶ 6/.1' SN SNR' 1/%¶ 4*2*+% S ' ,1¶ 2' 25^ /.)' 12012' QN ' K' +1/.% Q+1X¶ E)!E Y'6 % (2 ' M -;2.8% S ' ,1X¶ 6 //S'$ 'M 2' -*2>)' 4*2% SSK'KO¶ *O¶N'+1/.7 Q+1¶ 2' 25/.)' 120% S K' 1/%X¶ 620'6 % 1 'M 120% Q 'Q+1X¶ *-5;..12' 1' 'M 1-0% S Q'Q+1X¶ <6-,2'(& 'M 2' ,%%f +' NQRX¶ !7 ;,-* 2 *,>%'M ?.,% SR ,1¶ 2' 4*-?62' -629 1-,' SRS' ,1X¶ >)?07' ' M:6?D% SR ' ,1¶ 6/.1' X¶ ;>*-' ' M(5;-' SRR' ,1X¶ ,-*.1' & 1'M -%.,% Q' Q+1X¶ 4/*>)' + 'M -*.0*2' ,1X¶ ;,9*2' 'M46-0*/% Q' N ' ,1X¶ :6[*+1*,' N =' " 'M ;50% % K ' ,1X¶ 62' (/' ' M ?,% KS' ,1X¶ 1*//'6 'M(-6A N ' ,1X¶ *->*' %" 'M 12012' NN ,1X¶ 12 25',% =' 'M % % NR' ,1X¶ ,1--' % 'M 2')., % !'& ' ' K CK X¶ 1 .*2'6 + 'M#;*O/D% SSC Q X¶ B12*.' *-.12'M 12012' QK K?1X¶ B;2^ 9*-' 'M<622)* ?' QKQ Q+1X¶ 1)?*-'&' "A' 'MQ+1' *-/% QKR¶ -*./6;' QN X¶ /6,,'6 ' *O%D ' /25'M(D% QKR'Q+1X¶ I 6)-' 'M 6^ .*/' QNN'Q+1X¶ &6,.S2'' 'M 120% QN ' Q+1¶ 6/.1' QNQX¶ ,* 5*-'2 f =6 f M -/625% QN ' Q+1X¶ >)/* *-?6>)*-' 'M *-/2' QN 'K' +1/.% Q+1X¶ 625*'# 2 'M 6-?*2' QNRX¶ *>9*-';' 1' M:6?D% Q Q Q+1X¶ :;,)*-' 'M:6?D% Q 'K' +1/.% Q+1X¶ I *' &*,,*'6 + 'M =[% Q N' Q 'Q+1X¶ & /.12' 'M 12012' Q 'Q+1¶ 6/.1' Q SX¶ 6;?56-,*2C -;.;.' 'MB*26' Q ' Q+_B¶ <* *-'# "'M41,% Q Q Q+1'=,% LX¶ 6)C /*-'& 'M ./*D% Q N'Q+1X¶ .= 25'6 + ' M<;2.,% Q 'Q+1X¶ I 60*' 'M4/6.5' Q S' Q+1X¶ 6/?*-' & 'M41,)6' Q Q' Q+1X¶ I //C' >1,/7 'M 12012' Q Q QS 'Q+1¶ 201+*-' QS 'Q+1X¶ 4 .D1-2*'6 % 'M 120% QS K?1X¶ <*..?*-'6 + 'M -L*2' QSN'Q+1X¶ 6..6+62,' & 'M 6.*/' QS ' Q+1X¶ I /**9' N ' M *-/2' QS 'Q+1X% **' #!

1/,'M=-1=% (1'6' 1;25'6..'B 05% L' I' L ' I' B1D' L ' KI' *>)% L' RI' 7 ' <6,,' LL ' K' *,>%X' .=19*2'1',)0' 1;25'1',)*')1-.*'6..'1-'>6?^ */% **' !

1/,12' ' % %'86.'D1?' 2' 125?*6018' <6..%'620'5-60;6,*0'6,' 6/*' 1//*5*' 2' Q K% :*' .,;0*0'0+2,'6,' 201+*-'620'86.'1-06 2*0'6' -*.^ D ,*-62'>/*-5 ?62' 2' Q '8)*2')*' .*.,/*0'6,' 6^ ,6+6' % %'8)*-*')*' =-*6>)*0';2,/ QKS'6,'8)>)' ,?*')*/1.,') .'+1>*'620',)*2>* 1-,)'0*+1,*0') .',?*' ,1'8-,25'1-'=*-10>6/.% :*',-6+*//*0'2' ;-1=*' 1-' .*+*-6/ *6-.'-*,;-2 25',1' *8' 1-9'2' QN '8)*2')*' ,119'1-0*-.'2',)*' -1,*.,62,' =.>1=6/);->)% ,*-',) .')*',;-2*0') .'6,,*2,12',1'=1/,>6/.;DA*>,.' 620' -1?' QNQ',1' Q K' 8-1,*' ?62'=6?=)/*,,% :*')*/0' 1-'.1?*' *6-.' D* 1-*') .'0*6,)',)*' >)6-'1' 1^ /,>6/ >121?' 2'(-2,' 1//*5*' :6-,1-0% ?125') .',)*1/15>6/8-,25.'6-*'-" '? ' ' ' " ' " ' 6% % ' " "' ' " ' 2 '$ ' M K?1X¶ -" '5 '$ ' '" ' 'IN 8f :*' 0*0'6,' 6+6226)'<6->)'K Q %

1/;?D6'86.',)*' -.','1',)*'2;?*-1;.' -.)'?.^ .126-*.'1',)*'.L,)'620'.*+*2,)'>*2,;-*.% :*'86.' D1?'6D1;,' % % K ' 2' 12*56/' -*/620'1',)*'-1 6/ 6?/% :.'-*6/26?*'86.' 1/;?'D;,' -1?')./01+*C /9*6==*6-62>*' 2' >) /0)110',' 86.' 6, 2 [*0',1' 1^ /;?D6'M01+*X% ?125') .'182' >1;2,-?*2')*'86.' >6//*0' ' 2 1' 1-' + 1' 1/;?' 1',)*');->)% :.'?1,)*-' ,)*26'86.'1',)*'-1 6/)1;.*' 1' *2.,*-' *1-*' 1/;?D6'86?*2,'6D-160'12') .'?.^ .12')*')60',-6+*//*0'1+*-' *2.,*-' 1226;5),'<*6,)

620'1,)*-'=6-,.'=-*6>)25'620'>6//25';=12'I6/' ?^ ?*0 6,*/',1'-*=*2,'620'D*/*+*' 2')-.,% ()*' *2^ *-6D/*' *0*' I6 '# f'/D% X'.6 .'' * 1-*' 1/;?' >6?*' 2,1' 1-,)' -,6 2')*' 1;20*0'6'21D/*' ?126.^ ,*-' 2' -*/620'8)>)'7' 2',)*'/625;65*' 1',)*' >1,.' \ -.)h' 86.'>6//*0' 6-?6>)',)6,'.',)*' `*/0'1' 69.%'J' ->)D.)1='$.)*-'8)1'.,;0*0',)*'/*' 1' ,).'.6 2,'>6-* ;// '.6 .' ,)6,'0-*>,/E7 1-' 20-*>,^ /' 1/;?D6'1;20*0'2*6-/ '12*');20-*0'?126.,*-*.' 2' -*/620%J ()*'D.)1='?6 ')6+*'?*62,'.?=/')-.,62'.>)11/.'1-'/9*').'=-*' ,% 6,-9' 8)*-*+*-')*')60'D;/,'6')>);->)')*' 1;20*0'6'.>)11/% &,)',),)*.*'*6-/ '-.)')-.,6=.'-*/5 12'620'/*6-2^ 25'8*-*',8 2'..,*-.% ;,' 1/;?D6' 'D*,,*-'92182' 2')6,1-A'6.' ()*' =1-,/*' 1',)*' *,.'1-',)*'&*.,^ *-2' ./*.%J' 6..25'1+*-'12'6'-*/5 1;.'+.,',1',)*' -.)' >1/12' 2' /D 2' 1-' 1-,)' -,6 2',)*')*^ ,6 2.'1'8)>)'8*-*' .'182'-*/6,+*.'1-',)*' -., ,?*')*'86.'D-1;5),' 2,1'>12,6>,'8,)',)*' *,.' 8)1'8*-*',)*2'=6562.'-1?',)6,'?1?*2,'/*' -*^ .1/+*0',1'0*+1,*')./*' *',1',)*' -'*+625*/[6,12% 1-',).':=;-=1.*'6D1;,' % % SN' 1/;?D6'1-?*0'6'>1?^ =62'1',8*/+*'620'*?D6-9*0'1-' -;0.'./620'.,;^ 6,*0'8*.,'1'<;//'2',)*' =1;2,-A7'6,*-86-0.'>6//*0' >1,/620% :*-*')*' 1;20*0',)*'?126..*-E'1-'?1-*' =-1=*-/ ',)*'5-*6,',)*1/15>6/.>)11/92182'12',)*' 12, 2*2,'0;-25')*' 6 9' 5*.'6.')*'&*.,*-2' ,6-'1'/,*-6,;-*'620'-*/5 12IJ' ,.'51+*-2?*2,'86.' 8)1// '8,)2'..*/''=-*.D .*-'>2'620'-*=;D/>62',)*' 6DD1,'1-')*60'2+6-6D/',1'D*'6'=-*.D ,*-'6-0',1'D*' >)1.*2'12/'D',)*'2?6,*.% :6+25'D;/,')./);,.' 620'/*,',.1?*'1'D.'?*2',1',/',)*'5-1;20'1-',)*'-' .;=ndX-,'8,)'6'*8'6,,*2062,.')*'.*,'1;',1'==*6>)',1' ,)*' *,.'620',)*':5)/620*-.'12',)*'21-,)'.07'1',)*' -6-?=62' 625*% ' --,)1'86.'.,*-2/'-*..,*0'D' ,)*')*)*,6,2'620'D.' -;0>'=-*.% ,'/6.,')18^ *+*-.',)*'9 25' 21,'12/''*?D-6>*0')-.,62,'D;, D*>6?*'6>,+*'2'.=-*60 25',' 6?125') .'=*1=/*% 1C' /;?D6'620') .'>1?=62 12.'6,*-86-0.'.*,.6/1-',)*' &*.,*-2'620' -92*' ./620.'620'1;20*0'.*+*-6/ >);->)*.'620'.>)11/.';=12',)*?% :6+25',);.'*.^ ,6D/.)*0') .'?..12'D* 120',)*'4-6?=62':/.')*' -*,;-2*0',1'126'620' /D 2% 1-'.*+*-6/*6-.')' */0'1'/6D1-'86.'+*-'/6-5*'*L,*20 25' -1?',)*' &*.,*-2'./620.',1',)*' 18/620' *,.',1',)*' -.)'>1/^ 12''2' -5E/*.)-*',1',)*' 25/>C 6L12.'2' 1-,);?^ D*-/620'620'1>>6.126//',1' -*/620% /,)1;5)'2*+^ *-'*=.>1=6//'1-06 2*0')*',);.'D*>6?*',)*'5-*6,*.,' ?..126-'D.)1='1')..'06 % :.'/6.,'+.,,1' -*/620' 86.'12*'1'=*6>*',1'60A;.,'6'=1/,>6/0 /(*-*2>* D*^ ,8**2',81'=-2>*.% 2'-*6>)25'126',)*' ./*'1').')*6-,J'6.')*';.;6// '>6//*0',')*'86.'+*-'**D/*% 20 25',)6,')*'86.'0-68 25'2*6-',)*'>/1.*'1'/*')*'86.',69*2',1'6'/,,/*'*?2*2>*'-1?'8)>)'.)*'>1;/0' .**',)*')1/'.*,,/*?*2,'620'-1?'8)>)'*'2+19*0' 410.'D/*..25';=12',% :6+25'-*,;-2*0')*'D*562').'6+1-,*'*?=/1?*2,'1',-62.>-D 25',)*' >-=^ ;-*.% ()6,'25),'D*25'/*0',1',)*'6/,9-')*'*//12').'92**.'620'D*562',1'=-6 I .112')18*+*-')*'86.' 0.>1+*-*0'/*62 25'656 2.,',)*'-6/25'2'6'0 25'.,6,*% ()*'D-1,)*-)110'218'56,)*-25'6-1;20')?'8,)',)*-' /5),*0',1->)*.'D*562',1'8**=' 620',1'>-6+*')./6.,' D/*..25% *>1+*-25'1-'6'?

81-9', //' ,)* ')60' ,)629*0' 4_0' ,)*' 5 +*-' 1 ' D-*60‰ : .' *6-/ ' D 15-6=)*-.' .6 ' ,)6,')*' 86.' 6' =18*- ;/ =-*6>)*-' .=*69 25',)*' - .)'620' 6, 2' 8 ,)'*_;6/*6.*' 620' D1,)' 8 ,)' 5-*6,' /;*2> ‰ : .' +1 >*' 86.' ,*20*-' ,-*?;/1;..' ?;. >6/'620'.; > *2,/ '.,-125',1' D*')*6-0' 6,' 6' 5-*6,' 0 .,62>*‰ : .' .1;/ 86.' 2') .' =-*6>) 25' 620' 86.' >12.,62,/ ' ?62 *., 25' ,.*/ ',)-1;5)') .' 81-0.',12*.' 620' 5*.,;-*.‰ : *' &6.' 6' ?62' 1' 5-*6,' =-6A7*-' ,)*' .= - ,' 1 '0*+1, 12' .**?*0',1')6+*' D**2',)*' ,?1.=)*-*' 2' 8) >)') *' / +*0‰ ')*' *2,*-*0' 6' D16,' ?1;2,*0' 6')1-.*' 60? 2 .,*-*0' ?0 > 2*' 1-' =6-,*0' 8 ,)' 6' - *20' 2' 6//',)*.*')*' 6>9218/*05*0' 410 `620' 6.9*0') .' =-1,*>, 12‰ : *' 86.' 21,' 6' 1?62 ., ' 1^ ?62 .?' =-1=*-')60'21,'-*6>)*0' -*/620' 2') .' 06 ‰ : *' *2A1 2*0'12'6//') .'0 .> =/*.',1'-*>* +*' 21,) 25'6.'-*/ 5^ 1;.',-;,)',)6,' 86.'21,'.;.,6 2*0' D ' =-11 '0-682' -1?' ,)*' : 1/ ' >- =,;-*.' I ' ' $ % ;' ‡ 8! ' 06?262' D ' ' .' *0*' 6 !'# ' ' 'Ť /7 11-*' # ' ' ' 1 ,*2Ť # !' # ' ' 6 ' 'K Ť < 12,6/*?D*-,' ' ' '" ' ' +1 ' HŤ (100'& ' "' " ":' ? ,) '5 N (' '& 9 ' ; ' ='‰K S Ť <> *6-' + ' ' ' ' " ' ' '& ' 120‰ QS7Ť '5 !'B62‰ QS '=‰ ‰

1/;?D6;2.'6'?..126-'1',)*' .L,)'>*2,;-' 86.' D1-2' 2' * 2.,*-' -*/620' 6D1;,' ‰ ‰ S ' 620' 0*.>*20*0' -1?' 6' 21D/*' 6? / '1',)6,' =-1+ 2>*‰ 2' *6-/ ' / *' -1?',6/*2,.' =1. , 12' 620' =-1=*-, ' ,)*' 81-/0' 1=*2*0',1') ?' 8 ,)' ;2;.;6/ 6,,-6>, 12.'D;,')*' 0*> 0*0',1'*2,*-',)*' ?126.,*-A'1' 62>)1-' 2' $/.,*-' ,)*2'5 + 25' 2.,-;>, 12',1'6D1;,'12*',)1;.620'.,;0*2,.‰ : 6+ 25' 1-?*0'6'>1?=62 '1'? .. 126-*.' 1/;?D62;.' .*,'1;,' 1-' -62>*'620'.*,,/*0'6,',)*' 11,'1',)*' 1.5*.' <1;2,6 2.'6?125',)*' 8 /0*.,' =11-*.,' 620' ?1.',;2^ > + /[*0'1'6//',)*' -629.‰ : *-1')*'D;/,'),;,.‰ 06 / '-1;, 2*'1',)*' -6,*-2 , '86.' 2',)* -'>6D 2.'-*60^ 25'=-6 25'620',-62.>- D 25',)*' >- =,;-*.'620' 1,)^ *-'D119.Ť 2',)*' */0'>;/, +6, 25',)*' 5-1;20' 1-',)*' .;.,*262>*' 620',1'5 +*',1',)*' =11-Ť 620' 8)*2' 6D-160' + . , 25',)*' =*1=/*'620' 2+ , 25',)*?',1')*6-',)*' 41.^ =*/‰ ()*.*',6D/.)?*2,'6/,)1;5)'5*2*-6// ' >6//*0' 6' ?126.,*- '86.' 6-' ?1-*' / 9*' 12*' 1' 1;-' ?10*-2' ? .. 126-'.,6, 12.‰ ,*-' 6' *8' *6-. 621,)*-' 86.' >1?*?>6?0' 6,' 12,6 2*. ' ()*' =- 25.J ' 8) >)' .112'D*>6?*' 6'=/6>*' 1 '5*2*-6/-*.1-,'620' 8) >)'5-*6,^ / '*2/6-5*0',)* -'.=)*-*' 1 ';.* ;/2*..‰ 2',)*.*'=/6>*.' ,)* ' >12, 2;*0' 1-' 6D1;,',8*2, ' *6-.' *L*-, 25',)*' ?1.,'D*2 52' 2 ;*2>*' 12'6//',)*' .;--1;20 25'>1;2,-Ť 620',)-1;5)',)*' +7 +*.' 620'06;5),*-.'1',)*' .*? ©D6-^ D6-1;.' >) * ,6 2.')-., 62 [25' ,.' =1/ ,>6/ 2.,,;^ , 12.‰ ()*' >1? ?12'=*1=/*')60' 1//18*0',)*.*' ? .^ . 126-*.'5/60/ Ť D;',)*' 9**2'-*D;9*.'1' 1/;?D62;.')60'/125'>)6 *0',)*' ?1.,'1',)*' -;/ 25'>/6..*.‰ ,'6' -1 6/ *., +6/ 6' 5/6..' 1' 8 2*' 86.' =-*.*2,*0',1') ?' 8) >)') *' 06.)*0'12',)*' /11-'D*>6;.*' ,')60' D*'*2'=1/^ /;,*0'D',)*',1;>)'1 '62'60;/,*-*-I'J'M4108 2.'& ? / '=‰NNQX‰ ,'621,)*-', ?*' 1;-' //*5 , ?6,*>) /^ 0-*2'1' ()*;0*- 9' 1-' ( ) *-- ',)*' 9 25' 8*-*' =/6>*0' D* 1-*') ?',1©-*>* +*') .' D/*.. 25'&) >)')*' -* ;.*0' 620'=-121;2>*0',)*?',1'D*',)*'1 .=- 25'1'. 2‰ $=12' ,) .',)*' 6?1;.' -;2*) /06' +18*0') .' 0*..-;>, 12‰ &)*2',)*' .1/0 *-.'>6?*',1'0 .=*-.*') .' *.,6D/ .)?*2, ')*' ?126.,*-A!' 86.!' D-19*2';=‰ ()*D-1,)*-)110'218'-6// *0'6-1;20') ?' 620'8*-*'8 // 25',1'0*'8 ,)') ?!Ť D;,')*'60+ .*0',)*?' ,1'51',1'4*-?62 ‰

1/;?D62;.' 8*2,' ,1' ,6/ ' 8)*-*' 2*8' ,-1;D/*.' 686,*0') ?‰ :1/0 25'8 ,)',)*' - .)');->)' 2'-*56-0' ,1',)*' ()-***)6=,*-.'M_‰ +‰X'620',)*', ?*' 1'9**= 25' 6.,*-'M_‰ +‰X')*'/*6-2*0',)6,',)*' 1?62');->)')60' >120*?2*0',)*.*' + *8.' ;20*-' .*+-*' =*26/,*.‰ : *' 1;20')18*+*-'6'=-1,*>,1-' 2' ()*101/206',)*'=1.;.' _;**2'1',)*' 1?D6-0.'8)1'65-**0'8 ,)') ?'6D1;,',)*' ()-**')6=,*-.‰ : *')60'*+*- 8)*-*'6+18*0') .'=- 2^ > =/*.'620'*+*2'600-*..*0'6'/*,,*-',1'=1=*' 12 6>*'2' 8) >)')*' >)6-5*0') ?'620',)*' 4*2*-6/ 1;2>/' 8 ,)' 0*=6-, 25' -1?',)*' 6 ,)'1',)*'6=1./*.‰ : *'-*? 20^ *0') ?',)6,'2' 1?*'620',6/ ',)*-*')60'D**2'?62 ' 0 .=:,*.'620'0 ..*2. 12.'8)/*' 2'-*/620' ,)*-*'2*+*-' 0 ;.' .*6>)*-' .=*69 25',)*' - .)'620' 6, 2' 8 ,)'*_;6/*6.*' 620' D1,)' 8 ,)' 5-*6,' /;*2> ‰ : .' +1 >*' 86.' ,*20*-' ,-*?;/1;..' ?;. >6/'620'.; > *2,/ '.,-125',1' D*')*6-0' 6,' 6' 5-*6,' 0 .,62>*‰ : .' .1;/ 86.' 2') .' =-*6>) 25' 620' 86.' >12.,62,/ ' ?62 *., 25' ,.*/ ',)-1;5)') .' 81-0.',12*.' 620' 5*.,;-*.‰ : *' &6.' 6' ?62' 1' 5-*6,' =-6A7*-' ,)*' .= - ,' 1 '0*+1, 12' .**?*0',1')6+*' D**2',)*' ,?1.=)*-*' 2' 8) >)') *' / +*0‰ ')*' *2,*-*0' 6' D16,' ?1;2,*0' 6' 21D/*' 6? / '1',)6,' =-1+ 2>*‰ 2' *6-/ ' / *' -1?',6/*2,.' =1. , 12' 620' =-1=*-, ' ,)*' 81-/0' 1=*2*0',1') ?' 8 ,)' ;2;.;6/ 6,,-6>, 12. 'D;,')*' 0*> 0*0',1'*2,*-',)*' ?126.,*-A'1' 62>)1-' 2' $/.,*-' ,)*2'5 + 25' 2.,-;>, 12',1'6D1;,'12*',)1;.620'.,;0*2,.‰ : 6+ 25' 1-?*0'6'>1?=62 '1'? .. 126-*.' 1/;?D62;.' .*,'1;,' 1-' -62>*'620'.*,,/*0'6,',)*' 11,'1',)*' 1.5*.' <1;2,6 2.'6?125',)*' 8 /0*.,' =11-*.,' 620' ?1.',;2^ > + /[*0'1'6//',)*' -629.‰ : *-1')*'D;/,'),;,.‰ 06 / '-1;, 2*'1',)*' -6,*-2 , '86.' 2',)*' -'>6D 2.'-*60^ 25'=-6 25'620',-62.>- D 25',)*' >- =,;-*.'620' 1,)^ *-'D119.Ť 2',)*' */0'>;/, +6, 25',)*' 5-1;20' 1-',)*' .;.,*262>*' 620',1'5 +*',1',)*' =11-Ť 620' 8)*2' 6D-160' + . , 25',)*' =*1=/*'620' 2+ , 25',)*?',1')*6-',)*' 41.^ =*/‰ ()*.*',6D/.)?*2,'6/,)1;5)'5*2*-6// ' >6//*0' 6' ?126.,*- '86.' 6-' ?1-*' / 9*' 12*' 1' 1;-' ?10*-2' ? .. 126-'.,6, 12.‰ ,*-' 6' *8' *6-. 621,)*-' 86.' >1?*?>6?0' 6,' 12,6 2*. ' ()*' =- 25.J ' 8) >)' .112'D*>6?*' 6'=/6>*' 1 '5*2*-6/-*.1-,'620' 8) >)'5-*6,^ / '*2/6-5*0',)* -'.=)*-*' 1 ';.* ;/2*..‰ 2',)*.*'=/6>*.' ,)* ' >12, 2;*0' 1-' 6D1;,',8*2, ' *6-.' *L*-, 25',)*' ?1.,'D*2 52' 2 ;*2>*' 12'6//',)*' .;--1;20 25'>1;2,-Ť 620',)-1;5)',)*' +7 +*.' 620'06;5),*-.'1',)*' .*? ©D6-^ D6-1;.' >) * ,6 2.')-., 62 [25' ,.' =1/ ,>6/ 2.,,;^ , 12.‰ ()*' >1? ?12'=*1=/*')60' 1//18*0',)*.*' ? .^ . 126-*.'5/60/ Ť D;',)*' 9**2'-*D;9*.'1' 1/;?D62;.')60'/125'>)6 *0',)*' ?1.,'1',)*' -;/ 25'>/6..*.‰ ,'6' -1 6/ *., +6/ 6' 5/6..' 1' 8 2*' 86.' =-*.*2,*0',1') ?' 8) >)') *' 06.)*0'12',)*' /11-'D*>6;.*' ,')60' D*'*2'=1/^ /;,*0'D',)*',1;>)'1 '62'60;/,*-*-I'J'M4108 2.'& ? / '=‰NNQX‰ ,'621,)*-', ?*' 1;-' //*5 , ?6,*>) /^ 0-*2'1' ()*;0*- 9' 1-' ( ) *-- ',)*' 9 25' 8*-*' =/6>*0' D* 1-*') ?',1©-*>* +*') .' D/*.. 25' &

= *.')6+*' D**2' >/6.. *0' D1,)' D ' 62> *2,' 620' ?10*?' 8- .*-.' 12' 6->) ,*>,;-*% 1/; ?2.' 8*-*' 1- 5 26// ' ; .*0' . ?=/ ' ,1' .;==1-,' ,)*' -11 ' 1 ' ,)*' *0 >*' 620 ' 6? 0.,' 6// ,)*' */6D1-6, 12.' 1 '6' /6,*-' 65* ' ,) .' 1DA*>,' 86.' 6/86 .' 9*=,' 2' + * 8% : *2>*' 8*' 20' ,)*' >1/; ?2' . ;==1-, 25' 6')1- [12,6/ ?6..' ,*>)2 >6// ' >6//*0' ,)*' *2,6D/6, ;-*% 1,)' ,)*' >1/; ?2' 620' ,)*' *2,6D/6, ;-*' 6-*' 656 2' 0 + 0*0' 2,1' ,)-**' 0 ., 2>,' =6-,.% ()*' 1-^ ?*-' >12. .,.' 1 ' ,)*' D6.*' ,)*' .)6 , ' 620' ,)*' >6= ,6/' ,)*' /6,,*-' 1 ' ,)*' 6->) ,-6+*' ,)*' - *[*' 620' ,)*' >1-2 >*% ()*' 6->) ,-6+*' .' ,)*' >) * ' D*6?' M, -,Z -; Z1-' % 1' E' -*., 25' 12' ,)*' .; ? ? ,' 1 ' ,)*' -18' 1 '>1/; ?2.' ,)*' - *[*' M7871=1 X / %" 8' - .*.' 6D1+*' ,)*' 6->) ^ ,-6+*' 620' .' -*_;*2/ ' 601-2*0' D ' 5;-*.' 2' 0*,6 /' 620' 6D1+*' ,)*' -*[*' =-1A*>,.' ,)*' >1-2 >*' M>1=8AV >' >1C -188X' 1-? 25' 6')620.1?*' 2 .)' M ? ,) .' # ' ' S7-**>*' =% ' .**' < ;//*-' & ' & ' \ 120% Q KB g' K X%

N% ()*' *-. 62' ., /*' 1 ' >1/; ?2.' M.**' # 9 (' 3' 5-*6,/ ' -*.*?D/*0' ,)*' 12 >')6+ 25' 6' > ->;^ /6-' 620' 1-26?*2,6/ D6.*' 6' /;,*0' .)6 , ' 620' 6' >6= ,- ' >12. ., 25' * ,)*-' 1 ' ,81')6/ C 1-?*0' 62 ?6/.' M,)*')1-.*C)*60' 1-' 0*? CD;//.' 8*-*')*' 6+1- ,*.X' >-1..8 .*' 1 ',)*' 6->) ,.6+*' -' 1 '6' >1?=/*L' = -6? 06/ 1?6' .;-?1;2,*0' D ' +1/;,*.' M > 5;..12 .' 7 "' '@ 1' % 1' =% R' ._%X% **' ' $!

1?6;0*-% **' 1 !

1?D% **%% #!

D1? D6,%' **' ' !

1?D* . ' '6' /*6-2*0' 1? 2 >62' ?129' 86.' D1-2' 2' 1+*?D*-' S '6,' <6-?620*' 2' ,)*' *^ =6-,?*2,' 1 ' 1,C*,C46-122*' 2' -62>*% : *' 86.' *0;^ >6,*0' D ' ,)*' B*.;,.' 6,' 1-0*6;L' 620' 2' SK ' *2,*-*0' ,)*' 1? 2 >62' 1-0*-% ,*-' >1?=/*, 25') .' ,)*1/15^ >6/ .,;0 *. ')*' 86.' 6==1 2,*0' =-1 *..1-' 1 '=) /1.1=) ' 620' ,)*1/15 ' 2' .*+*-6/')1;.*.' 1 ') .' 1-0*-' M 2' S '6,' 6- .X' ;,' .112')*' 8 ,)0-*8' -1?') .' =-1 *..1-.) =' 2' 1-0*-' ,1' 0*+1,*' 6//) .' , ?*' ,1' / ,*-6-A' /6D1-.' 620' 2' =6-, >;/6-' ,1' ,)*' .,;0 ' 620' =;D/ >6, 12' 1 ',)*' 62^ > *2,' 8-,*-.' 1 ' ,)*') ;->)% ,*-' =;D/ ./ 25' 2' S ',)*' 81-9.' 1 ' ?=) /1>) ;.'%D .)1=' 1 ' >12 ;?' 1 ' < *,)10 ;.' 620' 2O-*6.' 1 ' -*,*' MK' +1/.% 1/%' 4-**9' 620' 6, 2 '8 ,)' 21,*.X' 620' 2' S ',)*' >)1/ 6/ 1 ' ,% 1 < 6L ?;.' 12' 12 . ;.')*' 6,,-6>,*0' 5-*6,' 6,,*2, 12' D ' ,)*' =; < >6, 12' 1 ',)*' 7 ' & ' ? =' ' ; " ' ' M 6- .' S QX' 8)>)' >12. .,.' 1 ' 62' *L*5*, >6/ 620' 6') .,1- >6/ =6-,% ()*' 1-?*-' >12,6 2.')1? / *.' 620' .*-?12.' 1 ' ,% .,*- ;.' D .)1=' 1 ' ?6.*6' 1 ' ,% -1>/;.' 1 ' ,% 26.,6. ;.' 1 ' /*L62^ 0- 6' 620' 1 ' .*+*-6/' 1,)*-') ;->)' 6,)*-.' 620' 8- ,*-.% ()*' .*>120' =6-,' >12,6 2.' 6') .,1-A7' 1 ' ,)*' <121,)*^ /,*.' 8)>)' 86.' 21,' 8*// -*>* +*0' 2' 1?*' 620' ,)*' 8- , 25.' 1 ' .*+*-6/ 4-**9' 8- ,*-.' *>>/*. 6., >6/ 620' .*>;/6-% 2' S ')*' =;D/ .)*0' ,)*')-1215-6=) ' 1 ' ,)*' [62, 2*' 8- ,*-' ()*1=)62*.' 8)>)')60' D**2' D*^ 5;2' D ' ,)*' 1? 2 >62' ?129' 416-' D;' /* ,' ;2 2 .)*0' 6,') .' 0*6,)% 2' 1-0*-' ,1' *2>1;-65*' ,)*.*' / ,*-6- ' /6D1-.' ',)*' -*2>)' D .)1=.' 6,' 6' ?**, 25' 2' 6- .' 2' S ' 6.. 52*0' ,1' 1?D* .' 62' 622;6/ .6/6- ' 1 ' ' / +-*.' 8)>)' 2' ,)*' 2*L,' *6-' 86.' 2>-*6.*0' ,1' Q ' 620' /6,*-' ,1' ' / +-*.% 2' S S)*' =;D/ .)*0' .*+*-6/ 81-9.' 1 ')- .1.,1?' 2' SS ' ,)*' 6>,.' 1 ' ?6-, -G' 1 ' ,)*' 4-**9');->)' I1 2 ' " ' ' - %"1' 4-**9' 620' 6, 2X% 2' SSK' 6==*6-*0' 12*' 1 ') .' 5-*6,*..' 81-9. ',)*' ; " ' ' =' ' MQ' +1/.% 6- .X% ?125',)*' ?1.,' ?=1-,62,' 1 ') .' /6,*-' 81-9.' 6-*' ,)*' 1//18 25a & 2 ' =' ' ; " ' ? ' ' M 6- .' S K' K +1/.%X' >12,6 2 25' '@ 'D %"' ' % ' ' ' ' 1',81' D119.' 1 ' : ==1/ ,;.' 12*' *..6 ' 1 ' <*,)10 ;.' ,81' 81-9.' 656 2.,'C,)*' <62>)*C 62.' D ' /*L620*-' 1 ' >1=1/ .' M 1-?*-/ ') ?.*/' 6' <62>)*62X' 620' D ' 0 ?;.' 1 ' /*L620-6' .1?*' *.^ .6 .' 1 ',)*' :*. >)6.,' 6/6?6.' 620') .' 1==12*2,' <62^ ;*/ 6/696.' 8)1' 12' 6>>1;2,' 1 ') .' 1?62 [25',*2^ 0*2> *.')60' D**2' *L=*//*0' -1?',)*' 4-**9');->)' 620

@ V,' !
s,)% ,)' 1-' 1?=1.,*% %)' 1-' .-0*%
2> *2,' 5 =,62' 1/;?2.%

1-?' ;.*0' 2' ,)*-')1;.*.' ,1' 8)>)')*' 6/.1' 6//;0*.% ()*-*' 86.' 6/.1' 6' =/6..*-' .;-?1;2,*0' D ' 6' >18 .')*60' M& /9 2.12 .' & !' 6 % 1' 'KQ 'KQS' 6D- 05?%X%
K% ?125',)*' 4-**9.' 6/.1',)*' 5-620*;-' 1 ',)*',*' 24 =/*.' 8)>)' 8*-*' +*- ' . ?=/*' 2' 1-?' 86.' 5-*6,/ ' 18^ 25',1',)*' D*6;, ;/ >1?D 26, 12.' 1 '>1/; ?2.' 8)>)' 601-2*0' ,)*' 2,*- 1-' 6.' 8*// 6.',)*' 1;,.0*% ()*.*' >1/; ?2.' * ,)*-' .;--1;20*0' ,)*' D; /0 25' *2, -*/ ' 1-' 8*-*' 6--625*0' 2' =1-, >1*.' 12' 12*' 1-' ?1-*' 1 ' ,.' -12,.' 620' 6>>1-0 25',1',)* -' 2; ?D*-' 620' 0 .,- D;, ,2',*-6C

% K% N%
2> *2,' 4-*> 62' 1/;?2H% % 1- >' K% 12 >' N% 1- 2,) 62%

)60'*2,*-*0',)*' 1? 2 >62'1-0*TT',)*'6 2 '
'M 6-%' S X'>12,6 2 25'6' 6, 2',-62./6, 12' '.*/*>,'
81-9.'1' 6. /',)*'4-*6,'620' 6./'D.)1=-1''*/*;>6'
620'2*8'*0 , 12.'1','.)*'81-9.'1''<6L ?;.' 12 *..1-'
M 6-.''S 'K'+1/.%' 1/%d',).'81-9'86.'/*,' 2>1?^
=/*,*' 2'>12.*_;*2>*'1',)*'0*6,)'1' 1?D*.X'620'1'
6./',)*'4-*6,% ()*'*0 , 12'1'4-*51 '1' 6[62C
[;.'620'1',)*'81-9.'1',)1.*' [62, 2*'8-,*-.'8)1'
8-1,*'6 ,*-'()*1=)62*.''8*-*'=-*=6-*0'D ' 1?D*.'
D;,' 21,' 2.)*0% ()*'/6,,*-'86.'=;D/.)*0'D ' ;'
-*.2*'M 6-.' SQ XT',)*'1-?*-'86.'?60*';.*'1'D'
,)*'<6;-2*1;+6-0'1-'.'*0 , 12'1'4-*51-Af 1?^
D* .'0 *0'<6->)'KN S R% **'& *,[*-' 1N f)"=
FH=.F f ' '._%T #;*, '620' >)6-0'$ %!', f
f 'S Q._%

1?D*-'()1?6.'6'/*6-2*0' 25/.)'0+2*'86.'
D1-2'6,'&*.,*-)6?*2,'<6->)'R S %' .'.60'
,)6,')*'>1;/0'-*60'4-**9'6,',*2'*6-.'1/0% 0?.,,*0
% %'6,' 6?D-05*'2' SSK')*'86.'?60*'-*D*206-E'
1' 1-9'2' S '0*62'1' ;-)6?2' SR '620'0*0'2'
SRR% :.')>)*'81-9.'6-*d % '"'-%'
M2*8'*0,%' L 1-0' Q '+1/.%Q+1'12*'1',)*'?1.,'
>1?=/*,*'81-9.'*L,62,'12',)*' 119'1' 1?7?12' -6 ^
*-X'a'$" ' ' '"' ' M S 7'
Q+1Xa'5 '@ '"' '"'' '
'M 12012' SQR' ,1X% :.' 1'D')'
5-*6,'5-620.12'(% 1?D*-'8*-*=;D/.)*0'2' 12012'
2' RR'MQ+1X%'':119'6 !';%" 1'+' ST =C'
=.';%" ';1'+' %

1?D*-'()1?6.'5-620.12'1',)*'=-*>*0 25'
=6..*0'<% 6,' 6?D-05*'2' '620' % % 2" %
:*'0*0'-*>,1-'1' ;>9810-,)'2' Q% *.0*.',)*
2 'S'D.'5-620 6,)*-'?*2, 12*0'6D1+*')*'8-1,*'
-"'#" "'5 * ' '" ' ' '& '
'M 120% 'Q+1Xa'6 ' '
(' ' ' ' 'MQ+1Xa'- ' '
'M S'Q+1X%

1?*2 ;.'M=-1=*-/')1E'(' '< 786.'
D1-2'6,' 1-126' 2'<1-6+6'<6->)'KQ' RK' :6+^
25'.,;0*0'6,':*-D1?'620':*0*/D*-5')*'*2,*-*0',)*'
?2.,-'1',)*' 1)*?62' -*,)-*2.' ;->)'620',119'
>)6-5*'M S SX'1',)*'=6-.)'1' -*-6 '6.'6/.1'1',)*'
-*>,1-.)='1',.',)*1/15>6/.*?26-% 2' S Q')*'-*^
?1+*0',1' ;/2*>9'8)*-*')*' //*0',)*'.6?*'1 >*.%
-+*2'-1?')'.'26, +*'>1;2,-'2',)*' 1)*?62'62, C
1-?6, 12')'.*,,/*0'6,' ..6'2' 1/620'8)*-*')*'
.;=*-2,*20*0',)*')5)'.>)11/1',)*' -*,)-*2% 2'
SNK')*'D*>6?*'12*'1',)*-'D.)1=.'620'6.'.;>)'=-*^
=6-*0',)*'86' 1-',)*-'-*2*86/6.'6')>);->)''>6- 25' 2'
=6-,>;/6-'1-',)7'>12, 2;62>*'1',)*-'*=.>1=6/.;>^
>*..12% :.'.9 // 6.'62'*0;>6,1-'*.=*>6// ')'.'2*8'
?*,)10'1',*6>)25' 6, 2'56+*')?'5-*6,'>*/*D-,'
620')*,-6+*/*0',)-1;5)'6'/6-5*=6-,'1' -1,*..62,'
;-1=*',1' ?=-1+*',)*'?*,)10.'1'*0;>6, 12'D*-5^
>6//*0',1' 25/620'1-',).'=;-=1.*'2' S '620',1'
8*0*2'2' k K% :*'D*>6?*'>/1.*/'>122*>,*0'8,)'
,)*'? .,>' 2,1 2*,,*' 1;-5212'M_%+%X'620'2' SS'
=;D/.)*0' '-" 'M ,1X'2'8)>)')*'-*=1-,*0'
,)*' +.12.J'1' 1,,*-' 12 6,1+6'620' -6D>;.%
2'6,*-' *6-.')18*+*-')*'-*5-*,,*0',).'>122*>,12'
620'6>9218/*05*0',)6,' D*')60'D**2'*2,625/*0'2'62'
2*L,-'>6D/*'/6D -2,)%J' :*'.*,,/*0' 26// '6,' ?^
.,*-06?'8)*-*')*'0*0'2' SN% :.'=-2>=6/'81-9.'
6-*d-" ' 'M -65;*'S SXa' "' '
2'M -65;*'SN T *-/2' Q X'E==D ' '
'M ..6'SN X',-62./6,*0'2,1'?62'/625;65*.'
620'6?125C1,)*-.'2,1' *-.62'620' -6D>'62'*/*^
?*2,6-'*2>>/1=*06'0+0*0'2,1' ')6=,*-.'620'
'=6-65-6=).a',% ' 'M ?..%'S '
1/%Xa'5 ' % ' 4 ' '2 '@ 1'
';+ 'M ..6'SNKT ?.,*-O% SS T :6//*'
KT'2'4*-?62'" ' 1==>2T'2'25/.)'D'* *-,D'
"' ' '"';"!';" 'M 120% QS X%

1?*-'(' '12*'1',)*'*6-/' 6=, .,'?2.,*-.'
2' ?*->6'86.'D1-2'2' 1.,12' ;5% :*'86.'
6==-*2,>*0',1'6'5/1+*-'D;,'6,'.*+*2,**2'D',)*'2/;^
2>'1'2>-*6.*'<6,)*-')*'86.'-*/*6.*0'D')'.'?6.^
,*-'620'.112'*2,*-*0':6-+6-0'1//*5*'8)*2>*')*'-*^
?1+*0'6,*-'6'*8'*6-.',1'6/*' 2' K')*'A1 2*0'
,)*' 125-*56, 126/.,');->)'6,' 6?D-05*';2'
K'D*>6?*'6' 6=,.,'>122*>,25')?.*/'8,)'<-%
6//*20*-.'>);->)'2' 1.,12% 2',)*'.6?*'*6-')*'
D*562'=-*6>)25'620'2' KS')*'86.'1-06 2*0'>1C=6.^
,1-'6,' *8=1-,% 2' KR'6'0.=;,*'6D1;',),)*' /6 25'
12'1'D620.J'2'60?.,,25'D6=,[*0'?*?D*-.'2,1',)*'
);->)'/*0',1').'0.?..6/-1?').'>)6-5*% 2' NK'
)*'D*>6?*'=6.,1-'6,' /0' *)1)1),)'6D1;,'*2'?/*.'
-1?'-1+0*2>*')8)*-*')*0*0'1'>12.;?=,12% <6'
KN N %' :*'/*,'6' ' 2'< %'8)>)'.'1'5-*6,'
2,*-*.,'1-',)*I'*6-/')., ,1-'1',)*' 6=, .,');->)'2'
?*->_%' =-65;*'& 1' 'K%

1?1-,*-%' **'% #'/ !

1?25'I* % 1' '% * ' ' '6'
=)-6.*'*?=/1*0'M %X'/,*-6// ' 2'-*'*-*2>*',1'1;-'
1-0.' -.,'6==*6-62>*' 2',)*' /*.)'M'B1)2'+'K T'K'
B1)2'+ X'1-',1') .' ;,;-*'6==*6-62>*'6,',)*'/6.,'06'
,1';//).'=-1?.*.',1'-6.*',)*'0*60 620'A;05*',)*'
81-/0'2'-5)*1;.2*..'M >,.'A' T 'K K T')(.*.%'
+' T K'(?% +' T :*D% L'KQX%
MK%X'<*,6=)1->6//EW)-.,'.'.6 0',1'>1?*'8)*2')'
41.=*/.' 2,-10;>*0'1-'=-*6>)*0'2'62'=/6>*'D')'
? 2.,*-.'MB1)21'L+'KKT =/*.%' X% 8)*2')'
>);->)'1-'9 2501?'.'+.D/'1-'=18*-;// '*.,6D/.)*0'
2',)*'81-/0'M<6,,'L+'KQXT'8)*2')*'D*.,18.';=12'
D*/*+*-.',)*'2/;*2>*'1')'.'.=-,'620',)*'=*>;/6-'
,19*2.'1')'./1+*'MB1)2'L+'Q'KN'KQXT'8)*2')*'*L^
>;,.')'A;05?*2,'12'8>9*0'>1?7;2,*.'8)1'-*A*>,'
1-'>1--;=,')'.'41.=*/'MK'()*..%' 'QXT'620'8)*2')'.'
=-1+0*2>*'>6//.'2.'686'-1?',)*'81-/0'D'0*6,)'6.'
=-*=6-6,1-''',1',)*'A;05?*2,'1',)*'/6.,'>,*'M <6,,%
LL+'KX% ()*'D6..'1',).'?*,6=)1->6/;.65*'2'
-*56-0',1',))'>1?25'1')-.,'.',)*.6?*6.'27*/6C
,12',1',/7*'>1?25'1'4101',)6,'6.')S'51+*-2.',)*'
81-/0'*+*-'.=*>>'6>,'1')'.'=-1+0*2>*'620'9;,)1-C
,'20>6,*.')'.'=-*.*2>*'2'6'?1-*.,-9 25'?622*-'
,1')?62'>12>*=,12'12',)*'=-2>=/*,)6,'21'65*2,'
>62'6>,'8)*-*')*'.'21,% **'6>: (D 4 %
1?7620*-'1-'1?7620- '6'9 20'1'D*2^
>'D*/125 25',1'6'?/,6-'1-0*-%' ()*-*'6-*'6/.1'
'>1?7620*-*.J'2',)*'1-0*-.'1'*-26-0'620'2^
,)12'620'1-',)*'92 5),.'1'<6/,6'6>>1-0*0'1-'0.^
,25;.)*0'.*-+>*.%'0*2'" " (''.'+%
1?7620?*2,%' **' $!
<< < ('(:' '1-' L
'<+'0%>' '$ '>*-,6 2'-;/*.'1',)*' 1?62'
6,)1/>');->)'8)>)'8,)2',)*'/6.',)-**'>*2,;^
-*.')6+*'D**2'>12.0*-*0',1'D*'6.'1D/56,1-'12',)*'
/6,'6.',)*' '"' f ()*.*'
+*'>1?7620?*2,.'6-*'5*2*-6// '..,6,*0'6.'1//18.a
% (1'9**=')1/',)*'1D/56,1-'*6.,C06.T'K%'+1;,^
/',1')*6-?6..'12' ;206.'620'*6.,C06.T'NF (1'1D^
.*-+*',)*'06.'1'6.,'620'6D.,2*2>*T'(1'>12*.'
,1',)*'=-*.,'6,'/*6.,'12>*'6'*6-'M6,'6.,*-X'M 12*%
! '62%'K XT (1'=6-,69*'1',)*'.6>-6?*2,'6,'
/*6.,'12>*'6'*6-',186-0.'*-% .',)*-*'0/*-*2,'
-;/*.')6+*'21'>1?7120'1-5 2'2',)*'-*5;/6,12.'1',)*'
);->)'620'6-*'21,'*+*2',69*2'-1?',)*' 2 "
5 ',.'21,',1'D*'8120*-*0'6,',)6,',)*'+*'
#,)*-.')6+*'?60*'+6-1;.'6/,*-6,12.% */6-?2^
>/;0*.',)*'=6 25'1',,)*.'6?125',)*C>1?7620?*2,.'
1',)*');->)'8)/.,'.1?*'1',)*' -*2>)'>6,*>).?.'
;26D/*',1'2>/;0*'6/',)*'-;/*.'.;20*-',)*'+*')*60.'
)6+*'600*0'6'.L,)'*,'8,)1;'-*6>)25',)*-'1D%*>,%
2',)*'$2,*0',6,*.',)*' >1?7620?*2,.J'6-*'*C
A1 2*0'2',)*'1//18 25'1-?a
% ()*'MB6,)1//>');->)'>2%2?620/)*-'>)/0-*2'12' ;2^
06.'620')1/06'.'1'1)/.6,12'1',1'D*=-*.*2,'6,',)*')1/'
6>-'>*1'?6..',1'-*.,'-1?'.*-+/*81-9.'12',)1.*06.'620'
,1'9**=',)*?')1/%

K‴)*'>1? 6206' ,)*?',1'6D..,6 2' -1?' /*.)' 12'6//'06 .'1' 6.,2TH'620'6D.. 2*2>*'620'12' 6..,006 .',1'*6,' D;,'12*' ?*6/% N‴)*' >1? ?620.',)*?',1'>12 *..',)*.'-'. 2.',1',)*.'-'=6.,1-' 6,'/*6..' 12>*' 6' *6-%
')*' >1? ?620.',)*?',1'-*>* +*',)*'D/*..*0'.6>-6?*2,' /*6..' 1=>*' 6' *6-'620',/6,'6,' 6..*-'1-'0;-25',)*'=6.>)6/' ?*%
S‴ (1'>12,-D;,*',1',)*'.;==1-,'1',)*.'=6.,1-%
S‴ 1,'1'?6-- '8,)2',)*' 1;-,)'0*5-*'*' 1'9 20-*0'21*- *>,% =- +6,*/ 8 ,)1;,'8,2*..*.T 21-',1' / '?6-- 65*' 6,' >*-,6 2'=-1) D,*0',?*.%7
& *')6+*'.6 0',)6,',)*.*'>1?7620?*2,.'6-*'6.'1D,7 56,1- '1-'7)*' 1?62.',/6 ?62' "1' '?' (')*' 1;2>/'1'(-*2,')6.'015?6,>6//A'.*,^ ,/*0',)*' =1 2,' M *..% '' 'D !' 62% LLX% ()*' -1,*.,62,'1==1.,12',1',)..'5-*6,'8-125'86.'>1?^ ?*2>*0'D'.;>)'8-,25.'6.' ;,)*-.'''% ' ;"2 '620'U8 25/*.'N '6+ '2'@ "' 'S% f' ()*' +625*/>6/' 12*..12.'*L=-*..',)*' .6?*' 1==1.,12'6.'1-' 2.,62>*',)*' & 1' 2' ,)*'6-,>/*.'d 'd //'dd ',)*'# '2' KN' K'620'K'- % '>6=% 'Q'R % ()*'>/*6-/ C*LC =-*..*0'=-1,*.,6,12'>12,6 2*0' 2',)*'.*'=6..65*.'01*.' 2' 21' 86'.**9',1'1+*-,)-18',)*'0;, ;/'1D*0*2>* >1? ?620*0',186-0.'=6.,1-.'620'-;/*-.'M:*D% L ' X' 1-',186-0.'0*>*2> '620'1-0*-'M' 1-% L+' X'620',)*' =18*-'1'51+*-2?*2,')*/0'D',)*');->)'2',)*'=*-^ .12.'1',.'>12.,,;,*0'1-562.% //',).'.'*2,-*/' 0 *-*2,'-1?',)*'>1?7620?*2,.'*.,6D/.)*0'D',)*' 1? .)')*-6->) '2'1==1.,12',1',)*'&1-0'1'410' 6.'*L=-*..*0'2' 1/% 'S' Q'K CKN' <6.,'L+' T' '(?% +' C T' 1-% +' QT' +$' ST' K T' <6-9' 'KN' 46/% +'RC % ()*'1/0'=/*6' 2.,62,/'=-*^ .*2,*0'D',)*' 1? .)'6=1/15.,.',)6,',)*'01>,-2*' 1',)*'>1?7620?*2,.'1',)*'9* .'620'2',)*'>1?7620^ ?*2,.'1'410') ?.*/''1'21'8*5),%'':*-[15'HZ6C 6 " %f +'S T & *,[*-' ; & */,1')'"!= ' +'N % ,1?? *;06?% & />2'6'+6>62,'/+25'.' 1' ')>)'1' 25/620',1',)*'>)6-5*' 1'6' >/*-5 ?62';2,/',_62'D1'.;==/*0'8,)'6'=6.,1-'',)*' D*2* >*'.'.60',1'D*'.;==/*0' ' f 2^ >*2,/',)*' 60?2.,-6,12'1'+6>62,'D.)1=-'>.'D*^ /125*0',1',)*'2*6-*.'D.)1=',)*2*>6//*0' =' f ()'.'>;.,1?'86.'6,'6'+*-'*6-/'=*-10'2,-1^ 0;>*0'2,1',)*');->)% ,)626.;.'.6.'1')?.*/' 6>>1-0 25',1' >*=)1-;.',)6,',)*-*')60'D**2'5+*/)?'>18?*20 6?'621,)*-'>);->)'D*-0*',)6,'1'/^ *L620-6'1'8)>)'/)*'86.',)*'.,6,*0'D.)1=% &)*2'6' =-*.,'.'?60*'D.)1=')'=6-.1265*'D*>1?*.'+6>62,' D;,')*'?6'.,//)1/0',' ! ,')6.'D**2',)*' =-6>,>*'.1?*,?*.'2' 25/620'1-',)*'>-182',);.',1' 622*L',1'6'D.)1=->'1'.?6//+6/;*'*,)*-',)*/+25' 8)>)')60'D**2')*/0'D',)*'2*8/'?60*'D.)1='620' 1'8)>)'2'+-,;*'1'.;)'*/*+6,12'1',.'2>;?D*2,' ,)*'=6,-1265*'D*>6?*'6,',)*'0.=1.6/1',)*'>-182'1-' .1?*'1,)*-'2' ..',*60% '0*2' ' : 6--6-'6 !' ' :' &*,[*-' ;% &>/,*')"1 !' ' S%
1?? *2012*'& '6'>6-0^ 26/'620'X6=6/ /*56,*'2'4*-?62'86.'D1-2'6,' *2^ >*'<6->)' KN% ,*-'.,;0 25'/68')*'8*2,' M X',1'1?*'8)*-*')*'6,,-6>,*0',)*'6,,*2,12'1' 1=*'B;/;.' '620'86.'*?=/1*0'6.'*6-/'6.' 1-'6'=1/,>6/?..12% 2' K')*'8*2,'6.'=6=6/*2^ +1',1',)*' *,)*-/620.'620'-1?',)*-*',1' 25/620' 8)*-*')*')60'62' ?=1-,62,'.*>-*,'2,*-+*8'8,)'<6-EW ,)*'06;5),*-'1':*2-' '8)1'12',)*'0*6,)'1')*-' D-1,)*'086-0'86.',1'6.>*20',)*' 25/.)',)-12*% <6-'56+*')?'62'6;,15-6=)'/*,,*-',1',)*'=1=*'620' =-1?.*0',)6,',)*' 1?62' 6,)1/>-*/5 12'.)1;/0'D* -*(*..6D/.)*0'6.',)*'.,6,*');->)% 1??*2012*')6+25'218'56 2*0',)*'*2,-*>12 0*2>*'1',)*'=1=*' 86.'6,'12>*'*?=/1*0'1-'1,)*-'?=1-,62,'?..*?.',1' 1-,;56/'=6 2'620'-62>*% 6;/'?60*')?'=6^ =6/.*>-*,6-'620'D.)1=-'1'U62,*' ;.' '.*2,')?' ,1'4*-?62',1'2+,*',)*' -1,*.,62,'=-2>*%7,1'.*20' 0*/*56,*.',1',)*' 1;2>/1'(-*2,% :*'600-*..*0',)*' -1,*.,62,'>12+*2,12'6,' 6;?D;-5'M S X'620'=-*^ .*2,*0',)*'=6=6/D;//'1' 2+,6,12'620'/*,,*-.',1',)*' .*+*-6/=-2>*.'D;,'?*,'8,)'21'.;>>*..',)*'/*,,*-.' D* 25'-*,;-2*0';21=*2*0'620',)*'2+,6,12'0*>/2*0% 6,';D.*_;*2,'* 1-,.',1'=-*+6/;=12',)*'*/*>,1-'1' -62^ 0*2D;-5'620',)*'9 25.'1' *2?6-9'620' 8*0*2',1' .*20'0*=;,*.',1',)*'>1;2>/-*?6 2*0'/9*8.'8,)1;,' .*'8,)2'.'*>,% <1-*'.;>>*..;/86.'6'?..12',1' 1/620'2' SN% &)/.',6 25'6,',)*' 1/.)'>1;-,')*'86.'6=^ =1 2,*0'6'>6-0 26/% 2' SS'620' SQ')*'86.'.*2,',1' ,)*' ?=*-1-'<6L?/62'8)1'86.'.;.=*>,*0'1'/*62^ 25',186-0' -1,*.,62,.?'2'1-0*-',1'0*,6 2')?'-1?' ?69 25'>12>*..12.',1',)*' -1,*.,62,.% 112%6 ,*-')*'86.'656 2'.*2,',1' 1/620'2'1-0*-',1'.*>;-*',)*' */*>,12'1'6' -*2>)'=-2>*'8)1'86.'921822'6.'6'60 26,>6/'=6-,.62'1',)*');->)'1' 1?*'6.'9 25'1' 1/620% :*'-*,;-2*0',1' 1?*' 2' N'620'0*0'2' Q % :.'/ *'86.'8-,,*2'D' %'<6-6'4-6,62')*.*>-*,6-'620'.;D.*_;*2,/'D.)1=' 1' ?*/6% ** &*,[*-';%&*/,*' ' :_%T -.6> % % " ' ' ' ' %% ' ' ';'M *;..'Q SX% 1?? *2,6-'MT -1W PHTA;Z?ZX;1>' 6,% =' K'<6>*' ' NX'8 'M.**' 6-=*2,*-.'? ' '"'$ ' '"';"2'%' '>)% '.*>% C T' 6+ 0^ .12' 2' : 1-2*.' '2*8'>0% 'N CNQ T' <% ;,6-,' 2',)*'& !';3f5 % ' 'N'._%X% **? / L !
% ' % ' ' !'2',.',)*1/15>6/6=^ =/>6,12'.';.;6// '?*62,'62'*L)D,12'1',)*'?*62^ 25'8)>)',)*.6>-*0'8-,*-.'2,*20*0',1'>12+1 T 1-'6' 0*+*/1=?*2,'1',)*',-;,).'8)>)',)*:1/' =-,'8//*0' ,1'>1??;2>6,*',1'?*2' 1-',)*-'.6+25'*2/5),*2^ ?*2,% ().'.';.;6// '* *>,*0'D'21,*.'?1-*I1-'/*..' *L.*20*0'D'6'.*-*.'1'-=6/8)1.*'=;-=1-,'.',1'D-25' 1;,'2,1'+*8',)*'*L6>,'.*2,?*2,.'8)>)',)*2.=-*0' 6;,)1-.'?*62,',1'*L=-*..% ',.',-;*',)6,',)'>62' 12/'D*'?=*-.*>,/'012*'18 25',1',)*'+6-1;.'>6;.*.' D')>)'*+*-'/625;65*'.'6 *>,*0'D;',)*' 1'-*+*/6,12'?6'D*'60*_;6,*/''*?D10*0'2'6'5-*6,' +6-*,'1'56-D% M %X'()*' " '1'>1??*2,6-'6-*%M2%X' 2' */;>06,12'1',)*'?*62 25'D*/125 25',1',)*' 81-0.' =)-6.*.'620'01?.'1',)*'1-5 26/% ()*'.52 >6,12' 1'6',*-?'.'5*2*-> 1-'.=*> >% '+6-*,'1'.52^ >6,12.'6/.1'D*/125.',1',)*'.6?*'.?*-?'6>>1-0 25',1' ,)*'=1.,12',1>>;=*.% 18'6%>1??*2,6-'=1 2,.' 1;',)*'=6-,>;/6-'?*62 25'D*/125 25',1'6',*-?'2'6% =6-,>;/6-'=/6>*',15*,)*-'8,)',)*'-*6.12'1',.'D*6-^ 25'.;>)'6'.*2.*% 1'8,)'=)-6.*.% ',).1;/0'/9*^ 8.*'*L=/6 2',)*'>12.,-;>,12'1'.*2,*2>*.',)*'=*>;/^ 6-,*,'1',)*'0>,12'*?=/1*0',)*'0 >;/,*.'D*/125^ 25',1'>*-,6 2'>1?D 26,12.'1'81-0.'620',)*'?10*' 2' 8)>)',)*'6 *>,',)*'5*2*-6/?*62 25% M %X' 21,)*-')6-6>,*-.,>'1'>1??*2,6-''.'62'*L^)D,12'1',)*'8-,*-.'.>1=*'1-',)*'*20')1')6.'2'+*8' 2'6'=6-,>;/6-'=/6>*% +*-E7=6-,>/*'620'81-0'1'*+*-' =)-6.*'620'.*2,*2>*'1-?.'6'/29'2',)*'>)6 2'1'-*6^ .12 25'0-68 2'1;,'D'62'2.=-*0'6;,)1-'6'.,*=' 2',)1' =-15-*..'1'),'.')1/'-*+*/6,12.% '>1??*2,6-' .)1;/0',);.'*L)D',),)*'0*.52'1'6'8-,*-'2'6'>*-,6 2' >122*>,12',)*'6-5;?*2,.')*'*?=/1.',1'*.,6D/.)' .)'=1.,12.',)*-*>1)*-'>2>*'8,)'12*'621,)*'-' 5*2*-6/)6-?12'620',)*'0*5-*'1'?=1-,62>*'6.^ .52*0',1',)*?% b M>%X' 2'600,12',1',).',)*',-6 2'1',)1;5),'1-'-*6^ .12 25'=;-.;*0',)-1;5)1:,'62'*2,-*'D119'1-'*=../*'),)*'+6-1;.',1=>.'0.>;..*0'.,)*'5-*6,'*20'1'/> 8)1/*'8,)',)*'.;D1-0 26,*'=6-,>;/6-.',*?D-6>*.' ,)*'05-*..12.'?60*'D',)*'8-,*-''.)*.*'620'1,)*-' =6-,>;/6-.'1'6'/9*'26,,-*'>12 0*2>*'1',)*'=1=*' 86.'6,'12>*'*?=/1*0'1-'1,)*-'?=1-,62,'?..*?.',1' 1-,;56/'=6 2'620'-62>*% 6;/''?60*')?'=6^ =6/.*>-*,6-'620'D.)1=-'1'U62,*' ;.' '.*2,')?' ,1'4*-?62',1'2+,*',)*' -1,*.,62,'=-2>*%7,1'.*20' 0*/*56,*.',1',)*' 1;2>/1'(-*2,% :*'600-*..*0',)*' -1,*.,62,'>12+*2,12'6,' 6;?D;-5'M S X'620'=-*^

MOX' 21,)*-'>)6-6>,*- ., >'1 '>1? ?*2,6- ' .' ,) 6,') *''6 0' 1 '/*L >12.' 620' 5-6? ?6-.' >6//*0' 2',1' . ;==1-,' =-*.*?2,.' 6' >1?=6- .12' 1 ',)*' .*2, ?*2,.' >12,6 2*0' 2' 1-' >12 -?' 6' >*-,6 2' 2,*=-.*,6, 12% K' % '>1?^ 12*' D119' 1-' 12*' *2, -*' >122*>,*0' =1-, 12' 1 ' >- =,;-*' !1? *2,6- ' .,6,*.' 2' =*-.= >;1;.' 620' ;2,*>)2 >6/ =)-6.*^ 8 ,)',),1.*' 1 '621,)*-' 620' 8 ,)',)*' 5*2*-6/ ,*21-' 1 ' 1/15 ',)*' .*2, ?*2,.' 1 ',)*')1/ ' 8-,*-.' ;.;6// ' 8 ,)^ -*+*/6, 12% 'D*6;, ;/) 6-?12 '=*-+60*.' ,)*' D/*% 1;,' 0*,6 / 25' ,)*' ..*=.' D ' 8) >)' ,) 6,' ?*62 25') 6.' +*-. , *.' 20**0' ,' *L) D ,.' A;.,.' 6.' 8*' .) 1;/0' *L^ D**2' 0 .>1+*-*0% ,'/*6+*.' =) /1/15 >6/ 1D.*-+6, 12.' =*>,',' F'% ',1' 01T .'=-*.*2,.' 0 >;/, *.' 620' ? .^ ,1',)1.*' 8) 1.*',6.,*'/*60.%,)*?',1' .;>)' .,;0 *.%I' //' ,*- *.' 8) >)' 8*' >6221,' 6,)1? 'D;,' 8 ,)',) .' +6- *, .> *2, >' 2+*., 56, 12.' 6-*' 6+1 0*0% ,.' 5-*6,'1DA*>,' ,)*-*' .' 6' ;2 1-? , ' 81-,/ '1 ',)*' 8 .01?' 1 ' 410% RW '=-*.*2,' 2'62' 6,,-6>, +*' 1-? ',)*',)1;5),.' 1 ',)*' >1? ?*2,6,1-' .)1;/0' ,)*-* 1-*' D*' 6D/*' ,1' 6>>1;2,' .6>-*0' 6;,)1-. ' .1',)6,',)*' ?6 '+ + 0/ ' ?=-*..',)*' 1-' 0 +*-. , *.' 1 '.*2, ?*2,' 2' -* *-*2>*',1',)*' .6>*0' 6 ^ ?' 20' 620' 2,*-*.',)*')*6-,% ' 6+1 0.' *+*- ',) 25' *-*2,'=*- 10.' 620' 600-*..*0',1' 20 + 0;6/.' 1-' >1? ?;^ ,)6,' '-*60*-' ;26>_;6 2,*0' 8 ,)' : *D-*8' 620' 4-**9' 2 , *.' 8) 1.*' > ->;?.,62>*.' 2,*//*>,;6/' 620' =) . >6/' 81;/0' 21,' ;20*-.,620' 620' 1>>;=*.' ,.*/' .1/*/ I' 8 ,)' 8*-*' 0 .. ? /6-% & ,)1;,' ,' -*/ 5 1;.' .-;,)' 8 // D* ,)*',*1-1' *)*'*/, 1*2*/*,*0' 1>>*>,*0' 1 '/*L >12.' 620' 5-6? ?6-.' >6//*0' 2',1' .;==1-,' .*2' 2' 0 .A1 2,*0' -65? *2,.' 21' >122*>,*0' . .,*? ' >1?=6>,' 620')6-?12 1;.' 2' ,.' =6-,.' 8 // ?**,',)*' * *% % ()*'/?,.' 1 ' '% % '>1? ?*2,6- '6-*' MK%X' -1?' 8)6,')6.' D**2' .,6,*0' 2' -*56-0',1',)*' 21,' ' 8 0*' 6.' ,1' =-*+*2,' 6' =6-, 6/ ;2 12' 1 ' D1,)% >12.,.;*2,.' 1 '>1? ?*2,6- ' ,' 8 // 6/.1' D*' .**2',)6,' ()*-';/, ?6,*' 1DA*>,' .',)*' .6?*' + [%',1' =-*.*2,',)*' ,' 0 *-.' -1?' ! ()*' /6,,*-' *20*6+1-.',1' *L6>,' ?*62 25' 8) >)',)*' : 1/ ' = - ,' 2,*20*0',1' *L^ 20' 2' 621,)*-' /625;65*' *_; +6/*2,',*-? .' *L=-*.. +*' =-*..% 1,)' ?6 ' .,6,*' ,)*' ?=1-,' 1 ' 81-0.' 620' 1',)*' 0*6.' 8) >)',)*' 81-0.' 1',)*' : *D-*8' 62MB' 4-**9' =)-6.*.T D1,)' ?6 ' 2+*., 56,*',)*' >1;-.*' 1',)1;5),' /625;65*.' 8*-*' -6?*0',1' >12+*' % ' .' *6. ',1' .**' =;-.;*0' D ' =-1=)*,.' 620' 6=1../*.% ()* ' ?6 ' 0*+*/^)18*+*-',)6,' 2' ?62 '>6.*.',) .' >6221,' D*' 012*' 620' 1=' =-1>*..*.' 1 '6-5;?*2,6, 12',)*' .>1=*' 1',)*' 8-,7 ,)6,' 2' 1,)*-.' ,' >62' D*' * *>,*0' +*- ' ?=*- *>,/ % *-.' -*?6-9.',)*' D*6- 25' 1 '*6>)' =6-, >;/6-' 12' 6' >* P' ()*-*' 6-*' 620' ?;.,D*' 6',)1;.620' +6- *, *.' 1 '>12>*=^ 6-0' 1 ' 2,*// 5,2,' 2,*-=-*,6, 12',)*-*' .'-11 ?' 1-',6 2'=;-.;*0' D119.' 8*-*' 8- ,,*2' / +*0' 6? 0' > ->;?.,62>*.' 2' , 12' *L=-*..*0' 2',)*' 1- 5 26/ /625;65*.' 1 ' >- =,;-*' 12.' 1 ' >1?D 2 25',)*.' -'-*.=*>, +*' _;6/, *.% '% % / ' ?62 ' -*.=*>,.' 0 +*-.*' -1?',)1.*' 1 ' 1,)*-' =*1=/*% ,)*' ?1?^ 1 ' 8) >)' 21' 1,)*-' >62' 6 1-0' 62' 60*_;6,*' -*=-*.*2,6^ ,)*>-.,)6/,*.% '% % / ' ()*.*>->;?.,62>*.' 26,;-6// '56+*' 6' 1/1- 25',1',)*-' ,)*' >-,)*' 2)6D ,62,.' 1 ',)*' >1;2,-*.' 8)*-*',)*' .67 /625;65*% ()*'6 8 6 '6.',1' >-*6,*' /*>, 12% ;,'D '+ + 25',)*' 12*' 620' .1/ 0 25',)*' >-*0' D119.' 8*-*' 8- ,,*2' / +*0' 6? 0' > ->;?.,62>*.' 2' 1,)*-' 6-*' 21' *_;+6/*2,.' 2',)*' /62^ ?62 ' -*.=*>,.' 0 +*-.*' -1?',)1.*' 1 ' 1,)*-' =*1=/*% 5;65*.' 1 ',-D*.' 8)1' 6-*' >12+*-.62,' 8 ,)' 0 *-*2,' 1D^ ()*.*' > ->;?.,62>*.' 26,;-6// '56+*' 6' 1/1- 25',1',)*-' /625;65*% ()*'6 *>,*0' ,' 2' .;>)' 6' 8 6 '6.',1' >-*6,*' A*>,.' 620' / +*' 6? 0' 0 *-*2,' -*/6, 12.% 2' .;>)' 6' ,.*-' 6-*' 21' *L=*0 *2,' .'/* ,'D;,'> ->;?/1>;, 12% ',)*' >6.*' 21' *L=*0 *2,' .'/* ,'D;,'> ->;?/1>;, 12% ',)*')*/='1 '.*+*-6/=)-6.*.' 8*' ?;.,'-.',1' 6==-1L ?6,')*/=)-6.*.' 8*' ?;.,'-.',1' 6==-1L ?6,' /*6.,',)*' .*2, ?*2,'1-'.)60*' 1',)1;5),' 8) >)',)*' 2^ /*6.,',)*' .*2, ?*2,'1-'.)60*' 1',)1;5),' 8) >)',)*' 2^ .= -*0' 8-,*-.' 0*. 52*0',1' *L=-*..% ' .' .= -*0' 8-,*-.' 0*. 52*0',1' *L=-*..% ' .' ,);.' ?1-*' 0 ;.*',)62' ! ,.' 1DA*>,' .' 21,' ,);.' ?1-*' 0 ;.*',)62' ! ,.' 1DA*>,' .' 21,' ,1' 20' 81-0.' 2' 12*' /625;65*' >1--*.=120 25',1',)1.*' 1' 20' 81-0.' 2' 12*' /625;65*' >1--*.=120 25',1',)1.*' 1 ',)*' 1- 5 26/ /625;65*.' 1 ',)*' >- =,;-*.' 1-' 2*6-/ ' 1 ',)*' 1- 5 26/ /625;65*.' 1 ',)*' >- =,;-*.' 1-' 2*6-/ ' -*.*?D/ 25',)*?' 2' . 52 >62>*' D;,',1' .*,' 1-,)',)*' -*.*?D/ 25',)*?' 2' . 52 >62>*' D;,',1' .*,' 1-,)',)*' ?*62 25'1',)*' 8-,*-.' 2'21,*.' 620'-*?6-9.' 1 '>12. 0^ ?*62 25'1',)*' 8-,*-.' 2'21,*.' 620'-*?6-9.' 1 '>12. 0^ *-6D/*' /*25,)% %" ' 1>>;=*.' 6' ? 00/*' =/6>*' *-6D/*' /*25,)% %" ' 1>>;=*.' 6' ? 00/*' =/6>*' 3D*,8**2' ,-62./6, 12' 620' >1?? *2,6- ' =6-,69 25' 1' 3D*,8**2' ,-62./6, 12' 620' >1?? *2,6- ' =6-,69 25' 1' 5-*6,*-' 0 ;.*2*..',)62',)*' 1-?*-' D;,'1'/*..'*L,*2,' 5-*6,*-' 0 ;.*2*..',)62',)*' /6,,*-% ,'6 ?.' 6,' 20 25'*_;+6/*2,',*-?.' ,)62',)1.*' 8) >)',)*' .6>-*0' 8-,*-.' *?=/1 ' 6>>1?=62 *0' ,1',)1.*' 8) >)',)*' .6>-*0' 8-,*-.' *?=/1 ' 6>>1?=62 *0' 8 ,)' 1,)*-.',)6,' 6==*6-' 2*>*..6- ',1' // ;=',)*' .*2.*' 8 ,)' 1,)*-.',)6,' 6==*6-' 2*>*..6- ',1' // ;=',)*' .*2.*' 1-',1' .=-*60' ,' 1;,' D* 1-*',)*' ? 20' 1',)*' -*60*-' 2' 1-',1' .=-*60' ,' 1;,' D* 1-*',)*' ? 20' 1',)*' -*60*-' 2' .;>)' 6' 1-?' 6.',)*' 6;,)1-.',)*?.*/+*.' ? 5),' D*' .;=^ .;>)' 6' 1-?' 6.',)*' 6;,)1-.',)*?.*/+*.' ? 5),' D*' .;=^ =1.*0',1')6+*' *?=/1 *0' 2' -* *-*2>*',1',)*' *=1=/*' ,1' =1.*0',1')6+*' *?=/1 *0' 2' -* *-*2>*',1',)*' *=1=/*' ,1' 8)1?' ,)*' =6-6=)-6.,' D*/125.% $ " ' 0 *-' -1?' 8)1?' ,)*' =6-6=)-6.,' D*/125.% $ " ' 0 *-' -1?' >1? ?*2,6- ' 12/ ' 2' D-*+ , % ()*' 6-*' .)1-,' 21,*.' >1? ?*2,6- ' 12/ ' 2' D-*+ , % ()*' 6-*' .)1-,' 21,*.' 12' =6..65*.' 1 ' >- =,;-*% 1?*, ?*.' 0 >;/,' =/6>*.' 12' =6..65*.' 1 ' >- =,;-*% 1?*, ?*.' 0 >;/,' =/6>*.' 6/12*' 6-*' .*/*>,*0' 6.',)*-' 1DA*>,'T 6,'1,)*-', ?*.',)* ' 6/12*' 6-*' .*/*>,*0' 6.',)*-' 1DA*>,'T 6,'1,)*-', ?*.',)* ' *?D-6>*' >12, 2;1;./ '62' *2, -*' D119% *?D-6>*' >12, 2;1;./ '62' *2, -*' D119% % ()*-*' 6-*' ,81' 9 20.' 1 '>1? ?*2,6- ' 8) >)' % ! ()*' .)6// 21, >*' + [%',)*' '620',)*'% % ! ()*' 8)*' 25')18*+*-'-*?1,*/ '>122*>,*0' 8 ,)' 6'=6..65*' 1-' 1-?*-'>12,6 2.'5-6?? 6, >6/ 620'=) /1/15 >6/-*?6-9.' .)6// 21, >*' + [%',)*' '620',)*'% % ! ()*' 1-?*-'>12,6 2.'5-6?? 6, >6/ 620'=) /1/15 >6/-*?6-9.' ,1' 21,*' 0182',)*',)1;5),.' 6.',)*' -.*' D;',1' " '*' ;2 1/0.',)*' 5*2*-6/ 620'.=*> 6/ . 52 >6, 12.' 1 '81-0.' ?*2,6/* -1-',;=12',1'6==/ %.*+*-*' 620'-5 0' *L6?^ =1 2,.' 1;,' 0 1?.' 620'=*>;/ 6- ,*.' 1 ',)*' 1- 5 26/ /62^ 26, 12',1'*6>)' .*2,*2>*' 620'=6-65-6=)' 1 ',)*' 1- 5 (^ 5;65*.' 620' 6/86 .' D- 25.' 2,1' + *8',)*' : *D-*8' 1- 6/' .' ;,*' 6' 0 *-*2,'=-1>*..% (1' *L) D ,' 2' 6'/;>0' 4-**9' =)-6.*1/15 ' *?=/1 *0' D ',)*' .6>-*0' 8-,*-.% 620'.*/ C.6, 25'?622*-',)*' -*.;/,.' 1 '0**=',)1;5),' ,' 0 /6,*.' 12' ,)*' =*>;/ 6- ,*.' 620' 0 >;/,*.' 1 '>12^ 620' 201? ,6D/*' 20;.,- 6-' -1?' .' 6-' -1?' ,)1.*' =-1/ L' 2,*-=-*,*-.' 8)1' 2',)*-' 6==6-*2,' 62L *^ .,-;>, 12' 8) >)' ?6 '=-*.*2,',)*?.*/+*.' -* *-- 25',1' ,',1' >1?=1.*' 6' '>1? ?*2,6- ' =-*.*2',)*' -*60*-' +6- 1;.'-*60 25.' 620' 1>>6. 126// ' D- 25 25' 2,1' >1?^ 8 ,)' 6' >)61.' 1 '6221,6, 12.' 620' D;-',)*')1/ ' .2.*' =6-.12',)*' .*2, ?*2,.' 620' 0 >, 12' 1 '=-1 62*' 8-,*-.' 8)*-*',)*' '-*.*?D/*',)1.*' 1',)*' D/*' 2' 6' 81-0' 1',)*' 2.= -*0' 8-,*-.' D*2*6,)',)*' -;DD .)' 1',)*' -' ,' ,69*.' 6' 8 0*' -625*' 8) /*' ,' .,6,*.' ,)*' =-1>*..*.' =-1.6 >' ?;. 25.% 8)*-*',)*' =-1/ L' 2,*-=-*,*-.' 8)1' 2',)*-' 6==6-*2,' 62L *^ K' 1?*' >1? ?*2,6-1-.' 6-*' 120' 1 '0*,6 / 25' +6- 0;.' =6-*' 1= 2 12.' 8 ,)1;,'. , 25',)*?' ()*' =-1>;-*' 6' 2;?^ *0' 0 ..*-,6, 12.' 6-*' .1?*, ?*.' 5 +*2' 2' 8) >)',)*' 21' 1-?*-' 1-?*-' 2' 8) >)',)*' 21' 1-?*-' 1-?*-' 2' 8) >)',)*' 21' 1=' 2 12.' 8 ,)1;,'. , 25',)*?' ()*' =-1>;-*' 6' 2;?^ 5;65*' .' ?60*',)*' 0 -*>,'.;DA*>,'1 '*L6? 26, 12' 620' 8)6,' .' .6 0' ;=12' 6',*L,' ()*' ,*// 8)6,' 12*' 620'

621,)*-' /*6-2*0' 6221,6,1-' 6 -?. ' D2,' 01' 21,' .*6->)' 1-' .>-; , 2 [*') .' 6 -?6, 12.% 1' 01; D,' 6 '6--6 ' 1 ' 26?*.'/119.' ?=1. 25' 620' ,)*' -*60*-' ?6 ' .,6-*' 8 ,)' . ; -=- .*' 6,' ,)*' *L,*2,'1 '-*.*6->)'0 .=/6 *0' D ; ' 21,)^ 25' .' *6. *-' ,)62',1' // ; =' =65*.' 8 ,)' . ; >)' =6,>) 81-9 ' 620',1' D*' 6.' *2, -*/ ' 521-62,' 1 ',)*' 26, ; -*' 1 ' >1?^ ?*2,6- '6.' D* 1-*% ()*' 2,*// 5*2,' -*60*-' 8 // D*' 2^ >/ 2*0',1' .6 ' &) 6,' ?6,,*-.' ,' ,1' ?*' 8)6,' ,) .' -6DD ')6.' .6 0 ' 1-' ,) 6,' 01>,1-')6.' .,6,*OH' '6?' 62L 1 ; .' ,1' 9218',) ,)*' , -; *' .*2.*' 1 ' ,)*' >- =, ; -*. ' 620' 21,' ,)*' +6^ - 25' 1= 2 D2.' 1 ' ?*2' >12>*-2 25',) *?%' ,' .' 6' 81-9' 1 ' . ; =*-*-156, 12',1' >1//*>,'6' ? ; /, , ; 0*' 1 '6221,6, 12.' -1?' +6- 1; .' .1; ->*. ' ?1.,'1 '8) >)',)*' 20; ., - 1 ; .'>1/^ /*>,1-' 9218 .',1' D*' ?=-1D6D/*' 1-' *--12*1; .% ,' .' 1// ' ,1' 600;>*' 620' >1?D6,' 2,*-=-*,6, 12.' -1?' 8) >)' ,)*' >1? ?12' .*2.*' 620' . ?=/*' = *, ' 1 ' ,)*' ; 2.1=) ., >6,*0' -*60*-' , ; -2' 6&6 ' 8 ,)' 2., 2>, +*' 6+*-. 12% '=/6; ^ . D/*' + *8 .' D*' ..6,*0 ' ,)* ' .)1; /0' D*' ,)1-1 ; 5)/ ' 626^ / [*0% ; ,' 2' 6// >6. *.' ,)*' - 5), ' ?*62 25' 1 ; 5), ',1' D1' 6' =-1? 2*2,' ,) 25' 8 ,)' ,)*' >1? ?*2,6,1-' 620' =-1? ^ 2*2,/ ' .)1; /0' ,' D*' ?62 *..*0' . ; --1 ; 20*0 ' '=1.. D/*' 8 ,)' ,)1.*') ; *.' 8) >)' : *6+*2' , ..*/ ')6.' 5 +*2' , '620' _ ; 6/ *0' D ' . ; >)' > ->; ? . ,62>*.' 6.' ,)*' D/*' ?6 ' ; -^ 2 .)%

3N% 21,)*-' 0* *>,' >12. .,.' 2' 08*// 25' 12' " ' ' 620' +*60 25' " ' '% f () .' *6, ; -*' D*^ /125.' *.=*> 6// ' ,1' ,)1.*' 25/ .)' >1? ?*2,6- *.' 8) >)' 6-*' ?1.,' >; --*2,' 6?125' ; .% '6' .*- *.' 1 '6==*20*0' -*?6-9. ' =/6 2' .,6,*?*2,.' 6-*' *L=620*0' D ; ' 8)*-^ *+*-' ,)*-*' .' 6' -*6/ =*-=/*L , ' ,' .' 5/1[*0' 1+*-' 8 ,)' ?6-+*//1; .' ; =*- > 6/ ,A% ,' ?6 ' D*' ,)6,' ?; >)' ' 7 0' ' , ' D ; ,' *, ' ,)*-*' .' 21' =*2*,-6, 12' D*2*6,)' ,)*' .; - 6>*[' 620' 8)*2' ,)*' -*60*-' 6.9.') ?.*/ ' 8)6,' .' ,)*' ,-; *' ?=1-, ')*' 20.') ?.*/ ' 2' ,)*' .1?*' .,6,*' 1 ' 521-62>*' 6.' 8)*2')*' -.' ,119' ; =' ,)*' 1?*2,6- ' 2' _ ; *., 12% 1; .' -* /*>, 12.' 620' ? ; /, ; ; 0 21; .' 2 *-^ *2>*.' *2,*-'/6-5*/ ' 2,1'1 ; -'=1=; /6-'D119.'1 '*L=1. , 12% ()* ' .= - ,; 6/ [*' D ; ,' ,)* ' 01' 21,' *L=1; 20% ()* ' .*-?12 [*' ; =12' 6' D119 'D ; ' ,) * '01' 21,' >6,>) ' , .' .= - ,' 1-' >1?=-*)*20' , .' ?*62 25% &)*2' 6' 8-, -*-' ; 20*-^ ,69*.' , 1' *0 ; >*' 620' *L) D ' ,)*' ,-; *' .*2.*' 1 ' ,)*' D/*')*' .)1; /0' 21,'5 +*' 1-,)') .' 182' ?*0 ,6, 12. ')18*+*-' A ; .' 620' =-1=*-' 2' ,)*?.*/+*.% ; .' 2' ,)*' -11?' 1 ' % 1' ,)* ' 6-*' 8)1// ' 1 ; .' 1 '=/6>*% ()*' . ?=/*' =1-, 12.' 1 ' ,)*' D/*' 6-*' =-*> .*/ ' ,)1.*' 8) >)' -*_ ; -*' / ,,/*' , 1' D*' .6 0' 12',)*?778) /*,1' ,)*' ?1-*' 0 >; /', . ; ^ =*-/6, +*' 6,,*2, 12' .)1; /0' D*' =6 0% ; .' ,)*' -*+*-.*' 1-0*-' 1 '=-1>*0 ; -*' .' 1//18*0' D '1 ; -'=1=; /6-'>1? ?*2^ ,6,1-. ' ()* '= 1 /./ ' 0*.>62,' 12' 8)6,' .' 8*// 92182' /*6+ 25' ,)*' -*60*-' 2' 06-92*. .' 8)*-*')*' ?1.,' 2**0.' 6.. ,62>*% ' ,,1 ' .% +%

% '+*- ' >1? ?12' 6 ; /, ' 8 ,)' ?10*-2' >1? ?*2,6,10*' *>,.' 6-*' 2 ; ?*-1 ; .% ()*' = 1 ; .' 6 ; ,)1-')60' 12/ ' 6' .' ,)*' 6,,* ?=, ,1' 51' 1+*-' ,11' ? ; >)' 5-1 ; 20' 1 ' , *L, ' 620' =6-, 6/ 6>_ ; 6 2,62>*' 8 ,)' ,)*' 1- 5 26/% : *' 86.' -*^ ,) ; .' 01' ,)*' 8)1/*' 81-9' . ; =*- >6/GE!')/62 ' 6-*' 6?^ ?6-96D/*' 2* ,)*-' 1-' =-1 ; 20 , ' 21-' 6>; , *2*..% *, I' D , 1 ; .' 1 ' 8-, 25' 6' >1? ?*2,6- I12' ,)*' 8)1/*' D/*')*0 ,)60' = *, ' 620' 5110' .*2.*' 6?6[25' 20 ; .,' 620' 1 ' ,)*' >-=, ; -*.' 6.' 6' 8)1/*' 620' ,)*2' 8 ,)' 5-*6, ' 0*^ 62' *L, *2. +*' 9218/*05*' 1 ' ,)*' 1/0*-' >1? ?*2,6,1-. % / D*-6, 12' 620' =6, *2, ' . ; 0 ' 620' D6/62> 25' 1 ' +6- 1 ; .' 1// ' 11P$ % ' P' M 1/% ' +1/7% 2' ' 120% + *8.' 620' >12 / >, 25' 1= 2 12. ' =-1>**0' . ,*=' D ' . ,*=' SSRC S' 620' .*+*-6/ *0 % . 2>*' ' D*. ,' *0%D ' *; .0*2' 2+*., 56, 12',)*2 .*/+*. % ()*' >1? ?*2,6,1-' .)1; /0' $/,-% SQ X% ' 2',) ./6-5*' 81-9 ',)*' 8621,6, 12.' 1 '6' >1?*' ,1') .' 81-9' 12/ ' 6 ,*-' 6' /125' 620' ?6, ; -*0' . ,; 0 ' 5-*6, ' 2 ; ?D*-' 1 ' ,)*' 1/0*-' >1? ?*2,6,1-.' 6-*' >1//*>,*0' 1 ' ,)*' >-=, ; -*.' 6.' 6' 8)1/*' 620' ,)*2' 8 ,)' 5-*6, ' 0*^ 620' >120*2.*0' ?62 ' 1 ' ,)*?' -1?' ,)*' ., // ?1-*' *L^ / D*-6, 12' 620'=6, *2, ' . ; 0 ' 620' D6/62> 25' 1 ' +6- 1 ; .' ,*2.+*' >1//*>, 12' 9218?' 6.' ,)*' $ % M 1/% ' +1/7% 2' ' 120% + *8.' 620' >12 / >, 25' 1= 2 12. ' =-1>**0' . ,*=' D ' . ,*=' *0 ,*0' D ' =% *6-.12' 620' 1,)*-.' MKO' *0 , ' 8 ,)' , 81' 1-' 620' 2+*., 56, 12.' % *2>*',)1.*' 6221,6, 12.' 6-*' 6/^ .; ==/*?*2,6/ +1/.% -> ,% 6% < % SRSC R' +1/.% 1/% % 620' =1>-% 2') .' ,%%1' 6/.1' O*0% < 110 ' 120% K ' K' ; ' ,) * ' 6-*' .*/01?' . ,*0' 620' >- , > .*0' .1' ,)6,' ,)*' +1/.% ,1X% ' () .' +*-E7 /*6-2*0' 8 -, *-' 2+*., 56,*.' ,)*' 20' >1?=6- .12.' 620' -*.*6->)*.% 1?*2,6- *.' / ,*-6/' .*2.*' 1 ' ,)*' >- =, ; -*.' 8 ,)' 5-*6, ' 0 / 5*2>*' 620' 8-, ,*2' , 1' 1-0*-J')6+*' 6/?1.,' 2+6- 6D/ ' D**2' .; >/6.. ' 12' ,)*' 6-*' 8)1-' 6?125' ,)*?' 1-') ?.*/ % 81-,) ./>/6.. ' 12' ,)*' D/*' %601=, 25' . ; D . , 62, 6// ' ,)*' >- , ^ QN% 6-, % +% % & *' .)6//D- * / ' ',)*' =- 2> =6/ 81-9.' 12' *2, ' 86.' .1; 20' -*' -1?' =-*A ; 0 >*' 620' / D*-6/' D*^ ,) .' >/6.. ' 12' ,)*' D/*' %601=, 25' . ; D . , 62, 6// ' ,)*' >- , ^ 120',)*' 65*' 2' 8) >)') *' / +*0% .' 6' >1? ?*2,6,1-

> . ? . ' 12' ,)*' 1/0*-' >1? ?*2,6- *.' 1; 20' 2' ,,1 .' C % ' .% +%% % ;>)' 6.' 6-*' ?1.,' 6>>*.. D/*' D ')6+ 25' D**-' & (, C ,*2' 2' 6 "' 1-' '1-' , -62./6,*0' 2,1' 12*' 1 ' ,)1.*' /625; 65*.% M **' 6' .*/*>,' / .,' 1 ' ,) .' 9 20' 8 ,)' >- , ^ > . ? . ' 2',)*' ; ==/*?*', 1' B*29. .' % " ' =M !(8' 1 M %X' B% 6/+ 2' ((*,>% 2') .' L%%!' , -62./6,*0' 0 2D% Q C ' 7' +1/.% Q+1X% ' 2' 6/A',)*') 5)*-' _ ; 6/ >6, 12.' 1 '6' >1? ?*2,6,1-' 6/+ 2' .' =-*^ *? 2*2,% : .' 9218/*05*' 1 ' ,)*' 1- 5 26/ /625; 65*.' 86.' 21,' .1' 5-*6, '6.' ,)6, ' 1 ' ?62 '/6,*-' *L=1. , 1-. ' D ; ' 2' 0*+*/1= 25' ,)*' ?*62 25' 1 ' ,)*' .6>-*0' 8-, *-.')*')6.' *8' *_ ; 6/.% , ')6.' D**2' 8*// -*?6-9*0' ,)6, ')*' >) * / ' 6, ,*20*0' , 1' ,)*' 1 '>1? ?*2,6-E!% : *' =1.^ .*..*0' . 25 ; /6-' 6>; , *2*.. ' ; 2 , *0' , 1' 6' 0**=' 6>_ ; 6 2, C ' 62>*' 8 ,)I,)*') ; ?62') *6-, ' 6' >1?=-*) *2. 12' 1 ' ? 20' D ' 8) >)') *' 86.' 6D/*' , 1' . ; -+* ' ' -*+*/6, 12' 2' 6// ' , ' *6, ; -*. ' 620' 62' *2/ 5), *2*0' ; 20*-. , 620 25' >1? =*, *2, ' , 1' =*->* +*' .1; 20' *L*5*, >6/=- 2> =/*. ' 620' -*.1/; , *' 2' 60)*- 25', 1' ,)*?% : *' >62' 2*+*-' D*' >12. ; /, *0' 8 ,)^ 1 ; ' 60+62,65*' 6/,)1; 5)' 6//) .' 1= 2 12.' .)1; /0' 21,' D*' 1//18*0' *.=*> 6// ' ,)1.*' ,)6, ' -*. ; /, ' -1?') .' 01>, - 2^ 6/ =-*=1. .*.. 12.% MK%X' (% *[6' M (*. V% (>% .> 1H% (-*?*// ' *, B ; 2 ' =1>-% >% "' B ; 2 ' *, ' % (% >% ' *[. *.' 1// 4*C 2*+% C R' *20% RN' 620' 1 , *2T ; ' "' & = (((' 1//% 4*2% CK' 620' 1 , *2X% ' *[6.' , 6/^ *2, ' 6-*' .**2' , 1' 5-*6, ' 60+62,65*' 2' *L=1; 20 25',) *' 6-5; ? *2,6, +*' =6-, ' 1 ' ,)*' D/*% : *' =1. . *. .*0' ? 62 ' 1 ',)*' D*. , ' *L*5*, >6/ _ ; 6/ , *. ' 8) >)') 6>, *- [*0' D . ' 5-*6, ' ?6. , *-% 2' , -6> 25',)*' >122*>, 12' 1 ' 12*' =6-, ' 8 ,)' 621,)*-' 620' ,)*' .; >>*.. +*' . ,*=.' 1 ' 62' 6-5; ^ ? *2, ') *' 0 .=/6 .' ? ; >)' 6D / , % : ' . ' 6>; , *2*.. ' 620' /*6-2 25' 8*-*' >12. 0*-6D/*% : *' 86.' D*, *-' 6>_ ; 6 2, ^ *0' 8 ,)' " ' " ' ,)62' " ' ' 1 ' ,)*' *8' (*.^ , 6? *2, % M5%X' : ' : 6? ? 120' %" ' '& P(12',)*' % (% ' 120% S N' D*.' *0% KT' 12',)*' .6/?. ' 2') .' ' +1/.% 1/% CQ X% ' ( ) .' /*6-2*0' 62^ 21,6,1-' 86.' 8*// _ ; 6/ *0' 1-' 2,* 7=-*,6, 12' 620' ?62 ' 5110' .=*> ?*2.' 1 ' >-, ? .?' 6-*' 1; 20' 2') .' 21,*. % *, ') *') 6.' 21,' *2,*-*0' 0**=2 ' 2,1' ,)*' .= - , 1 ' ,)*' 1- 5 26/ ' 1-' 0*+*/1=*0' 8 ,)' ; 2 1-?' .; >>*.. ' ,)*' ?*62^ 25' 1 ' ,)*' 2.= -*0' 8-, *-.% < 62 ' 1 ' ,)*' ?1., ' 0 ^ >; /, ' =1-, 12.') *') 6.' . ; =*- > 6// ' *L6? 2*0' 1-' 8) 1// ' ? .,69*2% M %X' <% 11/*' & P' 12',)*' 8)1/*' D/*' 120% K' +1/.% 1/% ' 620' D* 1-*' D*., ' *0% 120% Q N' +1/.% Q+1X%C7 11/*.' 6221,6, 12.' 12',)*' : 1/ ' D/*' >12,6 2' .*+*-6/ +6; 6D/*' A ; 0 > 1 ; .' -*? 6-9.% ; ',)*' -' =6-, 6/ 6>_ ; 6 2,62>*' 8 ,)' ,)*' 1- 5 26/% : *' 86.' -*^ ? 6-96D/*' 2* ,)*-' 1-' =-1 ; 20 , ' 21-' 6>; , *2*..% *, I') *') 60' = *, ' 620' 5110' .*2.*' 6?6[25' 20 ; .,' 620' 62' *L, *2. +*' 9218/*05*' 1 ' ,)*' 1/0*-' >1? ?*2,6,1-. % 1//' 11P$ % ' P' M 1/% ' +1/7% 2' ' 120% SSRC S' 620' .*+*-6/ *0 % . 2>*' ' D*. ,' *0%D ' *; .0*2' $/,-% SQ X% ' 2',) ./6-5*' 81-9',)*' 8621,6, 12.' 1 '6' 5-*6, ' 2 ; ?D*-' 1 ' ,)*' 1/0*-' >1? ?*2,6,1-.' 6-*' >1//*>, *0' 620' >120*2.*0' ?62 ' 1 ',)*?' -1?' ,)*' ., // ?1-*' *L^ *0 , *0' D ' =% *6-.12' 620' 1,)*-.' MKO' *0 , ' 8 ,)' , 81' 1-' 620' 2+*., 56, 12.' % *2>*',)1.*' 6221,6, 12.' 6-*' 6/^ .; ==/*?*2,6/ +1/.% -> ,% 6% < % SRSC R' +1/.% 1/% % 620' =1>-% 2') .' ,%%1' 6/.1' O*0% < 110 ' 120% K ' K' ; ' ,) * ' 6-*' .*/01?' . ,*0' 620' >- , > .*0' .1' ,)6, ' ,)*' +1/.% ,1X% ' () .' +*-E7 /*6-2*0' 8 -, *-' 2+*., 56,*.' ,)*' 20' >1?=6- .12.' 620' -*.*6->)*.% 1?*2,6- *.' / ,*-6/' .*2.*' 1 ' ,)*' >- =, ; -*.' 8 ,)' 5-*6, ' 0 / 5*2>*' 620' 8-, ,*2' , 1' 1-0*-J')6+*' 6/?1.,' 2+6- 6D/ ' D**2' .; >/6.. ' 12' ,)*' 6-*' 8)1-' 6?125' ,)*?' 1-') ?.*/ % 81-,) ./>/6.. ' 12' ,)*' D/*' %601=, 25' . ; D . , 62, 6// ' ,)*' >- , ^ 120',)*' 65*' 2' 8) >)') *' / +*0% .' 6' >1? ?*2,6,1-

)*' 86.'0 ., 251 .)*0' 1-') .';2 1-?/ '5110'.*2.*% ,');,')*')60'62'*L>*//*2,'A;05?*2,'620'6'>6/?'>6201-'
)6.'D**2' .6 0'8 ,)1;,'-*6.12',)6,')*' 1;20')- .,'21^ 1'2_; -A% : .'=6-6=)-6.*'/*6+*.'?;>)';2*L=/6 2*0'
8)/*' 2',)*' /0'(*.,6?*2,% ,'.',-;*',)6,')*'1=^ 8)/*-*' 2',)*' /0'(*.,6?*2,% ,'.',-;*',)6,')*'1=^ =1.*0',)*' 1>>* 6 '?*,)10'D;,' 2',) .')*'86.'1 ,*2' , >6/'1D.*-+6, 12.'6-*' *L>*//*2,% ()*'21,*.'6-*' *8'
>1--*>,% : .'>) *'0* *>,' .' 2' % ' ! 620'1-0 26- / '>1--*>,%%
': *2>*')*'-*.,.' 2',)*'/,*-6/?*62 25' 2'?62 '>67*.' K % ()*'21,*.'6-*' *8'
8)*-*',)*-*' .'6') 5)*-'1-',*- 1-' * *-*2>*% 120% SRK'620'1,* ' . 2>*T 120% Q 'S'+1/.% ,1T
MS%X'B%' *' /*->' (%>% %" ' =
1.,% QK 'S'+1/.%Q+1X%' ()*'=-*+6 / 25'>)6-6>,*- .,>'
21 J'*,>% '+1/.% 1/% ?.,% '._%X%' L>*//*2,'21,*.' 1' >1,,.'>1?*2,6- '.'A;0>1;.2*..' 2',)*'1= 2 12.'
6-*' 2,*-.=*-.*0',)-1;5)1;',)*'>1?*2,6-*.'1',) .' 60+62>*0% ()*'5-*6,*-'=1-, 12'1',')18*+*-' .'21,'
6;,)1-'M) .'81-9'D '6'. ?/6-',/*'12',)*' %('86. % % ! 620'=6-6=)-6.*.',)*'1-526/% : .'. ?=/>, '1'=;-^
D6.*0';=12',)6,'1':6?*120'K'+1/.% 2' '1/% ?.,% =1.*'5*2*-6// '=-*.*-+*0')?' -1?' ?.,69*.'D;,'6.'
SRRX% : .'A;05?*2,'86.'5110 620') .'?10*'1'2^ 6'>1?*2,6,1-')*'86.'2*,)*'6>;,121-'/*6-2*0% ' :*'
,*-=-*,6, 12'=*-.=>;1;.% -1?') .'->)/ C.,1-*0'? 20' 862,*0'6'>1?*2,6-'(>)18*+*-'8)>)'86.',)*>)*'/,-*6-'
)*'>1;/0'*6. /'0-68' //;.,-6, 12.'1',)*' D/*' D1,)' /6D1-'1'D./'*' .'-*=/*,*' 8,)' =-1 1;20'620'+6-*0'
=*-,)*2,'620'A;.,% *',)*'86.'+*- '0* *>, +*' 2',)*^ ,)6>;,)18*+*-'8)>)'86.',)*>)*'/.*-6-'
1/15 >6/0.>- ?26, 12% : *2>*' 2',)*'% %" '620' 1;.,)*'1;2.6, .6>,1- % ,')6.'D**2' /6D1-'1'D./'*' .'-*=/*,*' 8,)' =-1 1;20'620'+6-*0'
'D119.')*' .';2.6, .6>,1- % ,')6.'D**2' ,)1;5),'21,'6, 2,1' 6, 2'8,)',)*' 'D'B%' %'<62.*' 862,*0'6'>1?*2,6-'(>)18*+*-'8)>)'86.',)*>)*'/.*-6-'
R+1/.% ,1'& ->*D% QRX% ' 6/?*,'.'=*-)6=.',)*'?1.,' 6-*' 2*+*-',)*'1;20'620'+6-*0'(*.,6?*2,'M ' =,.% 2'KN+1/6%Q+1' =[% R' 5_%T(''E (% '-*06>,6 J'D' *>D2*,' '+1/6'
0..,25; .)*0'>1?*2,6,1-'12',)*' D/*'D*/125 25',1'6'5110'>1//*>,12'1') .,1- >6/'?6,*- 6/.' Q+1X%' ()*'/6.,'*0 , 12.'*.=*>6// '6-*' ;2_,'*., 1/6'
620'=-*.*2,.7,)*'?*62 25'1',)*' 1- 5 26/8)*-*[' ,' 1'620'-*2,6/;,)1-.'6-*' 6D;2062,'620';.,6// '6=,' 1')5)'+6/,'*% ()*'D- 25',15*,)*-'6'?6..'1'6221^
6/-*7'=/6 2T D;,') .') .,1- >6/'6==6-6,;.'2**0.',1'D*' ,'-*?6-9.'2'+ 20>6, 12'1',)*',-;,)'620'>12..,*2>' ,6, 12'.;>)'6.'.';>*2,',1'.6, . ',)*'0*. -*.'1'?16,'
=1>-%'S+1/.% ,1' 120% QKK' '+1/.'Q+1')/6% 620' 1'>1?*2,6-'(>)18*+*-'8)>)'86.',)*>)*'/.*-6-'
?*2,.'D*/125 25',1'6'5110'>1//*>,12'1')1=' 6,- >9')60'?62'1',)*' */*^ D/*'D*/125 25',1'6'5110'>1//*>,12'1')1=' 6,- >9')60'?62'1',)*' */*^
/1.1=)'),)*'86.'6'?6.,*-% 2'>- , >6/'*/;>06, 12.'1',

:*D-*8.7*L) D ,',)*') 5)*.,'*L*5*, >6/'*L>*//*2>*.%&) /*') *>-, >6// ' 2+*., 56,*.'=)-6.*.'620'0 1?.')*6.>*20.' 2,1',)*'=;-*'-*5 12'1',)*' 0*6.';2 1/0 25',)*.*2.*' 8,)' ?';>)' .9 //' 620'0D>*-2?*2,% : .' >1?^??*2,6-'12'B1)2' .'1'6'?1-*'=1=;/6-'>6.,% : .' 2^,*-=-*,6, 12' 1',)*' ; % 1 1' 1-' *-?12' 12',)*'<1;2,' .'+*- '+6/;6D/*% ()6712',)*' .6/?.' .'/*..')1-1;5)% M 1-',)*'*0 , 12.' .*'*6>)'1',)*.*'D119.'2',)*-='/6>*%X

M %X' % &% :*25.,*2D*-5% '7().'8-,*-' .',11'62> ;/2') .'*L*5*. .',11'6-D ,-6- ?2') .'=) /1/15 '620',11'*L,-*?*' 2'D .', *1/15 ',1'D*' ;// ',-;.,81-^,) '60'6'>1?2?*2,6,1-T *,') .'*L=1., 12.'1',)*.6/?.' >>/*. 6.,*.' *+*/6, 12'*,>%'?6 'D*'>12.;/,*0'8,)' 60+62,65*' ';.*0'8,)' >1?=6-.12'1'1,)*-6;,)1-.%

M Q%X' %: *20*-.12% '7() .'>1?2*2,6,1-.',-62./6^,12'620'21,*.'12',)*' < 21-' -1=)*,.'6.'8*//6.' .6^6) 'B*-*?6) '620' [*9*/'6-*' 60?-6D/*' .=*> ?*2.'1'.1;20'/*6-2 25'5110'A;05?*2,' 620'*+625*/>6/= *, % ()*-'12/'6;/,' 2',)*'*L=1., 12' .'62'*L>*..C7+*'/*62 25',1'/,*-6/.?%

M R%X' % 6-2*.% ' () .'.*- *.'1'7 '12',)*' *8'(*.,%M % % K'+1/.' K?1T *20' Q C KX'620'=1-^,12.'1',)*' /0'MB1D' .6 6)' 62*/X')6+*')60'6'=1=^;/6-,'8)>)'.)18.',)*-'606=,6, 12',1'6)''L*,2.+*'862,% ()*'6-*'.?=/*'/;>0'620'=-6>,>6/'620'8-,^,*2'8,)',)*'6;,)1-.'.)6== '/18'1'., /*'620'6-*'?6-9*0'D'5*2; 2*'.=-,;6/, T D;,',)*'6-*'21,')>)6-^6>,*- [*0'D '>-, >6/'1-'*L,*2. +*'/*6-2 25%

MK %X' % /*L6 2 0*-% ' ()*'21,*.' 1',) .'*?^2*2,'.>)1/6-'12' .6 6)'6-*'6',)1-1;5)'620'8*//C0 5*.,^*0'=-10;>, 12% :.'>1??*2,6-*.'12',)*' .6/?.'620')..,1->6/D119.'1',)*' %0 ')18*+*-'6-*',11'=1=;/6-',1'600'62 ,) 25',1') .'-*=;,6, 12%

MK %X' % (' ; 21/% ' ()*'>1??*2,6-*.' 1',) .'8-,*-'*.=*> 6// '12',)*'41.=*/.'620' >,.'M 2' 6, 2'D*.,'*0% 12012' QN ''N'+1/.%Q+1X'6/,)1;5)'.,-125/',2>,;-*0'8,)'-6, 126/.?'6-*' 6?125',)*'D*..'>-,^>6// '620'=) /1/15 >6// '>12. 0*-*0'*L,62,% *6-2^25'6>;,*2*..'620'>6201-'6-*'*+*-A8)*-*'6==6-*2,%

MKK%X' 4% ;.)% ' () .'6;,)1-.'6221,6, 12.'12'.*+^*-6/'1',)*' -.,'D119.'1',)*' (%'6/,)1;5)'2,*20*0'1-'=1=;/6-';.*'6-*' 5*2*-6// '>)6-6>,*-[*0'D'5110'.*2.*'5*2; 2*'/*6-2 25'620'=1;.'.*2, ?*2,T 620'6-*',)*'?1-*'+6/;6D/*'6.'D*75'2*6-/ ',)*'12/ '5110'>1?^?*2,6- '12',)*.*' =1-, 12.'1' >-=,;-*' 6+6 /6D/*',1',)*'>1?2?12'-*60*-%

MKN%X' <% ,;6-,%' : .' >1?2*2,6-*.' 12' 1?62.':*D-*8.' 62*/' *+*/6, 12' -1+*-D.'620' >>/*.^6.,*.'6/D*,'-6,)*-'0 ;.*'620'5-6?2 6, >6/'6-*' *,'1'5-*6,'+6/;*' 1-',)*-'*?2*2,'>6201-'>6-* ;/2+*.^, 56, 12'620'5*2*-6/6==-*)*2. 12'1',)*'5*2 ;.'620'.>1=*'1',)*'8-,*-.% (1',)*' 1;25'.,;0*2,'*.=*> 6// ',)*'*6-*' 20.=*2.6D/*%

MK %X' % (% /11? */0%() .'6;,)1-.'>-, >6/'MQ'+1/.%Q+17 120% QKSCQX'6.'8*//6.')'.'1?^?*2,6-'M *20% QN'._%K'+1/.%Q+1T) /6% QNSX'620',' ;==/*?*2,'M 12012' Q '+1/%Q+1X'6//12',)*'(%'5+*'+*-'?;>)'.1;20'620'A;0>1;.'*L=1., 12'620')6+*',)*'60+62,65*'1'=/6> 25'D* 1-*',)*'-*60*-',)*+*8.'1'*6-/*-'2,*-=-*,*-.% & ,)1;,'62'5-*6,'6,,*?=;'6,'1-5 26/, ',)*-*2'5*2*-6// '6'>6-* ;/. ,^25'1'1= 2 12.'620'D6/62> 25'1'6-5;?*2,.',)6,'?69*')'.'>1?2?*2,.'12',)*8)1/*',)*'D*.,'.A721=.'.'1'. ?^=/*'*L*5*. .' *,'=-10;>*0%

MK %X' :% / 1-0'M 4-% - '8,)'>-, >6/'6==6-6^,;.'620'21,*.' 120% Q NCS ''+1/.%Q+1T +1/%' % % Q RX% '() .'.>)1/6-/'*0, 12'1',)*'4-**9'(*.,'>12^,6 2.'6'>-, >6// C-*+ .*0',*L,'6'>1=1;.'*L) D ,'1'+6^-1;'-*60 25.'+6/;6D/*'=-1/*51?*26'620'6'.-*-*.'1'626/A, >6/'=) /1/15 >6/'620'*L=1. ,1-'21,*.% ()*-*'.'21,'?;>)'.,-> ,/'2*8' 2'62'1',)*.*'0*=6-,?*2,.'D;,'6'>12+*2*2,'6..*?D/65*'1'?6,*-6/.'21,';.;6// '6>>*..D/*% ()*8)1/*'.'8-1;5),'1;,'8,)'5-*6,'06-*620'/*6-2 25'620'=-*.*2,*0'2',)*'?1.,'>120*2.*0'1-?% '+*-'.*-1;.'0-68D6>9';=12',.'+6/;*')18^*+*-'.'/*/6, ,;0 26-62.?'*+0*2,'2',)*'6;,)1-.'=)1/15 >6/'1-'=*-)6=..'-6,)*-'>)-?*2*;,>6/'=-2>^=/*.'8)>)'/*60.'!)?'2'+*-''?62'0 >;/,'=6..65*.'-6,)*-',1'6--6',)*'.6>-*0'6;,)1-.'656 2.,'12*'621,)*-',)62',1'-*>12>/*',)*-'6==6-*2,'0.>-*=62>*.%$2^0*-'6--1562>*'1'.;=*-1-'')12*., J')*',11'1,*2'0*^>/2*.',)*'=-?*,6.9'1'62'*L=1..,1-'D'=-121;2>250 >;/,*.'2.1/;D/*% ()*'>-, >6/'6==6-6,;.'.'=*-C+;0</D',)*'.6?*'.;DA*>,+*'=-1>/+, '2.1?;>)',)6,',)*'8-,*-')6.')?.*/'12>*'1-',8>*'>1?=/*,*/'/,*-6/?*62 25%

MK %X' B% % & 1/'M ' 1' 2' %(%J''+1/.%',1'6^./% X% '() .'6;,)1-'6/,)1;5)'.1?*8)6,'1/0'0*^.*-+*.'*.=*> 6/21, >*' 1-') .'+6/;6D/*'?6..'1'.1;20'6221,6, 12.%

. 0.',)*'6D1+*',)*' 1//18 25' 25/.)'>1??*2,^6-*.'12'=1-, 12.'1'>-=,;-*'6-*'*2, ,/*0',1'=6-, >;/6-'?*2, 12' 2>/;0 25'.*+*-6/4*-?62'81-9.'=-*.*2,*0'2'62' 25/.)'0-*..'D',)*'=;D/.)*-.'4/6-9'1'0 2^D;-5)'M+6/;6D/*600, 12.',1'1;-'/,*-6,;-*',)*.*'/6.,'D;,'.60/''2'2**0'6.'6'5*2*-6/,) 25'1'A;0>1;.'*0,^25X'620'.1_7'-*=- 2,*0'2',)'.'>1;2,- a (-*2>)'12',)*'<-6>/*.'620' 6-6D/*.T ,*-'12',)*'8I1-0.'1'-.,T ,,1.' ';' 620'' ;' ' =' # T 12 D*6-*'620':18.12.' ' '6* ' X2' :'&6,.12'12'<6,,'620'.1?*1,)*-'=6-,.'1',)*' %(%T *25*/'12',)*' %(%T 6;?56-,*2'12',)*'0>,.T 60*'12'.*+*-6/1',)*' 6;/2*'*=..,/*.T :1-./*'12':1.*6T // 1,,'12' *+*/6, 12T 18,)'12'.6 6)T &*C?..'620'-'12'B1D T // >1,,'12',)*'=6.,1-6/*=../*.T 4110'12',)*' .6/?.'620' 62, >/*.T ,*5*-'12',' *^,*-T $?D-*,'12'B1DT //-1,)'12' 1-2,)62.T (,,C?622'12'B1)2T 5), 11, .'# '# " I :' */>2'B1.),)6'620' 25.T ;D*-/*2'12' 62*/T 6/.>)'12'4*2%620' L10%T ,62/*'12' 1-2,)62.T B18*,'12'.*+*-6/1' 6;/.'*=..,/*.T 4 2.D;-5'12' 62,'620'>>/*.%T) // =.'620' *' ;-5)'12',)*' .6/?.T <6>C/*62'12' :*D-*8.T -*..,12'12' >>/*. 6.,*.'620'?62'' 1,)*-.'8)>)'.=6>*'01*.'21,'=*-?,';.')*-*',1'*2;?*-^6,%' ()*-*' 6-*' >1??*2,6-*.' 12',)*`*2,-*' $*'D'4-0/*.,12*'&*//D*/1+*0'&*./*' 19*' *2.*2'1DD2' ;,>/ *'620'1,)*-.T 12',)*' *8'(*.,'D'6L,*-' ;-9,,'4//*.'(-1//1=*'620'1,)*-.T 12',)*'41.=*/.'D'#;*.2*/'6?=D*//' 1-,12' /*'620'1,)^*-.T 12',)*' =./*.'D'<6>92 5),' /*'620'1,)*-.%()*-*' 6-*' 6/.1'.*-+ >*6$*' 6221,6, 12.'12'+6-1;'=6-,.'1' >-=,;-*'D'.*+*-6/1',)*' *6-/')-=>)'6^,)*-.'*.=*> 6// ' -5*2'B*-1?*'620')-A.1.,1?'M.*** 3'D',)*'?*0 +6/',)*1/15 62.'620'-*1-?^*-.'*.=*> 6// ' ;,)*-'620'62'6/?1.', 22;?*-6D/*.*^- *.'1'/6,*-'>1?2?*2,6,1-.'?1-*'1-'/*..'*L,*2.+*'.;>=*2,/'>1?=/*,*/..'1'8)>)'6-*'5+*2';20*-',)**6==-1=-6,*')*60.'2',)'>/1=A*0 6%()*-*'6/.1'L^.,'67'??*2.*'2;?D*-'1 6>60*?>6/0..*-,6, 12.'1'62'*L*5*, >6/')6-6>,*-'>)*/?D'4*-?62.'1-'#'>1?^?*2,6-*.'12',)*'8)1/*'B*8.)'>-=,;-*.'.**'L8 !

K% ()*'?10*?'?1'=-1/ >'6.',)*'6-*'2',)*1^/15>6/81-9.')6+*'.*/01?'+*2,;-*0',1';20-*'62'*L=1., 12'1',)*'8)1/*D/%6>)'8-,*-';,;6//'7>12 2*.')?.*/',1',)*'1?2?*2, 25'12'6'*8'D119.% 2',)'.',)*-*8 .01?'.'?62*.,*0% *,',)*'1-*'#'>1?^?*2,6-*.'12',)*'8)1/*'B*8.)'>-=,;-*.'.**' L '8 ! K% ()*'?10*?'?1'=-1/ >'6.',)*'6-*'2',)*1^/15>6/81-9.')6+*'.*/01?'+*2,;-*0',1';20-*'62'*L=1., 12'1',)*'8)1/*D/%6>)'8-,*-';,;6//'7>12 2*.')?.*/',1',)*'1?2?*2, 25'12'6'*8'D119.% 2',)'.',)*-*8 .01?'.'?62*.,*0% *,',)*'1-*'#'>1?^?*2,6-*.'12',)*'8)1/*'B*8.)'>-=,;-*.'.**' L '8 !

'5-6? ?6, >6/') .,1- >6/ '620'5*15-6=) >6/'6221,6, 12. ' 6.'6/.1' 2' . ;D,/*' .=*>;/6, 12.' -*.=*>, 25',)*'5*2 ; .' 1 ' ,)*', ?*.' 2'C8) >)',)*'8- ,*-.' 1 ',)*' D/*'/ +*0',)* ' 6-*' 6,')1?*% 2',)*' ' ' C8 // 25/ ' . ,' 6,',)* .' **,'620'/*6-2% ;,' 8 ,)'-*56-0',1',)*' >-' 2'6//,)6,'=*-,6 2.',1',)*' ' 1 '>1? ?*2,6- ' 2' 0*+*/1=?*2,' 1 ',)*' .*2.*' 2' ,.')1/ ' -*/6, 12. ' ,)*' 5-*6,' ?6A1- , ' 1 ',)*?'6-*'/6? *2,6D/ ' 862, 25% *^ 2*0'21, 12.' ; . ;-='*,)*'=/6>*' 1 '=-6>, >6/= *, ' 2',)* .' ? 20.'T 620',)*' ? 2;, 6*' 1 '+*-D6/*>-, > .?' ? .)' ,)*?'2;,-?*2,'6=6-,' -1?',)*'->)'-*=6.,'1',)*151^ >6/ .*2, ?*2,' 620'.62>, 25',-;,)% ;',)*-*' 6-* .1?*' 21D/*' *L>*=, 12. '.*+*-6/1'8) >)'6-*'0*. 526,*0' 6D1+*%

2*' 1',)*' ?1.,'>1?=/*,*' 620'-*>*2,' .*- *.' 1 '4*-C ?6 ,I>1? ?*2,6- *.'M6/,)1;5)' .1?*8)6,' ?*65-*' 2'0*C % ,6 /X' .' ,)6,' =;D/ .)*0' D ' : -[*/ M *=[5 ' Q C X' >12. ., 25' 1 '6') / " ' # " " ' 12' ,)*' /0' (*.,%' D ' : ,[5' : -[*/' ()*2 ; . % 21D*/' *-,)*6; ' 620'B%' /.)6;.*2' M 2' S'+1/.%Q+1X'T 12',)*' * 8' (*.,' D ' *' & *,,*' 8 ,)'600 , 12.' D ' -;>92*-' <*..2*-' 620' ;>9*' M 2' ' +1/.%Q+1X'T 12',)*' =1>C I- =)6' D ' -,[.>)*' 620' 4- ?2' M 2' ' +1/.%Q+1X%' ' ?1.,' >1= 1;.' 620' M 2',)*' 4*-?62' .*2.*X' +6/;6D/*' .*^ -*.' f.'6/.1',)*') "' " " ') ' 7 ' - ' D ' -%: % & %' <* *-' 620' 1,)*-.' M4 ,,%' 2' S'=,.%/6,*/ '>1?=/*,*0'8 ,)'2*8'*0.%1 ',)*' *6-/ *-'=1-, 12.X% 21,)*-'.',)*'6 E' # !'/ ' ; ' '&% ' $'D ' % .= 25' M<;2.,*-' : QX'T 620'., // ?1-*' 0*.*-+ 25' 1 ' 21,A=*' ' '# ' ; +# ' !'6 !' !' "!'& 'D ' ,, A +12' 4*-/6>)'MKO'*0% *-/% Q QX'T ,1'8) >)' ?6 ' D*' 600*0' ' '% + ' ; " ' ' ' ; ' + 'D ' :% 86/0'M41,,% QNSC ' '+1/.%Q+1X',15*,)*-'8 ,)') .' ' '6 '6 'M D O% Q 'Q+1X' $ " " ' ' 'M D% Q 'Q+1X' ' ; !' * "'M D' Q 'Q+1X' ' ' %" ' ' ' ; ' + 'M ,;,,5% Q K' K +1/.% Q+1X' 620' ' &% % 'M =.% QKQ' Q+1Xa' / 9*8 .*' % & % $?D-* , .' ' !' %" 'M : 62-1% Q KCS' '+1/.%Q+1X' 5 'M41,)6' Q S' Q+1X' 'M D' Q Q' Q+1X' $% " ' $ ' M D% QKS' Q+1X') " 'M D% QK ' Q+1X' 620' 2 "!' M D' QNK' Q+1X'T 6/.1',)*' # !' !' 6 !' !' &% %" 2' D ' 4% 1/9?6-'M(;D% QS '._%X% '2*8'.*-*.' 1 '>-,^ >6/ 620' *L*5*, >6/ >1? ?*2,6- *.' 1 '5-*6,' +6/;*' 2' 4*-?62' 12',)*' D119.' 1 ',)*' % (% .'6/.1' 2' =-15-*..' D ' *A ,[.>)'620' * / M =[% QS '._%X'C8) >)'8 //01;D,^ /*..' 2>/;0*',)*' .;D.,62>*' 1 ',)1.*' 6/-*60 ' =;D/ .)*0' D ',)*.*' C8-,*-.' 12' .*+*-6/ 1 ',)*' D119.' M4*2*. .' .6/?. ' 62, >/*.' : 6D699;9'B1.);6' 25. ')-12% .*=6-6,*/ X' ' .' 2'>1;-.*' 1 '=;D/ >6, 12' 2'62' 25^ /.)'0-*.I.'D ',)*' <*..-.% /6-9'1 ' 0 2D;-5)% B% % 625*'6.. .,*0'D '.*+*-6/*+625*/ >6/ .>)1/6-.' .'6/.1' ..; 25'60.>-*.' 1 '60? -6D/*' D1? /*, >6/ >1?^ ?*2,6-*'12%,)*'D119.' 1 ',)*' %620' % (% ' .'6/.1' 2'=-15-*..' D ' *A ,[.>)'620' * / M =[% QS '._%X'C8) >)'8 //01;D,^ /*..' 2>/;0*',)*' .;D.,62>*' 1 ',)1.*' 6/-*60 ' =;D/ .)*0' D ',)*.*' C8-,*-.' 12' .*+*-6/ 1 ',)*' D119.' M4*2*. .' .6/?. ' 62, >/*.' : 6D699;9'B1.);6' 25. ')-12% .*=6-6,*/ X' ' .' 2'>1;-.*' 1 '=;D/ >6, 12' 2'62' 25^ /.)'0-*.I.'D ',)*' <*..-.% /6-9'1 ' 0 2D;-5)% B% % 625*'6.. .,*0'D '.*+*-6/*+625*/ >6/ .>)1/6-.' .'6/.1' ..; 25'60.>-*.' 1 '60? -6D/*' D1? /*, >6/ >1?^ ?*2,6-*'12%,)*'D119.' 1 ',)*' % ?=-1+*0',-62./6, 12.' 6-*' 2' >1;-.*' 1 '=;D/ >6, 12' 2' ,) .' >1;2,- ' *0 ,*0' D ' -% >)6 ' M % % QS ' ._%X% & *,.,*) .' 7 ' - ' ? ' M ?.,% ' K +1/.% 1/%X'620' 4- 2 */0 .' : */*2 ., >'6 '620'$ " ' 12',)*' *8' (*.,% M 120% Q N' Q Q' ' +1/.%Q+1X' 6 ^ 1-0'?;>)'+6/;6D/*'=) /1/15 >6/*/;> 06, 12'1',)*',*L,% ;2.*2 .' ; + '218' 2' =-15-*..' 1 '=;D/ > ,12' M =[% Q Q' ._% Q+1X'6/,)1;5)' *>>*2,- >' 2' ?62 ' -*^ .=*>,.')6.'6/.1' ,.' +6/;6D/*' *L*5*, >6/ *6,;-*.' *.=*^ > 6// ' ,)*' 2*8',-62./6, 12'1',)*',*L,% 2' 600 , 12',1',)*.*' 4*-?62 ')6.' =-10;>*0' ?62 ' 1,)*-' .=*> ?*2.' 1 '>1? ?*2,6- ' ,)6,' 1>>;=' 6') 5)' =/6>*' 2',)*' *., ?6, 12' 1 ' >1? ?*2,6- ' ,)6,' 1>>=*,*2(;D5*. ' D;' ,' +1/% ,' 1'N QR7 -*?6 2' ;2,-62./6,*0%I' ?125',)*.*' 6-*' ;>9*' 12' B1)2.' 8-, 25. ' *.=*> 6// ' 2',)*' " ' *0 , 12'T 4*C .*2 ;' 12' .6 6)'T *' & *,,*' 12',)*' .6/?.'T -,[.>)*' 12' <6,,% ' <6-9'620' 1?%'T 6)' 12' 1/1.. 62.'T)/^ == '12' 1?62.'T /**9'12' :*D-*8.'T : ;= */0' 12',)*' .6/?.'T 4-6?D*-5' 12')-12 >/*.'T ;>9*-,' 12' 1^ ?62.' 620' 1- 2,) 62.'T /6,,' 12',)*' = ../*.'T *2C 5*-9*' 12' 62 */'T ,*-' 12' >,.' :*D-*8.'B6?*.'620' B;0*'T : /+>--%>9'12' [*9 */720' 62 */'T : 6-/*..' 12 =)*. 62.'T & 2*-'M 2' 6, 2X712'4 6/6, 62.'T >);/,*26' M 6,%X' 12'B1D' 620' -1+*-D.'T 620' (;>)' 12' 4*2*. .'T 8 ,)' 2;?*-1;.' 1,)*-.' 8)>)'=1..*..' ?;>)' ?*-,' 6>^ >1?=62 *0' ,' .' ,-;*' 8 ,)'.1?*' .*- 1;.' 6;/,.% -% 6.,'1' 2> 226, ' .'=;D/ .)25' 2',) .'>1;2,- '6'>1?C ?*2,*- '12',)*' *8' (/.,%' 2' 4*-?62' 12'62' *L>*//*2,' =/62' 1' 8)>)'62'*0 , 12' 2' 25/ .)' .'6/.1' ..;*0% N% (1',)*.*' ?6 'D*' 600*0',)*'& ' >1?? *2^ ,6- *.' 1' (;-2*-'12'4*2*. .' 1?62.'B1)2' =)*. 62.' 46/6, 62.'620' :*D-*8.'T :6>9*,,'12' >,.'T <11-*'12' :6556 'U*>)6-6)'620' <6/6>)'1',)*' 21,*.'1' 8*2' &)*012' =/* 'B6>1D;.' :105*'620'1,)*-.'12',)*' 41.=*/.' =.,/*.'*,>%'T 620'2;?*-1;.'1,)*-'/*..' ?^ =1-,62,'81-9.',)6,' ?5),'D*'.=*> *0'D;',8)>)'6-*' 5 +*2' ?1-*' ;// ';20*-',)*'-*.=*>, +*'D119.'1' >-=^ ,;-*% & *' _6 '6/.1'-* *-',1',)*' 21,*.' 6>>1?=62 25' ,)*'-*+ .12'1',)*' 25/% D/*'218' 2'=-15-*..'D ',)*' ?% D/*' $2 12'6.' ;-2.) 25'?;>)'*L*5*, >6/*/;^ > 06, 12% M **'6'>12+*2*2,'/.,'1'81-9.'?1.,' 6>>*.^ .D/*' 620';.* ;/ ,1' ?*-'>62' .,;0*2,.' 8 ,)'=-.>*.' 6,,6>)*0'620'A;0>1;.'=-6>, >6/) 2,.'12',)*'5*2*-6/ .;DA*>,'1 '6 0.',1' D/ >6/9218/*05*' 2',)*' " ' !'5 !' =-/' Q S'=%KQQCKR %X' 1,8 ,).,620 25' ,)*'6D1+*' .1?*8)6,'>1= 1;.',6,*?*2,' ,' ?;.,')18^ *+*-'D*' 60?,,*0',)6,' 6'>12+*2*2,'620'.6, .6>,1-' ?62;6/1'*L=1., 12'12',)*'*2, -*' D/*'606=,*0',1' ,)*'862,.'1',)*'=;D/>'2',) .'>1;2,- ' .',, // 6'0*^ .0*-6,;?% 3 ' ()*' 1//18 25' .'6')-121/15 >6/ >12.=*>,;.'1' =-1*..*0' 1?? *2,6-*.'12',)*'8)1/*'>6212 >6/ >-=I' ,;-*.'M*L>/;.+*'1'?*-*/' ?=-1+*0'+*-.12.'1-'*0^ , 12.X'6.'>1?=/*,*'6.'8*')6+*'D**2'6D/*',1'?69*',% 1-',)1.*'>1+*-25',)*' /0'1-',)*' *8' (*.,6?*2,' 6/12*'.**;20*-',)1.*', ,/*7% ()*'?1.,' ?=1-,62,'1' ,)1.*')*-*'*2;?*-6,*0'6-*'0*. 526,*0'D'62'6.,-.9' M1X'=-* L*0a - 5*2' 'M*0%:;*, ;.' 1,)C ?65' SSQK'+1/.% 1/%X'T ;5;., 2*'6 'M 2'L%%!' C+ X' + ')' $ 'I !' + X'620') .' ' M ;50% S'Q+1X'T 6,*-;.'6 % 'M -1?' 4-*51-E' 2',)*'/6,,*-.'L%%!' ' XT' :;51'0*' % 6-1' ' MS'+1/.% 1/% *2%*,' 6./% Q '6./% RQ S ' 6-% Q' 1/12% SK T Q' +1/.% 1/%' ;50% S ' SSRXT' o&6/6-0;.' ,-6D1' ? * ,>%' M6' .1-,' 6,*26' 2>/;0 25' *L,-6>,.I' -1?' 6D62;.' <6;-;.' 620',)*' "' 1' *' -6' S'+1/.% 1/%' ;-*?D% R T 6/.1' ?1-*' >1?=/*,*' ;6> ' S '620' 2,8% SN XT' *[*2' ,% ' ; '\-1?' ;,)*-.'*L=1. , 12.h' MB*2% C 'K' +1/.% ,1XT' 12' .;' 6-,);.62;=' ' M 1/12% NK' ._%' K' +1/.% 1/%XT' I *// >62' '*L>*=,'B126)'U**D% 620' *+%h' M(5;- ' NK' ._%' '+1/.% 1/%T' 8 ,)' <* *-.'21,*.'12',)*' =1>C 6/A7=.*' (5;-% K' '+1/.% D/%XT' =% /6-1'& =' '\,)1.*'12',)*' % ('6-*>)*/' -1?' *D% <;2^ .,*-h' M *2>*' K S ' 1/%T 6/.1' 2',)*' $ 8:' 46., ;.' '\-1?' ;5;., 2*h' M 6C 5$% K' K' +1/.% ,1XT' 6,6D/;.'$ " '\-1?') .'/*>^ .;-*.h' M 2' ,*=)*2..' 6, 2' D/*' 6-.' ' T 6/.1' .*=6-6,*/ ' 6/6?62>6' Q 'K' +1/.% 1/%T 620' 2' ,)*' $ '620' .2>*XT' -;>> 1/ ' ' M *2>*' S' '=,.% 1/%XT' 6.,6/1' ; ' $ ' *,>% M 6. /% N' 1/%T /6,*-' 8 ,)' +6-1;.'600 , 12.' *.=*^ >6// ' -62* 1-,' SR ' 1/%T 6/.1' 2',)*' '$ X T " ' M12' ,)*'D119.' 1',)*' % (% .*=6-6,*/ ' =%.*,>% SS'._%' Q' +1/.%Q+1X'620' % ' M12' ,/*' % (% =. ' S 'Q+1'620'/6,*-XT' % .620>-'& =' " ' M(NCQ Q' +1/.%' Q ' +1/% ,1'N QR7 RK' R ' -62>% S R' N' +1/.% 1/%T 6/.1' =% 4*-?62' ,;,,5% S '620'1 ,*2XT' (-*?*/$;.'620' *[6'$ " ' 7 '\>) * / '21,*.'D '(-*?*/$;.'620'B;2 ;.h' M4*2' CR' 120% RN' 1/% 620'/6,*-2,,[' '\.*-?12.h' M2') .'L%%!' C+ '(D% SCR XT' I 6/C + 2' '*L>*=,'B;05*.' ;,)'K 6?%' 25.') 12%' .,)*-' *)%' [-6' -1+%' >>/*.%' 62,%'620' *+%h' M6,' +6-1;.',?*.' 2' 0 *-*2,'/625;65*.1',1^ 5*,)*-' 2' 6, 2' 2') .',%' 4*2*+6' Q' K' +1/.%

S ' '+1/.%' ?..,' S 'R'+1/*' 1/ 1' 2' 25/ .)'*L^ >*=,' ' 6?%'620'B1Dh' 0 2D%' Q C S' SK'+1/.%' Q+1X1' o ;>6.' -;5*2. .'7 - 'M 2,8%' Q ,1' 6/.1' 2' ,)*' '$ 8' 6/.1') .' 620' <1/62;.7.' 620' 1,)*-.' 21,*.' 2' ,)*' D; ' 'M 2,8%' Q QK'._%'1 R ' 1/%' 6/.1' 2',)*' 'V76>- X') ,2*;.' '\12' ?1.,'1',)*' D119.'1 ' >-=,;-*h'M 2' ,%%' ,*?D%' R CK' =.' RQCR'K'+1/.% 1/%X' I 6' 7 'M ,1' 2,8% RQ' S ';50% S R' S ' 1/12' S ' SK 1' 1/% ;50% S 1' 6/.1' 2' <6-626.' $ " 1' 2,8% SK ' 1/%'620' 2' *' /6' : 6 *.' ; 2 1' 6-% S N' 1/%X' .>6,1-' 'M:*-D% S '._%' K'+1/.%Q+1' S NC '+1/.% 1/% % (% 6/.1'.*=6-6,*X' 106, ' & 'M4*2*+% S ' 1/ 1' 2' 25/ .)' 120% S Q' *2/6-5*0' S ' 1/%X' -6?*-'& ' M -5*2,% S R N'+1/.% ,1' 8 ,)1;,',)*' ,*L,' K ,1' % 60' <' Q 'K'+1/.% ,1X' I<6-626' $ " 'M<60^S' -*.0' R '+1/.% 1/%X' 1>>*;.' 2 '\12' -0' S R' 6-.' SK ' 2,8% SK ' 1/%X' I .., ;.' FC' M 2,8% SK ' 1/%' >A12% SKK ,1' *2/6-5*0' D ' *?;.' ;6> ' SKQ' 2,8' S N' 6-% SSN' SQN' <15;2,% SSQ' 1/ '620' 2' *' /6' : 6 *1' 6/.1' 8 ,)',)*' 6;,)1-.' *L>*//*2,' 21,*.' 12' ,)*' = ../*.' 2,8% SRR' 1/%X' 6-*;.' '\12' ?1.,'1',)*' D119.'1' ,)*' D/*h'M6,'0 *-*2,', ?*.'6/.1'>11//*>,*0' -62> 1-,' SKQ' S ' S Q' 4*2% S K' 1/%' 620' %%!' 6 ' -62>% S ' N' +1/.% 1/%X' :6-.*;.'6 % + ;' \ 6^ ,-.,>'620' ?.,>6/h'M 2,8% SN ' 1/%X' I<*21>D;.' 6-%I 'M 1/% 1/12% S 'N'+1/.% 2,8% S R' ;50% SQN SR ' '+1/%' 8 ,)' ?=1-,62,' 600, 12.' D '(1;-C 2*? 2*' 6-% R' K' +1/.%' *2% KK' '+1/%' 6/.1' 2' *' /6' : 6 *' *,>%X' I(-2;.' ' \>) * / ' >1?=/*0' *.=*> 6//E' -1?' ' 6= 0*h'M 1/% 2,8% SNK' N'+1/.%' S ' S S SSQ' SQQ R' ;50% SS S Q' SR ' SR ' K' *2>*' SQQ' ' R' K ' ;5% 20% 'K'+1/.%' 6/.1' 2' *' /6' /6 * 6 ; " '620' 11/*.' $*% % X' ,-6D1C ;/0*2..' *0% *620*-hi' ? '\8 ,)' A(6.'% 2 A£'M 2,8% SN S'+1/.% 1/%X' : 669' ' "'& ' '$!' ' 'M 120% SN ' S 'K'+1/.% 1/%X' 41-012' JI ! !' SNS'N' +1/.% 1/%X' 6-0% 6A*,62' 'M ;50% SNR' ' +1/.% 1/%X' ,)*' ;-*?D*-5' M1,)*-8.*' 26-62' 1-' -2*.,62'6 + '\D '+6-1;.' 6;,)1-.' *0 ,*0' D ' % 4*-)6-0' /6A1-' 620' 1,)*-' B*26' =-1 *..1-.h'M ;?D% S CK'620' 1 ,*2' 6 ,*-86-0.' 1/%X' #;.,1-=' 'M 1.,% S N' K'+1/.% ,1X' I *' /6' : 6 *' 6 ' '\6' >1//*>,12' 1',)*' >1?7?*2,.' 1' 4652.*;.' .,*' 6' <*21>)'620' (-2;.h'M 6-% 4 N' '+1/.% 1/%X' 6/.1') .' ; " ' '\62' *2/6-5*0' D;','/*..' >1--*>,' *0, 12' 1',)*' =-*>*0 25'8 ,)'.1?*' 1? .. 12.'620',)*' 600, 12' 1' *' -6.' 620' .1?*' 1-5 26/ >1?7?*2,.h' M 6-% SS R'+1/.% 1/%X' =%:6//' % 'M 2' 7 ' 120% S ' 6/.1' 1 ,*2'. 2>*' .*=6-6,*/ X' - *0/D', 'M A-6/% S RC 'K'+1/.% 1/%' *2^ /6-5*0' % 60' <% S X' ,)*' & *.,? 2.,*-' ..*?D/ .' M %+%X' & '\D '+6-1;.'0 + 2*.h'M 120% S C ' K' 1/.%' NO' *0% S 'N'+1/.% 1/%X' .>1D6-'620' <*2^ 01[6' 'M ;50% SNKCS 'R'+1/.% 1/%X' <6A' >-' '\>) * / '>1?=/*0h'M 1 ,0% SSN'S'+1/.% 1/62 0' '+1/% 2' ,1'*,>%X' (-6==' '_;6 2,h' M 120% S ' '+1/.% 1/%' QS'._%'Q+1X' I 4-1, ;.'& ' 'M % (% I 6-% S 'N'+1/.% 1/%' *2>*' SSN' 1/%' % (% ' 6-% S ' S S' S R' 1/%' *,>%' ,15*,)*-' 120% SS ' 1/ 1' 6/.1' 2' ,% 1' ' 1' 620',)*' $ 1'+ '6D-05*0'D ' <110 ' 120% K K'+1/.% ,1X' ,)*' '$ 'M_%'+%X' *0%'D ' =% *6-.12'620' 1,)*-.' \62' ??*2.*' >1//*>, 12' 1' *L*5*, >6/,-*6, .*.'D '+6-^ 1;.'*? 2*2,'.>)1/6-.h'M 120% SS 'R'+1/.% 1/%' 8 ,)' ,)*' K' 600, 126/ +1/.' >6//*0' $ %% 1' 60' <% SRSC 'R'+1/.% 1/%' 620' 8 ,)' ?1-*' +1/.% >6//*0' -" ' -" =%" ' >,' -" ' 7 $*' ?..% SRQC NK N'+1/.% 1/%' >120*2.*0' DA' 11/*' 2') .' $ % X' -;>92*-' 'M 60% <% SSN' K'+1/.% 1/%X' 0*' 6-- -*.' ' 'M ;50% SSN' 1/%X' -*2;6' & ' \ 1> 2 62h' M*0' ;C' =*-' ?..% SS ' 1/%X' ' 6= 0*' '*L>*=,' B1D' 620',)*' .6/?.h' M 2,8% SS '' NS ' SQ ' R' ' >2 >H' K Q' ! '+1/.% 1/%X' :1 2/ 2' 1DC % ' ' .,1>9' U*//*-' B65*-' 6 '620' :1>).,*,,*-' $ 1' - '\D '1-0*-'7 ',)*' 0;9*' 1' & -,*2 D*-5h'M .;,,56-0' SS ' =[% R' ;0*.,% K' ,1' =[% K' 1/' 2' S' +1/.%X' '620' :% <6-*.,;,' ; 'M ?.,% SSR' 1/%X' o 11/*' $ % '\ 2' /6-5*' =6-,' 6' >120*2.6, 12' 1',)*' '$ 1' *' /6' :6 *.' ; J [!. ? /6-' 81-9.h' M 120% SR C S S' ' +1/.% 2' ' 1/%' -62>% S R' ' +1/.% 1/ 1' $/,-6h% SQ ' ' +1/.% 1/%' -62>% SR ' ' +1/.% ,1' K' ' +1/.% 1/%X' 6' 0 *-*2,' 81-9' .') .' 1-5 26/ & '\>1?=/*,*0' D '1,)*-.h'M 12012' SQNC '6/.1' 'K'+1/.% 1/%' 0 2D% Q N%' +1/.% ,1' 120% Q C'N'+1/.% Q+1X' *' 6> W% ' ; 1' *,>% \>) * A' 6,-.,>h'M 6-% S K' N' +1/.% Q+1' * O% SRS' NK'+1/.% K?1' -;L*//*.' KN' N'+1/.7 ,1' X C' 12.' K' N'+1/.% 1 '620' 1,)*-'>0.%X' 6/1+;.';' 1' # ' '\ 2' 1==1.,12',1'4-1,;.h' M %'60' <% S KC' 2 '\12' 6 60' <' Q 'K'+1/.% ,1X' I<6-626' $ " 'M<60^S' -*.0' R '+1/.% 1/%X' 1>>*;.' 2 '\12' -0' S R' 6-.' SK ' 2,8% SK ' 1/%X' I .., ;.' FC' ?62 '=1-,12.' 1' >-=,;-*h'M6,'+6-1;.%I',A?*.' .*=6^ -6,*/ 'T 6/.1' 2' ,% C+' ?.,% S 1/% 620' /6,*-X' /*6-;.'6 2 !' M =.' S QCQN' S'+1/.% 1/%X' I 6,7 -9' 18,)' -21/0'&),$ '620' 18?62' 9 '\1-5 26// ' 2' .*=6-6,*' =1-,12.' DA'7*6>)'6';,)1-' 12' ,)*' .;>>*.. +*' D119.' 120% S R' .%h'M 120% NQ' .%' '+1/.% 1/%' *0% ,?62' 120% QK' S'+1/.%b T')/6% Q ' 120% Q N' ' +1/.% Q+1X' I >)?0' ' \12'?1.,'1',)*' D119.'1' >-=,;-*h'M6,'+6-1;.'=/6>*.' .*=6-6,*/ ' SQ C ' Q'+1/.% ,1X' // L' ' ' M 120% SQQ' K'+1/.% 2' ' Q+1' Q R' Q 1' L % QKK' Q+1' 6/.1' 2' .)1=' &6,.12.' -" !' -' 6/.1' 2' -*2>)' 1207/SQ CR' Q+1' ?.,% SQR' K'+1/.% Q+1XT % /6-9*' & ' *,>% M 120% R ' S ' 4/6.5% S ' 1/%X' *..' # ' 'M 120% R CRS' +1/.% 1/%X' %0*' 6-- -*.' 'M 6-.' C' S' K' +1/.% K?1X' :66.*' & +!' *,>% M =[% NN' Q+1' ' 1/%' 6/.1' 2' ;,)' .,% K' ,1X' ;' :6?*/' & '*,>% M 6-% RS' K'+1/.% 1/%X' <6-,2';' % 4 'M ?.,% 'K'+1/.% 1/%X' o:*2-'6 % '*,>% \>1?=/*,*0' -12' >,.'D '1,)^ *-.h'M 12012' C ' '+1/.% 1/%' ,)' *0% >>?=/*,*' 12012' N ' '+1/.% 1/%' 620' 1,*Y. 2>*' 2*8' *0% 120% Q R' S' +1/.% ,1' >120*2.*0' 2' B*29.%' 9 8(' I 6/?*,' 'M %-% C S' KN'+1/.% N' KS'+1/.% ,1' K 'Q'+M%/.% 2' R' 1/%' ,)*' ' *,>' .*=6-6,*/ ' 6-% ' ' +1/.% Q+1' K N'+1/.% ,1' ,)*' /6.,' 2' 6, 2' DE',<62.*' ;>>67% KR'K'+1/.% 1/%'620',)*' 8)1/*' ",)*' .6?*' & ->*D% QRCRN R'+1/.% ,1' 6/.1' 2' 4*-?62' DA!' <1.C')*?' -*?% KQC 'S'+1/.% Q+1' T 6D-05*0' 2' -*2>)' 6-% K 'Q+1' ?62 '1',.' 21,*.' 8*-*' 2.*-,*0' 2',)*' DDS' *2>*.' ; ' 6-.' S C N' '+1/.% 0,1' 620' /6,*-X' &*//.' %" ' *,>% M 2' =6-,.' L % QC' K ' '+1/.% /,1' 620' Q+1X' 6=)*/;.' & '\ /^ /;.,-6, 12.' -1?' d*2S=)12' *,>%h' M -.,' .*=6-6,*/ '12' ,)*' %620' % (%' :6?D%' f RC 'K'+1/.% Q+1' ,15*,)^ *-' ;2*2D% N' Q+1' *2/6-5*0' % 6,% 'K'+1/.% Q+1X' :1->)*' 6 '\? .,>6/ ' 62,' 620' *+' 1?.,*0h'M<6-D% K ,1X' <0?*%4;12 c6!) 6a MHa7 \?A.,>6/h'M 1/%*,' ?.,' NC 'K'+1/.% K?1X' .C ,*-86/0', ' *,>% \,-% -1?') .' -*2>)' ; ?.,% '1/%h'MD ')6?D*-/6 2*' 120% KK' Q+1T% ,)' *0, 12' *2/6-5*0' 120% R' K' +1/.% Q+1X' 2102 ; ' *,>% M ,;,,5% N S' 1/%X' 6-9*-' '\ 2' /6-5*' =6-,'>1?=/*0h'M L % CK ,1X' 212% ; E' *,>' M *?51' K' 1/%X' ,)*' *-/*D;-5' M_%+%X' ; \=*, .,>6/h' D' +6-1;.' 6212A -%1;.' *0 ,1-.' M *-/*^ D;-5' KSCR' +1/.% 1/%X' ,.>)?62'& +!' MU ,,% KQ' ,1X' I4/'6 % '\/6-5*/' -1?6DD 2>6/' .1;->*.h'M1-5 26// ' 2' .*=6-6,*' 81-9.' 120% KQCS' R'+1/.% 1/%' ,15*,)*-' 120% Q 'R'+1/.% ,1' Q 'S' +1/.% +1X' T 6 '620' /*??' 2?*-dC%M(;D% KR' 1/%X' o 625'6 + '\ 2' =6-,'D ' 0/*-h'M 2' .*=6-6,*' 81-9.' :6/% KRCN ' ' +1/.% 1/%X' 6/.1' .;D.,62, 6// ' >12^ 0*2.*0' 2').' ; " '% ' 'I 2 4*-?62 ' 62' */^ / =,>6/'1-'=6-6=)-6.,>'*/;>06, 12h'M =[% K' K'+1/.% 1/%X' U*/,2*-' :6-<12' M ,/% K 'c+1' ' ,1X' & 6//'6 'M 12012' N CNR' N'f1 % Q+1X' & // .>)' $ =6 + '\>1?=/*,*0' /6 ?622h'M -* D' NR

: LDL

,**2' A7*6-.' 1 ' ,)1.*' 6.>- D*0' ,1' ,)*') 2*.*I' ()*' 20 62.' 6==*6-',1')6+*')60'1D.*-+6, 12.' _; ,*' ;.' *6-/ ' 6.' ,)*' 6D /12 62.% **' $! ;>)' 1 ' ,)*' 0*.>*2062,.' 1 ' 16)' 6.'/ +*0' 2*6-' ,)*' I 86,*-' ? 6 'D*' =-*.; ? *0',1')6+*' ?60*' ;.*' 1 '+*..*/.' D; /,' 2' ?,6, 12' 1 ' ,)*' 6-9 ' 7 ' 6.' .1?*' ,) 29 ' ,) 6,' 86.' ,)*' -..,' /16, 25'+*..*/ *+*-' .**2' 2' ,)*' 81-/0 ' ' D;,' 12' 6' .? 6//*-' .>6/*' 1-',)*' =;-=1.*' 1 '>-1.. 25'- +^ *-.% 2' ,)*'>1;-.*' 1 ', ?*',)*'0*.>*2062,.' 1 'D .' .12' B6=)*,)'.*,,/*0' 2' ,)*' ./*.' 1 ',)*' 4*2, /*. J'D '8) >)' 6-*' ;20*-.,110',)*' ./620.' 6,',)*' *6.,'*20' 1 ',)*' < *0^ ,*--62*62' *6' 620',)1.*' D*,8**2' . 6' < 21-' 620' 4-**>*' 8)*2>*',)* -'>1/12 *.' .=-*60' 2,1' 4-**>*' ,6^ / '620' 1,)*-' & *.,*-2' /620.% **' > ' #! 2' .)1-,' -1?',)*', ?*',)6,' ?*2' D*562',1' / +*' 2' >, *.',-60*' 2' .1?*' .)6=*' ? ;.,')6+*' D**2' >6-- *0' 12',1' .;==/ ',)*',18 2C08*//*-.' 8 ,)' 2*>*..6- *.' M.** : **-*2' & '7 ' ' RXT' D;,' ,' .' 6/.1' >/*6-',)6,' 2^ ,*-26, 126/',-60*' ? ;.,')6+*' *L .,*0' 620' 6 *>,*0',1' .1?*' *L,*2,' *+*2',)*' =6.,1-6/ 21?60*' -6>*. ' 1-' 8* 20',)6,' D-6)6?' 86.' ->)' 21,' 12/E7 2' >6,,/*' D;,' 2' . /+*-' 51/0' 620' 51/0' 620'. /+*-' =/6,*' 620' 1-26?*2,.' M4*2% L 'KT' LL + 'KK NX3 620' ;-,)*-',)6,' 51/0' 620' . /+*-' 2' 6' ?62; 6>,;-*0'.,6,*' 620'. /+*-' 61,' ?=-1DC' 6D/ ' 2' >1 2 8*-*' 2' ;.*' D1,)'6?125',)*'7,,/*0' 2)6D^ ,62,.' 1 ' 6/*., 2*' 620',)*' =6.,1-6/ ,- D*.' 1 ' - 6' 6,' ,)6,' 06,*' M4*2% LL ' ST' LL ' ST' LLL+ ' QT' B1D' L/ ' X',1' 8)1?',)1.*' ?*,6/.' ?;.,' 2' 6// =-1D6D / , ')6+*' D**2' ?=1-,*0' -1?'1,)*-'>1;2,- *.'M: ;..* ' 21% " '>% L 'N' =% RNT' ,,1' " !' # ' ' '=% R T' .**' : *-10% K X% **' #! K% ?125',-60 25' 26, 12.' ?*2, 12*0' 2' >- =,;-620' 5 I=,')1/0.' 2'+*- '*6-/ ', ?*.' 6' =-1? 2*2,'=1. , 12' M.**' : ;DD6-0' ' '& '6 % ' 2',)*' ; " 2' '5 % ' =-/' QNSX',)1;5)')*-'*L,*-26/',-60*' 86.' >6-- *0' 12' 21,' D ')*-' 182' > , [*2. ' D;,' D ' 1-C' * 52*-..'>) * / '1',)*' 21?60*' -6>*.' M /**-*2' & !' 7 ' SQT' 'N 'N KX% ,' 86.' 62' .)?6*/ ,*' >6-6+62' /60*2' 8 ,)' .=>*.' 8) >)' >6-- *0' B1.*=)' 2,1' 5 =,' 620',)*6>>1;2,'.)18.',)6,'./6+*.' 1-?*0' .1?*, ?*.' 6' =6-,' 1 ',)*' ?*->)620 .*' ?=1-,*0' M4*2% LLL+ 'K T' LLL L ' T' B1D' + ' RX% -1?' 5 (X,' ,' .' / 9*/ ',)6,' 6,'6/ , ?*.' D;,' *.=*> 6// ' 2*, ?*.' 1 '5*2*-6/ .>6-> , ' =1-2' 81;/0' D*' *L=1-,*0' 8) >)' 86.' =6 0' 1-' D ',)*' 212C*L=1-, 25' 26, 12.' 2' . /+*-' 8) >)' 86.' 6/86 .' 8* 5)*0' M4*2% L/ ' T' L/ 'N K 'N T' L/ ' K 'K X% ()*.*' >6-6+62.' 7 .1' D-1;5),',)*' =-*> 1;.' .,12*.' 6.' 8*/' 6.',)*' .=>*.' 1 ' 20 6' 2,1' 5A=,'M L10% LL+ 'N' T' & /9 2.12'& !6 !' 'KN KN X% 2,*->1;-.*' 8 ,)' (-*' 01*.' 21,' 6==*6-',1')6+*',69*2' =/6>*', //' 6' /6,*-' =*- 10' 620',);.' ,)1;5)' ,' >6221, D*' 0*,*-? 2*0' 8)*,)*-',)*' =;-=/*' 2' 8) >)',)*' 5A7=, 62' 811//*2' 620' / =*2' >/1,).' 8*-*' 0f *0' 86.' D-1;5),' D ' /620' -1?')1*2>6' ,' .' *+ 0*2,',)6,' >1/1-*0' >/1,).')60' /125' D**2' ?60*' 620' 0 *0' 2' 5 =,' 620',)*' ;.*' 6,' /*6..' 1 ',)*?' 601=,*0' D',)*' : *D-*8. 1-',)*' ,6D*-26>/*' 6.' *6-/ ' 6.',)*' ,?*' 1 ' <1.*.' % L10% L7+ ' ' T' >1?=% : **-*2' '. 6 % 6 % 'N KT .**' : *-10' ' X% ()*' =6.^ ,;-*C5-1;20' 1 ')*>)*?' 6==*6-.' -1?',)*' .,1-' 1 'B1^ .*=)',1')6+*' /6 2' 2',)*' 86 '1 ',)*.*' >6-6+62' A1;-2* .' M4*2% LLL+ ' ' K X' =-1D6D/ ' 6',)1-1;5) 6-*' I -1?' 6?6.>;.% **' ! ',)*' .6?*' =*- 10' ,' .' >/*6-',)6,',-60*' 86.' >6-- *0' 12' D*,8**2' 6//12' 620',)*' - 62' >, *.' M.**' : ;DC')6-0' ' '& ' ;" ' 2' ,)*' ; '5 % ' B;/ ' QN X' 620' 6/.1' ,)6,' 51/0' 620' . /+*-' 1-26?*2,.' 8*-*' >1?12' 6?125',)*' - 62' 620' -6D 62'-6>*.' 6' ,-60*' 8) >)' 86.' 1D+1;./X7' >6-- *0' 12' D '/620C>6-- 65*' M ;?% LLL ' T' B1.)'+ 'K TCB;05% +'N T' + 'K T' B1D' + ' RX% **' 8 # 012' 8) >)' 6 ,*-86-0.' D*>6?*' .1' >*/*D-6,*0' 1-' ,)*' 8120*- ;/ ?*->62, /*' *L*-, 12.' 1 ' ,.' 2)6D ,62,.' 86.' 1;20*0' 6D1;' KK ' *6-.' D* 1-*',)1')- ., 62' >*-6% ()*' 2* 5)D1- 25' ?1;2,6 2.' D* 25'>1+*-*0' 8 ,)'*L>*/^ /*2,' >*06-C,-**.' ;-2 .)*0',)*' D*.,' 620' ?1.,' 0;-6D/*' , ?D*-' 1-' .) =CD; /ZB 25% ! ()*' 2)6D ,62,.' 1 ' 016' 6>>1-0 25/ ' D; /,' 2; ?*-1;.' .) =H' 620' *L=1-,*0',)* =-10;>*' 1 ',)*' 60A1 2 25' >1;2,- ' 620',)*' +6- 1;.' 6-^ , >/*.' 1 ',)*' -' 182' ?62; 6>,;-*' .;>)' 6.' 2*' / 2*2' *?D-1 0*- ',6=*.,- ' ?*,6/.' 5/6.' D1,)' >1/1-*0' 620' 5;-*0' >;,' 1-' >6-+*0' 620' * *2' ? --1-.% ()*' 8*-*' ;2- +6//*0' D ',)*' 2)6D ,62,.' 1 %,)*' < *0 ,*--62*62' >16..' 2' 81-9.' 1 ',6.,*' */*562>*' 620' /;L;- % ()*' -' 5-*6,' 620' ;2 +*-.6// ' 6>9218/*05*0' =-*C*? 2*2>*' 2' ,)*' 6-,.' =-1>;-*0' 1-',)*')1*2>62.' 8)1.*' =- 2> =6/ .*6=1-,'86.% 012',)*')121-' 1'D* 25'*.,**?*0'6?125' ,)*' 4-**9.' 620' 1,)*-' 26, 12.' 6.',)*' 2+*2,1-.' 1 '>1?^ ?*->*'.) =CD; /0 25' 26+ 56, 12' 1 ',)*' 6==/ >6, 12' 1 '6.^ ,-121? ',1' 26;, >6/ =;-=1.*.' 620' =6-, >;/6-/ '6.',)*' 0 .>1+*-*-.' 1 '.*+*-6/ .,6-.' 2*6-*-',1',)*' 21-,)' =1/* ,)62' 62 ',)6,' 8*-*' 92182',1' 1,)*-'26, 12.' 1 '26+6/ 86-' 8-, 25' 6-,)?*, >' D119C9**=25' ?*6.;-*.' 620' 8* 5),.' ',1' 8) >)' ,' .' =-1D6D/*' ,)*' ? 5),')6+*' 600*0' ?12* % ** ! ()*' *6-/ *.,' 6>>1;2,.' 1 'D6-56 2' 620' .6/*' -*6>)' 21') 5)*-',)62',)*', ?*' 1' D-6)6?' 620').' ,-62.6>, 12' 8 ,)' =)-12' :*' .' .6 0',1')6+*' 8* 5)*0' ;2,=') ?' ' .)*9*/.' 1' ./+*-';-.*2,' ?12* ' 8 ,)',)*' ?*-^ >)62,J' M4*2% LL ' SX% ()*' 81-0' ?*->)62,' ?=/ *.' ,)6,',)*' .,6206-0' 1 '?12* ' 86.' L*0' D ';.65*' 6?125' ?*->)62,.' 8)1'>1?=-.*0' 6'2;?*-1;.' 620' -*.=*>,6D/* >/6..' 1 ',)*' >1?? ;2, % <62; 6>,;-*.' 8*-*' D ',) .' , ?*' .1' 6-' 60+62>*0',)6,'21,'12/ ',)1.*' ?1-*' ?*?*0^ 6,*/ '>122*>,*0' 8 ,)' 65- >;/,;-*' .;>)' 6.' /1;-' 5-1;20' -1?'>1?' 8 2*' 1/' D;,,*-' 620' 6/.1',)*' ?1.,' 2*>*.^ .6- '6-, >/*.' 1 '>/1,) 25' 620' ;-2 ,;-*' D;,' *+*2',)1.*' 1 '/;L;-' 620' ?652 >*2>*' 8*-*' ?;>)' 2' ;.*' 6.' 6=^ =*6-.' D ',)*' *6-C- 25. ' D-6>*/*,.' 1 '51/0' 620' 1 '. /+*-' -620' 1,)*-' =-*> 1;.' ,) 25.' =-*.*2,*0' D ' D-6)6? .' .,*86-0',1' *D*>>6' M4*2% LL +' KK' N% ** 8 L ! 2',)*' D119' 1 'BDD7' 8)1.*' 6;,)1-' 2',)*' 1= 2 12' 1 ',)*' ?1.,'/*6-2*0' >1?*2,6,1-.' -*. 0*0' 2' -6D 6' 620' 86.' 2*6-/ ' >12,*?=1-6-' 8 ,)' D-6)6?' ?;>)' / 5),' .',)-18 2' ;=12',)*' >1??*->*' ?62; 6>,;-*.' 620' .> *2>*' 1 ',)*' 65*' 620' >1;2, 77 78) >)',)*/ +*0% ()*-*' .' ?*2, 12' 1' 51/0' -12' D-6..' /*60' >- .,6/' A*8*/.',)*' 6-,' 1' 8*6+ 25' ?*->)62,.' 51/0' D-1;5),' -1?' =) -' 8) >)' ?=/ *.' >1??*->*' 8 ,)' 6' -*?1,*' ;2,- ' 620' 1=CD; 10' 25' .1' 6-' ?=-1+*0',)6,'.1?*' .) =.' 8*-*' 0 ., 25; .)*0' 1-',)*' +*/1> ,' 1',)*-' ?1, 12' 8- , 25' 2' 6' D119' 620' *25-6+ 25' /*,,*-.' 1-' 8- , 25' 12' =/6,*.' 1 '/*60' 620' 12' .,12*' 8 ,)' -12'=*2. ' 620' 6/.1' .*6/C*25-6+ 25' .) 25' 8 ,)')119.' 620' 2*,.' 620' .=*6-.' ?;.>6/' 2.,-;^ ?*2,.' ,)*')6-=' 620' 1-562' 6.,-121? ' 620' 26?*.' 5 +*2',1'=6-, >;/6-'.,6-.% ()*.*' 21, >*.',*20',1'=-1+*' ,)6,' 6/,)1;5)',)*' =6,- 6->)6/ . .,*?' 1 ' ? 69 25'=6.^ ,;-65*' ,)*' >) * ' 1D A*>,' 1 ' 6,,*2, 12' 86.' ., // ?6 2^ ,6 2*0' D ' ?62 ' 1 ',)*' 5-*6,*.,' 2)6D ,62,.' 8)*-*' ,)*' 6;,)1-' 1 ',)*' D119' 1 'B1D' -*. 0*0',)*' .> *2>*.' 8*-*' >1;2,-*.' 1 ' 20 6' 620' 5 =,' 620',1')6+*' 1D,6 2*0' ,)*' *L>/;. +*' ?121=1/ ' 1 '6' +*- ' =-1 ,6D/*' >6-- 25' -60*' D*,8**2',)1.*' >1;2,-*.% ()*' 8*-*' 6' >/6..' 1 ' =*1=/*' 8)1' 56+*',)* -' 8)1/*' 6,,*2, 12',1' ?*->)620 .*' 6.' 6-*5;/6-' 620' *.,6D/ .)*0' =-1 *.. 12' 620',-6+*//*0' 8 ,)' >6-6+62.' D*,8**2' -6D 6' 620' 5 =,' >62 25' ;=12',)*' D6>9.' 1 ' >6?*/.',)*' .= >*- *.' 1 ' 20 6',)*' D6/?' 1 ' 62662' 620',)*' ? --)'=-10;>*0' 2',)* -' 182' >1;2, W 1-' 1 ' 6' .;=*- 1-' _;6/ ' -1?',)*' 1==1. ;.*' >10.,' 1 ' D .. 2 6 ' 6// 1 '8) >)'8*-*' 2'5-*6,'0*?620' 6?125',)*' 5 =, 62.' 17*?D6/?25',)*' 0*60' 2',)* ,

-*/ 5 1; .'>*-*?12 *. ' 620' 1-' ? 2 .,*- 25',1',)*'=/*6.^ ;-.* .' 1 ',)6,' .;=*-. , 12.' 620'/;L;- 1; .' =*1=/*¼ ()*' ?*->)62,.'1 '12*'1 ',)*.*'>6-6+62.'D1;5),'B1.*=)' -1?') .' D-1,)*-.' 1-' ,8 *2, ' = *>*.' 1 ' . /+*-' 620' >6-- *0') ?' 2,1' 5 =,¼ ()*' .1:,)*-2' -6D.' 8*-*' *? 2*2,' ,-60*-. ' 620'*2A1 *0' 6'/6-5*' =-1=1-, 12 ' 620' 2' 5*2*-6/' ,)*' *2, -*' ?121=1/ ' 1 ',)*' ,-60*' D*,8**2' 20 6' 620' ,)*' 8*.,*-2' 81-/0' -1?',)*' *6-/ *.,'65*.' ;2, /',)*' . .^ ,*?' 1 ',)6,' ?=1-,62,' >1?7*->*' 86.' ,1,6// ' 1+*-^ ,;-2*0' 8)*2',)*' 2)6D ,62,.' 1 ' ;-1=*' 0 .>1+*-*0' 6' 0 -*>,'-1;,*',1' 20 6'D ',)*' 6=*' 1 '4110' : 1=*¼ *>' ! ,',)*'=*- 10' 8)*2'B1.*=) .'D-*,)-*2'+ . ,*0' 5 =,' 22.' 8*-*' *.,6D/ .)*0' 1-',)*' 6>>1?7106, 12' 1 ',-6+^ *//*-.' 2' ,)6,' >1;2,- ' 620' 2' ,)*' 21-.,)*-2' =6-,.' 1 ' -6D 6¼ ()*' ?1-*'> + / [*0' .1;,)*-2' =6-.,' 1 ',)*' =*^ 2 2.;/6' 81;/0' 21' 01;D,' D*' ;-2 .)*0' 8 ,)' >6-6+62^ .*-6 .' .,// ?1-*'>1?710 1;.¼ **' ! ;- 25',)*'-*. 0*2>*'1 ',)*' .-6*/,*.' 2' 5 =,'?62^ ; 6>,;-*.' 1 ' 6/?1.,'*+*- ' 0*.>- =, 12' 8*-*' >6-- *0',1' 5-*6,' =*- *>, 12¼ /6L ' 2*' / 2*2 ' 56-?*2,.' 1 ' >1,^ ,12 ' - 25.' 620'A*8*/.' 1 ' 51/0' 620' . /+*-' 81-9.' 2' 6//' 9 20.' 1 ' ?6,*- 6/.' >)6- 1,.' 1-' =/*6.;-*' 620' >)6- 1,.' 1-' 86-' 6-*' 6// ?*2, 12*0' D ' <1.*.¼ ()*' ')60' *L^ ,*2. +*' ?62; 6>,1- *.' 1 ' D- >9¼ ,*-6,;-*' 86.' 2' 6' /1;- .) 25' .,6,*' 620' 2' 1-0*-' ,1' 5 +*' 62' *2/6-5*0' 0*6' 1 ',)*' 6>>1?=/ .)?*2,.' 1 ' <1.*.' ,' .' .6 0')*' 86.' /*6-2*0' 2' 6// ,)*' 8 .01?' 1 ',)*' 5 =, 62.J' M >,.' L ' KKX¼ **' > # / ! ()*' *L=;/. 12' 1 ',)*' 62662 ,*.' -1?' 6' 5-*6,' =6-,' 1 ',)*-' ,*-- ,1- *.' D ',)*' .-6*/,*.' ;20*-' B1.);6' /*0' ,1',)*' 5-60;6/*.,6D/.)?*2,' 1 ' >1/12*.' 2' =-;.')10*.' 620' .*+*-6/ ./620.' 2',)*' 75>62' *6' ,)*' =*2*,-6,*0' 2,1',)*' ;L 2*' 1-' /6>9' *6' 620' .=-*60^ 25' 6/125',)*' .)-1-*.' 1 ' >/ ' 6-0 2 6' 46;/' =6 2' 620' ->6' *.,6D/.)*0' 2;?*-1;.',-60 25'=/6>*.' 8)>)' 5-60;6// ' -1.*' 2,1' ?1-*' 1-'/*.' ?=1-,62>*¼ ,')' =*- 10' ?*2, 12' .' -.,' ?60*' 1 ' 05 ' 6.' 6' .,-125' 1-' 1-, *0' >, ' 8)/.,' 012' .' 0 52 *0' 8 ,)',)*' , ,/*' 1 ' 4-*6,¼ **' ! ()*' - . 25' =-1.=*- , ' 1 ' (-*' .112' *>/=.*0',)*' 62^ > *2,' 620' /125C /6;- .) 25' >1?7*-> 6/ >, ' 1 ' 012¼ D1;,'Sa*' *6-.' D* 1-*')- .,')*-' >1?7*-> 6/ .=/*2^ 01-'6IX=>6-.',1')6+*' D**2' 6,',.')*5), ' 620' .' 5-6=) >^ 6// '0*.>- D*0' D ' [*9 */ MLL+ X¼ ()*' ?=1-,.' 2,1' (-*' 8*-*' 2*/2*2' -1?' 5 =,'D/;*' 620'=;-=/*' -1?' ,)*' ./*-' 1 ' / .D6)'. /+*-' -12', 2 ' 620' /*60' -1?' (6-.) .) ',)*' .1;,)'=6-,' 1 ' =6 2' ./6+*.' 620' D-6[*2' +*..*/.' -1?' B6+62' 1-' 4-**>*' (;D6/' 620' <*.)*>)')1-.*.' ./6+*.' D-*0',1')1-.*?62.) = ' 620' ?;/*.' -1?' (156-?6)' *?*-6/0.' =;-=/*' *?D-1 0*- ' 2*' / 2*2' >1-6/.' 620' 656,*.' -1?' %+- 6' >1-2' D6/?')12* ' 1 / 620' 5;?' -1?',)*' .-6*/,*.' 8 2*' 620' 811/ -1)' 6^ ?6.>;.' =1/.)*0' -1286-*' =-*> 1;.' 1 /.' 620' > 226C ' 212' -1?' 62'B6+62' 620' $ [6/' ?652 >*2,'>6 =>,' -1?' *062' .)**=' 620' 516,.' -1?',)*=6.,1-6/,-D*.' 1 ' -6D 6' >1../ ' .=>*.' .1?*' ,)*' =-10;>*' 1 ' 20 6' =-*> 1;.',12*.' 620' 51/0' -1?',)*' ?*->)62,.' 1 ')*D6' 1-' 6D6A6' 620' 6?6)' 1-' *5?6'>1;2,-*.' 2',)*' .1;,)' =6-,' 1 ' -6D 6' D/;*' >/1,).' *?D-1 0*-*0' 81-9.' - >)' 6== ,-*/ F>1-0*0' >*06-C>)*.,.' ;==1.*0',1' D*' 1- 5 26/ 20 6' =6>965*.' 620' 1,)*-' 5110.' -1?')*D6' .);-' 620')/?60' 620' -1?' : 6-62' 622*)' 620' 0*2' ,-60 25I=1-,.' 12',)*' .1:,)' >16..' 1 ' -6D 6¼ ()*'+6.', 8*6/,)',)6,',);.' /18*0' 2,1' (-*' -1?' 6//_;6-,*-.' /X-1;aI),' 8 ,)' ,' ,.' ,11' 5*2*-6/' >12>1? ,62,.. ' *L,-6+C 36562>*' 0 .. =6, 12' 620' -*/6L6, 12' 1 ' ?1-6/.¼ **' 0# ! ()*' .;DA*>, 12' 1 '(A(*' ,)*' -*2182*0' >, ' 8)>)' 86.' .,-125' 2',)*' .*6' 8)1.*' ?*->)62,.' 8*-*' =- 2>*.' 8')1.*',-6 >9*-.' 8*-*',)*')121-6D/*1',)*' *6-,) J' D ' =-;.' 620',.' .;D.*-;*2,' 1*-*.,)-18')*6D/*-*. .,62>*' 6 ,*-' 6' 0*,*-? 2*0' 620' ?1.,' 1-? 06D/*' -*. .,62>*' ,*-? 26,*0' 6/ 9*',)*' 5-620*;-'1',)6,'> , '620',)*') .^ ,1- ' 1 ' 62> *2,' >1?7*->*' 6.' 6-' 6.',)*' 6-*' 6//;0*0' ,1' 2' >-*;;-*¼ M **' 20*-.12 .'# ' ' K' 120¼ S ' 620' /6,*.',' Q T' 2>*2, .' ' 7 ' ' " ' ' , 1' 120¼ Q T' : **-*2 6' 5 " .' 6-2*.'12',)*' & ' ' #(⊇ ' & 1' 2',)*' ; ' 5 % ' >,¼ Q ' B62¼ Q T' 4 /D*-,' ' ' & ' ' 120¼ Q %X **' . N¼ $2,/',)*', ?*' 1 ' 1/1?12',)*' : *D-*'8' 26, 12' ?6 'D*' .6 0',1')6+*')60'21' 1-* 52',-60*' M.**' (>).*2 ' ' ' ' ' 7 ' # ' 2',)*' !'$!'? ! Q Q'=¼ C RX¼ 1-* 52',-60*' 86.' 20**0' >12,*?^ =/6,*0' D ',)*' 68' 620' .,- >,'-;/*.' 1-' ?1-6/, ' 2' >1?7*-> 6/ 0*6/25.' 8*-*' /6 0' 0182' D ' ,' M *;,¼ LL+ ' KT' LL+' NC ST' *+¼ L L ' N ' NSX' 620',)*' ,- D*.'2*6-',)*'.*6'620',)*')1*2>62',*-- ,1- '6==*6-' ,1')6+*' *2565*0',1'.1?*' *L,*2,' 2' ?6-, ?*' 6 6-.' M4*2¼ L/ L ' NT' *;,¼ LLL ' QT' B;05¼+' XT' D;,',)*' .= -,'1 ',/*' 68' 86.' ?1-*' 2' 6+1-' 1 '65- >;/,;-*' 620' 656A2..' 1-* 52',-60*' M *',¼ L+ ' S' T' *+¼ LL+T .**' B1.*=);.'&% ' ' KX¼ **' ! ;- 25',)*'-* 52'1 ' 6+ 0'9 25'1 ' .-6*/',)6,'=18^ *- ;/?126->)'0 .=1.*0'1 '6'=6-,'1 ',)*' 8*6/,)'1D,6 2*0' D ') .' >12_;*.,.' 2'=;->)6. 25'>*06-C, ?D*-' -1?' : ^ -6?'9 25'1 '(-*' 8 ,)' 8)1?')*' 9*=,';=' 6' -*20/ ' >1--*.=120*2>*' 8) /*' /+*0¼ :*' 6/.1') -*0' (7- 62' ?6.12.'6<'>6-=*2,*-.' 1-'>6-- 25'12',).'81-9.¼ **' ! 7 /1?12')18*+*-' 1-562 [*0' 62' *L,*2. +*' ,-60*' 8 ,/ D-* 52' >1;2,-*.'D;,'>)*/ '6,'/*6.,'.1' 6-' 6.',)*' ?1-*' 0 .,62,'26, 12.' 8*-*' >12>*-2*0' 1'62' ?^ =1-,')6-6>,*-¼ :*' ?=1-,*0'/2*2' 6-2')1-.*.' 620' >)6-1,.' -1?' 5 =,¼ ',)*')1-.*.' .1?*' 6==*6-',1')6+*' D**2' -*.1/0',1' -62' 620' 62662,.)' =-2>*.¼ 1-'6//,)*.*')*' =6 0'51/0'8)>)'86.' ?=1-,*0'D ' .*6' -1?' 20 6'620' -6D 6'D ') ./**,.' 2'>12A;2>, 12' 8,)' ,)*')1*2>62.'M ' 25.'L'KKCK T' .**' 4*.*2 ;.' -" ! # "!'=¼ K KT' >1?=¼ : **-*2'& ! 7 ! ' NN X¼ ,' 86.' D ¼7)1*2>62.'6/.1',)6,',)*' >*06-' 620' 1,)*-' , ?D*-' 1-') .'5-*6,'6->),*>,;-6/ 81 9.' 86.' D-1;5),'D ' .*6' ,1'B1==6'8)/.,' 1/1?12' 1;20',)*' =-1+%. 12.' 2*>*.^ .6-' 1-',)*' 81-9?*2' 2' <1;2,' *D6212'M ' 25.'+' S' RT' K')-12¼ ' SX¼ ()*';2,*0' /**,.' :.*0',1' .</ 2,1',)*' 20 62' >*62' *+*-',)-**' *6-.' -1?' /6,)' 620' [125*D*-'=1-,.'12',)*' /62, >'5;/'1',)*' *0' *6'8)>)' 6+ 0')60'=-1D6D/' 56 2*0' -1?' 01?T 620',)*'D-1;5),'D6>9'51/0'. /+*-' +1- '.6206/C8110' *D12 '=-*> 1;.',12*.'6=*.'620'=*6>1>9.¼ 1?*'1' ,)*.*' ?6')6+*'>1?*' -1?' 20 6' 620' * /12' 620' .1?*' -1?',)*'>16.,.'1',)*' *-. 62' 4;/'620',)*' *6.,' >16.,'1' ->6'MK' 6?¼+' T' ' .' KST' L' ' KKT' K')-12¼+' T' .**' : *-10' ' 'T' >1?=¼ +^ 25.,12*'.- '=¼ N 'SSKX¼ **' </ ! ;',)*',-60*' 8)>)' 1/1?12',119' .1' ?;>)' =6 2.',1' *2>1;-65*' 86.' 21,'6' ?6-, ?*',-60*' 12/ ¼ : *' D;/,' 1-' ?1-*' =-1D6D/' 1-, *0' 66//,*9'620' 6/? (6T',D1' /6,,*-' 6,'/*6.,' *L=-*../' 6.' 6' >6-6+62' .,6, 12' 1-',)*' /620C>1?7*->*' 8 ,)' *6.,*-2' 620' .1;,)C*6.,*-2' 7.6 M ' 25.' L ' QX¼ **' ! ,*-') .' 0*6,)',)*' ?6-, ?*',-60*' 0*>/ 2*0' 620' 62 6,,*?=,' ?60*' D 'B*)1.)6=)6,' ,1' -*+ +*',' =-1+*0';2^ .;>>*.. ;/ M ' 25.' LL ' Q' RX¼ **' O ' 'f &*9218')18*+*-',)6,')1*2>6'86.';==/*0' -1?' ;)*' -*,;-2' -1?')>6=,+,'M *)¼ L ' SX' 6.' 8*// 6.' ,?D*-' 1-',)*' -*D; /0 25'1',)*' (*?=/*' 8)>)',)*2' 6.' 2' 1/1?12.',?*' 86.' D-1;5),'D ' .*6',1'B1==6' M [-6' ' X¼ /86.'*L=1-,*0',1' 5 =,'M:1.'L ' X' 620' 2*/2*2'620'1-26?*2,6/5-0/*.'1'01?*.,'?62^ ;6>,;-*'8*-*'.1/0',1',)*'?*->)62,.' M -1+¼ LLL ' K X¼ ()*' .;>>*.. +*' 2+6. 12.',1'8)>)' 6/*., 2*' 86.' .;D^ A*>,*0' 2+1/+ 25' D1,)' /6-5*' 6D.,-6>, 12' 1 ',-*6.;-*' D' 2+60*-.' 620')16 ' ?=1.,;' 12',)*' 2)6D,62,.',1 =;->)6.*' ??;2, ' 1-',1' .6, . ' 0*?620.' 1-',-D;,*' ?;,.')6+*' ?=1+*-.)*0',)*'>1;2,-' -1?',?*',1' ?*' M;20*-' *)1D16?' ' 25.'L+'KST' .6'L+' QT' B16.D' K' 25.' L ' QT' ?6[6)' L +' NT')2[' L+' QT' :*[*96)'L+ ' C ST' B*)16)6['620'B*)1 69 ?'LL

N’ T B*)1 6>) 2 ‘ LL + ‘ NXT D ; , ‘ , ‘ .’ 6/.1’ >/*6- ‘ 6.’ ,)*’ />2 ; 2> 6, 12.’ 1 ‘ ,)*’ =-1=)*, .’ D*6-’ 8 ,2*. . ‘ ,)6, ’ ? ;>)’ 8*6/,)’ ? ; ., ‘ .1?*8)*-*’)6+*’ *L .,*0’ 2’ ,)*’ >1 ; 2,- ‘620’ ? ;>)’ 1-* 52’ ?*->)620 .*’)6+*’ D**2’ ?^ =1-,*0T .1’ ? ;>)’ .1’ ,)6, ‘ 2’ ,)*’ /625 ; 65*’ 1 ‘ [*9 */’ B*-; .6/*?’ 6==*6-.’ 6.’ ,)*’ - +6/’ 1 ‘ (-*’ 620’ ,)-1 ; 5)’ , .’ =1-, ‘B1==6 ‘ ,1’)6+*’ >6-- *0’ 12’ ,-60*’ 8 ,)’ 1-* 52’ >1 ; 2,- *. ‘ M .6% ‘ S ST ‘ KNT : 1.% L ‘ T [*9% LL+ ‘ KT B126) ‘ ‘ N ‘ >1?=% : >*-*2 ‘ & J’ *N ‘ ‘ =% NKQX% **’ + ‘ !

$20*-’ ,A *’ <6>>6D**.’ B1==6’ 86.’ 1-, *0’ M ‘ <6>>% L + ‘ N X ‘ 620’ /6, *-’ ., // -1.6-*6’ 86.’ D ; /, ‘ 620’ ?60*’ 6’ =1-,’ D ‘ : *-10’ MB1.*=)% ‘ L+ ‘ R ST >, .’ LL+ ‘ KX% B1==6’ D*>6?*’ 6 , *-86-0.’ 6’) 6 ; 2, ‘ 1-’ = -6, *. ‘ 620’ 86.’ ,69*2’ D ‘ *., ; .T 6 , *-86-0.’ D ‘ *.=6. 62 ‘ 620’ 0*^ ., -1 *0’ D %) ?’ M , -6D% L + ‘ =% SRT B1.*=) ; . ‘ ‘ Q T ‘ R X% **’ + ! % ()*’ 2, *-26/’ , -60*’ 1 ‘ ,)*’ B*8 . ‘ 6.’ 8*//6.’ ,)*’ *L^ , *-26/’ 86.’ ?; >)’ =-1?1, *0’ 6.’ 86.’ .)*’ >6.*’ 6/.1’ 2’ 5 =, ‘ D ‘ ,)*’ 1=*2’ .=6>*.’ 2*6-’ ,)*’ 56, *. ‘ , 17) >)’ 5110.’ 8*-*’ D-1 ; 5), ‘ 1-’ .6/*’ D ‘ ,)1.*’ 8)1’ >6?*’ -1?’ ,)*’ 1 ; , ^ . 0*’ M *) ‘ L ‘ ST U*=)% ‘ X% **’ & ! ()*’ , -60*-.’ 2’ /6, *-’ , ?*.’ 8*-*’ 6//18*0’ , 1’ 2, -; 0*’ 2, 1’ ,)*’ (*?=/*’ 2’ ,)*’ 1 ; , *-’ >1 ; -, .’ 1 ‘ 8) >)’ + >, ?. ’ 8*-*’ =; D/ >/ ‘ .1/0’ 1-’ ,)*’ .6>- >*. ’ MU*>) ‘ L + ‘ K T < 6, , ‘ LL ‘ KT B1) 2’ ‘ X% *>’ !O / ! 2’ ,)*’ ?6, , *-’ 1 ‘ D ; 25’ 620’ .*// 25’ 5-*6, ‘ . , -*. .’ . ‘ /6 0’ PN ,)*’ 68’ 12’ 6 -2*. .’ 2’ 0*6/ 25% B ; . ; ‘ 8* 5), . ‘ 620’ D6/62>*.’ 6-*’ . , - 25*2, / ‘1-0*-*0’ M *+% L L ‘ N NST *2, % dd ‘ NC SX% 026== 25’ ./6+*.’ .’ 1-D 00*2’ ; 20*-’ ,)*’ .*+*-*. , ’ =*26/, ‘ M L10% LL ‘ ST *; , % LL + ‘ X% (-60*’ 2’ .8 2*’ 86.’ 1-D 00*2’ D ‘ ,)*’ B*8 .)’ 011’ , D-.’ M.**’ ; -*2) ; . ; . ‘ " 1’ - *’ ! >% ‘ +1/% + ‘ S T 5), 11, ‘ ! ! ! ‘ +!+ ‘NNT 66/.>) ; , [‘ % &’ "! ‘ 1 ‘ >% SX% ‘ ,,1 ‘ .% + %T ? ,) ‘ .% +% *’ ‘ !

1?L2 26, 12 ‘ 62’ 1 >*’ 2’ ,)*’ , ; -5 ‘ 1 ‘ ,)*’) ; ->)’ 1 ‘ 25/620 ‘ 8) >)’ >12,6 2.’ 410 .’ " ’ 3656 2.’ ?=*2 , *2’ . 22*-.% ’ .’ 0 -*>, *0’ , 1’ D*’ ; .*0’ 12’ ,)*’ -., ‘ 06A71 ‘ *2, ‘ 620’ 6, 1,) *-’ , ?*. ‘ 6.’ ,)*’ 1-C 0 26 7 .)6/’ 6==1 2, % .’ .’ >6//*0’ 1?? 26, 12’ -1?’ ,)*’ 1=*2 25’ L)1-, 6, 12’ *=*2,62>*’ 2’ 8) >)’ ,)*’ >; -.*.’ 1 ‘ 410’ 656 2.’ . 2’ 6-*’ -*> , *0% ()*’ 1 >*’ 1-’ 1?? 26, 12’ 1-’ 0*21 ; 2> 25’ 1 ‘ 410 .’ 625*-’ 620’ A ; 05?*2, .’ 656 2.’ . 22*-. J’ 86.’ /* , ‘ 1 ; ‘ 1 ‘ ,)*’ ?*-^ >62’ -6A7*-CD119 ‘ D ; ‘ ,)*’ ,)-*’ >12>/ ; 0 25’ =-6A7*-.’ 1 ‘ ,)6, ‘ 1 >*’ 8*-*’ 2, -10 ; >*0’ 2, 1’ ,)*’ .*-+ >*’ 1-’ .)C & *02*.06 ‘ ?? *0 6, */ ‘ 6 , *-’ ,)*’ 1//*>, 1-’ ,)6, ‘ 06 % **’ -1>, *-’ 12’ ‘ 1’ KRT : 119 ‘ " ’ ‘ 1’ .% + % 0*2 ‘ " " 1 ‘ ‘ .% + % ’

1?? . . 6- % 2’ ,)*’) ; ->)’ 1 ‘ 25/620 ‘ 62’ 1 >*-’ 8)1’ //’ ,)*’ D .)1= .’ =/6>*’ 2’ *L*-> . 25’ *>>/*^ . 6. , >6/A ; -. 0 >, 12 ‘ 2’ =/6>*.’ .1’ 6-’ 0 . , 62, ‘ -1?’ ,)*’ >) * ‘ >, I’ ,) 6, ‘ ,)*’ >)62>*//1-’ >6221, ‘ >6// ,)*’ =*1=/*’ , 1’ ,)*’ D .)1= .’ =- 2> =6/’ >12. . , 1- ‘ >1 ; -, ‘ 8 ,)1 ; , ‘ 5-*6, ’ , -1 ; D/*’ , 1’ ,)*?% ‘ 0*2 ‘ " " (‘ ’ ‘ .% + % K% 2’ ,)*’) ; ->)I’ 1 ‘ 1?*’ 6->)D .)1=. ‘ D .)1=. ‘ 1,)*-’ 0 52 , 6- *. ’ 6-*’ 0*=; , *0’ 6. ’ % ‘ 1-’ ,)*’ *L*-> . *’ 1 ‘ ; 2>, 12. ’ =-1=*-/ ‘ D*/125 25’ , 1’ ,)*’ =1=*T 620’ 2C,)*’ .6?*’ ?622*-’ D .)1=. ’ ?6AIC 0*=; , *’ % % ‘ ! ’ ,)*’ 6-*’ 0*=; , *0’ 1-’ 12*’ =6-, >; /6-’ 6>, ’ ,)*’ 6-*’ , *?=1-6- ‘ >1?? . .6- *. ’ I ‘ ’ % 8! ‘ . *+*-6/’ 20 + 0 ; 6/. ‘ 6-*’ >12^ A1 2, / ‘ 0*=; , *0’ 1-’ . ; >)’ 6’ ; 2>, 12’ ,)*’ ‘ 6-*’ >6//*0’ 6’ 2 ! ’ =*-.12. ‘ 6-*’ >/1,)*0’ D ‘ ,)*’ =1=*’ 1-’ D ‘ 6’ D .)1=’ 8 ,)’ =18*-’ , 1’ *L*-> . *’ -*5 ; /6-/ ‘ ; 2>, 12. ‘ D*/125 25’ , 1’ ,)*?’ ,)*’ ‘ 6-*’ >6//*0’ % % ‘ 9 ‘ I " ‘ % % 8! **’ & *, [*-’ ; 20’ & *, /*’) " = ! ’ %

NST *$*8)*-*’ 0*>-** J’ *, >%XT K% - -% --8 M ; // " ! >, .’ LL+ ‘ KX% < < ‘ (% **’ L #!

1?? . . 12*-’ 6’ 5/1. .’ -*20*- 25’ M ‘ <6>>% ‘ K X % ‘ ‘ % *1 >*-%

1?? 10 1 ; . ‘ 6’)-., 62’) .,1-62 ‘ . ; ==1.*0’ , 1’)6+*’ D**2’ D1-2’ 2’ - >6’ 2’ ,)*’ .*>120’)6/ ‘ 1 ’ ,)*’ NO’ >*2, ; - ‘620’ , 1’)6+*’ D**2’ >12+*-, *0’ -1?’)*6,)*2^ .?% : *’ 8-1, *’ 2’ 6’ .1-, ‘ 1 ‘ 6>-1., >’ +*-.*’ OOO’ = ‘ ! ‘ ‘ 8) >)’ - 0 > ; /*.’) *6,)*2^ .?’ 620’ *L) 1-, .’ ,)*’)-., 62.’ , 1’ /*60’ 6’ =; -*’ / *% ’ I’ 6/.1’ >12,6 2.’) / 6., >’ 21, 12. ‘ 620’ 5 +*.’ 1 ; ’ ,)*’ 0*6’ ,)6, ‘ *-1’ 86.’ ,)*’ 2, >)- ., % ’ . ‘ 12*’ 1 ’ ,)*’ 1/0*.’ ; ?12 ; ?*2, .’ 1 ‘)- ., 62’) .,1- % ’ 86.’ = ; D/ .)*0’ D ‘ 56/, ’ M S XT D ‘ - 1- ; .’ , 15*,)*-’ 8 ,)’ ,)*’ 81-9.’ 1 ‘ =- 62’ M 6- . ’ S 4X’ T E*’ >) ; -[/* .>)’ M & ,, *2D% L^ ’ , 1 X’ 620’ D ’ 6+ . ; .’ M 6?D- 05*’ X% *>’ 5-9*’ $ ’ $! ’ 1 ! ’ ’ T ! *, [*-’ ; % & */, >’) " = ! ’ S% ’

1?? 10 ; . ‘ ; > ; .’ 2-.’ $ $ ‘ 6’ 1?62’ *?=*-1-’ 86.’ D1-2’ % ’ S ‘ 620’ . ; >>**0*0’) .’ 6,)*-’ <6-9’ ; -*/ ; . ‘ 6.’ *?=*-1-’ 2’ Q % -1?’ *6-/ ‘ 1 ; ,)’)*’ 86.’ 21, *0’ 1-’ 8*692*..’ 1 ‘ >)6-6>, *-’ / >*2, 1 ; .2*..’ 620’ >-; */, % : .’ 6,)*-’ 86.’ ,)*’ -., ’ *?=*-1-’ 8)1’ . . ; *0’ 6’ 0*>-**’ 1 ‘ =*-.*>; , 12’ 656 2.’ ,)*’)-., 62.% 2’ ,)*’ 6>>*.. 12’ , 1’ ,)*’ ,)-12*’ 1 ‘ 1?? 10 ; .’ ,)*’ =*-^ .*>; , 12’ >*6.*0’ 18 25’ ,’ 86.’ .6 0’ , 1’ ,)*’ 2 /; *2>*’ 1 ‘) .’ >12>; D 2*’ <6-> 6’ >>1-0 25’ , 1’ -*26*; . ’)-., 62.’ 8*-*’ 1 ; 20’ 0 ; - 25’ ,)*’ -* 52’ 1 ‘ 1?? 10 ; .’ *+*2’ 2’ ,)*’ =6/6>*’ 620’ 2’ ,)*’ .*-+ >*’ 1 ’ ,)*’ *?=*-1-% ; , ’ ,)1 ; 5)’ 1?? 10 ; .’ 0 0’ 21, ’ 0*>-**’ , 1’ =*-.*>; , *’ ,)*’)-., 62.’ ,)*-*’ 8*-*’ /68.’ 6>>1-0 25’ , 1’ 8) >)’)-., 62.’ 8)1’ 8*-*’ 2 1-?*0’ 656 2., ’ 8*-*’ , 1’ D*’ , -*0% ( ) ; .’ ,)*’ /*6-2*0’ .*26, 1-’ =1//12 ; . ’ 8)1’ 86.’ 2 1-?^ *0’ 656 2., ’ D ‘ 12*’ 1 ’) .’ ./6+*.’ 86.’ >120*?2*0’ , 1’ 0*6,)% 6-, 6/ =*-.*>; , 12.’ 0 ; - 25’ ,)*’ -* 52’ 1 ‘ 1?C ?10 ; .’ 6-*’ ?*2, 12*0’ D ’ (*-, ; // 62’ 620% -*26*; .’ / 9*^ 8 .*’ .=*69.’ 1 ‘ ?6-, -.’ 1 ‘ ,) .’ ?*% ; , ’ 6.’ *?? 1C 0 ; .’ 86.’ . ; ==1.*0’ , 1’ D*’ 6+1-6D/ ‘ 0 .=1.*0’ , 1806-0’ ,)*’)-., 62. ‘ ,)*’ 51+*-21-.’ 1 ‘ ,)*’ =-1+ 2>*.’ */, ‘ 21’ 2^ >/ 26, 12’ , 1’ >6-- ‘ 1 ; ‘ ,) *’ /68.’ 656 2., ’ ,)*’)-., 62.% ‘ ! *, [*-’ ; % & */, *’) "!= ! ’ ’ %

1?? 12’ M 1OV1, X% ()*’ 4- **9, *-?’ =-1=*-/ ‘ . 5^ 2 *.’ " ’ ’ ‘ M6.’ 2’ & .0% + ‘ N’) 1’ D ; ‘ ,)*’ : *//*2 . , .’ 6==/ *0’ , ’ M/ 9*’ ,)*’ : *D-*8’ 2 X’ , 1’ 8)6, ‘ 86.’ =-1 62*’ % *% ’ " ‘ 620’ ,)*-* 1-*’ 1 ‘ >1?^ ?12’ 1-’ =-1? .>; 1 ; ‘ ; .*’ M >, .’ L ‘ X% ()*’ 6/.1’ 6=^ =/ *0’ ,)*’ , *-?’ , 1’ 8)6, ‘ 86.’ % ’ 8)*),)*-’ 26, ; -6//A ‘ 1-’ /*56// ‘ M6.’ 2’ < 6-9’ + ‘ K ‘ >1?=6-*0’ 8 ,)’ ‘ <6>>% ‘ ‘ SKX% 26// ‘ , ’ 86.’ ; .*0’ 1 ‘ ?*6, .’ 1-D 00*2’ 1-’ .:>)’ 6.’)60’ D**2’ =6-, 69*2’ 1 ‘ D ‘ 01/6, *-. ‘ 620’ 8) >)’ 6.’ ,)*’ ‘ -*20*-*0’ ,)*’ =6-, 69*-.’ ,)*-*1 ‘ ?=; -*’ 8*-*’ ,)*? . */+*.’ >6//*0’ 1 +0’ M>1?2 ‘ 12X’ 620’ 6>0S A1-6’ M ; 2^ >/*62X’ M.**’ ; 20/’ 12’ >, ’ L ‘ X% **’ !

1?? 12C)1 ; .*% ‘ -11?’ 2’ 6’ ?126., *-EI’ 8)*-*’ 6’ -*’ .’ >12., 62, / ‘ 9*=, ’ 1-’ ,)*’ ?129.’ , 1’ 86-?’ ,)*?^ .*/+*.%

1?? 12’ *% **’ 8 ‘ ‘ ‘ ‘ ‘ L ‘) !

1?? 12’ 1, ’ (: ‘ ’ (: % **’ 1-’ 8 ‘ ‘ ‘ ‘ ‘ ‘) f 6

1?? 12’ -6 *-’ ,)*’ .*-+ >*C) 119’ 1 ’ ,)*’) ; ->)’ 1 ‘ 25/620’ 620’ 1 ’ ,)*’ -1, *. , 62, ’ = .>1=6/) ; ->)% , ‘ .’ .1’ >6//*0’ D*>6 ; .*’ , ’ >12, 6 2.’ ,)*’ =-6E1*-.’ 8) >)’ ,)*’ ?*?D*-.’ 1 ’ ,)1.*’ >) ; ->)*.’ ; .*’ ‘ 6.’ 0 .^ , 25 ; .)*0’ -1?’ ,)*-’ 0*+1, 12.’ 6.’ =- +6, *’ 20 + 0 ; 6/.% 2’ ,)*’ + *8’ 1 ’ ,)1.*’ >) ; ->)*.’ ,)*’ 0*+1, 12.’ 1 ’ .*=6^ -6, *’ 6? / *.’ 1-’ =*-.12.’ ?6 ‘ D*’ >120 ; >, *0’ 2’ 62 ‘ ?10*’ 8) >)’ D*., ’ . ; , ’ ,)*’ > ->; ? . , 62>*.’ 1 ‘ *6>)’ D ; ‘ A1 2, ’ 81-.) =’ ‘ =-6 *-’ ? ; , ’ D*’ 2’ 1-?.’ 12’ 8) >)’ 6 / 6-*’ =-*+ 1 ; ./ ‘ 65-**0’ D*>6 ; .*’ ,)*.*’ 6/12*’ >62’ * ; 6// ‘ *L=-*. ’ >1?? 12’ 862, .’ M.**’ 6212.’ IQQ’ 620’ RQ’) ; ->)’ 1 ‘ 25/620’ 12’ ,)*’ 1D/ 56, 12’ , 1’ ; .*’ ,)*’ 119’ 1 ‘ 1?? 12’ -6 *-’ 3 0*2 ‘ " " (‘ ’ =

?1.,’6//’,)*’1 >*.’ 2’,)*’; “’ ’ ’ 1’*L^ >*=,’,)*’1-0*.’1’D6=, .?’ 1.’=*-.12.’1’=-=*-’ *6-.’620’ ,)*’>1 2?:?6, 12‰ ()*’7->6,’1DA*>,’1’,)*’8)1/*’ .’,1’ 600-*..’,)*’ *2, -*’ 81-.,)=’,1’ 410’,)*’ 6,)*-’,1’,)*’ ;,,*-’ *L>/;. 12’ 1’410’,)*’ 12’620’410’,)*’ :1/’ = - ,‰ ()./,;-77’.’,)*’D6. .’1’&’ 9 % % ’ “ “ ; “’ ’ ’ 1’ ’ “’ 2 ’ ’ “ ’@ ’6% % ’ “ % ’ ’; ’\<6..6>);^ .*,,.h’ Z+ ’ “’ “ ’ ’ ’ ’ ’ ’ ’ M 1.,12’ Q ’Q+1X‰ ()./ 86.’-*=- 2,*0’2’Q ’620’ 656 2’2’QNQ’8,)’ ;-,)*-’6/,*-6, 12.‰ M %X -” ’ ; “’ 1 ’ 1’ % ’ ’ “ ’ 2 ’ ’ “ ’6 “’ “ “’ ’ + ’ “ ’ “ ’ “’ ’ ’ 1’ 86.’=- 2,*0’6,’ ;29 -9’2’ R ‰ ()*’6212 ?1;.’ >1?=/*-’.,.*.’,)6,’)*’ 1//18*0’,)-1;5)1;’,)*’=/62’ =-1=1.*0’D’ -‰ /6-9*‰ ().’D119’0*+ 6,*.’/*..’ -1?’ ,)*’/,;-5 ’1’,)*’);->)’1’ 25/620’,)62’,)*’ 1> 2C 62’/,;-5 ’6D1+*’21, >*0J’M 60*’! !3!:’\!3-” ’$ 9 ’$ ’ “ ’ “ ’ 1- 5 26// ’=-*=6-*0’ D’B1)2’&*./* ‰ 2’>1?=6- 25’6’>1= ’1’,)*’*0, 12’ -” ’$ ’$ ’U “/’ “ ($1’ “’ “ ’ , ’ #’$ ’M-*=- 2,*0’2’QKSX’8,)’,)*’; “’ ’ ’ 81’ 20’,)6,’,)*’ -.,/*..12.’1-’ ;2^ 06 .’6-*’-*,6 2*0’A D;,’ 1-’,)*’.*>120’/*..12.’ 2’,)*’ ?1-2 25’6’>)6=,*-’1;,’1’,)*’ 1;-’41.=*/,’1-’,)*’ >,.’ 1’,)*’ =1../*.’ .’,1’D*’-*60’620’2’,)*’ *+*2 25’6’ >)6=,*-’1;,’1’,)*’*= ../*.’ 2’-*5;/6-’-1,6, 12‰ <62’ +*-D6/*L=-*.. 12.’8)>)’)6+*’D>*-’*L>*=,*0’656 2.,’ 6-*’)*-*’>1--*>,*0‰ */*>,’=.6/?.’6-*’6==1 2,*0’,1’D*’ -*60’8)/*1,)*-.’6-*’6D- 05*0‰ ()*’12/ ’>-**0’-*60’ .’,)6, 1’,)*’6=1../*.‰ ()*’1 >*.’1-’,)*’D6=, . =’1’ 2 62,. ’1-’1’=*-.12.’1’- =*-’ *6-.’,)*’>*/*D-6, 12’1’ ?6,- ?12 ’,)*’>1?? ;2 12’1’,)*’. >9’620’,)*’D; - 6/ 1’,)*’0*60’6-*’.)1-,*2*0‰ ()*’1 >*.’1-’,)*’1-0^ 26, 12’1’=- *.,.’620’0*6>12.’620’1-’,)*’>12.*>-6, 12’ 1’D.)1=.’6-*’6/,*-*0’2,1’1-?.’1-’,)*’1-0 26, 12’1’ 0*6>12.’*/0*-.’620’.;=*- 2,*20*2,.’620’,)*’( ) -, C 2 2*’ -, >/*.’6-*’-*0;>*0’,1’,8*2,A7C +*‰ ()*’ >52*’ 620’ ,)626. 62’ -**0.’620’,)*’6=1>-A7=)6/D119.’1’ ,)*’ /0’(*.,6?*2,’6->’1? ,,*0‰ 1?*’1D.1/*,*’81-0.’ 6-*’-*=/6>*0’D’1,)*-.’8)>)’6-*’?1-*’*6. /’;20*-^ .,110‰ 2’*0, 12’1’,) .’D119’86.’=-*=6-*0’8,)’,)*’ 2*>*..62’7’?10 >6, 12.’1-’,)*’;.*’1’,)*’?*- >62’ <*,)10.,’);->)’D’<-‰ &*./*’ 2’ Q ’6’.*>120’ *0, 12’./5),/’?10 *0’2’ QS’ ()./ -6 *-CD119’ 86.’;.*0’1-’.1?*’,?*’2’,)*’ ?*- >62’<*,)10.,’);->)’D;,’,’5-60;6// ’0-1==*0’1;’,’1’;.* 8,/,;)1;’ 62 ’=-1) D, 12’)18*+*-’12’,)*’=6-,’1’,)*’4*2*-6/ 12 *-*2>*‰ ’?10 *0’1-?’1’,’6==*6-.’2’-”’ $ ’$ ’ ’ ’” ’ ” ’6% % ’ ” “’$ ” ’ *0,*0’D’(‰ ;?2*-.’ % ‰M 6.)+ //* QS X’M %X -” ’ ’ ’ ’” ’7 ’ ” “’ ’ ’ ” ’7 ’ D ’ ’ ” ’5 ’% % ’ ’ ’ ’ ” ’ ? ’ 86.’=;D/.)*0’2’QKQ’620’.;=*-^ .*0*0’6//,)*’/,;-5*.’8)>)’)60’=-*+1;./’D**2’;.*0’ D’,)*’ 8*0*2D1-5 62.’1-’1//18*-.’1’ ?62;*/ 8*^ 0*2D1-5‰ ’ $ “’ ’ =” ” ’ ‰ & ’ ’” ’) +’ ’$!1& ’,)*’>1?2*>*?*2,’ 1’,)*’/*1-?6, 12’2’ >1,/620’,)*’ -1,*.,62,’21D/*.’ 620’D6-12.’6..*?D/*0’6,’ 0 2D;-5)’2’ *>*?D*-’ ’ 65-**0’,)6,’,)*’81;/0’-*.,’.6, .*0’1-’,)*’ =-*.*2,’8,)’,)*’-*60 25’1’,)*’=-6 *-.’620’/*..12.’2’ 25/.)’6>>1-0 25’,1’,)*’1-0*-’1’,)*’; “’ ’ 9 ’ ’,)6,’.’,)*’/,;-5’1’9 25’ 086-0’ 2’*+*-’=6-.)’12’ ;206.’620’1,)*-’ *., +6/06 .’ () .’-*5;/6, 12’)18*+*-’>12, 2;*0’2’ 1->*’12/’6’ .)1-’,?*’1’ 2’ SK’,)*’ +’ ’ ’ ’ >1?? 12/’,*-?*0’` 21L.’ ,;-5 ’86.’=6-, 6// ’2^ ,-10;>*0’620’D’6=’6>,’1’,)*’4*2*-6/ ..*?D/’ =6..*0’ *>*?D*-’KS S ’,.’;.*86.’6;,)1- ,6, +*/’ 1-06 2*0’2’6//,)*’>);->)*.’2’>1,/620‰ ()./,;-5’ 86.’,69*2’-1?’,)*’1-0*-’1-’/,;-5’;.*0’D’,)*’ 25^ /.)’>);->)‘6,’4*2*+6\’ ,’>12,6 2.’1-?.’1-’?1-2 25’ 620’*+*2 25’=-6 *-’,)*’>*/*D-6, 12’1’D6=, .?’,)*’ 1-0.’ .;=*- 2,*20*2,.’1-’=-*.D ,*-.’8)1’8*-*’2+*.,*0’8,) *= .>1=6/ ;2>, 12.’,)*’1-0*-’1’*>>/*. 6., >6/0)‘>‰ =/2*’1’*L>1?? ;2 >6, 12’620’1’=;D/>’-*=*2,62>*’ 6’,-*6, .*’12’6., 25’620’1-?.’1’=-6 *-’1-’01?*., >’ 620’=- +6,*’;.*‰ ’2*8’*0, 12’1’-” ’ ’ ’ “ ’ “’ ’$:’ !’D “ ’) (’; +’ ’ ’ , ’86.’=;D/.)*0’ ,)*’ +*+‰ -‰ 4;??25’6,’ 12012’2’Q ’2’Q?1‰ -” ’7 ’ +’ ’ ! ’ ’ ’ ’ ’ ’ ” ’@ ’ ’ ” ’) “ ’ ’$ 9 ’ ’; “ ’ ’@ “’ ’ ’ =- 2,*0’2’ S ’.’6’+*-’D- *’6D.,-6>,’1’ 6/+2.’4*2*+62’ = +’1-’-6,)*’1’ 21L.’; “’ ’ ’ , ! ,’.’-*=- 2,*0’2’,)*’ -.,’+1/;?*’1’:6// .’ @ ’ ! **’ # ! K‰ ’ ’” ’6% 1 ’ “ “’ ’$ % ’’ ()*’/,;-5’1’,)*’ =.>1=6/);->)’2’ >1,/620’.’6,’ =-*.*2,’2*6-/ ’,)*’.6?*’6.’,)6,’1’,)*’);->)’1’ 25^ /620’)6-/*.’ ’2’ SN ’?60*’62’ ;2.;>>*.. ;/6,^ ,*?=,’,1’2,-10;>*’2,1’ >1,/620’6’; +’ ’(U ’ ’>1=*0’8,)’.1?*’6/,*-6, 12.’ ’,)6,’1’ 25/620’8)>)’=-10;>*0’,)*’1/*?2’*65;*’620’1+^ *262,‰ ()6,’/,;-5E7’86.’=-*=6-*0’D’6->)D.)1=’ =1,C ,.8110>’1’,‰ 20-*8.7’620’ 20.6’1’4/6.518’ 6.. ,*0’D’&*00*-D;?’0*62’1’,)*’)6=*/’1 6/6,’ 0 2D;-5)’620’D’D.)1=.’4;,)-*’<6L8*//’620’ &), 1-0‰ 2’,.’D*25’.*2,’,1’ 12012’)6-/*.’ -* *--*0’,’,1’,)*’*L6?26, 12’1’6->), .)1=’ 6;0’620’ 1’&-*2’D .)1=’1’)I‰ ,’86.’=;D/.)*0’6,’ 0 2^ D;-5)’2’1/1’620’*2, ,/*0’-” ’ ; + ’ ’ ’ 9 ’ ’& ’ ’ ’” ’$ ’ ’ ’ ” ’% ’ ’’ $ ’ ’” ’2 ’ ’” ’ “’ ’$ ’ ()./,;-5E’.’-*=- 2,*0’2’,)*’.*>120’+1/;?*’1’:6// .’5 24 ’ .’6’>1=1;.’D D/15-6=)>6/’620’).^ ,1-’>6/’6>>1;2,’1’,’8 //’D*’1;20’2’+1/‰ ’=‰ L/C ddd ‰ -1?’S ’;2,/’6,.*-’,)*’-*.,1-6, 12’2’KSSN’ ,)*’ ’# ($$601=,*0’D;,’D ’21’?*62.’ ,.-.>,/ ’60)*-*0’,1’2’+6-1;.’2.,62>*.’M6.’2’,)6,’1’ =-6 25’1-’,)*’>+/51+*-2?*2,X’620’8)*2’*=.>1^ =6>’86.’-*.,1-*0’,15*,)*-’8,)’?126->)’,’,’ 21,’ ,)1;),’60+.6D/*’,1’-*2*8’,)*’6,*?=,’,1’2,-10;>*’ 6’=;D/>’/,;-5 ’.1’,)6,’*L>*=,’6,’1-0 26, 12.’8)*2’ ,)*’ 25/.)’1-?.’8*-*’;.*0’6.’6-’6.’/1>6/>->;?C .,62*D.’81;/0’60?’,’21’-*5;/6-’1-?’1’=-6 *-’86.’2’ 5*2*-6/;.*’8)/*’=.>1=6’>12, 2;*0’,1’D*’,)*’1-?’ 1’?2.,-’2’,)*’ .,6D/.)*0’);->)‰ <62’20**0’ 1’,)*’=.>1=6/>/*-5’>1?=/*0’1-?.’,1’D*’;.*0’D’ ,)*?.*/+*.’2’,)*-’=6-,>;/6-’>125-*56, 12.’8,)’.1?*’ =*,,12.’620’>1//*>,.’,69*2’1;’,’1’,)*’ 25/.)’D119’ 620’6//1’,)*?’;2 1-?/’>12>/;0*0’,)*-’=6 *-.’8,)’ ,)*’ 1-0.’-6 *-’620’,)*-’ 25 25’8,)’,)*’01L1/1C 5‰ ’ ’ ’ ’” ’ ’ ’6 ’$ ’ ’ ’ ” ’ “ ’” “’ ’& ’>1?=1.*0’D’,)*’ *+‰ :*2-’ >1;56/’=-1*..1-’1’,)*1/15’2’,/’> 25.’1//*5*’>12, 2;*0’2’;.*’;2, /,)*’ *+1/;, 12’ 8)*2’,)*’ -*.D ,*-62.’81;/0’21’/125*-’,1/*-6,*’6’ 8-,,*2’=-6 *-‰ ,’/*25,)’2’ K’,)*’25/.)’; +’ ’ ’ ’ 86.’;2+*-.6// ’601=,*0’D’,)*’ >1,,.)’ =.>1=6/);->)’8,)’/,,/*’+6-6, 12’*L^ >*=,’2’,)*’>*/*D-6, 12’1’,)*’ ;>)6-.,‰ 2’,)6,’.*-^ +>*,)*’1-0*-’1-’,)*’60?2..-6, 12’1’,)*’1-0.’==C =*-’.’.;D.,62, 6// ’,)6,’2’,)*’/,;-5’6;,)1-[*0’D’)6-/*.’’D;,’8,)’6/,*-6, 12.’?60*’,1’?69*’,?1-*’ >12 1-?6D/*’,1’,)*’ -.,’620’>1?=6-6, +>/A’?=*-.*>,^ /’-*1-?*0’/,;-5’1’9 25’ 086-0’ ‰ ’,)*’,8*2^ ,C -.,’>6212’1’-” ’ ’ ’ ’” ’6% % ’ ” “’ ’$ ’6.’-*+.*0’6?*20*0’620’*26>,*0’D’62’*>>/*. 6., >6/. 210’)1/0*2’1-’,)6,’=;-=1.*’6, 0 2D;-5)’-1?’ ;5;.,’K’,/’ *=,*?D*-’S’ QNQ M 0 2D;-5)’QNQ Q+1X’6’,*-’-6, 25’620’>12 -?25’ ,)*’=*-? ..12’1-?*-/’5-62,*0’D’,)*’D.)1=.’’,1’6// ,)1.*8)1’=-1*..’,1’)*’1’,)*’*= .>1=6/=*-.;6.12’2’ >1,/620’%%%%’,1’-*,6 2’,)*’;.*’1’,)*’ 25/.)’1 >* 2’6// >125-*56, 12.’8)*’,*-*’,)*’.6 0’1 >*)60’=-*+1;.7’ /’D**2’2’;.*’,’.’*26>,*0’’(6,’2’,)*’;.*’1’*,)*’1’ 2’6// 62’.;D. ,;,12’1’,)*’1’ 2’6// D*’6==-1+*0’D’,)*’D.)1=‰

2 ,)*' @ ' ' M_ +%X ( )-**' >/6..*.' 1 ' >- =,;-6/ =6..65*.' 8*-*' 600;>*0 D ',)*' 1/0 ;,)*-62 8-,*-.' 2 D*)6/ ' 1 ',) .' 01>,- 2*a ',)1.*' 2 8) >)' _;6/ , *.' D*/125 25 ,1 12** 26,;-*' 12/ '6-*' 6,,- D;,*0 ,1 ,)*' 8)1/*' =*-.12 K',)1.*' 8) >)'=-*0 >6,*' 1 '12** 26,;-*' 62 6>, + , ' 8) >)' D*/125.' ,1 ,)*' 81-9 1 '-*^ 0*?=, 12 '>12.*_;*2,/ ' ,1 ,)*' 8)1/*' =*-.12 N ',)1.*' 8) >)',-62. *-' 0 + 2*' 6,,- D;,*.' ,1)- .,.') ;?62 26^ ,;-* ()*' @ ' (1)18*+*-' *L=-*../ ' -*A*>,.' 6 -*-.,- >, 12 1 ',)*' 0 + 2** 26,;-*' 2 >12.*^ _;*2>*' 1 ' ,.' ;2 12 8 ,)' ,)*') ;?62 U8 25/*' 8 ,)' 8)1?'12',)*' 8)1/*' ,)*' ,)*1/15 62.' 1 ',)*' * 1-?*0) ;->)'65-**0 '-A*>,*0',)*' 01>,- 2*' 1 '6' -*6/ (' M=*>;/ 6-' _;6/ , *.' 1 ',)*' ,81' 26^ ,;-*.X '620' *L=/6 2*0',)*'=6..65*.' 600;>*0 D ',)*' ;^ ,)*-62.' 6.' 5;-.-*.' 1 '.=**>)'MO f1Z8M-,*X ()*' ;=-6C 26,;-6/ ., >' .>)11/ 1 ',)*' /6,*-' 4*-?62',)*1/15 '01*.' 21,'*L=-*../ '-*A*>,',)*'01>,- 2*' D;,*L=/6 2.' ,'686 ()*' 6, 126/ .,>' 7 .,)*, >' 620' =*>;/6, +*' .>)11/ 1 '4*-?62 '*,)*-'-*A*>,' ,'*2, -*/ '1-'=6-,/ '=;,';=12 ,'62'*,) >6/ 1-' .=*>;/6, +*' >12..,-;>, 12 ()*'-*+ +*0 7-62' 1-,)101L ' 1 ',)*' R,)' >*2,;- ' =6-,/ ' -*^ .,- >,H ,.*/ ',1' 6' ?*-*' -*+ +6/ 1 ',)*' 1/0' 01>,- 2*' 620 =6-,/A*7 6,,*?=,.',1' >1?=/*,*' ,' D ' 6..*-, 25' 6' .> C>C .,- >, 12' 1 ',)*' 0 + 2*' 26,;-*' 2')- .,' 2' >12.*_;*2>*' 1 ') .' ;2 12 8 ,)',)*') ;?62 >>1-0 25',1 ,) .' 01>^ ,- 2*' 8) >)' 86.' 2 =6-, >;/6-' 0*+*/1=*0 D ' 6-,1- ;.' I1 ' % ':' /' ' " 2 + ' 2 " 1 : 6?D;-5 ' QNKX 620' ()1?6. ;.' >; ' / ' + "=' " ' " ' -/625*2 ' Q X',)*' 151W -1?' ,)*' ?1?*2,' 1 ') .' 2>6-26, 12 ' -*21;2>*0') .' ' = ' 2' 1-0*-',1'0*+*/1=') ?.*/' 2' 6' ?*-*^ / ') ;?62' 1-?% **' D*. 0*.',)*' 81-9.' 6/-*60 ' ?*2^ , 12*0 ' 1?*-' # ' ' " ' ' " 0 2D% ,-%62./6, 12 ' +1/% T : 6.*' 6 " ' '1 +1' =% KK ' . %T 4 *./*-' " "' # 1'*0 ,*0'D ' ?,)' +1/% +' g N T : 65*2D6>)' # (' ' ' M ?,) .X' g KSM ' KS T *6-.12 , ' " ' 1'6-,% T 620',)*' 6-, C 7>/*' ?;.(4 '=% KQ %

1?? ;2 >6, +*' *% >>/*. 6., >6/ 8- .*-. ' 2'ON.>- D 25',)*')6D ,.' 1 '?129. '0 ., 25; .)'D*,8**2 ' 620' ' ' ( )7 ; ., 6/ =/62'86.' 1-' >620 06,*.',1' ,69*' 6' .1/*?2' +18' 1 '=1+^ *-, '620' >12.*_;*2,/ ' ,1' -*21;2>*' ,)*' 81-/0' D '0.C =1. 25' 1 ',)*-' *.,6,*.',1' >)6- ,6D/*' ;.*.'D* 1-*' ,)*' *2,*-*0' 2,1' 6' >1?? ;2, ' 8)*-*',)*' 8*-*',1')6+*' 6//,) 25.' 2' >1?? 12% ,)*-.' 9*=,',)*-' *'*.,6,*.' 2',)*' -' 182')620.' 620' *,' *2A1 *0' 21' ?1-*' 1 ',)*?',)62' ,)*' ')60' =6..*0' 1+*-',1' 1,)*-.T 1-',)*' 0 .,- D;,*0' ,)*' -' 8)1/*' *6-/ ' -*+*2;*' ,1' ,)*' =11-' 620',1' .;>)' ;.*.' 6.' ,)*' 06 / ' 2*>*.. , *.' 1 ' ?*2' -*_; -*0% ()*' /6,,*-' 86.'>6//*0',)*' '/ *% '- 6--6-' 6 ' 1' .% +%T 25)6?', '6 '+ 'N R%

1?? ;2 1' 6 >6' 2',)*'/625;65*'1 ',)*');->)' 1' 1?*' ?*62.' =-1=*-/ ',)*' -629' 1 ',)*' /6, ' D;,' ' ?1-*'>1?? 12/ ';.*0',1'. 52 ',)*' '1 '6'>/*-5 ?62' ,-62. *--*0' -1?',)*'=- + /*5*0'>/6..'1 ',)*'>/*-5 ',1',)*' /6 '>1?? ;2, % 2/ ',)*'>/*-5 '1 ',)*'/18*-'5-60*.' M7*' #3' >1;/0' +1/ ;2,6- / ' 51' D6>9' ,1' ,)*' -629' 1 ',)*' /6, T ,)1.*' 8)1')60'-*>* +*0' 12*' 1 ',)*') 5)*-' 1-0N-.' M;=86-0.' -1?',)*' 0 6>126,*X >1;/0' D*' ,-62. *-^ -*0' D6>9' ,1',)*' /6, ' 12/ 'D '/*56/ 0 .=*2.6, 12' 5-62,^ *0' D ',)*' =1=*' 1-' D '0*5-606, 12% /*-5 ?*2' 1 ',)*' /18*-' 5-60*.' >62' 6>>1-0 25',1',)*' >6212' /68 ' >12^ ,-6>,'6'+6/ 0' ?6-- 65*'D;',)*-*D '/1.*',)*' -' D*2* >*.' 620',)*' =- + /*5*.' 1 ',)*' >/*-5 % ()*' 1;2>/ 1 ' (-*2,'6//18*0',)6,' 2' *L>*=, 126/ >6.*.' ,)*' /18*-' 1-^ 0*-.' D*' >12 *--*0';=12' ?6-- *0' ?*2' M 2' >6.*',)*')60' 21,' D**2' ?6-- *0' 1 ,*2*-',)62' 12>*X 620 '12' >120 , 12' 1 ',)*' -' 8*6- 25',)*',12.;-*' 620',)*' >/*- >6/)6D ,' 5-62,*0',1',)*'?',)*' % ' ' ' M.** #3!' 6=6/ 0 .=*2.6, 12' 1-' ?*?D*-.' 1 ',)*') 5)*-'>/*-5 ',1'-*C*2,*-',)*'-629'1 ',)*'/6, ' M 2'=6-^ , >;/6-' 1-',)*' =;-=1.*' 1 ' ?62;- 25X)6.' 12/ ' D**2' 5 +*2' 2'-6-*' 2.,62>*.% ()*',-62. *-' 1 '6'>/*-5 ?62' ,1',)*' -629'1 ',)*' /6, ' 6.' 6'=;2 .)?*2,',119'=/6>* 6>>1-0 25',1',)*' 62> *2,'>6212 >6/ /68 ' 2' >122*>, 12' 8 ,)' 0*=1. , 12' D;,' 6>>1-0 25',1',)*' /6,*-' /68 ' 12/ ' 2' >12.*_;*2>*' 1 '0*5-606, 12' M_ +%X **' &*,[*-';% &*/,*') + = ! ' QT 25)6?', !'6 !'L+ KT' 6--6-' 6 ' ' !' .% +%

12?? 2 1' *-*5- 26% 3 2',)*' *6-/ ');->)' ,)*',*-?>1?? ;28'0*21,*0' 21,'12/ '6'=6-, > =6, 12' 1 ',)*' ;>)6-.,' D;,' 6/.1' 6' - 5),' 1 '=6-,69 25' 1 ',)*' D1;2, '1 ',)*');->)% &)*2',-6+*//*-.' 1-' .,-625*-.' >6?*',1' 62 ' >),)1;,' D- 25 25' (M 1'D ' 8) >)',)*' ?5),' D*' 6.>*-,6 2*0',1'D*' ?*?D*-.' 1 '.1?*')- ., 62' >);->)',)*A*' 8*-*' / 6D/*' ,1',)*' .;.^ =>12',)6,',)*' '8*-*' ;20*-',)*'>*2.;-*' 1 ',)*');->)' ,1' 8) >)',)*' ')60' D*/125*0% $2, /',)*' '>1;/0',);.' >/*6-',)*?.*/+*.' -1?' ?=;,6, 12',)*' 8*-*' 21,' 60^ ? ,',*0',1',)*' 1-0 .',6D/*' D;,' 8*-*' 6//18*0',1' 0*- +*' ,)*' -' ?162.' 1 ',*?=1-6/ ?6 2,*262>*' -1?',)*');->)' ;20% 2',)' .' 86 '0*/ 2_;*2,'>/*-5 ?*2' 8*-*' .1?*^ ,?*.',-*6,*0' 2',)*' -' 182 >);->)*.'620',)' .' 86.'>6//^ *0' % ! ()*' 8*-*' 21,'=*-? ,,*0',1' 1 >6,*' 1-',1' D*'=-*.*2,'6,',)*' >*/*D-6, 12'1',)*' 1-0 .' ;==*-';2, /',)*' ')60'5+*2' .6, . 6>, 12',1',)*');->)% 6--6-' 6 !' ' !' .% +%T 25)6?', !'6 !'L+ '

41?? ;2 12' M >1 +8+?' 6' " 81' 2' 1-0 26-A1' ,*--6.' 62' 6..1>6, 12' 1-' 65-**?*2,'%8)*2' .*+*-6/ =*-^ .12.'A1 2' 620' =6-,69*',15*,)*-' 1 '12*',) 25T)*2>*',.' 6==/ >6, 12',1',)*' >*/*D-6, 12' 1 ',)*' 1-0 .' ;==*-'6.' 62' 6>,' 1 ' */18.) =' 6?125')- ., 62.' M ' 1-% L ' SXT 620',.',1',) .' 6>,' 1 '=6-, >=6, 12' 1-' */18.) =',)6,' ,)*' 81-0' >1??;2 12 J' 2',)*'-*/ 5 1;.'.*2.*' .'218' >) * / '6==/ *0' 2',)*' 25/ .)'/625;65*% 2' K 1-% + &' ',69*.',)*' 0*- +*0'.*2.*' !' ()*' >1?^ ?;2 12' 1 ,)*' : 1/ 4)1.,J MK' 1-% L ' X'. 52 *.',)6,' .= - ,;6/ 2,*->1;-.*' 8 ,)',)*' 0 + 2*' = - ,' 8)>)',)*' >) /0' 1 '410' ?6 2,6 2.'D ' 6 ,)'620'=-6 *-% ()*' 4-**9' ,*-?')6.' /.1' 6'.*>1206- ' ?*62 25' 1 ' ' 2' >)6-^ , ' 2' 1,)*-'=6..65*.' 8)*-*' ,' .'-*20*-*0' '>12,- D;^ , 12 J' 0 .,- D;, 12 J' 1-' >1??;2>6, 12J \8)>)' .**%' ()*' 81-0' .'*/.*8)*-*',-62./6,*0' . ?=/ ' *(C 3f18.)=J M_ % xxx' 1-'6'/6-5*'2;?D*-'1',-*6, .*/12',).' .;DA*>,'.'* 1/D*0 25' ' '=% ._% M %X' I) (8 "Y ' =-1=*-GE7?*62.' ,)*' " '.1?*,) 25' ' '8,)'621,)*-% :*2>*' 2',)*')- ., 62' .*2.*' ,' . 52 *.',)*' .)6-)5' ' 1-' 2,*->1;-.*' M 'B1)2' 'NXT 620' 6.',).' ,69*.' =/6>*' .6>-6?*2,6// ' 2',)*' 1-0 .' ;==*-',)*' 81-0' 2' 6',)-0' .,65*' . 52 *.' % % ' 2' 6' .= -^ ,;6/ .*2.*' 1 ',)*' D10 '620' D/110' 1 ')- .,' % *' 1 ') .' = - ,' MB1)2' + 'SNX 2',)6,' .6>-6?*2,' M ' 1-% L ' SX' 1?*' *L=/6 2',)*') ' 2',)*' 1-0 .' ;==*-',1' D*' 6' ' 1 ',)*' `D10 ' 620' D/110' 1 ')- .,' 6.',)1;5)',)*.*' 8*-*' 5 +*2' D ',)*');->)',1',)*-*^ >* +*-'D;,',)*' 6D1+*' 6>>1;2,'1',)*' 1-0*-' 2' 8) >)',)*' .*2.*.' 1 ',)*' 81-0')6+*' 5-182' 1;,' 1 '12*' 621,)*-' .)18.',)6,'.;>)'62' 2,*-=-*,6, 12' .';2,*26D/*% ()*');->)')6.' 21,' 21-' =-*,*20.',1' 5 +*' 62 ,) 25' 6.' -1?')*-.*/' 2',)6,' 1-0 262>*' D;,')- ., 62.' >1?* ,15*,)*-',1')1/0' >1??;2 12' 8 ,)' *6>)' 1,)*-' 620' 8 ,)',)*' -' M12>*C.6>- >*0X 1-0' 1',)*' D*2* ,.' 1' 8)1.*' 0*6,)' .6>-6?*2,6// ' *L) D ,*0',)*')-*' 2' 6' .=*> 6/',)1;5)'12/ '.= - ,;6/' 2+6- 6D/ '7*?=/1 ',)' 0*. 526, 12J M 0*2X **' > $ ' 'T) ' $/4' Z % MK%X' 2' 6' .,1- >6/ .*2.*' ' 0*21,*.' =6-C I' , >=6, 12' 2',)*' ? .,*- *.' 1 ',)*')- ., 62' -*/ 5 12' 620' 1 ' >1;-.*');->)' *//18.) =' 8 ,)' 6// ,.' - 5),.' 620'=- + /*5*.% : *2>*',)*',*-?' 'L>1??;2>6, 12%J

2',) .' .*2.*',)*' 81-0' .' ; .*0'6/.1'8 ,)'-* *-*2>*',1' ,)*' 60? . . 12'1 '=*-.12.',1',)*' 1-0 .' ;==*-'( ) .' .' .6 0',1'D*' % '8)*2'6// 6-*' 60? ,,*0'8)1'6==/ ↑ ,1' D*' '8)*2' >12 2*0',1',)*' ?*?D*-.' 1 '6' . 25/*' .1> *, '1-' 6,' /*6..',1' ?*?D*-.' 1 ',)*' .6?*' 0*21? I' 26, 12↑ 620' ,' ,' ' P+)* f=*-.12.' 6-*' 60? ,,*0' -1?' .1> *, *.' 1 '0 *-*2,'0*21? 26, 12. ' 12',)*' =-1^ *.. 12' * ',)*-' 6 ,)' 620' *+ 0*2>*' 1 ',)*-'= *, '6.' .' %,)*' >6.*' 2' -1,*..62,'>);->)*.' 5*2*-6// ' ()*'=- 2^ > =6/ 0 >;/, '12',) .' =1 2,'6- .*.' D*,8**2',)*' ,-.> ,' 6=, .,.' 620' e01CD6=, ,,. ' $ ' '1V\' ?125',)*' 6=^ , .,.' ,)*-*' .' 6' >12,-1+*-. '12',)*' .;DA*>,' 2' 8)>)' ,)*' ,81' =6-, *.' M>6//*0' @ (' 620' $ ' 1-6? ;2 12C .,.X' ?6 ' D*' -*=-*.*2,*0'-*.=*>, +*/ ' D ' 1D*-.' : 6// 620'D 'B\'4\' ;//*-' ()*' 1//18 25'.,6,*?*2,' *?D-6>^ 25',)*' .;D.,62>*' 1 ',)*' >12,-1+*-. ' .' ,69*2' -1?' -182.' 6 % ' '5 ') ' .'\'+\ M6X' '()*' 1= 2 12'1 ' <-' : 6//',)6,'D6=, .?' .' 21,'6' =-*-*_; . ,*',1',)*' =6-, > =6, 12'1 ',)*' ;>)6- .,'-;2.' ,)-1;5)' 6//') .' -*6.12 25.' 2' 6+1-' 1 ' ;2-*.,- >,*0' >1?? ;2 12' 620' .',)*' -*6/' 1;206, 12'12'8)>)',)*' -*.,' .' =1. , 12.' 6-*',)*' 1//18 25' ()*' D6=, .?' 1 'B1)2'86.' 6' .*=6-6,*' 2., ,;, 12' -1?',)6,'6==1 2,*0' D ')- .,'6 ,*-') .' -*. ;--*>, 12↑ -1?' 8)>)' ,' 1//18.' ,)6,',)*' 1-0 .' ;==*-' 86.' 62,*- 1-',1')- ., 62' D6=^ , .?' 620' ,)6,',)*' 1- 5 26/'>1?? ;2 >62,.' >12. .,*0' *2, -*/ ' 1 ' .;>)' 6.')60' 21,' -*>* +*0',)6,' 1-0 262>*' K' ()6,',)*-*' .' 21' .;>)' >122*>, 12' > ,)*-' 2',)*' 26^ ,;-*' 1 ',) 25.' 1-' D ',)*' 0 + 2*' 2., ,;, 12' D*,8**2' D6=, .?' 620',)*' ;>)6- .,' 6.' -*20*-.' ,' ;20*-'6// > -^ >; ?.,62>*.' 20 .=*2.6D/*',)6,',)*' 1-?*-'.)1;/0'=-*^ >*0*',)*' /6,,*-' N' ()6,'60? ,, 25',) .',1'D*',)*'=-*^ .>- D*0' 1-0*-' 620',1' D1' .62>, 12*0' D ',)*' ;2 1-?' =-6>, >*' 1 ',)*' 6=1.,/*.' ,)*' >6.*' 1 ' = 1 ;.' ?01CD6=C' , ,.,' .' 6' 2*8' >6.*' >6// 25' 1-' .1?*'=*>;/ 6-',-*6,?*2,' 2' 8)>)' 8*' 1;5),',1'-*56-0'-6,)*-',)*' % ',)62',)*' '1 '6=1.,1/ >'=-*>*0*2,' ' ()6,'6'.>) .-' 2',)*');->)',)*' ? .,>6/D10 '1')-.,' .' 0*=-*>6,*0' 2' ,)*' *8' (*.,6?*2,'6.',)*' 5-*6,*.,'*+/' S' ()6,'6' -*>*=, 12',1');->)' */18.)='1 '6//.;>)'6.' 410')6.' -*>* +*0' 21,8,).,620 25' 6' 0 +*-. , ' 1 ' 1= 2 12' 620' =-6>, >*' 2' ?6,,*-.' 21,' *..*2, 6/',1' .6/+6, 12' .' *L^ =-*../ '*2A1 2*0' 2',)*' *8' (*.,6?*2,'M 1?' L +' C' T d ' ' C X' S' /)6,',1' 8,))1/0',)*' 1-0 .' ;=^ =*-' -1?',)1.*' 8,)' 8)1?' 8*';2,*' 2' 1,)*-'6>,.' 1 ')- .,62' 81-.)='.' 6' =6/=6D/*' 2>12. .,*2> ' 20' /6../ ',),)6,',' .' 6.' ?=1/,>' 6.' ,' .' // D*-6/' D* 25' >6/>;/6,*0',1' 6868 9*2' 6' =18*- ;/=-*A;0>*' 620' =/6>*' D* 120',)*'-*6>)'1 '>12+>, 12'1;-' .*01CD6=, .;D-*,)^ -*2'620',1'*25*20*-'6?125',)*' 6=, .,.',)*?.*/+*.'6' 26--18' 620' .*>,6-62' **/25' 8)1//A71==1.*0',1',)*' *2/6-5*0' .= - .'1 ',)*' =-*.*2,'65*' I* % ' + ' ' 5 ' ; ' 'K CKN T 6/.1' 'KQNCS X' I"8' ()*'=1. , 12.' ;-5*0'12',)*' 1==1. ,* . 0*' D' <-' B\'4\' ;//*-'6-*',)*.*a' ()6,'6//',)*' 6-5;?*2,.' 8)>)' 6-*' ;.*0',1'0*.,-1 ',)*' 0*2, ,'1 'D6=, ..?' 6.' =-6>, >*0'D 'B1)2'620',)*' 6=1./*.' D* 1-*',)*' 0*6,)'1 ')- .',' 8 ,)',)6,'=-6>, >*0'6 ,*-86-0.' 6?1;2,'12/ ',1' =-11 '1'6' ' 21,' 62' ' 0 *-*2>*' 620' >6221,',)*-* 1-*' 86--62,',)*' 2 *-*2>*.' 1 ' <-' : 6/ 2'62 '12*' =1 2,' K' ()6,',)*' >1?? .. 12'1 '1;-' 1-0' =<6,,'LL+ ' R'K X' ;-2 .)*.',)*' .6?*' *+ ^ 0*2>*' ,)6,'D6=, .?' .'62' 20 .=*2.6D/*'=-*-*_; . ,*',1' *L,*-26/');->)' */18.)='6.',)6,' 6 ,)' .'62' 20 .^ =*2.6D/*'=-*-*_; . ,*',1' D6=, .?' Q' ()6,',)*' ;2 ^ 1-?' *L6?=/*.' 1 ',)*' 6=1./*.' .'62' 2.= -*0' *L=/626^ , 12'1 ',)*' >1?? .. 12' ;20*-' 8)>)',)*' 6>,*0' 620'6' =6,,*-2' 2,*20*0' 1-',)*' 2.,-;>, 12'1 ',)*');->)' 2' 6// .;>>**0 25' 65*.' ()6,'.,-',1' >12 1-?' ,'1',)*' >1?? .. 1201')-.,',);.' *L=/6 2*0' .' 21,' " ' D;',)*' 12/ '=1.. D/*' ?10*' 1'-*.,1- 25' 620' =*-=*,;6^ , 25' " ' f' ()6,',)*' ?;,;6/ 1-D*6-62>*' 3'*2A1 2*0' 12')-.,62.' 2',)*' *8' (*.,6?*2,'-*/6,*0' ,1' ?6,,*-.' 1 '-*6/ 20 *-*2>*' 21,' 2+1/+ 25',)*' .;-^ -*20*-'1 '62 '=1. ,+*' 2.,,;, 12'1 ')- .,'620' .',)*-*^ 1-*' 26==/ >6D/*',1',)*' =-*.*2,'>6.*' ()6,',1';2 ,* 8 ,)' .*01C 6=, .,'D-*,)-*2' 2'6//.;>)'6>,.'1 '81-.)=' 620' D*2*+1/*2,'* 1-,'6.'01'21,' ?=/ '62'6D62012?*2,' 1 ',)*' >1?? .. 12' .' 21,'62' 2>12. .,*2> 'D;,\,)*' 0>ZZ ,6,*' 1 ')- ., 62' >)6- , ' 20 '/6../ ',/ ',/6,',1' 8)6,^ *+*-' ?=;,6, 12.'6' .,- >,'60)*-*2>*',1',)*' >1?? .. 12' 1 ')- .,'?6 ' .;DA*>,',)*' 6=, .,'>);->)*.' ' .'D*,,*-' ,1' .;*-',)*?',)62',1' . 2↑ 620',)6,'6'0*+ 6, 12' 2'0* ^ *-*2>*',1'?10*?'*--1-'>)18*+*-'>12.> *2, 1;./ '?6 2^ ,6 2*0' .' 2*',)*-'>)6- , '21-')- ., 62'8 .01?' . 2>*' '8)6,*+*-' .'-5),' .'8 .*\J')- ., 62.'?6 '>1-0 6// ' ;2 ,*' 2',)*' *+625*/ [6, 12' 1',)*' 81-/0'D;',)*' ' 21,' 21-' ',)*' 8 ,)1;,' 6' >)625*' 1' .*2, ?*2,. ' ;2 ,*' 2',)*' >12., ,;, 12'1',)*-'>);->)*.' > 9 ' '$ ' ' ' 'D 'B\'4\' ;//*-X\J ,' .' .6 0',)6,' ?1.,' 1',)*' 25/ .)' 6=, .,' 6+1-' -*'*>1?? ;2 12↑ ,)1.*'1',)*' $2,*0' ,6,*.' 6-*' ?1.,^ / '>/1.*'>1?? ;2 12 .,.'*L>*=,',)*' -*'C8 // 6=, .,.' 8)1'6-*' 6.'6'D10 '1=*2'>1?? ;2 12 .,.' ** ;-, .' ' 5 ' ' " ' & ' ' 7 'M) /6' Q K?1X' ' 6' ;// 6-5;?*2,' 1-' >/1.*' >1?? ;2 12↑ 6/.1' " '5 'L+' K '620' 62' 6D/*' 6-, >/*' D ' -' : 1+* ' ; " ' $ 1La E !' QSK' 6-,' +' ** 6/.1',)*' .6?*' B1;-26/'B;/ ' QS ' 6-,' '620'B;/ ' QS '6-,' ** 8 / ! ' '. ? /7'>12,-1+*-. ')6.'D**2'51 25'12' 2',)*' ;.)*-62');->)' 2'8)>)',)*' : 5)C);->)'=;-,f'-*^ ;.*.',)*' 60? .. 12'1 '?*?D*-.' 1',)*' * 1-?*0'620' 6//212C ;.)*-62'>);->)*.',1' >1?? ;2 12' **)$L ! ' ()*' * 1-?*0' -*.D ,*- 62.'M 1+*262,*-.X' 2' >1,/620'620',)*' $2,*0' ,6,*.' 620',)*' $2,*0' ->.C D ,*- 62.' 2',)*' $2,*0' ,6,*.' 6-*' 6/.1'D*/ *+*-.' 2' ,)*' 01>,-2*' 1' >/1.*' >1?? ;2 12↑ D;' 2' 6//',)*.*' >);->)*.',)*-*' .' 6' =6-, ' 8)>)' .,-125/ ' >12,*20.' 656 2.',) .'01>,-2*'620' 2' 6+1-'1 '1=*2'>1?? ;2)'2\ ',),)*' $2,*0' -*.D ,*- 62' 4*2*-6/' ..*?D/ ' 1 ' QS ' ,)*' .;DA*>,' 1 '>/1.*'>1?? ;2 12' 86.',)*' >) * ',1=>' 1 ' 0 .>;.. 12' ()*' *+' & ' <> ;2*',)*' 6;.)1-' 1 '6' D119'656 2.',>/1.*'>1?? ;2 12'86.'>*2.;-*'0'D '6'/6-5*' ?6A1- ,A' ** & ' > ;2*' " "' @ "(%' '5 !'D!'-!' ; ;!'!' ' "' 2 ' '-" '$ ' '" ' ' & ' 'M 2> 226, ' & // 6?' >1,,' QSS' =' X' 6/.1' & ' 2262'M ' ' -*.D ,* 62X' -" ' ' '

5-*6,' *L=*2.*' ,1' =-1>;-*' , ' ,' .6 .' ` ' > ->; ? .,62>*' 8) >)' =- 2> =6// ' 2 /; *2>*0' ,)*') ;->)' 2' *. .6D/ .)^ 25',) .' =-6>, >*' 86. ',)6,' ?*62.' 8*-*',1' D*' 0*+ .*0',1' >-;.)' ,)*')*-*. ' 8) >)' 0*2 *0' ,)6,')- .,' 8)1/*' 620' *2, -*' .' >12,6 2*0' ;20*-' * ,)*-' .=*> *.' 620' 6..*-,*0' ,)6,',)*' D10 ' .' >12,6 2*0' ;20*-',)*' .=*> *.' 1 'D-*60' 8 ,)1;',)*' D/110' 620',)*' D/110' ;20*-',)*' .=*> *.' 1 ' 8 2*' 8 ,)1;',)*' D10A%' ( ) .' 1DA*>,' 86.' 6,,6 2*0' D ' >1? ? ;2 12' ;20*-',)*' .=*> *.' 1 ' D-*60' 6/12*' 8) >)' =/6>*. ' 6.' ,' 8*-*' .*2. D/ ' D* 1-*' 1 ;-' * *. ' ,)*' ,-;,)' 1 ',)*' 6,)1/ >' 6 ,)%I' -1,*.,62,. ' D*/ *+*' ,)6,' 8 ,)^ 1 ;',)*' >;=',)*-*'>62' D*' 21' .6>-6 ? *2,'6,'6// ' 620',)*-.*^ 1-*' ,)*' ;>)6- .,' .' 21,' >*/*D-6,*0' 2' ,)*' 1? .)') ;->)%J' 1-',)*') .,1- '1 ',) .'_;*., 12 '.*') ' $ / / ! ' 25)6? ', !'6 '" L+ ' T' 6--6- ' 6 !' ' !'.%' %

< < $ ' ' ('12*' 1 ',)*' =1 2,.' 1 ' 6')- ., 62 .' 6 ,)' 6>>1-0 25',1',)*' =1. ,/*. ' -**O% %' >1-0 25',1',)*' 5 ' " ' 0* 2 , 12 ',' .' >' 1-0 25',1',)*' 5 ' " ' KX% M>X' 21,)*-' + *8' .' 5 +*2' D ' & /^ .12 ' 8)1' -* ? 6-9.',)6,' 8) /*',)*' 1? .)' + *8' .' ;2C .>- =,;-6/',)6,' 1 ' *6-.12' 620' 1,)*-.' .' +65;*%' : ' 81-9' 6 ?.' ,1' .)18' ,)6,',)*' D120' 1 ' ;2 12' 6?125')- ., 62.' MO*21,*0' D ',)*' ' 8' .' 21,' ,1' D1' .1;5),' M X' 2' 0*2, , ' 1 '01>,- 26/ D*/ * .' 1-' MHX' 2' 0*2, , ' 1 '-*/ 5 1;.' **/ 25' 1-' *L=*-.*2>*' 6.' **/^ 25 ' 1-' MNX' 2' 0*2, , ' 1 ' 1-?.' 1 ');->)' 51+*-2?*2,' 2' 81-.) = ' D ;.' 2' ;2 , ' 1;20*0' 2' ,)*' 6>, 12' 1 ',)*' 5-6>*' 1 ' 410' 21,' ?*-*/ ' 2' ,)*')*6-,. ' D ;.' 2' ,A*' 6>, + , *.' 1 ')- ., 62.%' **' & /.12 ' ; % ' ' M L 1-0 ' Q 'Q+1X% %' < < $ ' ' (: ' % **') ' $ / L / ! < < $ ' ' ,)*' 1 >*' 1-',)*' 60^ ? 2 .,-6, 12' 1 ',)*' ;>)6- .,' 1-' .6>-6 ? *2,' 1 ',)*' 1-0 .' ;==*-% **') $ #! < < $ C(' 6',6D/*' 12' 8) >)',)*' .6>^ -6 ? *2,6/ D-*60' 620' 802*' 6-*' =/6>*0' 1-',)*' >1? ? ;2^ 12' 2' -1,*.,62,' >) ;->)*.%' ',)*' * 1226, _2 ' ' 8*-*' -*!*>,*0' 6.' / 9*/ ',1' .;==1-.',)*' 21, 12' 1 ' 6' ? 6,*- 6/ .6>- >*' 656 2.,' 8) >)',)*' * 1-? *-.' =-1^ ,*.,*0% *>' ' $ / / ! 1 ? ? ;2 .? '6',)*1- '1 ' >1? ? ;2 , ' 1 '=-1=*-^ , J'11 ,*2' 6,,* ? =,*0',1' D1'-*6/ [*0' 2' =-6>, >*% % ' ' + ' %" %" $ ' ' ' ! ' ()*' ? 1.,' 62> *2,' 1-?' 1 '>1? ? ;2 .?' 92182',1';.' .' 1;20' 2',)*' ? 126.,*-^ .' 1;00) .? ' 2' 6,,* ? =,.',1'-*6>)' 62' 0*6/ 1 '.62>^ ' D ' -*21;2> 25' ? 6-- 65*' 620' =-1=*-, % 2',)*') ,.1- ' 1 '4-**>*' 6' 1-?' 1 '.1> *, ' D6.*0' ;=12' >1? ^ ? ;2 , ' 1 '5110.' .' 6.>- D*0',1',)*' 1-0*-' 1 ' ,)651-*^ 62.% ;' D ' 6-',)*' ? 1.,' ?=1-,62,'-*=-*.*2,6, +*' 1 ' 3 >1? ? ;2 .,>' 0*6.' 2' =6562' 62, _ ; ' .' /6,1 ' 8)1.*' 81-9' 12',)*' 0*6/ .,6,*' ., // -629.' 6 ? 125',)=' D*.,'),6,')6.' *+*-' D**2' 8- ,,*2' 2' 6+1-' 1 ' >1? ? ;2 .? % /6,1'-*56-0.',)*'=1..*.. 12' 1 '=- +6,*' =-1=*-, '6.',)*' .1;->*' 1 '*+*- ' *+ / 1-',)*' .,6,* ' 1 '6+6- >*' 1 '*51^ , .? ' 1 '6' /18' >)6-6>,*-% : *',)*-* 1-*' 6//18.' 12/ ' ,)*' /18*.',1 ',)*',)-**' >/6..*.' 2,1' 8) >) ' 6>>1-0 25' ,1') ? ',)*' .,6,*' .' 0 + 0*0' 620' 8) >)') *' *L>/ ; 0*.' -1? ' 6'=6-, > =6, 12' 2',)*' 51+*-2? *2,' 1 ',)*' ..6,*' ,1' =1..*.. ' =- +6,*' =-1=*-, % ()*',81' -; / 25' >/6..*.',)*' 6->)12,*.' 620',)*' 86-- 1-.' 6->' .;DA*>,*0' D ' /6,1',1' >1? =;/.1- ' >1? ? ;2 .?' 2',)*' 8 0*.',*2.*' 1',)*' 81-0% .' D1,)' >/6..*.' 8*-*',1' / +*' *L>/ ; .+*/ ' 1-' 4)1.,' 8)1.*' .62>, 25' 5-6>*.' 6-*' >12 *--*0' 12',)1.*' 8)1.*')7=6-,.' 6-*' 0;/ ' =-*=6-*0' 1-',)*-' -*>*=, 12') /' ' T' K' 1-% L ' XT',)6,')- ., 62.')6+*' 6/.1' >1? ? ;2 12' 8 ,)',)*')1/ ' 625*/. ' 8)1' 6-*' ? 2 .,-*> 12+*' *0',1' 25' .= - ,.' .*2,' 1-,)' ,1' ? 2 .,*-' 1-',)*?' 8)1' .)6// D*')*-.' 1 '.6/+6, 12') : *D% ' T' ;9*' L+' T' <6,,' L+ ' X% ,)6,' D*. 0*.',)*' *L,*-26/ *//18.)=' 8)>)' ,)*' ')6+*' 2',)*' 81-0' 620' .6>-6 ? *2,.' 1',)*');->)' ,)*' ')6+*' 62' 2, ? 6,*' ;2 12' 620' >12%;2>, 12' 8 ,)' 6//,)1.*' 8)1')6+*' *+*- 7B1)2' T' 1/% ' RXT' 620',)6,')- ., 62.')6+*' >1? ? ;2 12' 21,'12/ ' 8 ,)',)*' .6 2,.' 12' *6-,D ' D ;.' 6-*' 1 ' 12*' > , ' 620' 12*' 6? / ' 8 ,)' 6//,)1.*' 8)1')6+*' *+*- 0 *0' 2' ,)*',-;*' 6 ,)' 620' *6-' 1 ' 410' 620' 218' *2&1 ' ,)*' =-*.*2>*' 1 ',)*' 6,)*-' 620' 8)1' 2',)*-' .,6,*' 1 ' 5/1- ' ., $' . ? =6,) [*' 8 ,)',)*' 6 ,) ;/ D*/18 76.. .,^ 25' >1? 1-, 25' 620' =-6 25' 1-',)*?' M : *D% L ' KK' KNX% ()*' D*/ * ' 1 ',) .' >1? ? ;2 12' 1 '.6 2,.' .)1;/0' *L> ,*' 620' *2>1;-65*' ;.' ,17)1/ 2*..' 1 '/ *% ' ' 86/9' 2',)*' / 5),' 6.' 410' .' 2',)*' / 5),' 8*')6+*' */^ /18.)=' 12*' 8 ,)' 621,)*-T' D ;' ` ' 81' .6 ' ,)6,' 81')6+*' *//18.)=' 8 ,)') ? ' 620' 86/9' 2' 06-92*.. ' 81' / * ' 620' 01' 21,' ,)*',-;,) ' M ' B1)2' ' S' X% ,' .)1;/0' 20;>*' ;.' ,1' 8 .)' 8*// ,1' 6// ? 629 20 ' 620',1' -*20*-' ,)*?' *+*-A' 5110' 2' 1;-' =18*-% (1',)1.*' 8)1')6+*' 1D,6 2*0',)*' / 9*' =-*> 1;.' 6 ,)' 8 ,)' 1;-.*/+*. ' 8*' 6->' ., // ?1-*' 2*6-/ ' -*/6,*0' 6.' D* 25' 2' 6' =*>;/ 6-' .*2.*' >) /0-*2' 1 ',)*' .6? *' 6,)*-' 0 .> =/*.' 1 ',)*' .6 ? *' <6.^ ,*-' 62 ?6,*0' D ',)*' .6 ? *' .= - ,' 620' ? *? D*-.' 1 ',)*' .6 ? *' D10 J' M **9*-',' " 1' /*>,% L +T *6-.12' ,' " ' ' M*0% ' =% RXT' * 5),12' ,' " ' ' >' " 1' ' KX% M>X' 21,)*-' + *8' .' 5 +*2' D ' & /^ .12' 8)1' -* ? 6-9.',)6,' 8) /*',)*' 1? .)' + *8' .' ;2C .>- =,;-6/',)6,' 1 ' *6-.12' 620' 1,)*-.' .' +65;*%' : ' 81-9' 6 ?.' ,1' .)18' ,)6,',)*' D120' 1 ' ;2 12' 6?125')- ., 62.' MO*21,*0' D ',)*' ' 8' .' 21,' ,1' D1' .1;5),' M X' 2' 0*2, , ' 1 '01>,- 26/ D*/ * .' 1-' MHX' 2' 0*2, , ' 1 '-*/ 5 1;.' **/ 25' 1-' *L=*-.*2>*' 6.' **/^ 25 ' 1-' MNX' 2' 0*2, , ' 1 ' 1-?.' 1 ');->)' 51+*-2?*2,' 2' 81-.) = ' D ;.' 2' ;2 , ' 1;20*0' 2' ,)*' 6>, 12' 1 ',)*' 5-6>*' 1 ' 410' 21,' ?*-*/ ' 2' ,)*')*6-,. ' D ;.' 2' ,A*' 6>, + , *.' 1 ')- ., 62.%' **' & /.12 ' ; % ' ' M L 1-0 ' Q 'Q+1X% %' < < $ ' ' (: ' % **') ' $ / L / ! < < $ ' ' ,)*' 1 >*' 1-',)*' 60^ ? 2 .,-6, 12' 1 ',)*' ;>)6- .,' 1-' .6>-6 ? *2,' 1 ',)*' 1-0 .' ;==*-% **') $ #! < < $ C(' 6',6D/*' 12' 8) >)',)*' .6>^ -6 ? *2,6/ D-*60' 620' 802*' 6-*' =/6>*0' 1-',)*' >1? ? ;2^ 12' 2' -1,*.,62,' >) ;->)*.%' ',)*' * 1226, _2 ' ' 8*-*' -*!*>,*0' 6.' / 9*/ ',1' .;==1-.',)*' 21, 12' 1 ' 6' ? 6,*- 6/ .6>- >*' 656 2.,' 8) >)',)*' * 1-? *-.' =-1^ ,*.,*0% *>' ' $ / / ! 1 ? ? ;2 .? '6',)*1- '1 ' >1? ? ;2 , ' 1 '=-1=*-^ , J'11 ,*2' 6,,* ? =,*0',1' D1'-*6/ [*0' 2' =-6>, >*% % ' ' + ' %" %" $ ' ' ' ! ' ()*' ? 1.,' 62> *2,' 1-?' 1 '>1? ? ;2 .?' 92182',1';.' .' 1;20' 2',)*' ? 126.,*-^ .' 1;00) .? ' 2' 6,,* ? =,.',1'-*6>)' 62' 0*6/ 1 '.62>^ ' D ' -*21;2> 25' ? 6-- 65*' 620' =-1=*-, % 2',)*') ,.1- ' 1 '4-**>*' 6' 1-?' 1 '.1> *, ' D6.*0' ;=12' >1? ^ ? ;2 , ' 1 '5110.' .' 6.>- D*0',1',)*' 1-0*-' 1 ' ,)651-*^ 62.% ;' D ' 6-',)*' ? 1.,' ?=1-,62,'-*=-*.*2,6, +*' 1 ' 3 >1? ? ;2 .,>' 0*6.' 2' =6562' 62, _ ; ' .' /6,1 ' 8)1.*' 81-9' 12',)*' 0*6/ .,6,*' ., // -629.' 6 ? 125',)=' D*.,'),6,')6.' *+*-' D**2' 8- ,,*2' 2' 6+1-' 1 ' >1? ? ;2 .? % /6,1'-*56-0.',)*'=1..*.. 12' 1 '=- +6,*' =-1=*-, '6.',)*' .1;->*' 1 '*+*- ' *+ / 1-',)*' .,6,* ' 1 '6+6- >*' 1 '*51^ , .? ' 1 '6' /18' >)6-6>,*-% : *',)*-* 1-*' 6//18.' 12/ ' ,)*' /18*.',1 ',)*',)-**' >/6..*.' 2,1' 8) >) ' 6>>1-0 25' ,1') ? ',)*' .,6,*' .' 0 + 0*0' 620' 8) >)') *' *L>/ ; 0*.' -1? ' 6'=6-, > =6, 12' 2',)*' 51+*-2? *2,' 1 ',)*' ..6,*' ,1' =1..*.. ' =- +6,*' =-1=*-, % ()*',81' -; / 25' >/6..*.',)*' 6->)12,*.' 620',)*' 86-- 1-.' 6->' .;DA*>,*0' D ' /6,1',1' >1? =;/.1- ' >1? ? ;2 .?' 2',)*' 8 0*.',*2.*' 1',)*' 81-0% .' D1,)' >/6..*.' 8*-*',1' / +*' *L>/ ; .+*/ ' 1-' 4)1.,' 8)1.*' .62>, 25' 5-6>*.' 6-*' >12 *--*0' 12',)1.*' 8)1.*')7=6-,.' 6-*' 0;/ ' =-*=6-*0' 1-',)*-' -*>*=, 12') /' ' T' K' 1-% L ' XT',)6,')- ., 62.')6+*' 6/.1' >1? ? ;2 12' 8 ,)',)*')1/ ' 625*/. ' 8)1' 6-*' ? 2 .,-*> 12+*' *0',1' 25' .= - ,.' .*2,' 1-,)' ,1' ? 2 .,*-' 1-',)*?' 8)1' .)6// D*')*-.' 1 '.6/+6, 12') : *D% ' T' ;9*' L+' T' <6,,' L+ ' X% ,)6,' D*. 0*.',)*' *L,*-26/ *//18.)=' 8)>)' ,)*' ')6+*' 2',)*' 81-0' 620' .6>-6 ? *2,.' 1',)*');->)' ,)*' ')6+*' 62' 2, ? 6,*' ;2 12' 620' >12%;2>, 12' 8 ,)' 6//,)1.*' 8)1')6+*' *+*- 7B1)2' T' 1/% ' RXT' 620',)6,')- ., 62.')6+*' >1? ? ;2 12' 21,'12/ ' 8 ,)',)*' .6 2,.' 12' *6-,D ' D ;.' 6-*' 1 ' 12*' > , ' 620' 12*' 6? / ' 8 ,)' 6//,)1.*' 8)1')6+*' *+*-

6=1/*12 ' 6-1. *' ,) *' .1> 6/ ., >' 01>,- 2*.' 1 ' ,% ? 12' ' 620' 1 ;- *-% ( ) *' 1-? *-' *L=/6 2*0') .' + *8 .' 2' UC*' " ' ' 1 1' ' ' + ' ' 2' ,) *' 1-? *Y'1 ' 8) >)') *' =-1=1. *0' ,1' *. ,6D/ .)' 62' 2^ 0 ; .,- 6/ . .,* ? ' 12' ,) *' D6. .' 1 ' =*- *>,' *_ ; 6/ , ' 8) /*' 2' ,) *' 6,,*-') *'6,,* ? =, .' ,1' 0 *? 12 .,-6,*' ,) 6,' ,) .' *_ ; 6/^ , .' 6' -* . ; /,' 1 ' ,) *' 0 + 2*' >1 ? 620 ? *2,' ,1' / +*' 12*' 621,) *-' 6.' D-*,) -*2% 2' 1-0*-' =-6>, >6// ' ,1' 6-- +*' 6,' ,) *' 1DA*>,' 1 ' ,% ? 12 ' 6[6-0' =-1=1. *0' ,) 6,' 6 ,*-' ,) *' 0*6,)' 1 '6' =*-. 12 ' ,) *' >1 ? ? ; 2 , ' 6,' /6-5*' 2. ,*60' 1 ') .' 6? / ' .) 1 ; /0' 2) *- ,') .' *. ,6, *%% 1 ; - *-' *L=1 ; 20^ *0') .' ,*? 2' ' -+" ' 4 21' 620' ' - ' ' N& ' ' 4 '& ' M QKK ' KO' *0 ,% Q X% : *' 6 ? . ' 6, ' ,) *' =-6>, >6/ ' =*- *>, 12' 1 ' ? 62^ 9 20 ') 20' >12. 0*-.') 6== 2*. .' 6. ' ,) *' 6 ?' 1 '6// ' / + 25' >-*6, ; -*. % & *6/,) ' .', 1' D*' 2>-*6. *0' 620' 0 . .*? 26, *0' 620' ,) . ' .', 1' D*' 6>>1 ? =/ .) *0' D ' 0 + 0 25',) *' >1 ? ? 12' =-1=*-, ' 620' D7f -*5 ; /6, 25' /6D1-' ; 2 , 25' =*-.12.' , 1' 81-9' 2' 5-1 ; =. ' 20 ; . ,- 6/ .*- *. ' 620' =) 6/625*. ' 6>^ >1-0 25' , 1' ,) * -' >6=6> , ' 1-' /6D1-1' ,) *' -*. ; /, ' 1 ' ,) *' A1 2, '/6D1-' , 1' D*' 0 + 0*0' 6 ? 125' ,) *' =-10 ; >*-.' 2' =-1^ =1-, 12' , 1' ,) * -' >6= , 6/ ' /6D1-' 620' , 6/*2, % 1 ; - *-' . ; >^ >**0*0' 2' 56 2 25' ,) *' = ; D/ >' *6-' 6 , *-' ,) *' 6// 1 ' , % C ? 12 . ? '620' 86. '5-*6, / ') *' /=*0' " ' >, 1-' 12. 0*-62, % : *' = ; D/ .) *0' 6' 2*8 .=6=*-' ' " ' 2' QNK ' 620' 2' QN ' 621,) *-' ' " 1' D ' ' '$ '$ -' 1', 1' 0 . .*? 26, *') .' 0*6. % , % ?1 . ?' 620' 1 ; - *- . ?' 56+*' - .*' , 1' 62' ?^ ? *2. *' 2 ; ? D*-' 1 '=; 0 >6, 12. ' 2' -62>*% ? 125' ,) *' ? 1. , '*? 2*2, ' 8- , *-. ' 6-*' 1 ; 20 ' 6 ? 125' ,) *' 1> 6/ . ,. ' 6 ? *226 . ' 8) 1 ' 2') .' 6 ' N 'MH'QK X ' 6, , *? =, . ' , 1' D- 25' ,) *' .1> 6/ ., >' 0*6' 2,1' ; 2 .12' 8 ,) ' -*/ 5 1 ; .' 015? 6. ' 8) /*' 2') .' =6 ? =) /*, ' ' (') *' >6//. ' ,) *' =*1=/*' D6>9' ,1' ; 2 12' 8 ,) ' ,) *') ; ->) ' 1 ' 1 ? *' 12' ,) *' 5-1 ; 20' ,) 6, ' , ' ; =) 1/0. ' ,) *' 01>,- 2*' 1 ' *_ ; 6/ , ' D* 1-*' 410' -1 ? ' 8) >)' .1> 6/ _ ; 6/ , ' 8 // 1//18% 1-' ,) .') *' 86. ' = ; ,' ; 20*-' ,) *' D62' DE7 ,) *' =1=*% , ; 25' D ' ,) .' , -*6, ? *2, ') *%= ; D/ .) *0' ,) *' 9 ' (' 2:' 4 ' 'N2 ' % :' ' ' ? 1' 8) >)' 6-*' 6? 125' ,) *' ? 1. , ' -60 >6/ 81-9. ' *L, 62, % ' 6' ? 1-*' 6D. , -6>, ' 620C. =*> ; /6, +*' >) 6-6>, *-' 6-*' ,) *' 81-9. 1 ' *--*' *-1 ; L ' U. .66. ' N6 ' M gN X ' 620' ' ' N# ' M Q X ' 8) *-* 2') *' >12. 0*-.' ,) *' =- 2> =/*' 1 ' *_ ; 6/ , E7' 6. ' 6' 015? 6 ' 620' -*>152 . *. ' 21' 0 ., 2>, 12. ' 1 ' >1 ; 2, -A ' 6? / ' 1-' =-1=^ *-, % ( ) *' /6, , *-' =1 2, ' . ' ,) *' 1 ; 206, 12' 1 ' -1 ; 0) 12 . ' 01>, - 2*') *' 6, , *? =, . ' , 1' =-1+*' ,) 6, ' ,) *' - 5) , ' 1 '=-1=^ *-, ' . ' ; 226, ; -6/ 2') . ' 81-9' (A '4 ' ' % + ' M Q X ' , 1' 8) >)' _ ; *. , 12') *' -*, ; -2. ' ,) *' . 52 >62, ' 62^ . 8*-' ' % ' (' ' N ! ( ) . ' 81-9' 86. ' 1/ 18C *0' D ' ' ' ' ' N , ' ' N# ' M Q NX ' 620' ,) *' " %" ' ' ' M Q SX% . ' ,) *' 60+1>6, *' 1 '. 1> 6/ . ?' 6? 125' ,) *' 2*8 .=6=*-.' 1; .' /62>' , 620. ' -. , % : .' =-. 2> =6/ 1DA*>, ' . ' ,) *' 1-562 [6, 12' 1 '/6D1-' , 1' D*' 6>>1 ? =/ .) *0' D ' ; . 25' . , 6, *' >1 ? =*, , 12' , 1' 0*C' . , -1A ?= - +6, *' >1 ? =*, , 12' ,) *' . , 6, *' 6>, 25' 6. '>6=, 6/ . , ' 620' -*8 6-0 25' *6>) ' 81-9*-' 6>>1-0 25' , 1') .' 0*. *-, . % ; 126-1, , .' M ' QN X # ' ' " ' % ' ' 9 ' MU6' % ' ' 6k*6VIM 6- . ' QKQX ' 56+*' -*.) ' > ->; /6, 12' , 1' 6D*; .' ,) *1- *. ' 8) >)' 1; 20' 1-562. ' 2' ' '5 % 1' QN CNQ ' 620' N+ ' 1'6 ^ , *-' ; 5 ; . . ' QNR% ' =-6>, >6/ 6==/ >6, 12' 1 ' ,) *. *' =- 2^ > =/*. ' 86. ' =-*+*2, *0' D ' ,) *' 2. ; --*>, 12' 1 ' ,) *' $ ' $ ' ' K,) ' QNR ' /*0' D ' /62_ ; ' 620' 6-DD. % ( ) *' 6 /; -*' 1 ' ,) 6, ' *2, *-=- . *' 06? =*0' ,) *' >1 ? ? ; 2 . ^ , >' . = - , ' 620' 1-' 6' 8) /*' ,) *-*' 8*-*' 12/A7' 6' *8' .1/ ^ , 6- ' 6, , *? =, . ' ? 60*' . ; >) ' 6. ' # ; *2 . . *, . ' M Q X% , // ' .*>-*, ' .1> *, *. ' >12, 2; *0' , 1' D*' 1-562 [*0' . ; >) ' 6. ' ,) *' $ 2' - ' 6 N ' >1 ? =1. *0' 1 ' ,) *' L*C' ? 6 2 25' 1//18*-.' 1 ' 6-D *. ' 8) 1' = ; .) *0' ,) *' >1 ? ? ; ^ 2 . , >' =- 2> =/*. ' , 1' *L, -*? *. ' 620' >12. 0*-*0' ? 6, *- 6/^ . ?' 6. ' ,) *' ? ? ; , 6D/*' /68' 1 ' 26, ; -*% ==1. *0' , 1') * ? ' 8*-*' " ' >1 ? =-. 25' ,) *' 5-*6, *-' =6-, ' 1 ' ,) *' 81-9 25 ? *2 ' 8) 1' 6 ? *0' 6, ' >1 ? ? ; 2 , ' 1 ' /6D1-1' 6' 2*8 .=6=*-' 60+1>6, 25',) * -' =- 2> =/*. ' N& ' 6=^ =*6-*0' 2' Q % ( ) *' O ' ') *60*0' D ' 6D*, ' . , -1+*' , 1' -*6/ [*' 62' 0*6/ . . , *? ' 1 ' >1 ? ? ; 2 . ? 0*= >, *0' D ' ,) *' /6, , *-' 2') .' N ' ' ' M Q X% ( ) *' . , 6, *' 2' ,) .' . . , *? ') 65' 21' =-1=*-, ' ? 12* ' 1 ' 0 . , 2>, ' ; 2>, 12' ,) *-*' 6-*' 21' 0 . , 2>, 12. ' 1 ' >/6. . *. ' 1-' -629. ' 620' *, ' ,) *' . , 6, *' .' ? ? *2. */A ' - >) ' 6. ' *+*- ' ,) 25' D*/125. ' , 1' , 1' ,) *' 2, *5- , ' 1 ' ,) *' 6? / ' . ' =-*^ . *-+*0 ' 620' ? 6-- 65*' D*/) ' .6>-*0 ' D ; ' ,) *' 81? *2' 6-*' *? =/1 *0' 2' ,) *' 5*2*-6/ 81-9.) 1=. 1' 6// 6 6 -. ' 6->' , 1' D*' . *, , /*0' D ' ,) *' -1? ' 8) 1. *' 0*> . 12. ' ,) *-*' . ' 21' 6==*6/% ( ) *. *' 0*6. ' 8*-*' ; -,) *-' 0 . . *? 26, *0' 2' 6D*, . ' 2*8 .=6=*-' ' % ! 2' *L, -*? *'. *>, ' 1 ' ,) *. *' >1 ? ? ; 2 . , . ' 86. ' *. , 6D/ .) *0' 2' Q N'D ' S[6? ' 8) 1 ' D- 25 25' *+*- ,) 25' D6>9' , 1' ,) *' 20 + 0 ; 6/ ' 6-^ - +*0' 6, ' ,) *' ; 206? *2, 6/ ? 6L ? ' ' ' ' ' ' ' :' >12. *_ ; *2, / ' 12*' ? 6 ' , 69*' 6//) *' -*_ ; -*. ' 1-' ,) *' , ? *' D*' 25% 2' ,) . ' . A . , *? ' 21' 410' . ' 2*>*. . 6- ' 620' ? 62' . 6, . *. ') ? . */ ' 8 ,) ' 8) 6, ') *' 20. ' 2' 26^ , ; -*% I % ' ' $ ' ' " ' 5 ' ' @ ' Q Q% ' ' ( ) . ' -*+1/ ; , 12' 56+*' 6, ' -. , ' 6' 2*8' ? = ; /. *' , 1' . 1> 6/ . ? % ( ) *' 81-0. ' 6 2 ' @ ' =1. , *0' 12' 6// ,) *' 86// . ' 620' 6==*20*0' , 1' 6// ,) *' 0*>-**. ' 1 ' ,) *' -*= ; D/ >' . **?*0' , 1' >12, 6 2' 6// ,) 6, ' 1> 6/ . , . ' >1 ; /0' 8 .) ' 1-% ( ) *' 51+*-2? *2, ' , . */ ' 86. ' >1? =1. *0' 2' =6-, ' 1 ' 1> 6/ . , . % ( ) *' -*. ; /, ' 86. ' ,) *' 1-562 [6, 12' 1 ' ,) *' 26, 126/ 81-9C.) 1=. ' 8) >)' 12/ ' . *-+*0', 1' =-1+*' 656 2',) *' ? =-6>, >6D / , ' 1 ' ,) *. *' ,) *^ 1-*. % ; ' >1 ? ? ; 2 . ? ' D*562', 1C / , ' , . ') *60' D ' ,) *' . 0*' 1 ' .1> 6/ . ? ' 620' ? 60*' 5-*6, ' =-15-*. ' 8 ,) ' ,) *' /18*-' >/6. . *. % 1,) ' ; 2 , *0' 2' ,) *' 2. ; --*>, 12' 1 ' B ; 2*' Q Q% ( ) *' = ; , , 25' 0182' 1 ' ,) *' ? 1+*? *2, ' D ' 4*2*-6/ 6+6 526>' 0 .=*-.*0' ,) *' /*60*-. ' .1 ? *' 1 ' 8) 1 ? ' , 119' -* ; 5*' 2' 25/620 1' D ; ' ,) *' -' 001>,- 2*. ' 2*+*-,) */*. . ' >12, 2 ; *0' , 1' 56 2' 60) *-*2, . ' 6 ? 125' ,) *' /18*-' >/6. . *. ' 1 ' -62>*% 2' Q ' 6' . *>-*. ' .1> 6/ . , >' .1> *, ' 86. ' 0 .>1+*-*0' 8) 1. *' -6 ? >6, 12. ' -1 ? % , . ' >*2, -*' 6, ' *[*-. ' *L, *20*0' 6/ ? 1. ,) -1 ; 5) ' ,) *' 8) 1/*' 1 ' .1 ; ,) *-2' -62>*' 620' 8) >)') 60' >1 ? =/*, *0' 6' =/62' 1 ' 5*2*-6/ 2. ; --*>, 12% ( ) .' 6/. 1' /*0', 1' ,) *' 0 .>1+^ *-E7' 2' 6- . ' 1 ' ,) *' .** *, ' .1> *, ' ' 7 ' 8) 1. *' ? *? D*-. ' 6, ' ,) * -' 2 . 6, 12' . 81-*' , 1' 0* *20' ,) *? 26/C *26DA*' - 5) , .' 1 ' ? 62' , 1' / D*-, ' *_ ; 6/ , ' 620' -6, *-^ 2 , ( ) *' 1> 6/ . ? ' 620' 1? ? ; 2 . ? ' 1 ' 8 , [*-/620' 620' 4*-? 62 ' =-*. *2, ' 21' =6-, >; /6-/ ' 2*8' *6, ; -*. ' D*' 25' ? 1. , / ' D6. *0' 12' -*2>) ' ,) *1- *. % 7' , *-' ,) *' 6 /; -*' 1 ' ,) *' *+1/ ; , 12' 1 ' Q R ' ,) *' /*60*-.' /*0' -1 ? ' 4*-^ ? 62 ' , 1' 25/620 ' -1 ? ' 8) *2>*' ,) * ' >12, 2 ; *0' , 1' 0 ^ -*>, ' ,) *' 1=*-6, 12. ' 1 ' ,) *' & ' ' 9 ' 0 + 0*0' 2' > ->; , .' 620' >1 ? ? ; 2 , *. ' 620' ., -125/ ' 1-562 [*0' 2' 4*-? 62 % ; ' ,) *' 6// 62>*' 1 ' ,) *' 51+^ *-2 ? *2, .' 2' Q ' ,) *' />6>9' 1 ' *2*-5 ' 6 ? 125' ,) *' >12^ *0*-6, *. ' 620' ,) *' =; D/ >6, 12' 1 ' ,) *' 6 ? .' 1 ' ,) *' .1> *^ , ' 2' B ; 2*' Q ' D ' 6' , 6 /1- .' 6== -*2, >*' *, *-' 1,) C A ; 25 ' 6, ' * =. 5 ' ? 6, *- 6// ' 2A ; -*0' ,) *' 1-562 [6, 12% 2' */5 ; ? ' -*2>) ' >1 ? ? ; 2 . , >' 0*6. ' 6/. 1' 1D, 6 2*0' , 1' .1 ? *' *L, *2, ' 620' 8*-*' ; =) */0' 2' .*+*-6/ 2*8 .=6^ =*-. % 2' Q ' 12. 0*-62, ' 8*2, ' , 1' -; . . *// . ' , 1' 60+1^ >6, *' ,) *' 1 ; - *- . ' *,) *1- *. ' D ; . ' 1 ; 20' 21' 1==1-. ; 2 . ' 1 ' >6-- 25',) *? ' 2, 1' =-6>, >*% ( ) *. *' 0*6. ') 18*+*-' , 119' 6' -? *-') 1/0' 6 ? 125' ,) *' /18*-' >/6. . *. ' 1 ' , 6/ ' 1 ' ; . ' d ' 2C 6' /*, , *-' , 1' ,) *' , 6/ 62' D .) 1=. ' 620' 6->) ^ D .) 1=. ' *>*? D*-' R,) ' Q R ' -*>1 ? ? *20*0' ,) *? ', 1' ; . *' 6// ' * 1-, . ' , 1' =-*+*2, ' ,) *' =-1=656, 12' 1 ' .1> 6/ . ? % ( ) 6, ' ,) *' *L . , *2>*' 1 ' ,) *. *' >1 ? ? ; 2 . , >' .1> *, *. ' 0*^ =*20. ' 12' ,) *' =*-. 126/ , ' 1 ' ,) *+ -' 1 ; 20*-.' 620' 21, ' 12' ,) * -' 182' *L>*//*2>*') 6. ' D*** 2' 0*? 12. , -6, *0% , *-' ,) *' 0*6,) ' 1 ' ,) *' /*60 25' . = - , . ' ,) *' 1-562 [6, 12. ' 2C /- 6D/ ' 0*5*2*-6, *' ' ,) * ' 01' 21, ' *2, -*/ ' 0 .=*-. % 2' ,) *' $ 2 , *0' , 6, *. ' 6' 2 ; ? D*-' 1 ' 6, , *? =, . ') 6+*' D**2' ? 60*' , 1' *. , 6D/ .) ' >1 ? ? ; 2 . , >' >1/12 *. ' =6-, / ' ; =12' 6' ? *-*/ ') ; ? 62 , 6- 62 ' 620' =6-, / ' ; =12' 6' -*/ 5 1 ; ' D6. . % ? 125' ,) *' 1-? *-' D*/125' ,) *' >1 ? ? ; 2 . , >' >1/12 ' *. ^ , 6D/ .) *0' D ' 6D*, ' 6, ' 6 ; +11 ' . *+*-6/ >1/12 *. ' *. , 6D^ / .) *0' D ' ,) *' 4*-? 62' >1 ? ? ; 2 . , ' & * , / 25' 620') .' 60^) *-*2, . ' 620' . *+*-6/ =) 6/625*. ' *. , 6D/ .) *0' D ' ,) *' 60^ ? -*-. ' 620' 1//18*-.' 1 ' 1 ; - *-% ( ) *') 6+*' 6// ' =*-^ .) *0% ? 125' ,) *' .*>120' >/6. . ' 1 ' >1 ? ? ; 2 . , >' 6. . 1C

6 & ' 6 : " ' LLI

1 ? =/ ; , * 2 . 6 2 ' 4 (' **' + #L !

1 ? =1 . , * // 6 ' #' < ' ' A(' ' ' ,⅋ B6/2*.' ,/ 1' /0*-' 8 6.' 601=,*0' 6.' ,)*' =6,-12' .6 2,' 1 ' =6 2' 6 , *-' ,)*' + >,1-A 71 ' /6+ A1 ' 620') .' -*/^ >.' 8*-*' =-*.*-+*0' 6,' 1?=1.,*//6⅋ ()*' ?6-+*/.' . ;=^ =1.*0' ,1' D*' =*- 1-? *0' D A' ,)*.*' -*/ >.' 0-*8' +6. ,' 2 ; ?^ D*-.' 1 '= /5- ? . ' 1-' 8)1.*' . ;==1-, ')1.= ,6/.' 8*-*' *.^ ,6D/ .)*0' D ' ,)*' >6212.' 1 ' ,⅋ /1⅋ ()*' + > 2 , ' 1 ' ,)*' <11-.')6+ 25' -*20*-*0' ,)*' -170.' ; 2.6 * ',) -,**2' 21D/* ? *2 ' ; 2 , *0' 1-' ,)*' =-1,*>, 12' 1 ' ,)*' = /5- ? . ' 620' 8 ,)' ,)*' >6212.' -*^ .1/+*0' ,1' 1 ; 20' 62' 1-0*-' 1 ' ,)*' .6 ? *' 9 20' 6.' ,)6, ' 1 ' ,)*' : 1.= ,6//*-.' 1-' (*? =/6-.⅋ ()*' =1=*' 5-62, *0') . ' 6.^ .*2, ' 2' 6' D ; // ' 06, *0' S,)' B ; / ' ' 6>>1 ? =62 *0' 8 ,)' ,)*' . ,6, ; , *. ' 1 ' ,)*' 1-0*-⅋ &) 6, *+*-' >12_ ; *, ,.' 8*-*' ? 60*' -1? ' ,)*' 2 0*/ 8*-*' 0*>/6-*0' ,)*' =-1=*-, ' 1 ' , /; *' 1-0*-' 620' 6' >1 ; 2^ > / 1 ' ,) -,**2' 92 5), ,' 86.' +*. ,*0' -1. ' 1 ' ,)*' -0*-⅋ 8 ,)' 6 ; ,) 1- , ' , 1' */*>,' 620' 0*=1.*' 6' 1 ? =1./>//6⅋ 5-620' ? 6>. ,*-⅋ ()*' 92 5), .' ?60*' +18 .' 1 ' =1+*-, ' 1D*0 *2>*' 620' >*/ (' D6>XJ' 620' =-1 *. .*0' ,)* -' D*/ ' * ' 2' ,)*' ? ? 6>; /6, *' >1 >>2, 12⅋ (1' =-1, *>, ')- . , 62. ' 620' >12+*-, ' 2 ^ 0*/. ' ,)*' +18*0' , 1' D1' ,)*' 12/ ' 1DA*>, ' 2' ,)*' -' 86-. ' 8 ,)' ,)*' 6-6>*2.⅋ 2' ? 1. , ' 1 ' ,)*' 5-*6, ' D6, , /*. ' D*^ , 8 **2')- . , 62' 620' <11-' ,)*' -*0' >-*. . ' 1 ' ,)*' 1-0*-' 86. ' >12. = >; 1 ; .⅋ (f= >12_ ; *. , . ' 1 ' ,)*' 7P-0*-' , . */ ' >1?D 2*0' 8 ,)' ,)*' 5-6, * ; / ? ; 2 >*2>*' 1 ' ,)*' 26, 12 ' .=**0 / ' 2>-*6.*0' , . ' 8*6/,)' 620' =18*-' D* 120' ,) , 1.*' 1 ' 62 ' 1 ' ,)*' 1,)*-' 1-0*-. ' 1 ' 92 5),) 110⅋ 2' 600 , 12' , 1' ,) *' ,) -**' /6-5*' >1? ? 620*- *. ' 1 ' *12 ' 6. , /*' 620' <12, 6/+62 ' , ' =1. . *. . *0' 2*6-/ ' K ' ? 21-' >1? ? 620' >- *-' >1? =-. 25 ' , ' . ' .6 0 ' ? 1-*' ,) 62' K ' =- 1- *. ' 8 ,)' ? 62 ' * . ' >/1 . , *-. ') 1. = , 6/. ' >6. , /*. ' D1-1 ; 5) . ' ,7 1' , 18 2. ' 620' Q + //65*. ' *L>/ ; . +*' 1 ' ,.' =1. . *.^ . 12. ' 2' 1-, ; 56/⅋ () . ' >21221 ; . ' 8*6/,) ' 620' =18*-' 1 ' ,)*' 1-0*-' *L> , *0' ,)*A*6/1 ; . ' 1 ' ,)*' >-182 ' 2' 8) >) ' 2' KK ' ,)*' 5-620' ? 6. , *-.) =' 86. ' =*-? 62*2, / ' +*. , *0' D ' ,)*' =1=*⅋ : 6+ 25' ,) ; . ' D*>1? *' ?*-*/ ') 121-6- ' 620' 0*=*20*2, ' 12' ,)*' >-182 ' ,)*' 1-0*-' -6= 0/ ' 0*^ >-*6. *0' 2' ?=1-, 62>*⅋J' ' ') 6? D*-. ' 6 % 1' .⅋ ⅋

1 ? =1 . , * // 6 ' ' ' 6' , 18 2' 2' =6 2 ' 620' 12*' 1 ' , / *' ,) -**' ?1. , ' 6?1 ; . ' =/6>*' 1 ' = /5- ?651' I 2' ,)*') ; ->) ' 1 ' 1?*' ,)*' , 81' 1,) *-. ' D* 25' 1?*' 620' B*-; . 6/*?⅋ ()*' =/6>*' 86. ' 1-?*-/ ' >6//*0' ' $ 'D " '&% '1-' ? ' 1' 8) *2>*' E ' 6DD-*+ 6, 12' 1?=1. , */6' 86. ' 1-?*0⅋ >>1-0 25' , 1' 6' =62 .) ' , -60 , 12 ' ,)*' 6=1. , /*' B6?*. ' ,)*' /0*-' >6?*' , 1' ,)*' -*26.62' =*2 2. ; /6 ' 620' . ' D ; - *0' 6, ' 1?^ =1. , */6⅋ ()*' /*5*20' 1 ' ,)*' 6=1. , /*') 6+ 25' =-*6>) *0' 2' =6 2' . ' -. , ' ? *2, 12*0' 2' ,)*' 2 2,) ' >*2, ; - ' 620') 6. ' 5*2*-6// ' D**2' -*= ; 0 6, *0' D ' ,)*' 1?62' 6,) ^ 1/ >' 8 -. , *-. ' 6/,) 1 ; 5) ' , ' 86. ' 0* *20*0' D ' ,)*' 1/C 620 . , . ' I& ' $ ' , 1? ' + ' D 1' &%% :' 620 , 1? ⅋ ' &% ' ' 81' 620' D ' ,)*' -1, *. , 62, ' B⅋ ⅋ 6D- > ; . ' >$ ' ' 6 1' >⅋ S' g KX⅋ ()*' >/6 ?' 1 ' 1?=1. , */6' , 1' ,)*' D10 ' 1 ' ,)*' 6=1. , /*') 6. ' 1 ; 20' ?1-*' 60+1>6, *. ' 6?125' ,)*' 1?62' 6,) 1/ >' 8 -. , *-. ' 6/,) 1 ; 5) ' ,)*' >) ; ->) ' 1 ' , ⅋ 6, ; -2 2*' 6, ' (1 ; ^ /1 ; . *' =-* *-. ' ,)*' .6?*' >/6 ?⅋ ()*' - +6/ >/6 ?. ') 6+*' **2' >1?=-1? .*0I' D ' 6. . ; ? 25' ,) 6, ' *6>) ' >) ; ->) ' 620' 12*') 6/ ' 6. ' 6' 0 + . 12' 1 ' 6?1 ; . ' -*/ >. ' , ' .' 6//*5*0' -*_ ; *2, / ' 1>>; --*0' 2' ,)*' < 00/*' 5*.⅋ 1?=1. , */0' 86. ' ?60*' 6' D .) 1=- >' 2' ,)*' D*5 22 25' 1 ' ,)*' R,) ' >*2^ , ; - ' 620' 2' K ' 62' 6->) D .) 1=- > ' & *, [*-' , ⅋ & */, * ') " = ! ' NS⅋

1 ? =-*) *2. 12 ' 2' 25/ .) ') . , 1- ' ,)*' .>) *?*' -. , ' =-1=1. *0' D ' -' -/6201' - 05?62' 2' SQQ' 1-' -*^ /6L 25' ,)*' , *-? . ' 1 ' >12 1-? , ' , 1' ,)*' .,6D/ .) *0') ; ->) ' 1 ' 25/620 ' 620' 60? , , 25' -1, *. , 62, ' 0 . . *2, ^ *-. ' 2,1' , . ' >1? ? ; 2 12⅋ 2' S ' (//1, . 12' 620' , /C 25 /**, ' -*2*8*0' ,)*' 6, , *?=, ' 620' ,)*' , *-? . ' 8*-*' . *, ^ , /*0' , 1' ,)*' .6, . 6>, 12' 1 ' ,)*' 212>12 1-? . , . ' D ; , ' ,)*' D .) 1=. ' ; 262 ? 1 ; . / ' -* ; . 25' ,)* -' >12. *2, ' ,)*' =-1^ *>, ' */ / , 1' ,)*' 5-1 ; 20⅋ ? ? *0 6, *' ' 6 , *-',)*' *+1^ / ; , 12 ' ,)*' .>) *?*' 86. ' -*2*8*0' 6, ' ,)*' 2 . , 62>*' 1 ' & /^ / 6 ?' 'D ; ' 6 , *-' , 81' 6, , *? =, . ' ,)*' 0*. 52' 1 ' ; 2 12' 86. ' 6D62012*0 ' 620' ,)*I I >, ' 1 ' (1/*-6, 12' =6. . *0' 2' , . ' . , *60⅋J ' *>' < 6>6 ; /6 ' # ' '6 1' ' SN' NQ ' 6-,⅋ > ' ' $ ' ' ' 0 *2' + " (' ' " . ' +⅋

1 ? =, 12 ' % # ' D .) 1=' 1 ' 12012 ' . 12' 1 ' ,)*' .*>120' 6-/ 1 ' 1-,) 6 ? =, 12 ' 86. ' D1-2' 6, ' 1?=, 12' 2' SNK ' 620' 86. ' *0 ; >6, *0' 6, ' # ; **2 . ' 1//*5*' L 1-0' 8) >)') *' /* , ' 2' S K⅋ , *-' . 1 ?*' *6-. ' . =*2, ' 2' , -6+*/ 12' ,)*' 12, 2*2, ') *' -*. , 1-6, 12' 1 ') 6-/*. ' ⅋ 1-' 6' .) 1-, ' , ?*') 1' 86. ' 6' >1 ? *, ' 2' ,)*' 6-? ' ,)*2' 8*2, ' , 1' 6 ? D- 05*' 7 =6. . *0' <⅋ ⅋ ' , 119' 1-0*-. ' 620' 86. ' ? 60*' >6212' 1 ') - . , ') ; ->) ' L 1-0 ' 2' SSS⅋ , *-' +6- 1 ; . ' =-*^ *-? *2, . ') *' 86. ' ? 60*' D .) 1=' 1 ' L 1-0' 2' S ' 620' 86. ' , -62. /6, *0' , 1' ,)*' . **' 1 ' 12012' 2' S S' 1-' S S⅋ : *' D*>6 ? *' , ; , 1-' , 1' ,)*' =- 2>*. . *. ' < 6- ' 620' 22*' 620' ? D ; *0' ,)*' ?' 8 ,)') . ' 182' *6-2*. , / ' -1, *. , 62, ' . *2, ? *2. ⅋ 2' ,)*' 6>>*. . 12' 1 ' B6 ? *. ' ')*' 86. ' 0 . ^ ? . . *0' -1 ? ' ,)*' >1 ; 2> / 620' -1 ? ') . ' 0*62*-A 71 ' ,)*' 1 6/)6=*/ 12' 6>>1 ; 2, ' 1 ') . ' + 51-1 ; . ' 1==1. , 12' , 1' =1=*7 7' 2' SQS') 1' 86. ' , - *0' D* 1-*' ,)*' /1-0. ' >1? ^ ? . . 12*-. ' M,)*' 21, 1- 1 ; . ' B* - *. ' =-*. 0 25X' 12' 6' >) 6-5*' 1 ' 0 . 1D*0 *2>*' , 1' ,)*' 9 25 . ' ? 6206, *' M 1-' ,)*' . ; . =*2^ . 12' 1 ' -⅋) 6-=X ' 620' 86. ' . ; . =*20*0' -1 ? ') . ' *= . >1^ =6/ ; 2>, 12.⅋ : *' 86. ' -*. , 1-*0' 2' SQQ ' 620' 12' ,)*' 6>>*. . 12' 1 ' & // 6 ? ') *' -*>1+*-*0' 6/ / ' ,)*' 1 >*. ' -1 ? ' 8) >)') *') 60' D**2' *L=*//*0⅋ .) 1=' 1?=, 12' .1 ; 5) , ' =' >12> / 6, *' . . *2, *-. ' 620' , 1' 20' ? *62. ' 1 ' -*; 2 , ^ 25' ,)*' ? ' , 1' ,)*') ; ->)' 1 ' 25/620⅋ I ' . ' . 1C>6//*0' ; / , -6C -1, *. , 62, . ? J' ? 60*') ?' 7 ; 2=1=; 9-' 8 ,)' : 5) C>) ; ->) ? *2⅋ : 1' 0 *0' B ; / ' ' N' : ' *=; D^ / .) *0' &' - ' '" ' # ' ' M *20⅋B X' 6' 2 ; ? D*-' 1 ' *= . >1=6/ /*, , *-. ' 620' >) 6-5*. ' *, >⅋ ' (' ' ? ' ; ' ' 1' + ' S ' ._⅋

1 ? . , 1>9 ' & ' ⅋ ' 6' 6=, . , ' ? . . 126 ' 86. ' D1 ? ' 6, ' $/ . . *. ' ⅋ ⅋ ' < 6->)' K Q R⅋ : *' 5-60 ; 6^ , *0' 6, ' : 6 ? /, 12' 1 // *5*' 2' QK ' . , ; 0 *0' /68' 6 , *-^ 86-0. ' 620' 86. ' 60 ? , , *0' , 1' ,)*' D6-' 2' QN ⅋ $20*-' ,)*' ? 2 . , - ' 1 ' ,)*' *+⅋ ⅋ 4 ' 22* ')*' 86. ' >12+*-, ^ *0 ' 620' ,)*2' . . ; 0 *0' ,)*1/15 ' 6, ' ,)*' < 60 . 12' $2 +*-. ^ , ⅋ *> 0 25' , 1' 0*+1, *') . ' / *' , 1' ? . . 12. ')*' *2^ , *-*0' ,)*' . *-+ >*' 1 ' ,)*' 6=, . , ' 1-* 52' < . . 126- ' 16-0 ' 620' .6 /*0' -1 ? ' 1. , 12' 1-' ; -?6) ' 12' B ; / ' K ' QN ⅋ : *' -*?6 2*0' .1?*' , ? *' 6, ' ?) *-. , ' 620' < 6 ; /C ?6 2' . , ; 0 25' ,)*' /625 ; 65*' 620' ,)*2' >)1. *' --6>62' 1-') . ' */0' 1 ' /6D1-⅋ 2' QN ')*' 1-562 [*0' 6' 26, +*' >) ; ->) ' 6, ' 1 ; 9') 1 ; ' 620')*' -*?6 2*0 ' 2' . = , *' 1 ' 6' 0*60/ ' >/ ?6, *' , 1' 8) >)' D . ' 8 *' 620' , 81' >) 0/-*2' *// + >, ? . ' 2' Q N ' ; 2-*? , , 25' 2' /6/ 1-' ; 2, / ,)*' //^ 2*. . ' 8) >)' *20*0' 2') . ' 0*6,) ' =- / KS Q ⅋ ' & 9 ' & 1 ' 1' = ' S⅋

1 ? , *' $ $ ' 1 ; 20*-' 1 ' ,)*' .1C>6//*0' 1. , +^ . ? ' 86. ' D1 ? ' 6, ' < 12, =*// *-' B62⅋ K RQ ' 620' 0 *0' 6, ' 6- . ' *=,⅋ ' Q ' : *' 86. ' ,)*' =-1=1 ; 20>-' 1 ' 62' */6D1-6, *' . . , *? ' 1 ' =) /1.1=) ' , 1' 8) >)' /X>' 56+*' ,)*' 26? *' 1 ' 1. , +*' , 1' 0*21, *' , . ' . > *2, > ' 620' =-6>, >6/' >) 6-6>, *-' 620' , 1' 0 . , 25 ; .) ' , -1? ' 6// .>) *? *. ' 1 ' ? *, 6=) . >6/' .=*>; /6, 12⅋ : *' .=? 25' -1 =' 6' 6? / ' *? 2*2, / ' 1? 62' 6,) 1^ / >' 2' -*/ 5 12' 620' 1 6/ . , ' 2' =1/ , >. ' 620' ,)*. *' 2 /; C *2>*. ' 6 *>, *0' ,)*' 0*+*/1=? *2, ' 1 ') . ' ,)*1-. *. ' 21, ^ 8 ,) . , 620 25' ,)*' *+*-' 1 ' 221+6, 12' 8) >)' 6/86 . ' =1. . *. . *0') ? ⅋ : *' 86. ' *0 ; >6, *0' 2' 6-. ' 6, ' ,)*' 1/ , *>) 2 >' . >) 11/ ' 2' 8) >)') *' / *>6 ? *' 6' . ; D1 , 26, *' 2. , - ; >, 1-' 2' QNK⅋ : . ' -. , ' 0-*6 ? . ' 1 ' =) /1.1=) >' -* 1-?' 6-*' 6. >- D*0' D ') ?' , 1') . ' 1 ; -, **2,) ' *6-' =*-C' E) 6=. ' 2' - +6/- ' 1 ' ,)*' =-*>1>, ' 6, , - D ; , *0' , 1' 6>12⅋ R 2' Q S') *' >12, >--=/6, *0' *? 5-6, 12' , 1' ,)*' $2 , *0C' , 6, *. ' 620' ,)*' , -62. =/62, 25' 1 ' D . ' 26. >*2, ' =) /1.1=/ ' V ' >6/' >6-**-' , 1' ? *- >6⅋ 2' ; 5 ; . , ' Q ') *' D*>6 ? Z '

=6?=)/*,.')60' D**2' . .;*0' D ' <¶ 1?,*' 6,' 0 *-*2,'* 8) >)',)*' 1. , +*')6D ,' .'6,,6 2*0 ',)1.*' .;DÅ*>,.'6->' =*- 10.' 1 ') .' >6-**-' 2' 1-0*-',1' 5 +*' ?? *0 6,*'>12Ç ',26, ;-6// ',)*' -.,' ,1' 6.. ; ?*' 6' .> *2, >' 1-?' 8) >)' . 6,*2> ',1') .'+ *8.'12' .=*> 6/=1 2,. '1-',1'=1=;/6- [*'76-*' >)6-6>,*- [*0' D ',)*' 5-*6,*.,' . ?=/ > , ' 2',)*?^) .' 01>,- 2*¶ ()*.*' ,' .' 2**0/*..',1' .=*> ¶ <1-*' .*/+*.' 620' 6-*' 6>>1-0 25',1',)*' 6>12 62' *L=-*.. 12' 2,*-*., 25' 2',)*? .*/+*. ' 6.' ?1-*' ?=1-,62,' 1-' 62'' /*6..,' ? ?*-.*0' 2'- 6,,*-Ù' : *2>*',)*' -*/6, 12.' 1 ' 6==-*> 6, 12' 1 ',)*' ?62 ' 6-*',)*' 622;6/1'> ->;/6-.' .Ç'12; ? D*-' 620' .=6>*'6-*/ ,' .',1' *L) D ,'62'1-0*-/ ' .;*0',1',)1.*' 8)1' =6-, > =6,*0' 2',)*' . ;D.>- =, 12' 1-') .' .;==1-,¶ (-" ' $ '= ' 2' 6>>1-062>*' 8 ,)' 8)6,')6.' 6/-*60 ' D**2' 1D.*-+*0' -* ; -*.',1' D*' >12. 0*-*0' ;20*-',81' 0 ., 2>, ',)1;5)'>122*>,*0'6.=*>,. ' ,)*' .> *2, >',)*1- ' 6.' 1- 5 26/ ' *L=1;20*0' 2' <¶ 1?,*.' *6-/ *-' 81-9' 620',)*' =-6>, >6/ 6==/ >6, 12' 1 ',)6,',)*^ 1- ' 6.'=-*.*2,*0' 2') .' /6,*.,'>1?=/*,*' ,-*6, .*¶ M %X -" ' ' " %" ! ' ( ) .' .',)*' 0*+*/1=^ ?*2,' ;'0>1Ç1-0 26, 12' 1 '6//,)*' ?6,*- 6/ ., >',*20*2^ >*.' 1 '.> *2>*' 2',)*' 65*' 1 ',)*' 2> >/1=c*0 6' 620',)*' *+1/;, 12¶ ,' ' 21,' ..*/' ?6,*- 6/ .,>' D*>6;.*' ,' =-1>**0.'D* 120' ?6,*- 6/ . ?' 2',)*' .6?*' 0 -*>, 12' 620' .'6,,*2;6,*0' 2,1'6'=;-*' .*2..;1;.';=)*21?*26/ .?¶ ,' >12,*?=/6,*.' ?*-*/ ' ',)*' .)18.'1 ',) 25. J'620' ,'>1^ 1-0 26,*.',)*?' 6>>1-0 25',1',)*' -' >12>1? ,62>*.' 620' .*_;*2>*.' -*>152 . 25' 21' 6>,;6/ D120' 1 '>122*>, 12' D*,8***2',)*?' 21-' 62 '=18*-' 12' 8)>)',)* '0*=*20¶ ()*' ;2>, 12' 1 '=) /1.1=) ' .' . ?=/ ',1' 2,-10;>*' 1-^ 0*-' 620' >1)*-*2>*' 2,1' 1D.*-+*0' =)*21?*26¶ 1. ^ , + .?' 6>>1-0 25/ '6')6D ,' 1-' 2,*//*>,;6/ ,*?=*-^ 6?*2,'-6,)*-',)62'6'=) /1.1=) '6' ?*,)10'-6,)*-',)62' 6' 01>,- 2*¶ : *2>*' ,)*' ?1.,' >)6-6>,*- .,>' =*>;/ ^ 6- , '1',) .' 81-9'6.'1',)*' 8)1/*' 2,*//*>,;6/ *+1/;^ , 12' 1 ' ,.' 6;,)1-' .') .' 6--625*?*2,'1',)*' .> *2>*.' 8 ,)',)*' =- 2> =/*.' 12' 8)>)',)6,'6--625*?*2,7' =-1^ >**0.¶ ()*',-*6, .*' D*>1?*.' 2' >12.*_;*2>*'62' 1-^ 0*-/ '*L=1. , 12'1',)*' .> *2>*.'620'1',)*' -'-*> =-1>6/^ 0*=*20*2> *.' *?D-6> 25',)*' .,6,*?*2,'1',)*' -*.;/,.' 620' =-1>*..*.' _h(.> *2>*' 8 ,)' 62' 20 >6, 12' 1 '0*^ > *2> *.'*L>-*.>*2>*.'620'6D*--6, 12.' 2',)*' -'=-*.*2,' >12., ;, , 12¶ ,' .'?1-*'=-1 1;20' 2' ,.'*L*>;, 12',)62' 2' ,.' 5*2*-6/.=-Ç 3 ,¶ ()*.1/,6-'=- 2> =/*'12'8)>)',)*' 8)1/*'*/6D1-6^ , 12' 1 ' 1. , + .?'-*=1.*.' .',)*' 01>,- 2*' 1 ',)*' ()-*'* ,6,*.¶ (1',) .'?6 'D*'-* *--*0' 1?,*.'>/6.. >6, 12' 1 ',)*' .> *2>*. ' 7).'-;/*' 1-',)*' -'*+1/;, 12' >1?=1. ^ , 12' 620'-629 ') .'*L=1. , 12' 1 ',)*' -'. 52 >62>*' 620' 0 .> =/ 26- '+6/;* ') .') .,1- '1 '.1> *, '620') .',)*^ 1- '1 ') ;?62 , ¶ () .' >6-0 26/*=1. , 12' . ',)6,',)*' 8)1/*') ;?62' 6? / '6.'8*// 6.'*6>)' 20 + 0;6/? 20 7' =6..*.',)-1;5)',)-*'*.:>>*.. +*'620' 2>1?=6, D/*'>12^ 0 , 12.a' ¶ ()*' ()*1/15 >6/ ,6,*' 8)>)' 6.>- D*.' 6//=)*21?*26',1' 0 + 2*' 65*2> Ì K¶ ()*' <*,6=) . >6/ ,6,*' 8)>)'_:*., 12.',)*'0 + 2*' 6>, 12'620'6,,- D;,*.' 6//' >)625*.',1' 2 ;*2>*.' *2, , *.' 1>>;/,' >6;.*.' /68.' 1 ' 26,;-*' *,> Ì 620'N¶ ()*' 1. , +*' ,6,*' 8)>)' 6>Ç (=,' ,)*=)*21?*26' 8 ,)1;,' -* *-*2>*' ,1',)*' -' 1- 5^ 26, 12' 620' 6--625*.',)*?' ;20*-' 5*2*,6// 68.' 8)>)' ?*-*/ ' .,6,*' ,)*' 2+6- 6D/*' -*/6, 12.' 1 ' .;>>*.. 12' 620'-*.*?D/62>*%J' () .'=- 2> =/*' 1',)*' ()-*'* ,6,*.')6.' D**2' 6..6 /*0' D ' D1,)' 60? -*-.' 620' 1==12*2,.Ì D;',' 7-6,)*-' ?=*- *>,' 620' ? .6==/ *0',)62' 6/.*¶ ()*' .;>>*.. 12' 1 ',)*.*' .,6,*.' .' *L=/6 2*0' D ',)*' >12 ;. 12' 620' ?;/, =/>, ' 1 '6==6-*2,/ '0 .>122*>,^ *0' 6>,.' 8)>)'=*-=/*L',)*' ;2,;,1-*0' ? 20' 620' .;5^ 5*.;,' *' 6-D ,-6- ' 8 // 1' .;=*- 1-' *L .,*2*.*¶ .' 1-^ 0*-' -*+*6/.' ,.*/' 2',)*' ?0.,'1'0 .1-0*-' 62'6-D ,-6-Ä7 51+*-2?*2,'1',)*' ;2 +*-.*' .' -*=;0 6,*0' 620' /68' ?6 2,6 2*0' D ',)*' 1=*-6, 12' 1 '26,;-6/' 1->*.' .' ?1-*' 1-'/*..' *L,*2. +*/ '6>>*=,*0'6.',)*' .1/;, 12'1',)*' *2 5Ç ?¶.' 1 '>-*6, 12¶ 7()..' ?*,6=) . >.' .',)*' >-;> /0*' 2' 8)>)',)*1/15 '620' 6 ,)' 6-*' 5-60;6// '*+6=1-6^ ,*0¶ .',)*' -*5;/6- , '1 '=)*21?*26' .' ?1-*' 5*2^ *-6// '6==-*)*20*0',)*' B;-.0 >, 12' 1 ' ?*,6=) . >.' .' D '0*5-**.' -*.,-.>,*0' 620' .' 26// '0*2 *0¶ 1' 9218/*05*' .' 60? ,,*0' 8)>)' 01*.' 21,' =-1? .*' ,1' D*>1?*' .> *2>*' 21F.> *2>*' 8)>)' .' 21,' =)*21?*26/ 12/ '21' =)*21?*26' 8)>)' .;55*..'62 '1,)*-' =- 2>Ç ' = *',)62' ;2 1-?')6-?12E620' >12.*>;, 12' > ' 6>,.¶ 2' ,)*' =-1>*..' 1 ' .=*>;/6, +*' 0 .*2,625/*?*2,' D -1?Ç,)*' -6=0 ', I' 8 ,)' 8)>)' 1?,* .' 81-9.' 8*-*' >1?=1.*0' -1?' ,)*' 6D.*2>*' 1 '6// -*+ . 12' -1?' 5*2Ç

*-6/' 26,,*2, 12',1',)*' 6-,.'1 '>1?=10, 12'620'0 .=1. ^ , 12') .',-*6, .*.'6-*' .8*//*0'620'0* 1-?*0'D '>12, 2^ ;6/ -*=*. , 12.' 620'D ' 862,' 1 ' =*-.= >;1;.' 6--625*^ ?*2,% I-)* '6-*'+6.,'620'-6?D/ 25'*..6 .' -6,)*-',)62' . .,*2/6,/>' *L=1. , 12.' 1 '=) /1.1=) >' 01>,- 2*% ()*' D/*? .)*.' 8) >)')*' 86.' >6-*/*..' 1 '6+1 0 25') 6)+*' 218'>*6.*0',1'D*' ?=1-,62,% % ()*' ?=;/.*' >1?;2^ >6,*0'D ' 1?,*' -*?6 2.' D;,' *8' 8 // *+*-' 656 2' 0-*6?' 1'-*60 25',)*',*2',) >9'+1/;?*.' 2'8) >)') .' 8)1/*' +6.,'=-1A*>,'86.' 1- 5 26// !'.*,' 1-,)% ()*' 0^ -*>,'* *>,' ') .' >6-**-')6.' D**2'+*- './ 5),' ..' 20^ -*>,'* *>,'+*- '5-*6,% :*') 6.' / 29*0') .' 26?*' 8 ,)' 21' *2/6-5*?*2,' 1'.> *2>*' 1-' =) /1.1=) ' *L>*=,' 2' .1> 1/15 ' 8 ,)' 21' =-6>, >6/ -* 1-?' 2' .1> *,Ef' : .' =- 2> =/*.')6+*' 1;20' 1'/6,*' 2;?*-1;.' 1//18*-.'62' 25/620'620'6'.?6// 2;?D*-'1',)*?'601=,' ,)*' -*^ / 5 12' 1') ;?62, J' 6.' 8*// 1.',)*' 1. , +*' =) /1.1^ =) % 2*' 1',)*' >) * '1',)*.*' >' <-% ()1?6.' 12^ 5-*+*'8)1')6.',69*2' ,*=.' M QS X',1' 1;20'6' >);->) ' 8 ,)'6'D; /0 25'620'-*5;/6-'.*-+ >*.% <-% 125-*+*').'6221;2>*0',)6,'6'>);->)' 8 // .)1-,/ 'D*' D; /,'620' -*5;/6-' .*-+ >*.' 2., ,;,*0' 1-' =-1?1, 25' ,)*' 2*8' >-**0'8) >)' .',1'-*5*2*-6,*');?62, % // 1?,*.' ?=1-,62,'81-9.')6+*'D**2' *2;?*-6,*0'2',) .' 21, >*%I' 1-') .' D 15-6=) '-* *-^ *2>*' ?6 'D*' ?60*',1',)*' 6;,1D 15-6=) >6/ .,6,*?*2,.' .>6,,*-*0',)-1;5)') .'=-* 6>*. > ->;/6-.'*,>%T',1' 1C D 2*,'7 ' 'N 6 ' ' ' 'N ' (& ' ' M 6-.' QS X'620',1' ,,-S'& ' ' ' + =' %+ ' " 'M 6-.' QSNX% 1-'6' ;//*-'6>>1;2,'1') .'=) /1.1=) ',)62')6.'D**2'5 +*2')*-*'-*>1;-.*' ?6 ' D*')60',1',)*' /6.,(26?*0'81-9T',1' ,,-*' 9 '5 ' ' ' M 6-.' QSKXT *8*.' (' " %" ' " '$ 'M 120' Q NXT :6-^ - *,' <6-,2*6;' -" ' ' %" ' ' & ' M 120% Q N'K' +1/.' Q+1XT *8*.' # ' " %" 'MNO' *O% QS ' 120% K' +1/.% Q+1XT */*., 2' 0*' /52 7-*.'6 % '& ' ' ' " %" ' ;' ' '5 ' 'M 6-.' Q XT : *-D*-,' =*2>*-' -" ' ' " '$ 1' !M *8' 1-9' QS XT B%' % < //' (' " %" 'M 120% QSSXT 6/.1',1' -' 6+0' -*8.,*-.' 21, >*%1',)*' -.,',8a1' +1/;?*.' 1' ,)*' 1. , +*') /1.1=) ' 2',)*'6 "'5 'B;/ ' QNQ'620',1',)*' ..6 .'12' 1?,*'620') .') /1.1=) ' 2',)*' " ' '5 ' *8' 1-9'B62;6-' Q KT =-/' Q KT B;/ ' Q NT >,1D*-' Q NT 620' B;/ ' Q T 620') ' ,)*' 7 "' ; "' 5 ' <6 ' Q % **' 6/.1' + !

1262 6)' M:*D%' 2' ,)*' ,*L,') (" % *%') (" ' 3 2"7NN N' D;' 6,M *>01?,2*/' , ! " !'12',) .' =6..65*' 120% RN%X ,)*' <6.1-*,>' ?6-5 2') " ' 7 7NNN' ' D ' D + "':' *=,% O ' +% -% O E 'EE E ' " (8',)*'26?*'1',81'>)1' *+,*.% % =*-.12'6==1 2,*0'M8 ,)') .' D-1,)*-') ?*X'6.' -;/*-J'M7I NNX' D' :*[*9 6)',1' .;=*- 2,*20',)*' 0 .^ =1.6/1',)*' .6>-*0';,*2. /.'1',)*' (*?=/*' MK')-12% LLL ' K' N' 8)*-*',)*' ;,)% *-.% 25/ > [*.',)*' 26?*' ' 1212 6) JX% % % KS% K% '=*-.12'8)1'C-,)' .*+*-6/1') .'9 20-*0'?60*' /6-5*' 1 *- 25.' 1-',)*' 6.>)6/ .6>- >*.' 6.' -*2*8*0' D 'B1. 6)'MK')-12% LLL+'RX' % % S7% 12>*=, 12' / ' ' ! M %X' () .' 86.' .;=*-^ 26,;-6/'D',)*'65*2> '1',)*:1/ ' = -,'M ;9*' 'N T <6,,' K X% MK%X' ,'86.'8 ,)1;,',)*'>1?2;2>6, 12 1'1- 5 26/0*=-6+, 'M:*D% + 'KST + ' *,>%X% 1-' .1?*1',)*/,*-6,;-*'1',)*.;DA*>,',*>' 1/D*0 25' '=% T <* *-') -% *>' ,-' + ' ! 12>*=, 12' ' ' ' #! W! ()*' 9 % ' '" ! N ' '6'01>,-2*'1' ,)*');->)'1' 1?*7' **' ? $ ' /L ! K% ' ' ' ' '" ' % ' ' ! M %X', ' ')" ' ' '" ' ' =' U% ' '" ' ; 'N ' 2' S ',)-**' ,6/ 62' 21D/*?*2'1',)*' 6? / ' *' *,- 5262'6221;2>*0',)* - 2,*2, 12',1'*.,6D/ .)'6'? / ,6- '1-0*-' ;20*-',)*'6D1+*' 26?*'8)1.*' 1DA*>,' 86.',1'D*',1' 5),'656 2.','6// 2 ^ 0*/.'620')*-*, >.% ()*'=/62'86.' 21,'*L*>;,*0'D;,' 2' S Q'62'1-0*-';20*-',)*'.6?*'26?*'86.'*.,6D/ .)*0'2' *226% >>1-0 25',1'.1?*'8-,*-.',)*' --,' ?=;/.* >6?*' -1?'12*'1',)*'D-1,)*-.' *' *,- 5262T D;$,)*' D;// D '8) >)' =1=*' $-D62' ' 2' KN' >12 -?*0' ,)*'1-0*-'?*2, 12.'12/ ' *-0 2620'0;9*'1'<62,;6')6-/*.'0;9*'1' *+*-.'620' 01/=);.'>1;2,'1' ,)' /62'6.' 1;20*-.% ()*'1-0*-'0 0'21,'*L .,/125% ' :*/' 1,' ' ' ' 5 !1' ' MK%X' 7 ' ' " ' ; % ' ' '6/.1'>6//*0' 120F >*=, 12 .,% 2'1-0*-';20*-',) .'26?*'86.' 2' QB' 1;20*0'D ' *6,-L'0*' /+6'6,'(1/*01' 2' =6 2% ', 86.'.62>, 12*0' 2' QR'D '=1=*' 221>*2,' % 6-^ 0 26/d ?*2*.' ;2 ,*0',) .' 1-0*-'8 ,)',)6,'1', *' /6C% - ..*.',)*'-;/*'1'8) >)',)*' 601=,*0'8 ,)' .1?*'?10^ >6, 12.% 1=*'B;/ ;.' ' 2' '56+*',1',)*' 12C' 1 >*=, 12 .,.' 6' .=*> 6/ -;/* D;',)*' ' >12, 2;*0',1'D*' 6' =6-,'1',)*'1-0*-'1',)*' /6- ..*.% MQ%X' ' " ' % +' ' " ';' N ' 86.' ,)*' 26?*'1'>125-*56, 12.'1'/6 C81?*2'8) >)'8*-*' .,6D/.)*0' 2' >122*>, 12' 8 ,)',)*' >12+*2,.' 1',)*' >125-*56, 12'1' 1,-*' 6?*' 1;20*0'D ' *,*-' 1;^ - *-'M % %X%

12>)6'M4-% Y>0 L7P 1' " (8',)*'=/6 2' 1;20' 1-' =1/ 5126/.*?C01?*',)6,'>1+*-.',)*'6=. .'M % +%X' 1'6' >);->)% **' ' $ '' > !

12> / 6% **' $!

12> / 6D;/*'6',*-?'6==/*0'D ' 1?62'8-,*-.' ,1' . ?10.'620'>1;2>/.')*/0'D ' ')*-*,>.'620'.>) .^ ?6,>.%J

12>. 12'I* G'6' ' ' *% *2, -*' ?;, /6, 12'1',)*'=6-,.X'6'>12,*?=,;1;.',*-?';.*0'D' 6;/ 2') /' K',1'0*21,*',)*'[*6/1,.' 1-'>-> ;?^ >. 12% 2'>/6..>6/8-,*-.',)*'4-**9'81-0'0*21,*.'6' 5-11+*'1-')622*/'*,>% M.** 00*// 620' >1,,' % +% D;',)*'A 1.,/*'=6-10*.',)*',*-?'=-*+1;./ '*?=/1 *0' 1-',)*'=;-=1.*'1' 20 >6, 25'?1*'=1 2,*0/ ',)*'-*6/1' >)6-6>,*-'1',)*'.*>,6-*.' 2'_;*., 12'2.,*60'1'.6 ^ 25' D*86-*'1',)*' ((I - 8'26?*^ /' ',)*'=6-,'8)1'=-*..*0',)*'2*>*.. ,'1'., // 1D.*-+^ 25',)6,'1-0 262>*')*'.6 .' 'D*86-*'1',)*' P' M 1-2(1=HVG XT 6.'?;>)'6.',1'.6 ',)*'21'/125*-'0*^ .*-+*',)*'1/0'620'+*2*-6/0*% 26?*'8)6,' " ',>9/*' 1-'.'6'?*-*'>12> .12'6'/*./7C>;,,25% :*',)*2'51*.' 12',1',,*,)*'-*6.12' ' '6-*',)*'>-> ;,>.12J ' ,)*'-*6/,')6.'218'=6..*0'1+*-'2,1';.'8)1'D*/*+*' 2',)-.'620'6-*'-*2*8*0'2',)*'.=-,'1'1;-' 20.% M *>01?,2*/', ! " !'12',).'=6..65*'120% RN%X ?/6-/' 2'46/% +'K')*'.6 .'*+*2',)1-*'=1 2,*0/ ' '81;/0',)*'\,)*'.6?*'>/6..'1'B;06 [25',*6>)*7h' 8*-*'*+*2' ' P'> -) 1 ' ' ' ' '8)1// ',)*'1-562'>-> ;?>.*0'620'21,'D*'>12^ ,*2,'8 ,)'6'?*-*'.>6- >6, 12'1',X' % *% ?69*',)*?^ .*/+*.'1;,-5),'*;2;>).'M>1?=',)*'6//;.12.',1',)*-' ?=;-, '+1-% N R K X% 71')- .1.,1 $'620'B*-1?*' *L=/6 2' I- %) - 1 D '1 8' 7**' L $!

1 12>/6+*'M 6,% ' "'620' ' '" 'D*>6;.*' .-1?',)*-'.,-> ,'.*>/;.12' ,.' 2?6,*.'6.' ,'8*-=' " ' 8' .'6==/*0'M %X',1',)*' =6-,C ?*2,.' 2'8) >)',)*>6-0 26/.'1',)*' 1?62' 6,)1/ >');->)'?**,',1'*/*>,'6'2*8'=1=*'T 620'MK%X',1',)*' .*?D/ ,.*/'>12+*2*0' 1-',) .'1DA*>,% ()*'=/6>*' 1' 6..*?/0 25'C86.' -* ;*2,/ '>)625*0' ;2, / ' -1?' 8)>)'06,*',1' QKN' ,)*'>12>/6+*'86.')*/0' 2',)*' 6, >62' =6/6>*T . 2>*' QKN' ,)*' #;-26/ =6/6>*')6.' D**2' ;.*0' 1-',) .' =;-=1.*% &)*2'2*>*..6- ')18^ *+*-'621,)*-'=/6>*'*+*2' '8,)1;',)*'>,'1'>6-0 26/.'?6')*'0*. 526,*0% ,,/*'>)6?D*-.',*>)2 >6// '>6//^ *0'>*//.' -*' =-*=6-*0' 1-',)*'.*=6-6,*'6>>1?2106, 12' 1'*6>)'>6-0 26/620' .'6,,*2062,Y'8)>)'6-*'6.. 52*0' D '/1,'620',)1.*' 6// 25',1',)*'1>>;=62>'1'>6-0 26/.' >-*9,*0'D',)*'/6,*'=1=*'6-*'0-6=*0'8 ,)' .1?*'=;-=/*' ?6,*- 6/'6.'6'D605*'1'?1;-2 25 &) /*'5-**2' .';.*0

1-' ,/ *' 1,)*-.% ( )*' >16,'1 '6-? .' 1 ' *6>)' >6-0 26/I .' 1 L*0' ,1') .' >*//% &)*2' 6' =1=*' 0 *. ' ,*2' 06 .' 6-*' 6//18*0' 1-' ,)*' 1D.*_; *. ' 1-' 7 *' 6-- +6/ 1 ' 6D.*2,' >6-0 26/. ' 620' 1-' ,)*' =-*=6-6, 12.' 6D1+*' ?*2, 12*0' 1-',)*' >12>/6+*',15*,)*-' 8 ,)',)*' .*/*>, 12' 1 '=*-.12.' ., /*0' >12>/6+ .,. ' 8)1' 6-*' ,1' *2,*-' ,)*' >12>/6+*' 6.' .*-+7,.' 1 ',)*' 16-0 26/.' M,f71' ,1' =6>)' 1-' ',)*' >6-^ 0 26/' D*' +*-A' 1/0' . >9/ ' 1-' 1 '=- 2>*/ ' D -,) ',)-**X' ?6.,*-.' 1 ' >*-*?12 *. ' >12 *..1-. ' >/*-9. ' =) . > 62. ' >6-=*2,*-. ' ?6.12. 'D6-D*-. '620' 1,)*-' .*-+62,.% ( )*' =-*.>- D*0', ?*')6+ 25' */6=.*0' ,)*' >6-0 26/.' 620' >12^ >/6+ .,.' 6,,*20',)*' ?6..' 1 ',)*' : 1/ ' 4)1.,' 1-?*-/ ' :' ,% *,*- .' /6,*/ ' 2' ! ,% /+*.,*-.' >);->)% ( )*' =6=6/1-0 262>*.' 51+*-2 25',)*' >12>/6+*.' 6-*' -*60',1' ,)*' .,- >',1D.*-+62>*' 1 '8)>)' 6// 8)1' 6-*',1' *2,*-',)*' >12>/6+*' 6-*' .81-2% ( )*2',)1' >6-0 26/. ' 8 ,)',)*' -' >12>/6+ .,. ' =-1>**0' .1/*?2/A',1',)*' 6=6-,?*2,.' =-*^ =6-*0 ' 620' -*=6 -' .*+*-6// ' ,1',)* -' >*//. ' 8)*-*' ,)*' -*>* +*' + . ,.' ;2, /' *+*2 25' -1?' =*-.12.' 21,' 1 ',)* -' 2, ?D*-% ,' ,)*' ,) -0' . 76/' -1?' ,)*' D*//' 6D1;' ,)-**')1;-.'6 ,*-' .;2.*,' 6// 21,' D*/125 25' ,1%,)*' >12^ >/6+*' 6-*' *L>/;0*0' 620' 6//' ,)*' *2,-62>*.' *L>*=,' 12*' 6-*' 86//*0' ;=',)*' 8 2018.' 6/.1' *L>*=,' .1' ?;>)' 6.' ?6 'D*' 2*>*..6- ' 1-'6 -'620'/ 5),% ( )*' *L>*=,*0' *2^ ,-62>*' .' >/1.*0' D '01;D/*' />9.' 620' .,- >,/ ' 5;6-0*0' 60? .. 12' D* 25' 6//18*0',1' 212*' *L>*=,',)*' 6D.*2,'>6-^ 0 26/.% 1' *5-*..' .' 6//18*0' L>*=,' D '=*-? .. 12' 1 ',)*' >12>/6+*' ,..*/ ' 2' >6.*' 1 '5-6+*' //2*..% ( )*',)*^ 1- ' .',)6,' 6// >1? ? ;2 >6, 12' D*,8**2',)1.*' 8 ,)2' 620' =*-.12.' 8 ,)1;',2' -*56-0',1',)*' =*20 25' */*>, 12' ? ;.',)*' =-*+*2,*0' D;',)*.*' =-*>6;. 12.')6+*' 21,'6/^ 86 .' .*>;-*0',)* -' *20% 2' .= ,*' 1 ',)*' /68 ',)*-*' .' -*_;*2,' >1--*.=120*2>*' D*,8**2',)*' >6-0 26/.' 8 ,)^ 2' 620' ,)* -'=1/ , >6/ - *20.' 8 ,)1;,% ( )*' 0*>-**' 1 ' 4-*51- d' =-*.>- D*0',)6, ' '6' >)1*' 86. 21,' ?6>)' .'21,'6/9P86D/*' D ',)*' >6-0 26/.' 80,) 2',)-**' 06 .' 1-',)*' 2*L,' +*' 06 .' 12/ ' 12*' 0 .)' 6,' 2112' 620' *+*2 25' .)1;/0' D*' 6//18*0',1' *6>)' 20' 6 ,*-' ,)6,' , ?*' 12/ ' D-*60' 8 2*' 620' 8 6,*-'! D;',) .' - 5 0' -*5 ?*2' 86.' ?0 0' 7 *0' .1?*8)6,' D ' /*?*2,' ' M X% ( )*' *L*>;^ , 12' 1 ',)*-*' -*5;/6, 12.' .' 2,-;.,*0' *L,*-26// ' ,1' ,)*' > +/ 6;,)1- , *.' 1 ',)*' =/6>*' 8)*-*' ,)*' >12>/6+*' .')*/0' 620' 2,*-26// ' ,1',)*' 1 >*-.' 6= =1 2,>0' D ',)*' >12>/6+*% - 1-' ,1',)*' /6,,*-' / 6/' 1 ',)*' ,)' >*2,;- ',)*' 3/ 1 >*' 1 ',)*' D .)1=' 1 ' 1?*' 86.',)*' A1 2,'=-*-156, +*' 1 ',)*' >/*-5 ' 620' =*1=/*' *L*-> .*0' 8*' ?6 ' .;==1.* A%,' -.,' 0 -*>,/ ',)1;5)' .;D.*_;*2,/ ',)*' =1=;/6-'=6-^ , > =6, 12' 2',)*' */*>, 12' 6==*6-.',1')6+*' D**2',)-1;5)' .1?*' -*=-*.*2,6, +*' D10 ↑ 8) /*',)*' .;=-*?*' .*>;/6-' =18*-' 6..*-,*0' ,.' 6;,)1- , ' D ' -*_; - 25',)6,',)*' */*>, 12' .D6 /0' -*>* +*' ,.' .62>, 12 ',)*' 1- 5 2 '01;D,' 5A.7' 1 ',)*' - 5),' *L*-> .*0' D ' >*-,6 2' 6,)1/ >' 51+^ *-2?*2,.'%M -62>*' =6 2 ' 620' ;.,- 6X' 620' >/6 ?*0' D ',6/ '%M 6=/*.X'620' 1-,;56/'1 '*6>)' *L>/;0 25' -1?' ,)*' =6=6/ ,)-12*' .1?*' =6-, >;/6-' >6-0 26/' 6' - 5),')18*+*-',1' D*' *L*-> .*0' D* 1-*' 62' */*>, 12 '620 / ? ,^ *0',1' 12*' +*,1' 2,' *6>)' >12>/6+*% ' 6' 0*>-**' 1 ' 1=*' >)1/6.' ' > ' f' ' E' R',)*' */*>, 12' 1 ' =12, ' 86.' 5 +*2',1',)*' >6-0 26/' D .)1=.',)*' *,)*-' >6-0 26/. ' 620',)*' >/*-5E ',)*' =*1=/*' ?*-*/ ' 6==-1+^ 25',% ' 6' ;-,)*-' 0*>-**' 1 ' /*L620*-' 'M RX' ,)*')1>*' 86.'+*.,*0' *L>/;. +*/ ' 2',)*' >1//*5*' 1 '>6-^ 0 26/.' 8 ,)',)*' =-1+ .1',)6,',)*' >12>;--*2>*' 1 ',81' ,) -0.' 1 ',)*' >6-0 26/.' =-*.*2,' .)1;/0' >12., ,;,*' 6' /*^ 56/ */*>, 12',)*' 6..*2,' 1 '>/*-5 ' 620' =*1=/*' D* 25' 21' /125*-'-*_; -*0% ()*' 1;2> / 1 ' 12.'M K X';20*-' ,)*' 6;.=>*.' 1 '4-*51- 'd' =-1?;/56,*0' 6'>12., ,;, 12' ? 2;,*/ ' =-*.>- D 25',)*' 1-?.',1' D*' 1D.* +*0' 2' -*^ 56-0',1' .;>)' */*>, 12. ' 8)>)' 87*-*',1')*' ?60*' 2' 1 ' .1' ' .)';1;,.*>;/6-' 2 ;*2>*% ()*.*' ,)-**' 2.,2 ?*2,.' ;-2 .)',)*' 1-562 >' /68.' 620' -*5;' /6, 12.'D1,)'1 ' -62>) .*' 620'>*-*?12 6/.' 8)>)' 8 ,)^ 1;,' ;206?*2,6/ 0)625*' 6-*' .,//' 2' 1->*' 2' =6=6/ */*>, 12.% ,' ./6 0' 0182' 6.' 6' .*,,/*0' =- 2> =/*' ,)6,' 21' =1=*' >62' 6==1 2,') .' .;>>*..1-' 620' ,)6,' *+*- ' >6-0 26/)18*+*-' -*>*2,/ ' ?60*' .2>)' =-1+ 0*0')*')6.' ,69*2' 0*6>12 .'1-0*-.' ?6 ' =6-, > =6,*' 2' 6' >12>/6+*',)1;5)' ;20*-' =6=6/ >*2.;-*' .;.=*2. 12' 2,*-0 >,' 1-' *L>1?^ ? ;2 >6, 12% I >>1-0 25',1',)*' D;//.' 1 ' 4-*51 I' d ' = '@ '620' ' ' - 81' >12 -?*0' D ',)6,'1 '$-D62' '> ' ' (D '% = .)*')1>*' ? ;.,' D*' ?60*' 2' 12*' 1 ',)-**' .' + [%' D ' 2.= -6, 12' >1?=-1? .*' 1-' D6//1,% /*>, 12' D ' 2.= -6, 12' .' 8)*2' 6//',)*' */*>,1-.' .=12,62*1;./ ' I% '4 % 8' 8),)1;,' 62 ' =-*+ 1;.' >12^ >*-,' =-1>/6 ?',)*' .6?*' =*-.12' 1-',)*' 1 >*% L6?^ =/*.' 1 '. >)' */*>, 12.' 6-*' 5 +*2' D ' *6-/ ' *>>/*. 6.,>6/ 8-,*-.' 6.',)6,' 1 ' 6D 62;.' M ;.*D%' D '6 '+ ' KRX' D;,' 2' ?10*-2', ?*.' 212*' A.;>D')6.' 1>>;--*O% /*>, 12' D ' >1?=-1?.*' .' 8)*2' 2' 0* 6;/,' 1 '65-**^ ?*2,',)*?.*/+*.',)*' >6-0 26/.' 0*/*56,*' ,1' 6' .*/*>,' 2;?D*-' 1 ',)*-' D ,/ '8 ,)' 1-' 8 ,)1;,' >120 , 12.' 6;^ ,)1- , ',1' >)11.*' 6' =1=*' 6.' 86.',)*' >6.*' 2',)*' */*>^ , 12' 1 ' /*?*2,' % ( )*' 1-0 26- ' 86 ')18*+*-' ./ ' D6/1,% 2',) .' ?*.)10' 6 .*-',)*' ;.;6/ ?*-2 25' ?6..' *6>)' >6-0 26/M8)*2',)*' >12>/6+*' .' 6..*?D/*0' 2',)*' D6//1, 25C-11?' 1-' >)6=*/X' 2+19 25')- .,'6.' 8 ,2*..' ,1',)*' =-;- ,' 1 ') .' 2,*2, 12.' 2',)*' +1,*' 0*=1. .,.')' ,)*' >)6/ >*' 12',)*' 6/,6-'6' ._;6-*' =6=*-' 1/0*0'6,' 1==1^ . ,*' >1-2*-.' .1'6.',1' >12>*6?',)*' +1,*-' .' 26?*' 620' ?1,^ ,1'M8) >) '12>*' .*/*>,*0' ?;.,'D*' 60)*-*0',1X' 8)/*',)*' 26?*' 1 ',)*' =*-.12' +1,*0' 1-' .' 8- ,,*2' 12',)*' 1=*2' >*2,-6/' .=6>*% ( )*.*' D6//1,.' 6-*' ,)*2' *L6? 2*0' 2',;-2' / ',)-**' >6-0 26/.' 6==1 2,*0' 1' 620',)*' 2;?D*-.',69*2' 8)>)' ?;.,' 65-*-*' 8 ,)',)6,' 1 ',)*' >6-0 26/.' =-*.*2,' 6// D* 25' -*_; -*0',1' +1,*' 620' 6-*' /*0',1' 686 ',)*' -*..;/,*' '62' 12*')6.%-*>* +*0'A;.,' ,81',) -0.' ',)*' 1/0*0' *20.' 6-*' 1=*2*0',1' .**',)6,')*')6.' 21,' +1,*0' 1-') .*/ ' 8)>)' .' 21,'6/9P86D/*' ' 21' 12*')6.' 6,,6 2*0',)*' *_; -*0' ?6A1- , ',)*' >12^ >/6+*'=-1>**0.' 2',)*' 6 ,*-2112' .*.. 12'6 ,*-',)*') ?2' *2 ' -*6,1-' = - ,;.' .',1',- ',)*'=-1>*..'>6//*0' =' M6>>>. 8.X' 2' 8)>)' *6>)' >6-0 26/ ?6 ' 5 +*' 6' .;==/*?*2,6- '+1,*' 2',)*' 81-0.' ' ' ' ' !',1'62 '12*' 8)1'-*>* +*0'+1,*.' 2',)*' -.,'=-1>*..' -; ' 1,)*-.' ,)62',)*' 6>> 0*2,↑',)*.*' 0*>/ 2 25',1' >)625*',)*' ?1-2 25 .' >)1>*' 8-.,*' ! ',)*' .;==/*?*2,6- '+1,*.' 1-' 62 '600*0',1',)*' ?1-2 25.' +1,*.' 1-',)1' .6?*' 01' 21,' ?69*' ;=',)*',81',)-0.' ?6A1- , ',)*'=6=*-.'6-*' D;-2*0' 620',)1' .6?*'=-1>*..' 1' D6//1, 25' .' -*=*6,*0',)*' 2*L,'%O6 % &)*2' ,)*' -*_;' .,*' ?6A1-,E!' .' 5 +*2',)*' =6=*-.' 6-*' *L6? 2*0',1'_**',)6,' 21' >6-0 26/')6.' +1,*0' ,8 >*' 1-',)*' .6?*' =*-.12' 620',/ 6,',)*' ?1,,1*.' 1 ',)1' *+>?2%-' 620' ?1-2^ 25' +1,*',6// ↑ ',)*2',)*' -*> = *2,' 1 ',)*') 5)*.7' +*,1' *_;6// 25' 1-' *L>**0 25',81',) -0.' .' 0*>/6-*0' 0;/ ' */*>,*0% 2') .' 6>>*=,62>*',)*' 81-9' 1 ',)*>12>/6+*' .,- >,/ ' *20.' 1-',)*' 2*8/ ' */*>,*0' .' 0**?*0',1' D*' /*56// ' =1=*' 8 ,)' 6//') .' =-*-156, +*.' 620' =18*-.↑)*' .' 2+*.,*0' 8 ,)',)*' =12, >6/ -1D*.' -*>* +*.' // *')1?65*' 1 ',)*' >6-0 26/.' 601=,.') .' 1 >6/26?*' 620' .' =-1>/6 ?*0' A-1?' 6' -*1=*2*0' D6/>12 ' 8 2018',1',)*' =*1=/*' D ',)1' >6-0 26/' 0*62' 2' ,)*' 81-0.' & - (! ' " ' ' !!' % ' " " ' 6 = (' ' ' CCCCC ' 4 ' 1' % ' ' 620',)1'.)1;.' 1 ',)*' =*1=/*' 6-*' -*>1-0*0' 6.',)*' -' 6..*2,' .,//' 2',)*1- '%M 120% QS X% **' ' 9 + / ! 12>1? ,62,%' M %X' ',*-?' ;.*0'D ' 1?62',)*1^ /15 62.',1' 0*21,*',)*' 5-6>*' 1Y' 410' % '62' 6>, 12' 6.' 0 ., 25;.)*0' -1?'% ' 5-6>*' 7)>)' M656 2.,',)*' */65 62.X' ',1' *L>,*',1' 5110' 0*. -*.' 620' 6>, 12.' M *-5 >-X% MK%X' !' 2' ,)*' 1?62' 01>,- 2*' 1 ',)*' 1-0 .' ;==*-'M_%+%X' ?*62.

F %ʻB ʻ Bʻ LNDʻ F %ʻB ʻ B

,)*ʻ 6>>1?=62 25ʻ 1ʻ ,)*ʻ D10 ʻ 1ʻ)- .,ʻ D ʻ ,)*ʻ D/110ʻ 620ʻ 1ʻ ,)*ʻ D/110ʻ D ʻ ,)*ʻ D10 J ʻ 2ʻ ,)*ʻ ;>)6^ - .,ʻ _; 26.ʻ 2,-10;>*0ʻ ,)*ʻ ,*-?ʻ I 8ʻ ()*ʻ 8 ,))1/0 25ʻ1ʻ ,)*ʻ >;=ʻ -1?ʻ,)*₡/6 , ʻ .ʻA;., *0ʻ Dʻ ,) .ʻ 1?62 .,ʻ 01>,- 2*ʻ 1ʻ >D2>1? ,62>*ʻ 12ʻ ,)*ʻ 5-1;20ʻ,)6,ʻ6.ʻ)- .,ʻ .ʻ=-*.*2,ʻ*2, -*/ ʻ 2ʻ*6>)ʻ1ʻ,)*ʻ */*?*2,H')*ʻ .ʻ-*>* +*0ʻ ;// ʻ 2ʻ* ,)*ʻ-ʻD ʻ,)*ʻ >1?7;^ 2 >62,ʻ ʻ>1;-.*ʻ ,) .ʻ ,)*1- ʻ51*.ʻ 6/125ʻ8 ,)ʻ,-62₡ .;D..62, 6, 12ʻ ʻ ;-2*,ʻ , ʻ "ʻ& 1ʻ 6-,ʻ LLL Tʻ ? ,) .ʻ: 15*2D6_)ʻ# ʻ ʻ'ʻ ʻgʻ R ʻ **ʻ ?? ʻ6 " !

12>1-0ʻ 1-?;/6ʻ1 ʻ7< ʻ % = :ʻ ,)*ʻ .*+*2,)ʻ620ʻ/6.,ʻ.X?D1/ >6/ D119ʻ1ʻ,)*ʻ ;,)*-^ 62ʻ);->)ʻ -.,ʻ =;D/ >/ʻ 601=,*0ʻ 2ʻ Q ʻ ,ʻ 86.ʻ -6?*0ʻ 2ʻ >12.*_;*2>*ʻ 1ʻ,)*ʻ /125ʻ0 .=:,*.ʻ D*,8**2ʻ ,)*ʻ .,- >,*-ʻ ;,)*-62.ʻ620ʻ,)*ʻ ? /0*-ʻ) / == ,,.ʻ 620ʻ ,)*ʻ - =,1₡ 6/+ 2.,,ʻ 2ʻ4*-?62 ʻ ()*ʻ=- 2> =6/,)*₡ 1/05 62.ʻ 620₡*+625*/ .,,ʻ >12. 0 0ʻ ,ʻ ,)*ʻ -ʻ 0;,E ʻ ,1ʻ ;2 ,*ʻ,)*ʻ);->)ʻ6.ʻ?;>)ʻ6.ʻ=1.. D/*ʻD ʻ>/*6-/ ʻ0* 2^ 25ʻ ,ʻ ;206?*2,6/ 01>,- 2*.ʻ 2ʻ 6>>1-062>*ʻ 8 ,)ʻ ,/ *ʻ =- 2> =/*.ʻ 1ʻ,)*ʻ ;5.D;-5ʻ 12*.. 12ʻ 1ʻ N ʻ 2ʻ ʻ0;9*ʻB;/ ;.ʻ1ʻ -;2.8 >9ʻ620ʻ,)*ʻ*/*>,1-ʻ ;5;.^ ,6.ʻ1ʻ 6L12ʻ>1?? .. 12*0ʻ=-1*..1-ʻB6>1Dʻ 20-*6ʻ M ʻ ₩ʻ1ʻ(;D 25*2ʻ,1ʻ -6?*ʻ6ʻ.; ,6D/*ʻ 1-?;/6ʻ : .ʻ 81-9ʻ ;20*-8*2,ʻ0 +*-.ʻ 6/,*-6, 12.ʻ 2ʻ ,)*ʻ D620./ʻ1ʻ)*?2 ,[ʻ620ʻ) ,-e ;.ʻ620ʻ86.ʻ 26// ʻ-*>*+*0ʻ6.ʻ ,)*ʻ>12*.. 12ʻ1ʻ 86D6ʻ620ʻ 6L12ʻ ;D.*_;*2,/ ʻ D ʻ,)*ʻ 2/;*2>*ʻ1ʻ=- 2>*ʻ4*1-5*ʻ -2*.ʻ,ʻ1ʻ: *22*₡ D*-5ʻ6ʻ.*>120ʻ 1-?;/6ʻ1ʻ>12>1-0ʻ86.ʻ -6?*0ʻD ʻ .₡ 620*-620ʻ 0*2D6>)ʻ,)*1/15 62.ʻ1ʻ& ;-,*?D*-5ʻ620ʻ -*+ .*0ʻ620ʻ>1?=/*.*0ʻD ʻ6ʻD10ʻ1ʻ,)*1/15 62.ʻ2ʻ ,)*ʻ>12+*2,ʻ1ʻ<6;/D-122ʻ 2ʻB62;6- ʻ SM9218ʻ2ʻ0.ʻ ,)*ʻ 1-?;/6ʻ1ʻ<6;/D-122X₡ 20-*6ʻ>12. 0*-*0ʻ,) .ʻ /6,,*-ʻ6.ʻ,11ʻ.)1-,ʻ,)*ʻ 1-?*-ʻ6.ʻ,11ʻ0 ;.*ʻ620ʻ;20*-^ ,119ʻ,1ʻD6.*ʻ6ʻ,) -0ʻ12ʻ,)*.*ʻ ,81₡ 1-ʻ,) .ʻ=;-=1.*ʻ ,)*ʻ*/*>,1-ʻ 2ʻ<6A7ʻ S ʻ>6//*0ʻ6ʻ?**, 25ʻ1ʻ,)*1/15^ 62.ʻ6,ʻ(1-56;₩ʻ ?125ʻ,)*ʻ*5),**2ʻ 8)1ʻ62.f *-*0ʻ ,1ʻ,)*ʻ >6// 8*-*ʻ 20-*6ʻ)*?2,[ʻ D ,2>;.ʻ */₡ 2*>>*-ʻ 1?*-;.ʻ<;.>;/;.ʻ -*//ʻ620ʻ<1-/2₡ *ʻ5),ʻ1ʻ410ʻ620₡1ʻ 6-*ʻD ʻ26,;-*ʻ,)*ʻ>) /0-*2ʻ1ʻ8-6,)ʻ6.ʻ,)*ʻ6=1../*ʻ,*.^ , *.J ʻM:6.*ʻ ʻ $ " ʻ=₡SNRʻS Tʻ)*00ʻ ʻ X₩

()*ʻ 1-?;/6ʻ``.ʻ,)*ʻ12/ʻ(?,)*-62ʻ.?D1/ 2ʻ8)>)ʻ ,)*ʻ0 .,2>,12ʻD*,8**2ʻ,)*ʻ6>,+*ʻ620ʻ=6..+*ʻ-5),^ *1;.2*..ʻ1ʻ)- .,ʻ6==*6-.₩J ,.ʻ.,6,*?*2,ʻ.ʻ6.ʻ 1/^ /18.ʻå ʻ()6,ʻ-5),*1;.2*..ʻ8)>)ʻ .ʻ?=;,*0ʻ,1ʻ6,)ʻ 1-ʻ,1ʻ,)*ʻD*/ *+*-ʻ1ʻ?*-*ʻ5- >*ʻ ,ʻ,)*ʻ ʻ .;^ *-25ʻ620ʻ-*..;--*>,12ʻ1ʻ)- .,ʻD ʻ8)>)ʻ)*ʻ.6, . *0ʻ ,)*ʻ/68ʻ 1-ʻ;.ʻ620ʻ*L=6,*0ʻ1;-ʻ. 2.₩ 1-ʻ. 2>*ʻ)- .,ʻ 86.ʻ21,ʻ12/ ʻ?62ʻD;,ʻ,-;/Aʻ410ʻ620ʻ?62ʻ 2ʻ12*ʻ;20^ + 0*0ʻ=*-.12ʻ)*ʻ 86.ʻ21ʻ?1-*ʻ .;DA*>,ʻ,1ʻ,)*ʻ/68ʻ,)62ʻ)*ʻ86.ʻ,1ʻ.; *- 25ʻ620ʻ0*6,)ʻ\ ₩*₩ ʻ) .ʻ *-.12ʻ?*-*^ / ʻD*ʻ,69*2ʻ 2,1ʻ6>>1;2,ʻ8,)1;,ʻ62 ʻ-* *-*2>*ʻ,1ʻ) .ʻ + >6- 1;.ʻ -*/6, 12.h ʻD*>6;.*ʻ)1ʻ86.ʻ,)*ʻ 0 + 2*ʻ 620ʻ *-.26/ 1-0ʻ1ʻ,)*ʻ /68ʻ ʻ :*2>*ʻ 21,ʻ12/ ʻ,)6,ʻ1D*^ 0*2>*ʻ,1ʻ410ʻ) .ʻ 6,)*-ʻ8)>)ʻ)*ʻ*L) D ,*0ʻ2ʻ) .ʻ =6.. 12ʻ620ʻ0*6,)ʻ);ʻ6/.1ʻ " ʻ ʻ " D "ʻ 9 " ʻ ʻ ʻ ʻ * ʻ" ʻ ʻ ʻ ʻ ʻ ʻ ʻ ʻ ʻ ʻ + 1ʻ.ʻ ?=;,*0ʻ,1ʻ ;.ʻ 1-ʻ - 5),^ *1;.2*..ʻ.1ʻ,)6,ʻ410ʻ12ʻ6>>1;2,ʻ1ʻ,)*ʻ,1,6/1)>0 *2>1ʻ 8)>)ʻ)- .,ʻ6>>1?=/ .)*0ʻI% 8ʻ 1-ʻ1.;-ʻ.69*ʻD*^ 1-*ʻ) .ʻ)*6+*2/ ʻ 6,)*-ʻD1,)ʻ 2ʻ6>, 25ʻ620ʻ 2ʻ.; *-^ 25ʻ 2ʻ/ *ʻ620ʻ 2ʻ0*6,Bʻ?6ʻ-*?ʻ,ʻ1;-ʻ. 2.ʻ,1ʻf. ʻ 9 ʻ ʻ ʻ" ʻ ʻ ʻ ʻ N! ʻ M:6.*ʻ ʻ $ N ʻ=₡4 Tʻ)*00ʻ# ʻ *(ʻ ʻ ʻ N KX₡ .ʻ,1ʻ,)*ʻ 81-9ʻ1ʻ,15*2>-6, 12ʻ ,ʻ ,*6>)*.ʻ,)6,ʻ D* 1-*ʻ?62ʻ .ʻ //;? 26,*0ʻ>12+*-,*0ʻ -*5*2*-6,*0ʻ620ʻ0-682ʻD ʻ,)*ʻ: 1/ ʻ = - ,ʻ)*ʻ>62ʻ21ʻ ?1-*ʻ1=*-6,*ʻ?1C1=*-6,*ʻ1-ʻ*+*2ʻ?69*ʻ6ʻD*5 22 25ʻ ,186-0.ʻ) .ʻ>12+*-. 12ʻ1-ʻ-*5*2*-6, 127ʻ80,)ʻ) .ʻ182ʻ 26,;-6/=18*-.ʻ,)62ʻ>62ʻ6ʻ.,12*ʻ6ʻ,-**ʻ1-ʻ6ʻ=*>*ʻ1ʻ >/6 J M:6.*ʻ ʻ $ ʻ=₡SKKTʻ)*00ʻ ʻNSQX₡ 1-ʻ6ʻ ;//0.>;.. 12ʻ1ʻ,)*ʻ)- .,1/15ʻ1ʻ,)*ʻ 1-?;^ /6ʻ.**ʻ 1-2*-ʻ# ʻ ʻ" ʻ ʻ ʻ ʻ ʻ" ʻ ʻ ʻ " ʻO +₡ ʻ+1/₡ ʻK Rʻ. ₩ ()*ʻ@ ʻ86.ʻ1-5 26// ʻ-6?*0ʻ2ʻ4*-?62Tʻ,)*ʻ 6, 2ʻ,-62./6, 12ʻ D ʻ .620*-ʻ 86.ʻ601=,*0ʻD ʻ *

2*>>*-' 2') .' -.,' 6, 2' *0 , 12' 1 ',)*' 119' 1 ' 12^ >1-0'↑ D ; ',)*'/6,,*-' 6 ,*-8 6-0.' ?60*' 621,)*-',-62./6^ , 12' 1 ' ,'8) >) '6 ,*-' D* 25'-*+ .*0' 2',)*' >12+*2,' 1 ' # ;*0/ 2D ;-5' 2' SQN' 86.' 2.*-,*0' 2',)*' 2*8' *0 , 12' 1 ',)*' 119' 1 ' 12>1-0' 2' Q % ()*'. 526,;-*.' 1 ',)*↑' / .)*0' 2' 12012 I ;20*-',)*' 0 -*>, 12' 1 ' & % 1?6 1*' =- 2>7*' 8)1'*201-.*0' ,' 8*-*' =/6>*0' 6 ,*-',)*' =-* 6>*' 8) >)' 86.' =-*=6-*0' 6,-' B ; ,*-D1>9 2' RH ,)1.*' 1 ' Q ' ? 2 .,*-.' M=; , I 2' % % QKX' 1//18' ? ? *0 6,*/ ' F6 ,*-',)*',*L,% ()*' 1-? ;/6' 86.' 1-' 6'/125', ?*'-*^ A*>,*0' D ' *2?6-9' 620' 8*0*2↑' 2',)*' 1-?*-' >-;2.^ ,- ' ,.' =; D/ >6, 12' 86. ' ; 2, /' Q ' 1-D 00*2' ; 20*-'=*2^ 6/, '1 '0*6,/% ,' 86.'-*>* +*0' 2' : ;256- M RNC R X' : 1/.,* 2' M S X' 1?*-62 6' M SQ X '620' +12 6% ,' 86.' -*A*>,*0' 2' : *..*' 2)6/, ' 6' =6-,' 1 ' < *>9/*2D ;-5' 620' ,)*' -**' > , *.' 1 ' -629 1-,'12',)*' <6 2' = -*. & 1-?. ' ,-6.D ;-5 ' ;-*?D*-5' <650*D ;-5' -*?*2' 62, [>' *,>%7',)*' */*>,1-.' 1 ',)*' 6/6, 26,*' M 2' QNX' 620' -620*2D ;-5' M X' 620',)*' ;9*' B ;/ ;.' 1 ' -;2.^ 8 >9' 8)1')60' =-*+ 1 ;./ '6>>*=,*0' , '-*,-6>,*0' 6 ,*-' C 86-0.% ();. ' 1 ',)*',)-**' -1,*.,62,' */*>,1-.' 1 ',)*' 4*-?62' *?= -*' 6/6, 26,*' -620*2D ;-5' 620' 6L^ 12 '12/ '12*' M 6L12 X'-*?6 2*0' 6' >)6?= 12' 1 ',)*' 1-? ;/6' 1 ' 12>1-0' 620')*' . ;D.*_ ;*2,/ 'A1 2*0',)*') ;->)' 1 ' 1?*% ()1' 1-? ;/6' 1 ' 12>1-0' ; 2 ,*0' 8 ,)' ',)*' ;5.D ;-5' 12 *.. 12' 1 ' R ',)*' =1/15A7' ,)*' -, >/*.' 1 ' ?6/>6/0 '620',)*',81'>6,*>) . ?.' 1 ' ;^ ,)*-' 1-?.' ,)*' 12>1-0 *2D ;>D J' 1-',)*' 119' 1 ' 12>1-0' 1 '8) >)',)*-*' 6-*' ?62 ' *0 , 12.' 2' 4*-?62' 620' 6, 2% ' ;',)*' ;,)*-62') ;->)' .'., // 0 + 0*0' ;=12',) .' . ?D L/% ()*' .1C>6//*0' : 5)' ;,)*-62.' 2^ . .',)6,',)*' 1-? ;/6' 12>1-0 6.' .',)*' .> *2, >'=1?C =/*, 12' 1 ',)*' =-*>*0 25' ;,)*-62' .A 2D1/ . ? ' 8) /*' ,)*' ?10*-6,*' =6-,' 6-*' >12,*2',1' .,620' D ',)*' ;5.^ D ;-5' 12 *.. 12',)*' =1/15E7 620',)*' ?6/>6/0' -, ^ >/*.J' M)*00' # ' ' ' QX' **') > ' 2<' < '1' (. ' + '1' ? >

*>' : 1.= 2 62)O>1-BO1' M V.> a-.%MU6- >) S T 4*2% S QXT *12)6-0' /;,,>-' ' '& ,, 2D% 4 ' 4aTGT =[' 4R XT B%' <;.6*;.' ' I% "' @ ;' ! MB*26' XT 6/,)6.6-' U(V % ! - " ' "! ' M4-* .8% C S' Q' +1/H%XT' B% 2,12' ? "!' U@ @ ! ! M =[% R' K' +1B.%XT / ;.' ;-.,' M * =[5 ' Q ' 1/ X' -(-1 12*' 1 ',)*' & -62>9>' ! $ =,% T <1.)*?' "!' # ! NC' >-P' : *-[15' ; 26 % ' Q ' . %T -62>9' - ' ' 'M -/625% QS ' +1/.%X% ;.' ;>)'6.' 6' 5110', =*'620' >/*6-' 6--625*?*2,',)*-* 6-* % ' >1--*>,*0',*L,' 1;20*0' 12' : 6/? .' N =1 " " .' K% ()*' 6DD 2 >6/'. 52 >6, 12.' NT LA0626C' , _2.' 2' 6, 2' 5 + 25',)*' *, ?1/15 ' 1 ',)*' 6DD 2^ >6/T //;.,-6, 12.' -1?',)*',)-**' 4-**9' +*-. 12.',)*' -6?6>' 6-6=)-6.*',)*' ;/56,* ' *,>%T ,)*' 4-**9' 81-0.' *?=/1EF*0' D ',)*' *+*2, ' 6.' -*20*- 25.' 1 ',)*' : *D-*8' T ,15*,)*-' 8 ,)' =) /1/15 >6/ 620' 6->)6H1/15 >6/ 21, >*.' .1' 6.',1' ?69*',)*' 12>1-062>*' >12,6 2' 6' D- * ' : *D-*8' /*L >12 % -" ' 6 " (' # ' " ' ' 9 ' *0 ,*0' '4% %& 5-6?' M 120% Q N K'+1/.% Q +X' .' 62' 1- 5 26/ 620' *L>**0 25/ ' ;.* ;/' 81-9' 620' -*^ ?6-96D/ ' 6>>;-6,*% ' 5 +*.',)*' : *D-*8' 81-0.' 2' ,)*-' 1-0*-' D ;',_;1,*.',)*' =6..65*.' 2' 8) >)',)*' 1>^ >;-' -1?',)*' >1? ?12' 25/ .)' D/*% ' >12,6 2.',)*' -.,'>1?=/*,*/ .,'1',)*' : *D% =-1=*-' 26?*.' *+*-' ?60*% ,' 0*.-+*.',1' D*' ?1-*' *L,*2. +*/ ' 92182' 620' ;.*0% ,.') 5)'=- >*' .' 6'.*- 1;.' >)*>9',1' ,.' > ->;/6, 12% Q% 6-12' >9' -" ' ; ' $ (' M 120% Q 'Q+1X' 6' 81-9' 1 '/ ,,/*' 6>>1;2,',1'.>)1/6-.% R% & % & /.12' -" ' ; ' $ ' # ' ? M 120' Q ' ,1X' *_;6// 'D-*'620' 2.; / >*2,% ,)*-' 629' *6-/*-' : *D% 12>1-062>*.' 6-*a' 6DD' 2.>)*/' M6' +1>6D ;/6- ' 8 ,)' -* *-^ *2>*.',1' =6..65*.' -6>18' N T ,1' 620' /6,*-X T =C' 2*. ;.' :'6 'M ,*?D% SK ' ,1 X T 6 ^ ?62' '6 ,M$ %'*,>'M SQ ' 1/%X T (-1.C' , ;.' M " 'M ,*?D' S ,1X% % ? +' % ' MOX' - ' " '$ % % ' % 12-60' /->)*-' /' N ' - O' ? 1

K% ()*.*'*--1-.'8*-*' 1-',)*' ?1.',=6-,'>1--*>,*0' 620' 1,)*-'0* >*2>*.';hX=/*0' D ' <6-1' 0' 6/6. 1' M_%+%X' 6' -62> .>62' -6-'8)1' =;D/ .)*0' 3 $ E' ; !'# !' ' 2 ! M 1?0' SK '+1/.% 1/%X'-*=;D^ / .)*0' 2' 12012 I ;20*-',)*' 0 -*>, 12' 1 ' & % 1?6 1*' CR' +1/.% 1/%X' ;20*-',)*' =6,-1265*' 1' 6//',)*' 2126-)./ 2' ;-1=*' 21,'*L>*=, 25',)*' =1=*') ?.*/ % N% ;' ; !' @ ' ' ' * ' " ' % ' M 6./% SNK' 1/%X' D ' B1) 2' ;L,1- ',)*' 6,)*-' D ;',=;D/ .)*0' D ') .' .1_% ',69*.' 1-',.' D6. .',)*' 81-9' 1' 6DD' 6,)62',)1;5)% ,' .' ?;>)' D*,,*-'6--625*0' ?1-*' >1-->,/ '=- 2,*0',)*'-11,.' ?1-*' 0 .,2>,/ '6.>*-,6 2*0' 620',)*' ?*62 25.' ?1-*' 6>>;^ -6,*/ '5 +*21' D ;',6.',)*'-*' >*-*2>*.' 6-*' ?60*' D ' 1-' D-*8' /*,,*-.' 620' -*/6,*',1',)*'-6DD 2 >6/' 0 + . 12.' 1 ' ,)*' /0' (*.,6?*2,' ,' .' 1 ' / ,,/*' .*-+ >*' ;2/*..',)*' .,;0*2,' .' 6?/6-'8 ,/',)*' <6.1-*,>' . .,*?% () .' 81-9' 86.' 6D- 05*07)0*-',)*', ,/*' 1 '@ ' *,>% M *-1/2 ' S Q+1X% '2*8' *0 , 12' 1 ' ;L,1- 'I.' : > X% 12>1-062>*' DE' 6-')6.'/6,*/ ' D**2' =;/T/ .)SO',7 ,*,C , 2 ' (QS '._% ',1X% % * 1-*' ,)*-*=;D/ >6, 12' 1 ' 6/6. 1',)*-*' 6==*6-^ *0' 6-% 1/0* .' M_%+%X' !' % ' 6 =' + ' M : 6 2% S R' ,1a' 62' *0 , 12' .**?.' ,1')6+*' D**2' D*5 ;2' 2' S ' 1/% 'D ;',.' 2*+*-'.68',)*' / 5),X% () .' >12>1-062>*' >12,6 2.',)*'=6-, >/*.' 1-' 2^ 0*>/ 26D/*' 81-0.' *? ,,*0' 2' 1-?*-' M6.' 8*// 6.'/6,*-X' >12>1-062>*.% ()*' D*.,' *0 , 12' 1 ' 1/0*' .',)6,' D ' (?=*' MB*26' N ',1X% ' >12,6 2.' 5.' 62' 6==*2^ 0 L' 6' *L >12' 1 ',)*' =*-*.*2,'>*2,;- ' 12',) .' .;D^ A*>,' .'-" '# ' ! ' %2 ' ' " '6 " ; ' % ' ' " ' ' '6 ' / ' %/1/?' (6 /1-' % % M 12012' 'K'+1/.% 1GIX% I ' 86.',)*' -;,'1'272 ' *6-.'/6D1-' 620'., // /6.T ,.' +6/;*% % 2' *0 , 12' 1 ' ;L,1- .' # ' 8) >)')6.'-*>* +*0' .1' ?;>)'>6-*' 620' 6,,*2, 12'>2',)*' =6-,' .',)*' *0 ,1-' 6.' 2*6-/ ',1' 0*.*-+*',)*' 26?*' 1 '6' 2*8' 81-9 T # " ' ' + " ' /' / ' $ " ' ' - 1 'D ' -%B ; ^ / ;.' ;-.,' M * =[5 ' Q ' 1/ X' -(-1 12*' 1 ',)*' & ' ;.* ;/' 6 0.',1',)*' .,;0 '1 ',)*' D/*',)6,')6.'*+*-'6=^ =*6-*0' 2' 600 , 12',1',)1.*' 1 '6' ?1-*' ?*>)62 >6/' 9 20',;>)'6.'6'5110', =*'620'>/*6-'6--625*?*2,',)*-* 6-* % ' >1--*>,*0',*L,' 1;20*0' 12' : 6/? .' N =1 " " .' K% ()*' 6DD 2 >6/'. 52 >6, 12.' NT LA0626C' , _2.' 2' 6, 2' 5 + 25',)*' *, ?1/15 ' 1 ',)*' 6DD 2^ >6/T //;.,-6, 12.' -1?',)*',)-**' 4-**9' +*-. 12.',)*' -6?6>' 6-6=)-6.*',)*' ;/56,* ' *,>%T ,)*' 4-**9' 81-0.' *?=/1EF*0' D ',)*' *+*2, ' 6.' -*20*- 25.' 1 ',)*' : *D-*8' T ,15*,)*-' 8 ,)' =) /1/15 >6/ 620' 6->)6H1/15 >6/ 21, >*.' .1' 6.',1' ?69*',)*' 12>1-062>*' >12,6 2' 6' D- * ' : *D-*8' /*L >12 % -" ' 6 " (' # ' " ' ' 9 ' *0 ,*0' '4% %& 5-6?' M 120% Q N K'+1/.% Q +X' .' 62' 1- 5 26/ 620' *L>**0 25/ ' ;.* ;/' 81-9' 620' -*^ ?6-96D/ ' 6>>;-6,*% ' 5 +*.',)*' : *D-*8' 81-0.' 2' ,)*-' 1-0*-' D ;',_;1,*.',)*' =6..65*.' 2' 8) >)',)*' 1>^ >;-' -1?',)*' >1? ?12' 25/ .)' D/*% ' >12,6 2.',)*' -.,'>1?=/*,*/ .,'1',)*' : *D% =-1=*-' 26?*.' *+*-' ?60*% ,' 0*.-+*.',1' D*' ?1-*' *L,*2. +*/ ' 92182' 620' ;.*0% ,.') 5)'=- >*' .' 6'.*- 1;.' >)*>9',1' ,.' > ->;/6, 12% Q% 6-12' >9' -" ' ; ' $ (' M 120% Q 'Q+1X' 6' 81-9' 1 '/ ,,/*' 6>>1;2,',1'.>)1/6-.% R% & % & /.12' -" ' ; ' $ ' # ' ? M 120' Q ' ,1X' *_;6// 'D-*'620' 2.; / >*2,% ,)*-' 629' *6-/*-' : *D% 12>1-062>*.' 6-*a' 6DD' 2.>)*/' M6' +1>6D ;/6- ' 8 ,)' -* *-^ *2>*.',1' =6..65*.' -6>18' N T ,1' 620' /6,*-X T =C' 2*. ;.' :'6 'M ,*?D% SK ' ,1 X T 6 ^ ?62' '6 ,M$ %'*,>'M SQ ' 1/%X T (-1.C' , ;.' M " 'M ,*?D' S ,1X% % ? +' % ' MOX' - ' " '$ % % ' % 12-60' /->)*-' /' N ' - O' ? 1

I;' 6 ; ' ' % ' M -62>1 ' S ' K' +1/.' ,1X' () .' 81-9' 1//18.' ,)*' 1-0*-' 1 ',)*' :*D-*8' 81-0.'=/6> 25',)*'>1--*.=120 25' 4-**9' 81-0' 6 ,*-' ,' 2' >12.*_;*2>*' 1 '8) >)' ' ,' .' ?1-*' ;.* ;/ 2' >12.;/,^ 25',)*' :*D-*8',)62',)*' 4-**9' >- =,;-*.%

K' D*.,' 4-**9' 12>1-062>*',1',)*' *=,;65 2,' .' ,)6,' 8) >)' D*6-.',)*', ,/*' ' (-1? ? ' ? ' N ' ' OO'D % ' M ?..' *,' (-6A' 60')' Q' K' +1/.' 1//%X' **' 0 ! ' 1//18.' ,)*' 1-0*-' 1 ',)*' 4-**9' 81-0.' 1>>;-' 6, 2',-62./6, 12'620',)*2',)*' :*D-*8' 81-0' 1-' 81-0.' 1-' 8) >)' ,)*' 4-**9',*-?' .' ;.*0' 2',)*' *+*2, ' ()*2',)*' 0 *-*2,' =/6>*.' 2' 8) >)' ,)*' 81-0.' 1>>;-' 1//18' 2',)*' 1-0*-' 1 ',)*'.*+*-6/' D119.' 620' >)6=,*-.' &)*2',)*' 81-0' 1>>;-.' 2' 62X' 1 ',)*' 4-**9',-62./6,1-.' _; /67' ? ?6>);.' 1-' ()*101, 12',)*' =/6>*.' 8)*-*' ,' .' 1;20' 6-*' -* *--*0',1'6',)*' *20' 1 ',)*' _;1,6, 12.' -1?',)*' *=,' ()*' 81-0.' 1 ' D*' =1>-=)6' 6-*' =/6>*0' 6,',)*' *20' 1 '*6>)' *2;?*-6, 12' ()*-*' 6-*',81' 20 >*.' 6,',)*' *20' 1 ',)*' 81-9' 12*' :*D-*8' 620' D6/C' 06 >' D '*L6? 2 25' 8) >)',)*' 4-**9',*-?' ;.*0' 2',)*' *=,;65 2,' 1-' 62 ' :*D-*8' 1-')6/0*' 81-0' .' .**2' 6, 12>*' 8 ,)',)*' 6, 2' +*-. 12' 620',)*' =/6>*' 8)*-*' ;' .' 1;20' 2' ./ *' >12>1-062>*' .1',)6,' (-1? ?*' .*-+*.' 2' 6' ? *6.;-*' 1-' 6' :*D-*8' 112>1-062>*' ,)*' 1,)*-' 20*L' >12,6 2.' 6' /*L >12',1',)*' :*L6=/6' 1 ' - 5*2' 620' >1?^ =-*)*20.',)*' 4-**9' 81-0.' 2',)*' -65?*2,.' 1 ',)*' 1/0' 4-**9',-62./6,1-.'=;D/ .)*0' D ' <12, 6;>12% I 8' - ' " ' 1 ' - ! ' ()*' -.,' 4-**9' >12^ >1-062>*',1',)*' *8' (*..,6?*2,' 218' *L>**0 25/ ' -6-*' .' *2, ,/*0' d .,' >,;/*' ' ? ' 7 ' - ' M 6. /' S' 1/%X' ()*' 6;,)1-.' -*6/' 26?*' 86.' ->9' ' O K' '>12>1-062>*',1',)*' 4-**9' *8' (*.,6?*2,'=-1^ A*>,*0' 620' =6-,/ ' *L*>;,*0' D ' 1D*-;' ,*=)*2.' 620' >1?=/*,*0' 620' =;D/ .)*0' D ') .' .12' :*2-A!' M4*2*+' R ' 620' 8 ,)' 6' .;==/*?*2,' S ' 1/%X' .' ,11' 26>^ >;-6,*',1'?*-.',?1-*',)62' 6' =6.. 25' 21, >*' N' ? ;>)' +6/;*' .' -6.?' >)?0' 7 ' - ' D!' !' ? .' " ' *.,' ' ' ' M ,* 2)' SNQ' 1/%7' -*+ .*0' *O' 41,)6' ' 1/%7' 6/.1' 4/6.5' Q ' K' +1/.' Q+1T' -*>*2,/ ' D ',)*' <*..-.' 65' .,*-' 1 ' 12012' 2' 6',) 2' /6,' =1>9*,' +1/;?*' 620' 2' 621,)*-' 1-?' NK?1' D* 25' 12*' 1 ',)*' -' ' 1/ ? >- 62' .*- *.JX% bl' B%& // 6?.' ' " ' ? ' - ' M 120' S ' ,1X' 6' 81-9' *.=*> 6// ' ;.* ;/ ,1',)*' ?*-*' 25/ .)' -*60*-% S' 2*8' 620' +*- ' .;=*- 1-' *0 , 12' 1 ' >)?0.' % ')6.' D**2' =;,' 1-,)' D ' ' : -;0*-' 1' ' M * =[' Q K ,1X' ?125',)*' 60+62,65*.' 1 ',) .' *0 , 12 '/*,' ,' .;/ >*',1'.=*> ' ;/2*..' 6>>;^ -6> ' 620' >1--*.=120*2>*' 8 ,)' 4- *.D6>).' *0 , 12' K' *56-0')6.' D**2' =6 0',1',)*' -*60 25.' 1',)*' /[*+ -.' < // * 5*/' 26==' (,,?622' >)1/[' 620' 6/.1' 1 ' -6.^ ?;.' 1D*-,7 ,*=)*2..',)-0' *0 , 12' 620' 1 ' >)?0') ?.*/ ' 6-*' * ,)*-'5 +*2' 1-'=1 2,*0' 1;,' ()*'.,;0*2,' .'=-*.*2,*0' 6/.1' 8 ,)' 6'.*/*>, 12' 1 '-*60 25.' -1?',)*' ?1.,' 62> *2,' < ' -1?',)*' 2,*-=-*,*-.' 1 ' >-=,;-*' 8)1' / +*0' 2',)*' *6-/ *-' 65*.' 1 ',)*');->)' 620',)1' 81 9.' 1 ',)*' *>>/*. 6., >6/' 6,)*-.' 21' +6- 1;.'-*60 25' =1..*.. 25' >-, >6/' +6/;*' .' 1? ,,*0% S' 2*' 1 ',)*' ?1.,' +6/;6D/*' 6 0.' 1-',)*' 5*2*-6/' 3,;0 ' 1 ',)*' *8' (*.,6?*2,' 8) >)' ?10*-2' , ?*.')6+*'=-10;>*0' .' -" ' 6 " (' ? +' ' '" ' 7 ' - ' D* 25' 62' 6,,*?=,' 6,' 6' *-D6/' 122*>, 12' D*,8**2',)*' 4-**9' 620',)*' 25/ .)' (*L,.' M 120' QNR Q+1X' ()*' 81-9' 8) >)' .' >6-* ;//E7>1?^ = /*0',69*.' >)?0' 6.',.' D6. .' ()*'=/6 /' .',)*' .6?*' 6.',)6,' 1' 81') *' ' 25/ .)?62.' : *D-*8' 12>1-062>*' J' 6D1+*' 620' ,' .' D ',)*' .6?*' *0 ,1-' ,')6.' D**2' -*^ =;D/ .)*0' 2',) .' >1;2,- ' M ' ' 7 % 2,12 ' 1 ' 60;6' MD1?' % ' R '0 *0' K%N X' .' .6 0',1')6+*'=-10;>*0',)*' -.,' -1-9' 1 ',)*' 9 20 ' *2, ,/*0' 1 ' 8) >)' ,76.' _-2 *0' -1?',)*' ;/56,*',-62./6, 12% K' : ;51' 01' 62,1' 6-1' D*.,,*-' 92182' 6.' 6-0 26/' : ;51' 6' 1? 2 >62' ?129' 8)1' 0 *0' 6D1;,' KSK' 1/^ /18*0' 2,12 ' 2' K ' D ' >1?= / 25' 1-',)*' ;/56,*' 6' >1,>1-062>*' 1 ',)*' >- =,;-*.' : 6+ 25' 5 +*2') ?^ .*/ '.*0;/1;0 ',1',)*'.,;0 '1 ' : 1/ ' & - ,' 8 ,)' 6'+ *8' 1 ' 8 - , 25' 6' >1? ?*2,6-A!',)*-*12 ')*' 86.' 2' 1-0*-',1' 6> / ,6,*') .' /6D1- I/*0',1' =-1A*>,' 620' ;20*-, 7*',1' 1-?' 6' >12>1-062>*' >6// 25',1') .' 6 0') .' D-1,)*-' ?129.',1',)*' 2;?D*-' 1 '21' *8*-',)62' +*');20-*0' ()*-' /6D1-.')6+*' D**2' 6' ->)' .,1-*)1;.*' 1-' .;D.*^ _;*2,' >1?= /*-.' ()*' >12>1-062>*',);.' ?60*' 86.' ?=-1+*0' D ' 12-60' 1 ' : 6/D*-.,60,' 8)1' /1;-.)*0' 6D1;,' KR ' 620' D ' B1)2' 1 ' *51+ 6' 2',)*' *2.; 25' >*2,;- % N' ' ,*=)*2.' 1; ' 4 - ' 'M ' 1/%X% ' ,*-',)*'-*+ . 12' 1 ',)*' ;/56,*' D ' L,;.' '6' >12>1-062>*',1','6==*6-*0' *2, ,/*0' '$!' ; ('N 4' *0 ,' ;>.*' -;5*2..' M 2,8' S ' 6-.' S7X' <1.,' 1',)*' I67, 2' >12>1-062>*.' 6-*' -*^ =-2,.' 1',) .' *' 5' D ' ;>6' 620' D6/*.,' M *2' QK ' 1 X% S' '2*8' 6, 2' 12>1-062>*',1',)*' ;/56,*' *0 ,*0' D ' ;>-..12' 6==*6-*0' 2' 6-.' 2' QNQ' M ,1X% ' ' ? ' (! ' ()*' -.,' 4*-?62' >12^ >1-062>*' 86.',)6,' 1 ' & ' M ;-=D' S R' 1/%X' -*=*6,*0/ ' -*= I 2,*0' 620' -*+ .*0% K' ()*' ?1.,' ;.* ;/ ',)6,' 1 ' ' 629 .>D' 9 ! ' ;' ?' =2 =? ' M =.' S ' 1/%' 1 ,*2' -*=- 2,*0' D*.,' *0 , 12',)6,' 1 ' * 2*>> ;.' =.' QX' ()*-*' 6-*' .*+*-6/' ?10*-2' 4*-?62' >12>1-0^ 62>*.',)*' ?1.,' 21,*+-1-,)' 1' 8) >)' . N' A%' 4' : /2 ' ;' " ' ; = ' N = ' MK' +1/.' 2 '=,.' Q+1' ,;,.,5' QKQCN X% ' & *' ?6 '6/.1' ?*2, 12' 6'+6/;6D/*' >12>1-062>*' 1-',)*' 4*-?62' D/*' ' ; " '# = / 5 =' " ' ' @ ' '# 2 '$ " 'M=;D' D ' : ' >)1,,' * =[' 5' QK Q+1X' ()*' 81-9' .' ?1-*' >1?=-*)*2. +*',)62' . ? /6-' 8 -, 25.' 2',)*' 25/ .)' /625;65*' ,' .' 0 + 0*0' 2,1',)-**' =6-,.' M %X' ' ;// 620' >1?=/*,*'-*5 .,*-'1 '6//',)*' 81-0.' 1;20' 2',)*' ^ D/*' T MK%X' 2' 20*L' 1',)*' ?1.,' ?=1-,62,',) 25.' .;D^ A*>,.' 620' 0*6.' 1;20' 2',)*' D/*' 8 ,)' -* *-2*>*.',1',)*' =/6>*.' 8)*-*',)*' /*' 2',)*' .6>-*0' +1/; ?*T 6.' 1-' 2.,62>*' ;20*-',)*')*60' 1-0.' ;==*-' 6' ?*6/>1?^ ?*?1-6, +*' 1',)*' 0*6,)' 1' B*.;.' ' ,' D- 25.';.' 2,1' 2^ , ?6,*' *//18.)=' 8 ,)')-.,T ,)*' 81-,) ' =6-, > =6^ , 12' 1',)*' .6?*T .=-.,;6/*2A1 ?*2,'1',)*' /*.)' 620' D/110' 1')-., J' *,>' MN%X' ()*' /*60 25' 01>,-2*.' 1')-.., 62, ' . .,*?6, >6// ' 6--625*0' 0-682' ;=' 6>^ >1-0 25',1' ;,)*-.' " ' 620' 6>>1?=62 *0' / ' .>-=,;-6/' =-11 .% ,)*-'>12>1-062>*.' 2' 4*-?62' 6-*',)1.*' 1' 4' ;>)^ 2*-' MB*26' ST' : 6//*' QN T =[' NQ SX' & >)?622' M =[' QKX' ' B' *-2)6-0' M =[' Q CKX' B' <' ,,1' M ;/[D' Q KX' ' 7' (1//*-' M ,;,,57' QNQX ' ?*5' M 6..6;' Q X% ' ()*' -.,'>1?=/*,*' @ "'>12>1-062>*' 86.',)6,' 1' <6-9' & /9.' 12>1-062>*' ' $ 2! ' 6 ' M 6-^ .' Q ' Q+1XT ' 6 "' ' ' ()*' -.,'>12>1-062>*' ,1',)*' 25/ .)'+*-. 12' 1 ',)*' D8' (*.,6?*2,' 86.';/PC' /.)*0' 8 ,)1;,'06,*'D;,'>*-,6 2/ 'D* 1-*' 'D ' <-' ()1?6.' 4 D*12 J' D* 25' >D*/X!' 6.' 6==*6-.' =-1D6D/*' -1?',)*' =-* 6,1- ' *= ../*',1',)*' -*60*-',)*' 81-9' 1' ,)*' 6?1;.' =- 2,*-'B1)2' 6 ' ' '

-.,' ,' 86.' ,)1;5),' .; > *2,' ,1' .=*> ' ,)*' >)6=,*-' 8 ,)' ,)*'/*,,*-.'6 ' >' 6.'?6-9.',1'=1 2,'1';',)*' D*P 5 22 25 ' ? 00/*' 620' *20' 1 ' *6>)' >)6=,*- ;,' 2 C ' 1D*-,' ,'=)*2.' 0 + 0*0',)*' D/*' 2,1' +*-..*.' ,) ;.' =-*=6- 25',)*' 86 ' 1-' 6' ?1-*' *L6>,'-* *-*2>*' 2' >12>1-062>*.' *,> D;,' <6-D*>9I'01*.' 21,' 6==*6-' ,1')6+*' ?60*' ;.*' 1 ',) .' ?=-1+*?*2,'6.') .'81-9'-* *-.' ?*-*/ ',1',)*' >)6=,*-. 2' (182/* .' ; !' '+1/ A = Q' ?6 ' D*' 1;20' *1?*' 2,*-*., 25'=6-, >;/6-.' -*.=*>, 25' <6-D*>9 .' >120 , 12' 2' / *' /6D1-.' 620' // ,-*6, , *2, N ()*' 1//18 25'81-9'8') >)'6==*6-*0' 2',)*'.6?*' 7I*6-'6.',)*'/6.,' .'6',-62./6, 12' `1?',)*' 4*-?62 ' &' ; ' ' % '- 1 ' ' ' 9 1' % '"' ' '" % % 2'# ' '"' " 'a ' '"' ' ' ' ' % " ' '"'7 '- ' ', 1' ' ' % ' ' "' "' ' ' !' ? " 1' ' ' "' '# '; 2(1' 'D ' 2 ' ' '"' " ' ' '"' ' !' - ' '"'# "'&' ' '6 1 "'("' ' !' -' " "J' ' ' - ' '"'-" ';+' ' " 'MQ+1' X 22*',)*',-62./6,1-'86.'62' 25/.)'=-2,*-'8)1' /1;-.)*0'6D1;','),)*'?00/*'1',)*'S,)'>*2,;-E7'6' .>)1/6-'6;,)1-'620',-62./6,1-'1'.*+*-6/'D119. **' 8$! /!*6-/*-' 25/.)'>12>1-062>*.'8*-*'.;=*-.*0*0' D',)*'?1-*'>1--*>,'620'+6/;6D/*'81-9'1' /*L620*-' -;0*2'M I'+%'*2,,/*0'&' % ' ' '7 '- ' E!' ' # '$ % '"' ', ' '7 '- '2',81'.[*.'8)>)' ,)* D/>6/.,;0*2,'8 /! 20'+*- '.*-+>*6D/*% -;0*2.' 12>1-062>*')6.'D**2' 1-'6'>*2,;-A',)*' D6.'1'*+*- '1,)*-'81-9'1',)*'9 20'.;>)'6.' -18 2.' ;,,*-81-,).' 1/*.' 60*.''*>,* & ,)'6/ ,.'*L^ >*//*2>*.')18*+*-' ,')6.'?1-*'.*-1;.'0* *>,.',)62' .'5*2*-6// ' 6==-*)*20*0 ()*' *+ ()1?6.' >1,' 86. .1'8*// 686-*'1',).',),6,')*'>12,*?=/6,*0'6'-*^ +.12'1',)*'81-9 ,.'>)*'6;/,'.' ,.'5-*6,'862,' 1'>1?=/*,*2*..'D;,'$?1*,'1',)*'81-0.'D* 25'-*6// '5 +*2'6,'6// '620'12/'6'=6-,'1',)*'1>>;--*2>*.'1' ,)*.*' ,)*'=-1=*-'26?*.'D* 25'*.=*>6// '0* *>,+* ()*.*'620'1,)*-'0* *>,.'6-*'2'6'5110'?*6.;-*'-*?*^ 0*0'2',)*'*0,12'..;*0'D',)*' 1>*,'1-'-1?1^ ,25')-.,62' 218/*05*J'M 120 Q R Q+1X'D;,',).' .,//.'6-'-1?'=*-.>,' '-*6// ' % (6>>;^ -6,*' 25/.)'112>1-06_7*'.' *,'6'0*.0*-6,;? ()* 862,'.'6D1;',1'D*'?*,'D' ,-125.'6 " ' 9 ' '"' & "!'6 'N I3' '"'# '$ %9 '/6,*/'6221;2>*0'6.'2*6-/ '-*60X7'1-',)*'=-*.. 12>1-06, ' ',-*6, 'D;,';.;6// '-*.,- >,*0',1' 6'>12+*2,12'D*,8**2',)*'=1=*'1' 1?*'620'62 '.*>^ ;/6-' 1?62' 6,)1/>'51+*-2?*2,' 1-',)*'.*,,/*?*2,'1',)* *>>/*6 6., 11/-*/6, 12.'1',)*' 1?62' 6,)1/BD'.;D*>,.' 1',)*/6,,*-'6-*'=-1=*-/ '12/ '>6//*0' ',)1;'5)' ,' '>1?7?12',1'6==/ ',)*',*-?'>12>1-06,'86.' 1-',)*' -.,' ,?* 6==/*0',1',)*'>12+*2, 12'?60*' 2' Q'D*,8**2' 1=*' <6-,2' '620',)*'-*=-*.*2,6, +*.'1',)*'4*-?62'26^ , 12'8)>)'&6.'>6//*0'7 ' %1 ' ' '"' 4 % ' % ! ()*'26?*'.'218')18*+*-' 5*2*-6// '6==/*0',1'*6-/ *-'>12+*2, 12.'6/.1 2*'1' ,)*'?1.,' ?=1-,62,'1',)*'*6-/ *-'>12>1-06,.' .',)6,'1' '>6//*0'6/.1',)*' 6/L, ;1' 12>1-06,'?60*' 2 KK'D*,8>*2' 6/L,;.' '620':*2-A' ' 2'1-0*-',1' =;,'62'*20',1',)*'/125'>12,*.,'12',)*'.;DA*>,'1'2+*.^ ,,;-*'620'8)>)')6.'. 2>*'D**2'I>12. 0*-*0'6' ;206^ ?*2,6/1-0 262>*' 2'4*-?62 <1.,'1',)*'>12>1-06,.')6+*'D**2'*L,1-,*0' -1?' ,)*' =1=*.'D',)*'0 *-*2,' >+/=18*-. () .'86.'012*'6.'*6-/ '6.',)*' ,**2,)' >*2,;- 1-?6, 12'1',) '=6=6/>1;-,'<6-, 2' '.68') ?.*/' 1D/5*0' 2' Q',1'>12>/;0*',)*'>12>1-06,.'1' I ' 8),)*',)*'4*-?62',)*' <1-'6'?1?*' 2,*-*.,25'=6-,>;/6-.' -*.=*>,25' <6-D*>9.'>120,12' 2'/ *'/6D1-.'620'// 26, 12. D6=`/'-*.,->,.',)*'2;?D*-'1'>6-0 26/.' 620'?69*.'=-1+.12.'6.',1',)*-'>)6-6>,*-'620'?10*' 1'6==1 2,?*2,)6=K-*.,->,.',)*=6=6/-*.*-f 6 12.)6=N,-*6,.'1'=6=6/6226,*.'620',6L*.'8)>)' 1-'-62>*'8*-*'-*0;>*0'1-',)*.=6>*'1' +*' *6-.',1' 12*')6/'1',)*-'1-?*-'6?1;2,?8)/*'2',)*' 25/.)' >12>1-06,',)*.*'8*-*'6D1/.)*0'6/,15*,)*-)6=' 0* 2*.'8)6,'-6/./-*',1'D*/105*0'6,' 1?*)6=' -*0;>*.',)*'2;?D*-'1'>1?7?*206?.)6=4*2&1 2.' 6'.,-.>,'=-1>**0 25'656 2.',.?12'D*1-*',)*' 8G ;')6='=-1+0*.',)6,'*L>1?7?;2>6,*0' =*-.12.'2**0'21,'D*'.) ;22*0'D*1-*',)*'=;D/>6, 12'1' ,)*'D62)6=Q-*0;>*.',)*'2;?D*-'1'=6=6/0.^ =*2.6, 12.)6=R',-*6,.'1',)*'-*+*2;*'1',)*'=6^ =6/>;-6)6='-*0;>*.'1-'4*-?62',)*'=6=6/ 20;/5*2>*.'620'-*=*6/.',)1.*',)6,')60'D**2'..;*0' .2>*',)*0*6,)'1'4-*51-A'd 2',)*'-*2>)'>12>1-06, 21,)25'.'.60 0'6D1;',).'=1 2,)6=' =-1+0*.' ,)6,',)*'4*-?62'620'-*2>)'>12>1-06,.'A7-*',1'D*+6/0' 12/'1-'+*'*6-.'620',)6,'8,)'-*56-0',1',)*' -*2>)' ,)*-1 6/.62>,12'.'-*.*-+*0 ()*' 25/.)'>12>1^ 06,'.'0*2,* ()1'4*-?62'620'25/.)'>12>1-06,.' 1D,6 2*0'6,'12>*/*56/6;,)1-,'),)*'-*2>)'2'K ,'6'?**,25'1',)*'4*2262'*/** 1-6'6,'-629 1,' 2'>,1D*-'S',)*'-*1-?6,1-'0'?620.'1',)*'4>6' ?62'26,12.'8)>)'1-'.*+*-6/*6-2')60'D**2',)*'5;/6' A*>,'1'2*51,6,12.'8*-*'26// '65-**0';=12 ()*' >)*/*'>12>*-2*0',)*'-*>152,12'1',)*'.;=-*?*'>'6' ,)1-,'1'5*2*-6/*>1;2>/*'620',)*'-*0-*..'1',)*'5-*+62>*.'1' ,)*'4*-?62'26,12 1=*' ;5*2*'N',)-1;5)'D. 6?D6..601-.'0*>/6-*0') .'-*60 2*..',1'>12>*0*',)*.* 0*?620.'620'12') .'0*6,)D1=>.'0* *D '.52*0'+* D;//.'D'8)>)',)*'8*-*'.*+*-6// '5-62,*0 ()*' -629 1-,'0*?620.'620',)*'D;//.'1' ;5*2*' 'D' 8)>)',)*'6-*'-6, *0'6->',15*,)*-'>6//*0',)*'@ +9 ' ' '1-',)*' ' ' !)*' >)*'D6..'1',)*.*'>12>1-06,.'86.',)*'.*-*.'1'-*0' 1(6,1-'0*>-**.'8)>)')60'D**2'601=,*0' ,D;' 1;2>/1'6./* >)1/6.' '12'<6->)'KQ' '-6,^ *0',)*'>12>*..12.'?60*'DE7) .'=-*0*>*..1-',1',D>' 4*-?62'26,12 2' *D Q',)*' ?=*-1-' -*0*->9' '>M2C >/;0*0'M8,)1;',)*'>1C1=*-6,12'1',)*'*/*>,1-.'8,)' ,)*'>6-0 26/ /*56,*' 6-+6A6/ 6'>12>*- 6,'6,' *226' 8)>)'?60*',1',)*'=1=*' 6-C-*6>) 25'>12>*..12.'' 2' =6-,>;/6-',)*'- 5),'1'-6, 25',)*'*/*/>,12'1'6//',)*' D.)1=.'M8)>)'- 5),'D',)*' 12>1-06,'1' - 2>*5')60' D**2'-*-,->,*0',1',)*'D.)1=- >.' ? ?*0 6,*/'.;DA*>,' ,1',)*'=1=*X'1'>62>*// 25';2>6212 >6/*/*>, 12. 7 20' 1'6==1 2, 25'D.)1=.'1-',)*'0 1>*.*.',);.'D*>Z?*'+6^ >62, () .'>12+*2, 12'86.'1?*-/ '>6//*0',)*'&= ' ' '1-'5 'D;,',)*'?*-*'>1--*>,' 26?*'.',)*'N ' ()*'-629 1-,'12^ >1-06,.'620',)* *226' 12>1-06,',15*,)*-'6-*'>6//*0' ,)*' ' '"'? '7 !' ()*'1-?*0'6' ;06?*2,6/68'1',)*'>12,2;*0'*+*2'6,*-',)*'0*-,;>,12'1',)*'4*-^ ?62' ?=-*',1'D*'6'=6-,'1',)*'*>>/*.6.,>6/68'1' ,)*.*+*-6/ 4*-?62'>1;2,-*. 2'@ ',)*'-*1-?6,1-'0*>-**.'1',)*' 1;2>/ 1' 6./*'>)60'D**2' 2' QQ'601=,*0'6.'6'/68'1',)*' 9 2501?',)*' *,'1' 1;-5*. ;',)'/68',/*' '$ ' '; ' 86.'2*+*-'-*>152.*0' D'62'1',)*'=1=*.'1',)S' ,)'>*2,;- 1'620'2' S' 1=*' *1'd'=-*+6/*0';=12'9 25' -620.'1',1'>12>/;0*' 6'2*8'>12>1-06,'8)>)',)1' 6,*-62' 1;2>/',)*2 2

.*.. 12' 6==-1+*0' 620' *?D10 *0' 8 ,)' ,.' 0*>-**' 8) /*' ,)*' 9 25' ?60*' ,'6'/68'1 ',)*'>1;2,- '21,8 ,)..620 25' ,)*' =-1,*.,' 1 ',)*' 6-/ 6?*2,' 620' ,)*' $2 +*-. , ' 1 ' 6- .%' ,' *.,6D/ .)*0' ,)*' 6226,*. ' -* *--*0' ,)*' &5 * ' 1-' 60A;0 >6, 12',1' 1?*' 620'5 +*.',1',)*'9 25' ,)*' - 5),'1 '21? 26, 25',)*'D .)1=.%' % 3 2' ' 6' >12>1-06,' 86.' >12>/;0*0' 8 ,)',)*' 0;9*' 1 '$ *!' D ' 8) >)',)*' /6,,*-' -*>* +*0' ,)*' - 5),' 1 ' 21? 26, 25' 1-',)*'?1.,' ?=1-,62,'D*2* >*.%' 2' Q4 9 25'B1)2' ' 1 ' '>12>/;0*0' 6' >12>1-06,' 8 ,)' 1=*' 220* *2,' ' 8) >)')*'6D62012*0' " ' ' 5 1' 8) >)',)*' 9 25.')60' *L*-> .*0' . 2>*',)*' D*^5 22 25' 1 ',)*I'>*I2,;- ',)1;5)' . 2>*' K ',)*'=1=*.')60'=-1,*.,*0' 656 2.,' ,%' ()*' >12>1-06,' 86.' 0 .6=^ =-1+*0' D ',)*' 1-,*.%' 2' KN' 1=*' 0- 62' %56+*' ,1',)*' 9 25.' 1 '$% ',)*%'.6?*' - 5),' 6.' -*56-0.',)*' 21? 26, 25' 1-'*>>/*. 6., >6/ D*2* >*.' 8) >)')60' D**2' >12>*0*0' ,1' -62>*% 1' >12>1-06,' 86.' >12>/;0*0' 0;- 25',)*' S,)'>*2,;- '6 ,*-',)*' *6-' KN' 620' 212*' 6,'6// 0;- 25',)*' ,)'>*2,;- % % -'' ' ' '" ' 6 " "' !=1" ' >12>1-06,.'1 ',) .'=*- 10M C X'8*-*'1>>6. 12*0'D ',)*' -*+ +6/'1 ',)*' 62, C=6=6/ ,*20*2> *.' 1 ',)*');->)' 1 ' 1?*' 8) >)')60'=-*+6 /*0' 2',)*' ,)'>*2,;- '620' ., // ?1-*' D ',)*' 0*+*/1=?*2,'1 ',)*',)*1- '1 ',)*' 6D^.1/;,*.&%' ()* '6//' D*/125',1',)*' 6, 2' 26, 12.' 1 ' ;-1=*% % $ % ' ()*' 6--625*?*2,' 1 ' Rb_R) 60' D**2' ,)*' . ; DA*>,' 1 ' /125' >12,-1+*-. *. ' 8) >)' 8*-*' =6-,/ ' .*,^ ,/*0' DA!' 62' 6 7**?*2,' 2' K '620' ;// 'D '6'>12>1-06,' 12' B62%' S ' 8) >)' ?60*' =-1+ . 12.' 12',)*' 60? .^. 12' 620' 6;,)1- , '1 '=6=6/ D;//.' 2',)*'>1;2,- '12',)*' / ? ,.' 1 ' *>>/*. 6., >6/ A;- .0 >, 12' 12',)*' *L*?=, 12' 1 '>);->)' =-1=*-, '12',)*'- 5),'1 '6. /;?' *,> K% 1-' C ' 8) >)' . 2>*' S' D*/125*0',1' ;.^ ,- 6 '6' >12>1-06,' 86.' >12>/;0*0' *>' '>12>*?C ' 25' *L>/;. +*/ ',)*' *L*?=, 12' 1 '>);->)' =-1=*-, % N% 2' 7 % ',)*' .1C>6//*0' " ' C1-',)* - 5),'>/6 ?*0' D '9 25.',1' 6>,'6.' =6=6/ /*56,*. ')60' /125' D**2' 6')*-*0 ,6- 7 . ; DA*>,' 1 ' >12,-1+*-. ' D*,8**2',)*' .*>;/6-' 51+*-2?*2,.' 620',)*' =1=*.% ,' 86.' 26// ' -*5;/6,*0',15*.,)*,' 8 ,)' 1,)*-' 0 *-*2>*.' D '6'<,-*6, ' >12>/;0*0' B;2*' K ' 8) >)' -*>152 .*0' ,)1;5)' 2' .1?*8)6,' ?10 *0' 1-?' ',)*' *L*?=, 12' 1 ' >);->)' =-1=*-, '620' 1 ',)*'>/*-5 ' -1?',6L6, 12 ',)*' - 5),'1 ' 6. /;?' *>>/*. 6., >6/ A;- .0 >, 12' 2' ?6-- 65*' 6 6 -. ' 620',)*' - 5),'1 ',)*');->)',1' .;=*- 2,*20',)*' ?=1-^ ,6, 12' 1 ' 1-* 52' D119.% % $% ! ' 7()* >12 / >,.'D*,8**2' =6 2' 620',)*' =1=*' >12>*-2 25',)*' *L,*2,' 1 ',)*' -1A 6/ - 5),' 1 '>1//6, 12' 8*-*' .*,,/*0' D ' 7' =-*/ ? 26- '65-**?*2,' 2' N '620' DE' 6' >12>1-06,' >12>/;0*0' B62%' SN% 2' 6==*2^ 0 L',1',)*'>12>1-06,'>12>*-2 25',)*- 5),.'1 ',)*' =6=6/ 2;2>1' 2' < 60- 0' 86.' 65-**0';=12% % ! ' 2' ' *2*0>,' d '5-62,*0',1',)*' 9 25.' 1 ' 1-,;56/' D ' 6' >12>1-06,' ,)*' - 5),' 1 ' 21? ^ 26, 25' 1-',)*' *= .>1=6/ .**.' 620' 6// D*2* >*.% % -'' ' ' '" ' 7 "' ! ' ()* =-*.*?,'>*2,;-A'>)6.' 8 ,2*..*0',)*'>12>/;. 12' 1 '6'+*-A!' /6-5*' 2;?D*-'1 '>12>1-06,.% <1.','1 ',)*?' 8*-*'>6//*0' 1-,2' '6' 0*. -*' 1 ',)*' .*>;/6-' 51+*-2?*2,',1' -*6-C' -625MF*>>/*. 6., >6/ 6 6 -.' 8) >)')60' D**2',)-182' 2,1';,,*-' 0 .1-0*-' D ',)*' -*2>)' *+1/;, 12' 620',)*' ,*-- ,1- 6/ >)625*.' 2' ;-1=*' 1//18 25',% % @ ! ' 126=6-,*' 8)*2' -.,'>12.;/' >12>/;0*0 12' 86.' D*5;2',)*' =1=*' 6,' -.,' 0*?620*0',)*' -*.^ 6' >12>1-06,' 8 ,)' ;.' B;/ ' Q K% ,' -*C*.,6D/ .)*0',)1' 8) >)' 8*2,' 2,1' 1=*-6, 12' 2' =- /' Q K% ,' -*C*.,6D/ .)*0',)1' 8)*2' ,' 6.' 1;20 1;',),6,',) .' 0*?620' 81;/0' 2*+*-' 1 ?62' 6,)1/ >');->)' 8) >)' .' 0*>/6-*0',1' D*' ,)1' -*/ 5 12' 1 ',)*' ?6A1- , ' 1 ' -*2>)?*2' 620',)6.' D*^ >1?*' ,)*' D6. .' 1 ',)*' =-*.*2,' *>>/*. 6., >6/ *12.. ,;^ , 12' 1 ',)6,' >1;2, % ' 5;6-62,**0',1' ,)*' 1?62' 6,)1/ >');->)' -**01?' 620' =;D/ > , ' 1 ' & 1-.) =' 8) >)' 86. ')18*+*-'=/6>*0' ;20*-',)*' 5*2*-6/ /68.' 1 ' =1/ >*!' =-1? .*0'6'2*8'> ->; ?.>-=, 12'1 '0 1>*.*.'620' =-1+ 0*0' 1-',)*' -*. 526, 12' 1 '6//,)*' D .)1=.' 6,',)6,' , ?*' 2' 1 >*!O ,' 56+*' ,1',)*' -.,' 12.;/ ,)*' - 5),' 1 ' 1? 26,?5',)*'D .)1=.'620'=-*.>- D*0',)1'16,)'1 ' 0*/^ , ' ,186-0',)1' .*>;/6-' 51+*-2?*2,' 8) >)',)*' D .)1=.' 620' 1,)*-'=- *.,.')6+*',1',69*% ()*' D .)1=.'-*>* +*0' ,)*' - 5),' ,1' 6==1 2,',)*' =6- .)' =- *.,. 'D;,',)*' /6,,*-' ?;.,'D*' 65-**6D/*',1',)*' .*>;/6-' 51+*-2?*2,% ',),' >);->)*.' 21,' *,' .1/0' 6.' ?62 '6.' 8*-*' 2*>*..6- ' 1-' 0 + 2*' 81-..) =' 8*-*I,1'D*' -*.,1-*0',1',)*' D .)1=' 8*-*' 2*>*..6- ' 1-' 0 + 2*' 81-..) =' 8*-*I,1'D*' -*.,1-*0',1',)*' D .)1=*-, ',)6,')60' D**2' .1/0' 0;- 25',)*' *+1/;, 12' 620',)*' .,6,*' =-1?^ .*0',1' =6 ',)*' D .)1=.' 620' =- *.,.' 6' .; > *2,' .6/6- % ()*' 1-?*-' - 5),.' 620' =-*-156, +*.' 1 ',)*' -*2>)' >-182' 8*-*' -*>152 .*0' 6.')6+ 25' D**2',-62. *--*0',1',)*' -.,'>12. ;/' D;,' 2' >6.*' 6' =*-.12' 21,'6'?*?D*-' 1 ',)*');->)' 1 ' 1?*' .)1;/0' D*' 2+*.,*0' 8 ,)',)*' /6,,*-' 1 >*' 2*8' =-1+ . 12.' 8*-*' -*.* 7C*0% ()*' >12>1-06,' 86.' =;D/ .)*0' 6.' 6' /68' 1 ' -62>*' 2' Q K',15*,)*-' 8 ,)' .1?*' 2,-10;>,1- ' 1-562 >' 6-, >/*.%I ' 56 2.,' ,)*' /6,,*-')18*+*-',)*' =1=*.' 6/86A.' =-1,*.,*0% ()*' >12>1-06,' 620',)*' 2*8' > ->;?.>- =, 12' 1 ' 0 1>*.*.' 8*-*' 6/.1' +6/ 0' 1-' *//5 ;?' 620',)1.*' =6-,.' 1 ' 4*-^ ?62 ' M,)*' /* ,' D629' 1 ',)Z') 2*X' 8 ,[*-/620 ' 620' 6+1 ' 8) >)'D ',)*',-*6, 25' 1 '=*6>*' 6,' ;2>+ //*' 620' ? *2. ')60' D**2' ;2 ,*0' 8 ,)' -62>*% 2' Q N 6' .=*> 6/ >12>1-06,' 86.' >12>/;0*0' D*,8**2' ;.' '6 ,' 6=1/*12' 1-',)*' ,6/ 62' -*=;D/ >% ' .;D.,62, 6// '65-**.' 8 ,)',)*' -*2>)'>12>1-06,T',)1;5)' .1?*' =-1+ . 12.' 6-*' ?1-*' 6+1-6D/*',1',)*' =1=*% ()' >12>1-06,' -*?6 2*0' +6/ 0' 1-' ,)*' 9 2501?' 1 ' ,6/ ' 8) >)' 86.' *.,6D/ .)*0' 2' Q 2 Q N 6=1/*12' 2*51, 6,*0' 8 ,)',)*' =1=*' 6' .*>120' >12>1-06,'M,)*' 12>1-06,'1 ' 12,6 2*D/*6;X'8) >)' 86.' =;D/ .)*0' 656 2.',)*' >12.*2,'1 ',)*' =1=*' 8)1')60' -*^ 56-0*0' ,'12/A76.' 6'=->/ ? 26 '65-**?*2,'620' 6,'12>*' ,119' D6>9') .' >12.*2,% .' ,)*' -* 52' 1 ' 6=1/*12' >*6.*0' .112' 6 ,*-' ,)*' >12>1-06,' 2*+*-' D*>6?*' * *>^ , +*% 1; .' d ' >12>/;0*0' 6,' 1?1' 8 ,)' ; .' ' MB;/E' Q X'6' 2*8'>12>1-06,'D ' 8) >)',),6,' 1 ' S' .1' 2A;- 1;.',1',)*' / D*-.*.' 1 ',)*' 46// >62');->) ' 86.' 656 2' -*+ +*0' ,)*' >12>1-06,' 1 ' Q '620',)*' 6-C' ' 4 I' 1 ' Q K' 8*-*' 6D1/ .)*0' ,)*' 26, 12' 86.' .;DA*>,*0',1' 62' *21-?1;.',6L' D ',)*' 0*?620' 1 ' *2018?2*,.' 1-' 1-, C,81' 2*8' ?*,-1=1/ ,62' 620' *= .^ >1=6/ .**.' 8 ,)' ,)*' -' >)6=,*-.' 620' .*? 26- *.T' 620' -*-*' .>1=*' 86.' 6,/D-0*0',1',)*' 2,1/*-62>*' 1 ',)*' 1^ ?62' >1;-,'DA',)*' 20* 2 ,*' /625;65*' 1 '6-,%' 8) >)' .=*69.' 1 ' ?*6.;-*.' 65%2 2*,',)1'=-*+6 / 25' 1D.,6>/*.',1' -*/ 5 12' 620',)*' /68.' 1 ',)*');->)' () .'-*+ +6/' 1 ' 1/0' 6D;.*.',) .' =-1+ . 12' 1-',)*' /;L;- ' 1 '2;?*-1;.' >/*- >6/ 0 52 ,6- *.' 6,',)*' *L=*2.*' 1 ',)*' 26, 12' >1;/0' =/*6.*' 12/ ',)*' ;/,-6C-1A76/.,' 21D / -, ' 8)1' .68' 2' ,)*' ?*62.' 1 ' =-1+ 0 25' ,)*' -' .12.' 8 ,)' D*2* >*.% ()*' 26, 12' -*>* +*0',)*' >12>1-06,' 8 ,)' 6/?1.,' ;2 ^ +*-.6/' 0 .6==-1D6, 12T' +1 >*.' 1 'M)1' 5 I>6,>.,' 8* 5),' 8*-* -6 .*0' 656 2.',T',)1')6?D*-.' -*A*>,*0',' 620' ,' 86.' 2*+*-' >6-- *0',)-1;5)% ,*-',)1' *+1/;, 12' 1 ' QN',)*' 51+*-2?*2,' *// /6>9' 12',)*' >12>1-06,' 1 ' Q ' 620',)*' 1-562 >' 6-, >/*.' D*>6?*' 6' 2*8' .;5*>,' 1 '>12,-1+*-. ' D*,8**2');->)' 620' ,6,*% K' ? 1' '& % ' (/ 1'-*/6, 12.'1 ',)*' 4*-?62' 1?62' 6,)1/ >.',1',)*' =1=*' 8*-*' 5-*6,C /E70 .,;-D*0' D ',)1' 0 ..1/;, 12' > ',)*' 4*-?62' *?= -*% 1-' .1?*' , ?*' 1',)*' 125-*..' 1 ' *226' 12/A!' +*' 4*-?62' D .)^ 1=.' 8*-*' ., // 6/ +*% !&)*2',)*' =1/ , >6/ -*1-562 [67' ;' *-2 25',)*' >12>/;. 12' 1 ' >12>1-06,.' D*562% M %X' ' 86.',)*' -.,'.,6,*' 8) >)' .;>**0*0' MB;/ ' ' Q X' 2' 6-- + 25' 6,'62' 65-**?*2,% %,)>' 6+6- 62' >12>1-06,',81' 6->)D .)1=- >.' 8*-*' *.,6D/ .)*0' .*? ^ 26-*.' 8*-*' 2.,,;,*0' 620' =-1+ 0*0' 8 ,)' /620T',)*' 21? 26, 12.' 8*-*' /* ,' 8 ,)',)*' 9 25' 8 ,)',)*' -*.*-+6^ ,' 12' 1 ',)*' =6=6/ - 5),' 1 '>12 - 6, 12T',)*' / ? ,.' 1 ' ,)*' > + / 620' *>>/*. 6., >6/ A;- .0 >, 12' 8*-*' =-*> .*/ ' .*,,/*0' 620',)*' *-*>, 12' 1 '2*8' ?126.,*-*.' 86.' =-1?C

.>0% ( ) .' >12>1-06,' 86.' = ; D/ .) *0' 2' < 6 ' Q Q',1^ 5*,) *-' 8 ,)' ,)*' 2*8' =1/ , >6/ >12., , ;, 12 'D ' 8) >)' 6// 6==-*) *2. 12.' 1-' ,)*' -1, *. ,62,' #) ; ->)' 2' 6+6^ - 6' 8 *-*' 6//6 *O%

MK%X' ( ) *' 51+*-2 ? *2,'1 ' 2' QK '65-**0' 8 ,)' ,) *' =1=*' ; =12' 6' D ; // 1 ' > ->; ? . *- =, 12%M X*' $ ' &' 8 ' 8) >)' 86.' = ; D/ .) *0'D ' ,) *' -; . . 62' 51+^ *-2 ? *2,' 6.' 6' /68' 1 ' ,) *' .,6,*% ,G 0 + 0*.' ,) *' ,6,*' 2,1' , 81' 6->) D .) 1=- >.' 620' . L' D .) 1=- >. ' 620' >12^ ,6 2.' =-1+ . 12.' 6.' , 1' ,) *' -*C*. ,6D/ .) ? *2,' 1 '>) 6=, *-. ' ,) *' */*>, 12' 1 ' D .) 1=.' D ' >) 6=, *-. ' ,) *' 01,6, 12' 1 ' D .) 1=.' 620') 6=, *-. ' 620' ,) *' ,6L*.' , 1' D*' =6 0' D ' ,) *' *= .>1=6/ >) 62>*//1- *.', 1' : 1 ? *%

N% -" ' 6 ' ' " ' 2%% ' 5" % ' ' A 2' Q Q' ,) *' . , 6, *' 51+*-2 ? *2,.' 1 ' ' ; ' 620' 6' 2 ; ? D*-' 1 '1,) *-' ? 21-' 4 *-? 62' . , 6, *. ' .*2,' 0*/*^ 56, *. ' , 1' 6' >12 *-*2>*' 6,' -629 1-,' , 1' >120 ; >, ' A1 2, ' 2*^ 51, 6, 12.' 8 ,)' ,) *' =1=*' >12>*-2 25' ,) *' -*>12. , -; >, 12' 1 ' *= .>1=6/' .**.% 2' QK ' 6' D ; // 1 ' > ->; ? . >- = , 12 ' D*5 22 25' ' 4 ' 620' =-1+ 0 25' 1-' ,) *' *. , 6D/ .) ? *2,' 1 '62' 6->) D .) 1=- >' 2' 60*2 ' 620' D .) ^ 1=- >. ' 2' : *. . *C 6-? . , 60, ' : *. . *C 6. . *-/ ' 6. . 6 ; ' 620' & ; -, * ? D*-5 ' 620' 1-' ,) *' 01,6, 12' 1 ' ,) *' D .) 1=. ' 86. ' . . + *0' 620 -6, *0' D ' ,) *' 51+*-2 ? *2,. ' 2' gQKK% 1 ? *' ; -,) *-' =1 2, . ' 8 *-*' 65-**0' ; =12' D*, 8 **2' ,) *. *' 51+^ *-2 ? *2,. ' 620' ,) *' =1=*' 2' QK ' 6' D ; // 1,) *-. ' >12, 2 ; *0' , 1' D*' ,) *' . ; DA*>, ' 1 '62 ? 6, *0' >12, -1+*-. ' 620' 8 *-*' 2' ? 1. ' , . , 6, *. ' 21, ' *, ' . *, , /*0' 2' QS %

' >12>1-06, ' 8 ,)' ,) *' 9 25' 1 ' & ; -, * ? D*-5 ' >12. . , ^ 25' 1 ' ,) -, **2' 6-, >/*. ' 86. ' >12>/ ; 0*0' 2' Q % () *' 51+*-2 ? *2,' =-1 ? . *. ' 2' , ' , 1' *L*>; , *' ,) *' 01,6, 12' 1 ' ,) *' D .) 1=- >' 6. ' . 112' 6. ' > ->; ? . , 62>*. ' 8 // =* ? . % ( ) *' D .) 1=' -*>* +*0' ,) *' - 5) , ' , 1' >12 *-' 6// D*2* >*. ' 8) >)') 6 + *' 21' =6, -12 ' 1 ' 6==1 2, 25') . ' + >6-' 5*2*-^ 8 / ' ,) *' *L, -61-0 26- ' ? *? D*-. ' 1 ' ,) *' >) 6=, *-. ' 620' ,) *' -; -6/ 0*62. ' *, ') *' ? ; . , ' 6==1 2, ' =*-. 12. ' , 1' 8) 1 ?' ,) *' 51+*-2 ? *2,') 6. ' 21' 1DA*>, 12. % (1' ,) *' D .) 1=. ' D*^ /125' 6/ / ,) *' -*5 ; /6, 12. ' >12>*-2 25' 0 + 2*' . *-+ >*',) *') 1/0 25' 1 ' . 210. ' 620' ,) *' 2, -10 ; >, 12' 1 ' ? 126. , >' 1-^ 0*-. ' ,) *' /6, , *-. ') 18 *+*-' 12/ ' 2' >12>*-, ' 8 ,)' ,) *' 51+^ *-2 ? *2, % () *' *= .>1=6/' >1 ; -, ') 6. ' A ; - .0 >, 12' 1+*-' 6// *>>/*. 6. , >6/' 6 6 -. ' 2' =6-, > ; /6-' 6/. 1' 1+*-' 6// ? 6-- 65*' 6 6 -. % () *' D .) 1=') 6. ' ,) *' - 5) , ' 1 ' 2 / >, ^ 25' *>>/*. 6. , >6/' >*2. ; -*. ' 12' >/*-5 ? *2' 620' /6 ? *2% ' >/*-5 ? *2' , -62. 5-*. ' > + / /68. ' ,) *' . *>; /6-' >1 ; -, ' 8 // 6>, ' 2' >12>*-, ' 8 ,)' ,) *' D .) 1=% () *' 2, *->1 ; -. *' 1 ' ,) *' D .) 1=. ' ,) *' >/*-5 ' 620' ,) *' =1=/*' 8 ,)' ,) *' =6^ =6/' . ' -** ' 620' *>>/*. 6. , >6/' 0*>-**. ' 01' 21, '-* _ : -*' ,) *' %N (' !' () *' -*/ 5 1 ; . ' 2. , -; >, 12' 1 ¯' ,) *' 1 ; ,) ' D1,)' 2' = ; D/ >' 620' =- + 6, *' 2. , , ; , 12. ' . ' ; 20*-' ,) *' >12, -1/ 1 ' ,) *' D .) 1=% : *' . */*>, ' .) *' >6, *>) . ? % : *') 6. ' ,) *' - 5) , ' 1 '*. , 6D/ .) 25' . *? 26- *. ' 620' 1 ' . ; ^ =*- 2, *20 25',) *? % -1+ . 126// ' . =*> 6/ -*5 ; /6, 12. ' 6-*' ? 60*' 1-' ,) *' >12, 2 ; 62>*' 1 ' ,) -**' . *? 26- *. ' 6, ') 25*2 ' : MP, , 8* / ' 620' (; D 25*2% () *' ,) *1/15 >6/ 6>; /, ' 1 ' ,) *' ; 2 +*-. , ' 1 ' (; D 25*2' . ' 6/. 1' ; 20*-' ,) *' >12, -1/ 1 ' ,) *' D .) 1=' 8) 1' 6 ; ,) 1- [*. ' ,) *' =-1 *. . 1-. ' , 1' /*>, ; -*' 620' ?6 C-> . *' , 2. ' 6 ; ,) 1- [6, 12' 8) 1' , 6 9- =, ' 1 ' ,) * -' >12 *. . 12' 1 ' 6 ,) '620' *L6? 2*. ' ,) *' ? 62 ; . 9- =, ' 1 ' ,) * -' /*>, ; -*. % () *' =-1=*-, ' 1 ' ,) *') ; ->)' . ' 2^ + 1/6, *' D ; , ' . ; DA*>, ' , 1' = ; D/ >', 6L*. % , ' . ' 60? 2 . , *-*0' D *,) 1 ; , ' >12>*-, ' 8 ,)' ,) *' 51+*-2 ? *2, % 2' */5 ; ? ' 8) >)' 6, ' ,) 1' , ? *' 1 ' ,) *' = ; D/ >6, 12' 1 ' ,) *' -*2>)' >12>1-06, ' 1 ' Q ' 86. ' 6' =6-, ' 1 ' -62>1 ' ,) 6, ' >12>1-06, ' >12, 2 ; *0' 2' 1->*' 8) /*' ,) *' >1 ; 2, - ' 86. ' 622*L*0' , 1' : 1//620' M Q C Q X% 2' ,) *' 2*8' */5 62' 9 2501 ? ' ,) *') ; ->)' 86. ' . *=6-6, *0' -1 ? ' ,) *' . , , *' 620' ,) ; . ' ,) *' >12>1-06, ' 26, ; -6// ' /1. ' , . ' 6 ; ,) 1-^ , %

$ / ! ' ( ) 1' 0*6' 1 ' *. , 6D/ .) 25' 12*' 26^ , 126/ D .) 1=- >' >1 ; /0' 21, ' D*' >6-- *0' 1 ; , ' 6. ' . 1 ? *' 1 ' ,) *' >62, 12. ' 8 *-*' ; 26D/*' , 1' 65-**' 8 ,)' ,) *' =6=6/ . *'] % 4-60 ; 6// ') ' 65-** ? *2, ' 8 ,)' . 1 ? 1P 1 ' ,) *' >62, 126/ 51+*-2 ? *2, . ' ,) *' *>>/*. 6. , >6/ -*/6, 12. ' 1 ' ,) *' 1 62' 6,) 1/ >. ' 8 *-*' -*5 ; /6, *0 ' 620' . L' D .) 1=- >. ' *. , 6D^ / .) *0%

Q% ! ' 1-' $ ' 6' 2*8' 3%A6(' 1 ' > >; ? . >- = IC 2*51, 6, *' 8 ,)' ,) *' =1=*' 6D1 ; , ' 6' 2*8' >12>1-06, ' . 112' 6 , *-' ,) *' D*5 22 25' 1 ' ,) *' -*+*0 ; $126- ' ? 1+*? *2, . ' 2' Q Q% () *' >12>1-06, ' 86. ' >12>/ ; 0*0' 2' Q ' 620' 86. ' ? 1. , ' 6+1-6D/*' , 1' ,) *' >/6 ? . ' 1 ' ,) *' =6=6> % () *' 1//18 25' 6I=' ,) 1' ? 1. , ' ? =1-, 62, ' =1 2, . ' 1 ' ,) *' ; . ^ , - 62' >12>1-06, % () *' 1? 62' 6,) 1/ >%) ; ->)' 2' 6// =6-, . ' 1 ' ,) *' * ? = -*' *2A*A . ' ,) *' =-1, *>, 12' 1 ' ,) *' 51+*-2 ? *2, T () *' ' 5 ' . ' 6D1/ .) *0 ' 620' ,) *' 2, *->1 ; -. *' 1 ' ,) *' D .) 1=.' 8 ,)' ,) *' =1=*' . ' -**% () *' 2. , -; >, 12' 1 ' ,) *' 1? 62' 6,) 1/ >' A 1 ; ,)' ? ; . ' D*' 2' 6>>1-062>*' 8 ,)' ,) *' 1? 62' 6,) 1/ >' -*/ 5 12% () *' D .) 1=.') 6+*' ,) *' =18 *-' , 1' 0*, 6 2' ,) *' 6 ,) ; / -1 ? ' -*60 25' =*-2 > 1 ; . ' D119. % 6. *. ' 1 ' ,) *' >6212' /68 ' *. -*> 6// ' ? 6-- 65*' 6 6 -. ' D*/125' , 1' ,) *' *>>/*. 6. ^ , >6/' >1 ; -, . ' 8) /*' ,) 1' > + / -*/6, 12. ' 1 ' ? 6-- 65*' -*7 ? 6 2' ; 20*-' ,) *' A ; - .0 >, 12' 1 ' ,) *' . *>; /6-' A ; 05% () *' D .) 1=.') 6+*' ,) *' - 5) , ' 1 ' *L*-> . 25' ,) *' 0 .> = / 2*' 1 ' ,) *') ; ->) ' 620' 1 '=-1>**0 25' 656 2. ' ? *? D*-. ' 1 ' ,) *') ; ->)' 8 ,)' *>>/*. 6. , >6/' = ; 2 .) ? *2, .% () *' =18 *-' 1 ' ,) *' . , 6, *' . ' =-1 ? . *0' , 1' ,) *' ? 6 2, *262>*' 1 ' ,) *' ? ? ; 2 , ' 1 ' ,) *') ; ->)% () *' *= .>1=6/ . *? 26- *. ' 6-*' ; 20*-' ,) *' A ; - .0 >, 12' 1 ' ,) *' D .) 1=. (6 ') *' ? *=*^ -1-') 6. ' ,) *' - 5) , ' 1 ' 21 ? 26, 25',) *' D .) 1=. ' 6 , *-' , 69P' 25' >1 ; 2. *// 8 ,)' ,) *' 1,) *-' D .) 1=. ' 1 ' ,) *' >>/*. 6. , >6/' =-1+ 2>*% () *' -. , ' 0 52 , ' 6, ' *+*- ' ? *, -1=1/ , 62' 620' 6-*' ; 20*-' ,) *' A ; - .0 >, 12' 1 ' ,) *' D .) 1=. (6 ') *' ? 1^ 26. , >' 1-0*-. ' 6-*' ; 20*-' ,) *' A ; - .0 >, 12' 1 ' ,) *' -' . ; =*^ - 1-. % () *' D .) 1=. ') 6+*' ,) *' - 5) , ' 1 ' 2, -10 ; > 25' 2*8' 1-0*-. ' 6 , *-' >1? 25' =-*+ 1 ; ./ ' , 1' 62' ; 20*-. , 620 25' 8 ,)' ,) *' 51+*-2 ? *2, %) ; ->)' =-1=*-, ' ? 6 ' D*' 6>C % _ ; -*0' 2' ,) *' /*56/ 86 '620' . ' . *>; -*0' , 1' ,) *') ; ->) % 2' *D% Q S ' ' % A& " N(M. *=6-6, *' 6-, ^ >/*. X' , 1' ,) *' >12>1-06, ' 8 *-*' = ; D/ .) *0% () * ' =-1+ 0*') 6, ' ,) *' D .) 1=. ' ? 6 ' 1 ; 20' 12*' ; 2 +*-. , ' 20*=*20^ *2, ' 1 ' ,) *' . , 6, *' 1 ,) 6, ' 12/ ' 1? 62' 6,) 1/ >' =-1 *. . 1-. ' .) 6// D*' 6==1 2, *0' 6, ' ,) *' $2 +*-. , ' 1 ' *. ,) T' ,) 6, ') ; ->) ' 620' , 6, *' 8 // 81-9' , 15*,) *-' 1, ' ,) *' . ; ==-*. ^ . 12' 1 ' D719. ' 656 2. ' -*/ 5 12' 620' ? 1-6/. ' 1 ,) 6, ' ,) *' . , 6, *' .) 6// /6 ' 21' 1D. , 6>/*' 2' ,) *' 86 ' 1 '*-*>, 25' . ; >) ' >12 -6, *-2 , *. ' 620' 6. . 1> 6, 12. ' 6. ' ,) *') ; ->) ') 6. ' 6=^ =-1+*0T 620' ,) 6, ' ,) *' D .) 1=.' .) 6// 21, ' D*') 20*-*0' -1 ? ' -*5 ; /6, 25' 2' -*/ 5 1 ; . ' 2. , , ; , 12. ' *+*- ,) 6, ' >12>*-2. ' -*/ 5 12' 620' ,) *' = ; - , ' 1 ' ,) *') - . , 62' / *% () *' ? ? *2. *' ? 6A1 - , ' OA' ,) *' ; . , - 62' =*1=/*' 8 *-*' 20 5262, ' 6, ' ,) . ' >12>1-06, ' 620' 2' B ; / ' QS ' ,) *' ; . , - 62' 6-/ 6 ? *2, ' D ' 62' 6/? 1 . , ' ; 262 ? 1 ; . ' +1, *' >6// *0' 12' ,) *' 51+*-2 ? *2, ' , 1' 6D1/ .) ' , % S% -" ' 7 " ' ' ; ! ' *, 8 **2' ,) *' 51+^ *-2 ? *2, ' 1 ' ,) *' *,) *-/620. ' 620' ,) *' =1=*' 6' >12>1-06, ' 86. ' >12>/ ; 0*0' 2' QK ' 8) >)' *L, *20*0' , 1' ,) *' 21-,) *-2' =-1+ 2>*. ' ,) *' =-1+ . 12. ' 1 ' ,) *' -*2>)' >12>1-06, ' 1 ' Q ' 8 ,)' ,) *' *L>*=, 12' ,) 6, ' ,) *' D .) 1=. ' 8 *-*' 21, ' , 1' D*' 21 ? 26, *0' ,) *' -1, *. , 62, ' 9 25 ' D ; ' , 1' D*' >) 1. *2' D ' ,) *' >) 6=, *-' -1 ? ' 6' / . , ' 1 ' >620 06, *. ' -1 ? ' 8) >)' ,) *' 51+*-2 ? *2, ') 60' ,) *' - 5) , ' , 1' . , - 9*' 1 ; , ' 6277 26 ? *. ' 21, ' 65-**6D/*' , 1' , % () *' >12>1-06, ' 86. ' 1 > 6// ' = ; D/ .) ^ *0' D ' ,) *' 51+*-2 ? *2, ' D ; , ' ,) *' D ; // 1 ' > ->; ? . >- = , 12' D ' 8) >)' ,) *' =-1+ 2>*. ' 8 *-*' 0 + 0*0' 2, 1' D .) 1=- >. ' 86. ' 21, ' -*>152 . *0' 620' ,) *' >12>1-06, ' 86. ' 2*+*-' >6-C' Y - *0' 1 ; , % 6, *-' ,) *' =6=6/ 51+*-2 ? *2, ' , . *// 0 . -*^ 56-0*0' ,) *' >12>1-06, ' 620' ? 60*' 6' 2*8' 0 + . 12' 1 ' 0 1^ >*. *. ' 8 ,) 1 ; , ' >12>*-, ' 8 ,)' ,) *' 51+*-2 ? *2, %

2' */5 ; ? ' 8) >)' 6, ' ,) 1' , ? *' 1 ' ,) *' = ; D/ >6, 12' 1 ' ,) *' -*2>)' >12>1-06, ' 1 ' Q ' 86. ' 6' =6-, ' 1 ' -62>1 ' ,) 6, ' >12>1-06, ' >12, 2 ; *0' 2' 1->*' 8) /*' ,) *' >1 ; 2, - ' 86. ' 622*L*0' , 1' : 1//620' M Q C Q X% 2' ,) *' 2*8' */5 62' 9 2501 ? ' ,) *') ; ->)' 86. ' . *=6-6, *0' -1 ? ' ,) *' . , , *' 620' ,) ; . ' ,) *' >12>1-06, ' 26, ; -6// ' /1. ' , . ' 6 ; ,) 1-^ , %

$ / ! ' ( ) 1' 0*6' 1 ' *. , 6D/ .) 25' 12*' 26^ , 126/ D .) 1=- >' >1 ; /0' 21, ' D*' >6-- *0' 1 ; , ' 6. ' . 1 ? *' 1 ' ,) *' >62, 12. ' 8 *-*' ; 26D/*' , 1' 65-**' 8 ,)' ,) *' =6=6/ . *'] % 4-60 ; 6// ') ' 65-** ? *2, ' 8 ,)' . 1 ? 1P 1 ' ,) *' >62, 126/ 51+*-2 ? *2, . ' ,) *' *>>/*. 6. , >6/ -*/6, 12. ' 1 ' ,) *' 1 62' 6,) 1/ >. ' 8 *-*' -*5 ; /6, *0 ' 620' . L' D .) 1=- >. ' *. , 6D^ / .) *0%

Q% ! ' 1-' $ ' 6' 2*8' 3%A6(' 1 ' > >; ? . >- = IC

, 12' 86.' . . ; *0' B ; / ' ' Q % 7 % ' >12>/ ; 0*0' 6 ' >12+*2, 12' 8 ,)' ,)*' =1=*' B ; / ' Q Q Q ' 8) >)' 2' ,)*' .6 ?*' *6-' 86.' =-1 ? ; /56,*0' 6.' 6' /68' 1 ' ,)*' >1 ; 2^ ,- ( )*' >12+*2, 12' >12. .,.' 1 ' ,) -, I +*' 6-, >/*. ' 620' */0.' 6// ,)*' >) * '0*?620. ' 1 ',)*' 7 ? 62' >1 ; -, ( ) *' 1?62' 6,)1/ >') ; ->)' .' 0*>/6-*0' ,1' D*' ,)*I' *LP */ ; . +*' -*/ 5 12' 1 ',)*' . ,6,*' ,)*' - 5),' 1 ' 21 ? 26, 25' ,)*' D .)1=.' .' 5 +*2' ,1' ,)*' 9 25' ,)*' - 5),' ,1' 21 ? ^ 26,*' ,)*' ?*?D*-.' 1 ',)*' >)6=,*-.' .'0 + 0*0' 6 ? 125' ,)*' =1=*' 620' ,)*' D .)1=.' 1 ',)*' 0 1>*.* ( )*') ; ->)' -*>P 152 .*.' ,)*G .6/*' 1 ') ; ->)' =-1=*-, ' 8) >)')60' ,69*2' =/6>*' 0 ; - 25' ,)*' -*2>)' - ; /*' 620' ,)*' =-1=*-, ' 21, ' *,' .1/0' .' -*.,1-*0' ,1')*-' .)*' 6/.1' I*>* +*.' ,)*' - 5),' 1 ' 6>_ ; - 25' 2*8' /620*0' =-1=*-, ( )*' A ; - .0 >, 12' 1 ' D .)1=.' .' *2/6-5*0' ,)*' 2 / ; *2>*' 1 ' ,)*') ; ->)' ; =12' = ; D/ >' 2.,-;>, 12' .' 5 ; 6-62,**0' ,)*' 6D1/ , 12' 1-' ; . 12' 1 '*>>/*. 6., >6/ D*2* /**.' 8 ,)1 ; ',)*' >12.*2, 1 ' ,)*' =1=*' .' 0*>/6-*0' 2+6/ 0' ,)*' =-1=*-, ' 1 ' ,)*') ; ->)' .' 0*>/6-*0' 2+ 1/6,* ( )*' >12>1-06,' 8 ,)' - ' 1 'B ; 2*' R Q ' >12' . ..' 1 ' ,**2' 6-, >/*.' ,'=-1+ 0*.' ,)6,',)*' *>>/*. 6.^ ,>6/ 6 ; ,)1- , *. ' 2',)*' *L*-> .*' 1 ',)*' -' 1 >*. ' .)6// 20',)*' =-1,*>, 12' 1 ',)*' .,6,* ( )*' 2,*->1 ; -.*' 1 ' ,)*' D .)1=.' 8 ,)',)* -' 0 1>*.62.' 620',)*' =6=6/ .**' .)6// D*' -** ( )*' .)6// 6/.1')6+*',)*' >*2.1-.) =' 1+*-' -*/ 5 1 ; .' =;/ >6, 12. ' 620',)*' - 5),' 1 '=-*+*2,^ 25',)*' 6 ,) ; / -1?' -*60 25' =*-2 > 1 ; .' D119. ' =- *.,.' 1 *20' 656 2.,' > + / /68.' ,)* ' .)6// D*' 6 ? *26^ D/*' ,1' ,)*' > + / >1 ; -,. 'D ; ' ,)*' = ; 2 .) ? *2.' .)6// 21, D*' 2 / >, *0' 8 ,)1 ; ' ,)*' >12. *2,' 1 ' ,)*' D .)1=.' 620' ' ,' D*' ,)*' =*26/, ' 1 '0*6,) ' 1-' 62 ' =*26/, ' 2+1/+ 25' 2^ 6 ? ' ,)*' =6=6/ .**' .)6// ,69*' >152 [62>*' 1 ',)*' >6.* ( )*' =-1=*-, ' 1 ',)*') ; ->)' .)6// D*' 60 ? 2 .,*-*0' D ' ,)*' D .)1=.' 620',)*' =6- .)'=- *.,. ' 620 ' 2' >6.*' 1 ' +6^ >62> *.' D ' 6' A1 2,' >1 ? ? ,,**' 1 ' =- *.,.' 620' /6 ? *2' ' ,) .' >12>1-06,',)*' *>>/*. 6., >'0' /*5 ./6, 12' 1 ' *1^ =1/0' ' 8) >)' 86.' 2*6-/ ' ,)*' .6 ? *' 6.' ,)6, ' 1 'B1.*=)' ' 2' ; .,- 6 ' 86.' 6D1/ .)*0* ( )*' D*' 60 ? 2 .,*-*0' D ' ,)*' D .)1=.' 620' ,)*' =6- .)'=- *.,. ' 620 ' 2' >6.*' 1 ' +6^ >62> *.' D ' 6' A1 2,' >1 ? ? ,,**' 1 ' =- *.,.' 620' /6 ? *2' ' ,) .' >12>1-06,',)*' *>>/*. 6., >'0' /*5 ./6, 12' 1 ' *1^ =1/0' ' 8) >)' 86.' 2*6-/ ' ,)*' .6 ? *' 6.' ,)6, ' 1 'B1.*=)' ' 2' ; .,- 6 ' 86.' 6D1/ .)*0* ( )*' >12>, A-06, ' 86.' .112' 1//18*0' D ' .1 ?*' 1-562 >' 2,*-=-*,6, 12. ' D ' 8) >)',)*' .,6,*' 8 ,)',)*' 12.*2,' 1 ',)*' =6=6/ .**' 5 ; 6-0*0' .1 ?*' 1 ' ,.' 1-? *-' - 5),.' ( )*' =-1+ . 126/ 51+*-2 ? *2,' 1 ' (; .>62 ' 2' Q R' 0*>/6-*0' ,) .' >12>1-06,' 6D1/ .)*0' ' ,)*' 6D.1-=, 12' 1 ' 6=/*.' 620' (; .>62 ' 2,1' ,)*' 9 2501 ?' 1 ' ,6/ ' ,)* - ' .=*> 6/ >12>1-06,.' >*6.*0% R' 5 +' % ' 1-' ,)*' 1?62' 6,)1/ >') ; ->)' 1 ' ; .. 6' 6' >12>1-06,' 86.' >12>/ ; 0*0' D ' ,)*' *?=*-1-' >)1/6.' ; 5' Q ' ,' 5 ; 6-62, **.' ,1' ,)*' 1?62' 6,)1/ >.' 1 ' ; .. 6' ,)*' -**' *L*-> .*' 1 ' ,)*' -' -*/ 5 12' 620' =*-? ,.' ,)*' *.,6D/ .) ?*2,' 1 '6' 2*8' D .)^ 1=- >'6,')*-.12' 1-' *..6-6D 6' (6 ; - .' 620',)*' 6 ; ^ >6.. ; .' ( )*' 51+*-2 ? *2,' >)6-5*0' ,..*/ '8 ,)' ?6 2,6 2^ 25',)*' D .)1=') .' >)6=,*-' 620' ,.* ? 26- ' ,'6/.1' >12,6 2*0' =-1+ . 12.' 12' ,)*' */*>, 12.' 1 ' D .)1=.' 21, ' *,' 1 > 6// ' =; D/ .)*0% ' >12>1-06,' 8 ,)' $% ' >12. ., 25' 1 ' 1-, C +*' 6-, >/*. ' 86.' >12>/ ; 0*0' < 6->)' S Q ' >>1-0 25',1' ,' ,)*' 1?62' 6,)1/ >'-*/ 5 12' .',1',)*' *L>/ ; . 12' 1 ' *+*- '1,)*-' -*/ 5 1 ; .' 81-.) = ',)*' 12/ ' -*/ 5 12' 1 ',)* ,' =62 .)' =*1=/*' ; D/ >' 2.,-;>, 12' 2' 6// 2. , ,; , 12.' .',1' D*' ?=6-,*0' 2' 6>>1-062>*' 8 ,)',)*' 1?62' 6,)^ 1/ >'01>,- 2*' 620' =/6>*0' 2',) .' -*.=*>,' ;20*-',)*' >12^ ,-1/ 1 ',)*' D .)1=.' ( )*' 51+*-2 ? *2,' >)6-5*0' ,..*/ '8 ,)' ?6 2,6 2^ *0' ( )*' >12 .>6,*0') ; ->)' =-1=*-, ' 8) >)' 86.' 21, ' *,' .1/0' 6,',)*' , ?*' 1 ',)*' >12>/ ; . 12' 1 ',)*' >12>1-06, ' 86.' ,1' D*' -*.,1-*0' ,1' ,)*') ; ->)' 620' ,1' D*' 60 ? 2 .^ ,*-*0' D ' ,)*' >/*-5 ' (/ *' =1=*' 12' ,)*' 1.,)*-')60 ? 2 .*' =-1 ? .*0' ,1' /*6+*' ,)*' 1-?*-' D ; *-.' 1 ') ; ->)' =-1=^ *-, ' 2' ,)*' ; 20 .,; -D*0' =1..*.. 12' ,)*-*1 ' 2*8' >12>1-06, ' ./ 5),/ ' ?10 25' ,)*' =-*>*0 25 ' C86.' >12^ >/ ; 0*0' 2' Q 7620'-6, *0' D ' ,)*' 1-,; 5 ; *.*' *5 ./6^ ,; -*' 2' Q R ' 6/2A7/' ; 262 ?1 ; ./ ' D ' ,)*')6?D*-' 1 **-.' D ; ,'12/ 'D '6' ?6A1 - , '1 ' ,**2'MSS'+1,*.' 656 2.,' X' 2',)*')6?D*-' 1 ' *=; , *.' ( ) .' >12>1-06, ' >12^ >*-2.' 12/ ' ,)*' =-*.*2, ' 620' 1?*-' 1-, ; 5 ; *.*' =1..*.^ . 12.' 2' 20 6' ,' =/6>*.' 656 2' 2*6-/ ' ,)*' 8)1/*' 1 ' - , .)' 20 6' ; 20*-',)*' A ; - .0 >, 12' 1 ' D .)1=.' 6==1 2,^ *0' D ' ,)*' 1-, ; 5 ; *.*' 51+*-2 ? *2,' *-*- U (F+*-667' + ' .'+' : *-[15' 5 26 - ' C CQ ' & *,' [*-' ; & */,*') "!= ' ' S CQ ' ,)*' < 62 ; 6/.' 1 ') ; ->)' 68' I1) " " 8 D ' >),*-' 620' & 6/,*-' < ; 2>)' N !$ ' ' ' ' ' M * =[QN ' K' +1/.%X' 5 ' ' ' ' < 6 ' QS ' *=,' S' QS 12>; D 265* ' ,)*' .*L ; 6/ >122*>, 12' 1 ', 81' =*-^ .12.' 1 ' 0 *-*2, ' .*L*.' 8)1' 6-*' 21, ' ; 2 , *0' D ' ,)*' D120' 1 ' ?6, - ?12 L, *-26// ' ?6-- 65*' 620' >12>; D 265*' I' 8*-*' * _ ; 6/ 6>>1-0 25', 1' 1?62' /68' 6.' *7*2' 1-' ?6-^ - 65*' 21,) 25' 86.' -*_ ; -*0' D ; ' ,)*' 65-*** ?*2, ' 1 ',)*' >12, -6>, 25' =6-, *.' ; ,' ,)* ' 8*-*' 0 *-*2, ' 8 ,)' -*^ 56-0' ,1' ,)*' /*56/ * *>, ' 1 ',)*' ; 2 12' 2' 6' -*5 ; /6-' ?6-- 65*' ,)*' 8 *' 1D,6 2*0' ,)*' -629' 1 ',)*') ; .D620' I ' 8 '620')*-' >) /0-*2' 8*-*' /*5 , ?6, *' 620' 2',)*' =18*-' 1 ',)*' 6,)*-' 12*' 1 ',)*.*' -*. ; /, .' ,119' =/6>*' 2' >6.*' 1 ' >12>; D 265*' ( )*') ; ->)' 0 ., 2^ 5 ; ,)*0' D*, 8**2' , *?=1-6- '620' / *C/125' >12>; D 265*' ( )*' 1-?*-' 86.' 6/86 .' 1-D 00*2' ,)*' /6, ,*-',)1 ; 5)' 21, '6==-1+*0' 86.' /125', 1/*-6, *0' ( )* 1 ; 2>/ 1 ' (1^ /*01' M % X ' D ' ,.' 6212' ' *L>1?2 ; 2 >6, *.' 6' ?6-- *0' ?62' 9**= 25' 6' >12>; D 2*' D ; ,' =*-? ,.' ; 2?6-^ - *0' ?*2, 1' 01' .1' 620' 6//18.' * ,)*-' 6' 8 *' 1' 6' >12>; ^ D 2*' 2' ,)*' 6, 2') ; ->)' ' ,' 86.' 21, ' ; 2, / ',)*' 1 ; 2^ > / 1 ' (-*2, ' 8) >)' ?60*' ,)*' +6/ 0 , ' 1 ' 6' ?6-- 65*' 0*=*20*2, ' ; =12' 6' 0*>/6-6, 12' 1 ' >12.*2, ' D* 1-*' ,)*' =6- .)' =- *.,' 620', 81' 8 ,2*..*. ' ,)6, ' / *C/125' >12>; ^ D 265*' 86.' 0*>/6-*0' ,1' D*' >- ? 26/ ' 620' .; DA*>, *0' ,1' = ; 2 .) ? *2, ( )*' = ; 2 .) ? *2, ' 1-' ? 2 ..*- 6/ >*?C ' 86.' 8 ,))1/0 25' 1 ' 2>1?*' .; .=*2. 12' ?^ =- .12?*2, ' 620' ; /, ?6, */ ' *L>1?2 ; 2 >6, 12 ( )*' *+625*/ >6/ >) ; ->)' *.')6+*' 2*+*-' -*>152 .*0' >12>; D ^ 265*% ' : *-[15' 5 26 + %!' T *6' $ 1' ' '>)6=L **' $! 12>; D 2*C' % ("' 0*- + ; 2>*-, 6 2 D ; ,' 6==6-*2, / ' >122*>, *0' 8 ,)',)*' 4- -6df6 ' \ ; // ' 2',)*' =/ ; - K' 6?L+' 4T LL ' NhT)6/0 <A2 ' " "(' 62 + ' K ' N' KNX' 0*21, *.' ' ,)*' D/*' 21, ' 6' =6-6?1 ; -' M4- -) 8 ' D ; ' 12/ ' 6' *?6/*' >12A ; 56// ' ; 2 , *0' ,1' 6' ?62' 2' 6' -*/6, 12' 2 *^ - 1-' ,1' ,) 6, ' 1 ',)*' -*5 ; /6-' 8 *' M ? T X **' " !' ( )*' =1. , 12.' 1 ',)*. *' ,81' 6?125',)*' *6-/ ' B*8 . ' >62^ 21, ' D*' -* *--*0' ,1' ,)*' ..6206-0' 1 ' 1 ; -' 182' 65*' 620' >1 ; 2, - T ,)6, ' 1 ' >12>; D 2*' D* 25' /*. ' 0*5-60*0 ' 6. ' ,)6, ' 1 ' 8 *' 86. ' *. =*> 6/) ' 1+- 25', 1',)*' .62>, 12' 1 ' =1/ 56 ? '/*. ')121-6D/*',)62' 6 ? 125' 1 ; -. */+/*. ( )*' 26, ; -6/ 0*. -*' 1 '1 .=- 25' 86. ' 2',)*' B*8 ' >12. *>-6, *0' 2, 1' 6' -*/ 5 1 ; .')1=*' 8) >)' , *20*0', 1' -*0**?' >12>; ^ D 265*' -1?' ,)*' 0*D6. *?*2, ' 2, 1' 8) >)' ,)*' =-1>*. . ' 626/1^ 51 ; . ', 1' 601=, 12' ? 5), ')6+*' D-1 ; 5), ' ( )*' 8)1/*' _ ; *. , 12' ? ; , ' D*' + *8*0' -1?' ,)*' =1 2, ' 8) >)' ,1 ; >)*. ' ,)*' 2, *-*. , ' 1 ' =-1=656, 12' 2' + -. ; *' 1 ' &) >)' *+*2' 6' ./6+*' >12>; D 2*' 8)1')60' ?62 ' >) /0-*2' 81 ; /0' D*>1?*' 6' ?1. , ' ?=1-,62, =*-.12' 2' 6' 6?) ' *.=*> 6//A' 8)*-*' 6' 8 *' 86. ' D6--*2' ; >)' 86. ' ,)*' ,- ; *' .1 ; ->*' 1 ' ,)*' >12>; D 265*' 1 ' 6)1-' D-6)6?' 620' B6>1D' 8) >)' 20**0' 2' ,)*' , 81' /6, ,*-' >6.*. ' /1. , ' ,)*' 26, ; -*' 8) >)' , ') 6. ' 2' 1 ; -' * *. ') >1*-.' 626/1^ 51 ; . ', 1' 601=, 12' D ' 8) >)' ,)*' 1 .=- 25' 86. ' -*56-0*0' 6. ' ,)6, ' 1 ',)*' 8 *')*-.*/ ' -1?' 6// ,) .' , ' 1//18.' ,)6, ' .6+*' 2' .1' 6-'6. ' ,)*' /6, ,*-' 86. ' 5*2*-6/GE' 6' ./6+*' ,)*' 0 *-*2>*' D*, 8**2' 8 *' 620' 12>; D 2*' 86. ' /*. ; ' ?6-9*0' 18 25', 1',)*' 6D.*2>*' 1 ' ?1-6/ ., 5?6 ' ,)62' 6?125' ; .' &*' ? ; ., ' ,)*-* 1-*' D*86-*' 1 ' -*56-0 25' 6. ' *. .*2, 6/, 1',)*' -*/6, 12' 1 '>12>; D 265*' 8)6, ' -*6// ' =*-, 6 2*0', 1',)6, ' 1 'D12065*% ( )*' >12>; D 2*. ' >120 , 12' 86. ' 6' 0* 2 ,*' 12*' 620' _ ; ,*' 20*=*20*2, ' 1 ',)*' 6>, ' 1 ',)*-*' D* 25' 621,)*-' 81?62')6+ 25',)*' - 5), .' 1 ' 8 *' , 186-0. ',)*' .6?*

LEQ

/ D*-, ' ,1' ?6-2 ' 6.' ?62E ' 8 +*.' 6.') *' =/*6.*0 ( )*' *?=*-1-' 6/*2, 2 62 ' 1>-6,*.' ,*//.' ; .' 6//18*0' +*-' ?62' ,81 12>;D 265*' .' 6/.1' ; .*0' ,1' . 52 '6' ?6-7' - 65*' 8 ,)' 6' 81?62' 1 ' 2 *- 1-' >120 , 12 ' ,1' 8)1?' ,)*') ; .D620' 01*.' 21,' >12+* ') .' -629 ' 6AM7 M 6-6, //6 1D.*-+*.' ,)6,' ,)*' 62> *2,' /68 .' 6//18*0' 6' ?62' ,0' *.^ =1 ; .*' ;20*-' ,)*' , ,/*' 1 ' >12>;D 2*' >*-,6 2' =*-.12.' 8)1' 8*-*' *.,**?*0' ;2*_;6/ ,1') ?' 12' 6>>1;2,' 1 ' ,)*' 862,' 1 ' .1?*' _;6/ , *.' -* ; . ,*' ,1' .;.,6 2' ,)*' ;//)121-' 1 ' ?6-- 65*' 620')*' 600.' ,)6,' ,)1;5)' .;>)' >12^ >;D 265*' D*2*6,)' ?6-- 65*' D1,)' 6.' ,1' 0 52 , '620' 3> + / - 5),.. ' *,' 86.' >12>;D 2*' 6' -*=;,6D/*' , ,/*' 620' +*- ' 0 *-*2,' -1?' ,)6,' 1 ' ? .,-*.. J' 6?125' ;\ ( )*' >122*>, 12' 86.' >12. 0*-*0' .1' /68 ;/ ,)6,' ,)*' >12^ >;D 2*' ? 5),' D*' 6>>;,*0' 1 '60;/,*- ' 2',)*' .6?*' ?62^ 2*-' 6.' 6' 8 *' M.**' ? ,) .' ' ' ' !& 4!' .' +*' 12>;D 26X%

( ) .' 9 20' 1 '>12>;D 265*' .' .,/ 2' ;.*' 2' .1?*' >1;2^ ,- *.' =6-, >;/6-/ ' 2' 4*-?62 ' ;20*-',)*' ,/*' " = " ' M)6/ C?6-- 65*X'/* ,C)620' 1-' ?1-5626, >' ?6-- 65*' 2' 6//;. 12',1',)*' ?622*-' 1 ' ,'D* 25' >12,-6>,*0' 26?*/ ' D ',)*' ?62' 5 + 25',)*' 81?62') .' /* ,')620' 2.,*60' 1 ' ,)*' - 5),' ( ) .' .' 6' -*6/ ?6-- 65*' ,)1;5)' 8 ,)1;,' ,)*' ;.;6/ .1/*?2 , ' 620' ,)*' =6-, *.' 6-*' D1,)' D1;20' ,1' *6>)' 1,)*-' 1-*+*-7',)1;5)',)*' *?6/*' >6221,' D*6-' ,)*') ; .D620 .' 26?*' 620' , /*% ' ,,1' .' + %' ? ,)' .' +H ** ' M $!

12>;= .>*2>*' M 6,' % 81' *+ / 0*. -*' ID - g G 1' 1?' + ' QT' - , '))*1 1/' ' XT' 5*2*-6// ' ;.*0' 2' ,)*' .*2.*' 1 ' 208*// 25' .2' ()*' ,*-?' .' *.=*> 6// ' ;.*0' 2' 1?62' 6,)1/>',)*1/15 ' 1-' ,.' ?=1-,',)*-*' 620!',)*' >12,-1+*-. ' >12>*-2 25' ,' .**' !

120*-' (' D1-2' 2' 12012' ,)' *=,*?D*-' QR' 86.',)*' .12' 1 '6' D119.*//*-' 620' +*- ' *6-/ '0 .^ =/6 *0' 6',6.,*' 1-' / ,*-6,;-' 2' Q ' D* 25' 6,',)*' , ?*' 6' D119.*//*-')*' =;->)6.*0',)*' 6 '5 1' 1 ' 8)>)')1' >12, 2,*0' ,1' D*' *0 ,1-' ;2, / QN ' $20*-') .' ?62656-6*,,',)*' 6 '5 '-*>*+*0',)*' 6.^ . .,62>*' 1 ' ?62 ' *? 2*2,' ?*2' 6?125',)*' 12>12^ 1-? .,., ' .;>)' 6.' 1D*-,' :6//' B1)2' 1.,*-' -' #)6/C ?*-.' -% 6;5)62' 620' 1,)*-.' 2' Q Q')*' =;D/ .)*0' 6',-*6, .*' , ' 7 ' M 120' K' +1/.' Q+1X' 2' QK ' -" ' $ ' ' " ' 6 1' 6' =1*?' 620' 2' 2' QN ' 6%2*8',-62./6, 12' 1 ',)*' 6% ' ' " ' # 1' "' 7 ! 2' QN4')*' *0 ,*0' -" ' ! ' - =" "' ..;*0' ;20*-',)*' .62>, 12' 1 ',)*' 125-*^ 56, 126/ $2 12' *. 0*.',)*.*')*' ..;*0' & ' & 9 ' N ' ' ' 5 ' M QNQ' Q+1X' 6 % ' " '&% "'*% ' MQ+1X' ' # ' '7!' -!' M Q ' Q+1X' : .' 81-9.' 6-' >)* / ' >1?= /6, 12.' D ;,' 6-*' >6-* ;// '*L*>;,*0' 620' 8*// 606=,*0',1' =1=;/6-' ;.*' : *' 0 *0' *>*K Q %

120*.>*2. 12' 6' ,*-?' D1,)' *6-/ *-' 620' ?1-*' >1--*>,' 1-' ,)*' ?10*-2',)*1-' 1 ' ,)*' L ' M_' %X' 1 ' >- =,;-*' 8*')6+*',)*-* 1-*' -*.*-+*0' 1-' ,) .'=/6>*' .1?*' -*?6-9.' ;==/*?*2,6- ',1',)*' 6-,^ >/*' ;20*-',)6,')*60' ()*' 5*2*-6/ 0*6' *L=-*..*0' D ',)*',*-?' >>1?? 106, 12' .',)6,' .1?*' 1DA*>,' .'=-*.*2,^ *0' 21,' 2' ,.' 6D.1/;,*' -*6/ ,' 6.' ,' .' 2' ,.*/ 'D;,' ;20*-' .1?*' ?10 /*6, 12' 1-' ;20*-' .1?*' -*/6, +*' 6.=*>,' .1' 6.' ,)*' 2 ,,>-',1' .*>;-*' .1?*' *20' 6,' 8)>)',)*' &(,>' 1-' .=*69*-' 6 ?.' ,) .' /*60 25' >12>*=, 12' ,)*-*' 6-*' .*+*-% / 1-?.' 92182' 6?125' D/ >6/ .>)1/6-.' ;20*-' / *, ,/*.' ' '620' '6>>1? 106, 12' ()*' 1//18 25' .' 6' .1?*8)6,' ;//*-' 626/ . .% ' 5 % ' ( ) .',69*.'=/6>*' 8)*2' 6'=*-.12' .' .*,' 1-,*2 1->*' 2' 6//,)*' .6>-*0' D119.',)*-*' 6-*' 2.,62>*.' 'D* 25' 1-' 6.' 6>, 25' ;20*-' .1?*' ?10 *0' >)6-6>,*-' 6>>1?106,*0',1',)*' >6=6>, ' 1-' >12>*+ 25') ?' 1-',)*' 2>/ 26, 12',1' -*>*+*') ?' 1',)1.*' ,1' 8)1?',)*' -*=-*.*2,6, 12' .' 600-*..*0' ( ) ; .' 410' .' -*_;*2,/' 2' >-=,;-*' 0*.>-D*0' 62,)-1=1?1 X)>6// '1-' 62,)-1C' =1=6,)>6/ ' ' *' 21,' 6.')*' .' 2') ?.*/ 'D;'-*/6, +*^ / ',1') ; ?62' ?10*.' 1 ',)1;5),' 620' 6==-*)*2. 12' **' ' / W/' \$!' '6/.1',)*' 6=1../*' 0*.>-D*.') ?.*/ '6.' D>>1? A 5' 6//',)25.' ,1' 6//' ?*2',)6,' D '6// ?*62.' D*' ?5),' .6+*' .1)*1' *' */ *' 6>>1? ?106,*6') ?./',1' ?*2.')6D,..' ;.65*.1' 620' ?10*.' 1 ',)1;5),' 620' +*+*2' =-*A;0>*.' 2' 1-0*-' ,)6,')*' ? 5),' 0 .6-?' ,)*' -' 1==1., 12' 620' .*>;-*' 6' 6+1-6D/*1' -*>*=, 12' 1-' ,)*' 51.=*/1' .6/+6, 12' 8)>)')*' =-*6>)*0' (" .' .=*^ >*.' '6>>1? ?106, 12' .' 8)6,',)*')-.,62' 6,)*-.' ;.,6// ')6+*' 2' + *8' ;20*-',)*',*-?.') 1-' 1 1-' 62Y') % ' 1-' 1 ! ()*' 6==/',)*.*',*-?.' 6/.1',1',)*' 2>6-26, 12' 620' ..6,*' 1');?/6, 12' 1')-.,')>)',)*' .' -*56-0*0' 6.' 62' 6>^ >1?? 106, 12' ,1',)*' 2*>*.., *.' 1' ?62.' >6.*' 1-')D' -*0*?=, 12' M **' ;>*-' -" ' 6 !' +' =') * ' 620'),N % .')6=?62.' ' - ' ' & 24 1' 12012' K%X (1',).')*60' ?6' D*-* *--*0' ?62' 1 ',)*' .?D1/>6/6>, 12.' 1 ',)*' =-1=)*, + N ! ' ( ) .',69*.' =/6>*' 8)*2' 6'=6..65*' 1-' *L^ =-*.. 12' ;.*0' D' 12*' 8-,*-' .' >,*0' D' 621,)*-' 620' 6==/*0' 8,)'.1?*' ?10 /*6, 12' 1',)*' ?*62 25',1'.1?*^ ,)25' 0 *-*2,' -1?',)6,',1' 8)>)' ,' 86.' 1-5 26//A7 6==/*0' ;>)' 6>>1?? 106, 12.' 6-*' >1?? 12' 2' 6//' /625;65*.' & -,*-.' 620' .=*69*-.' /6 ')1/0' 1',)*' ;.^ ,*-62>*.' 1 '1,)*-.' 1-' ,)*' .69*' 1 '5 + 25',1',)*-' 18 2 0*6.' 6' ?1-*' 5-6>* ;/ 620' 6' ?1-*' 1-> D/*' >/1,) 25' ,)62',)*' **/,)*?.*/+*.'6D/*',1'5 +*',)*?'1-' 1-',)*' =;-=1.*' 1 '=-1>;-25' 1-',)*?'6>>*=,62>*')' ;,,*- 25' ,)*?' 2' 81-0.' 8)>)' .1?*' 5-*6,' 8-,*-')6.' 6/-*60 ' ?60*' 6? /6-' 620' =-*>1;.' ,1' ,)*' 5*2*-6/ ? 20' 1?*, ?*.',) .' .'012*' 6/?1.,';2>12.>1;. ' &)*-^ *+*- J' .6 .' < >)6*/.' 6' D119' .' ,)*' 1DA*>,'1' 1;-' 06 / '-*60 25' 620' .,;0 ' ,'>6221,' D*' 1,)*-8 .*' ,)62' ,)6,'=6..65*.' 1 ' ,'.)1;/0' -*_;*2,/ ' /18' 2,1' 1;-'=*2' 2' 8-, 25' .1?*, ?*.' 6>>1?=62*0' 8,)' 6'>12.>1;.' -*>1//*>, 12' 1 ',)*' =/6>*' 8)*-*' 8*')6+*' -*60',)*?' 6,' 1,)*-', ?*.' 8 ,)1;,'1;-'=1..*.. 25' 62' .;>)'>12.>1;.^ 2*..' ( ) ;.',)*' /68 *-' .=*69.' 8 ,)',)*' % '* ' 620',)*' /68..',)*' .>)1/6-' 8 ,)',)*' =-*6>)*-' 8 ,)',)*' D/*' 1I16 ' KKNX' ;-' 182' / ,*-6,;-*' .' ;// 1 '*L*?=/ >6, 12.' 1 ',) .' 5.' .' ,11' 8*// 92182' ,1' 2**0' //;.,-6, +*' =-11 2C,)*' 8-, 25.' 1 ' 6;/ 8*' 20')?' ?69 25';.*' 2',) .' 86 ' 1 '=6..65*.' -1?',)*' >/6..>.' M >,.' L+ ' RT' 1-' d 'N T' (, ' KX' 6// 1' 8)>)' 6-*' 1 '>1;-.*'6==/ *0' D ')?',1')-.,62' .;DA*>,.' 12/ 'D '6>>1??106, 12' & *' 2**0' 21,' D*' .;-=-.*0',)*2',1' 20',)*' /6,*-' D^ / >6/ 8-,*-.' _;1, 25' 2',) .' 876 ' -1?',)*' *6-/ *-' *.^ =*> 6// ',)*' %C(' 8-,*-.' -1?',)*' 5-*6,' >/6..>' 1 ',/ * -' 26, 12',)*' % ' % %% ' 1 ',)*' 1-?*-' 0 .=*2^ .6, 12' .' 2.,62>*.' ?6 ' D*' 600;>*0' 1?' L' Q -1?' .6' L L ' 620' 1?' L ' K ' -1?' -1+' LL+ ' K ' KK' **' 6/.1' <6,,' ' ' Q' 80,)' 6/+ 2.' 21,*.' ,)*-*12' ()*' / 6+*' 012*',) . J' .6 .' < >)6*/.' 2' ?62 '=/6>*.' 8)*-*',' .' 21,'=*->* +*0' D ',)*' 5*2^ *-6/ ,' 1 ' -*60*-.' 1 ',)*' *=,;65 2,%J N' 5" ! ' ( ) .',69*.' =/6>*' 8)*2',-;,)' .'=-*^ .*2,*0' 21,' 2' 6' 0 -*>,' 620' /,*-6/ 1-?' D;,' ,)-1;5)' ,)*' ?*0 ;?' 1 '. ?D1/' 5;-*' 1-' 6=1/15;*' ( );. ' 2' ,)*' =-1=)*, >6/ 8-, 25.' 1 ' >-=,;-*' 87*')6+*' /62^ 5;65*' ;.*0' 8)>)' >6221,' D*' 2,*-=-*,*0' /,*-6// 'D;,' 8)>)' ,69*2' . ?D1/>6// '>12+* .' 6' IA;Q,' .,6,*?*2,' 1' ?=1-,62,',-;,)' *' 5' -6>, 25' -1?',)*' .= - ,;6/' 1-' ?1-6/' 1-'=-6>, >6/ /*..12' ,' .' 0*. 52*0',1' 2 1->*' 2' 6//,)*' .6>-*0' D119.',)*-*' 6-*' 2..62>*.' >12.,62,/ ' 1>>;-- 25' 1 ' 81-0.' 620' .,6,*?*2,.' 8)>)' 6-*' 0*. 52*0',1' >12+* ' >20*-',)*' +*)>/*' 1 ' 5;-*' 6' ,-;,)' 626/151;.' ,1' D;,' 21,' -*6// ' 8)6,',)*' / ,*-6// ' *L=-*..' M **' 21D*/' %" ' 1' g N ' CNNT' ? ,)' $ ' N ' 6 % ' ' " ' ' '" 1' %" 1' -*/' D..=' CKKT' 4/6.. ;.' " !' $!' +' =' S4R ._' *O' T 18,)' ' ' $!' ' !' =' /1> T 6+ 0.12' $ (' # 1' >)' LX

5-*,,*0' ,) 6,' 21' ?6,*- 6/.' 6-*' /* ,' 1-' 6' ?1-*' .6, . 6>I' 7-E ' 21, >*' 1 ',) .' +*2*-6,*0' ?62%

120 56 , ' .' 125-; , ' I ' ' ,'
' 620' ' 81' II,*-.?.' ; .*0' D ',) *' .>)11/?*2' ,1' *L=-*. .' ,) * -' =*>; / 6-' 1= 2 12.' -*/6, +*' ,1') ; ?62' ?*- ,'620'0*.*-+ 25% ( ) *' >1, ..,' ?6 2,6 2',) 6,' , ' .' =1.. D/*' 1-' ?62' 2') .' 26, ; -6/ ..,6,*' .1' ,1' / +*' 6.' ,1' ' / *' 5-6>*' 1 ' 410' D ' 8) >)') *' ?6 ' D*' *26D/*0' ,1' 1D,6 2' .6/+6, 12' ,) .' 26, ; -6/ I 8' 1-' 5-6>*' D*D 5' . ; >)' 6.' ,1' 1D/ 5*' ,) *' * , ' ,1' 5-62,' ,% ; >)' .' ,) *' ' ' ' ! ( )*' ( )1? .,. ' 12' ,) *' 7 1,) *-') 620' >12,*20' ,) 6,' ?62' D ' ,) *' 0 + 2*' 6.. . ,^ 62>*' .' >6=6D/*' 1 ' .1' / + 25' 6.' ,1' '*,*-26/ / *' ,'1' D*' " '> 8' 1 ' ,' 2%,) *' . 5),'1 ' 410% 2',) . ') =1,) *. . ' ,) *' _ ; *. , 12' 1 '=-*+ 1 ; .' =-*=6-6, 12' 1-' ,) *' 5-6>*' 8) >)' *26D/*.') ?',1' D*' " ' .'21,' 2,-10 ; >*0% ( ) .' .' ,) *' ' ' ((( )*' N,)' 6-, >/*' 1 ' ,) *') ; ->) ' 1 ' 25/620' .' 0 -*>,*0' 656 2.,' ,) *.*' 1= 2^ 12. ' 620' ?6 2,6 2.' ,) 6,' ,) *' 5-6>*' 1 ') - .,' 620' ,) *' 2.= -6, 12' 1 ') .' = - ,' >62' 6/12*' =-10 ; >*' ,) *' ,2*. ,' -*_ ; -*0' 2') - ., 62.' 620' ,) 6,' .1' 6-' 6-*' 62 ' 81-9.' 21' .=- 25 25' 1 ' 6 ,)' 2') - .,' -1?' D* 25' =/*6. 25' ,1' 410' ,) 6,' ,) * ') 6+*' ,) *' 26, ; -*' 1 '. 2% ' : 119 ' 6 ' 1' .% +%

120 , 126/% ,- >,' 6/+ - .,.' ?6 2,6 2',) 6/' ,) *' 0*>-**.' 1 ' 410' 8 ,) '-*56-0', 1',) *' .6/+6, 12' 1-' 06? 26^ , 12' 1 ' 20 + 0 ; 6/' ?*2' 6-*' .' -? 2 62. ' ,) 6, ' ,) * ' 6-*' ! ( )*' */65 62' 01>,- 2*' .' ,) 6, ' 410 .' 8 //' , 1' 5-62,' 5-6>*', 1' ?*2' .' 6/86 .' >120 , 12*0' 12' ,) * -' .1' ; . 25' ,) * -' ' =18* ' 6.' , 1' ?*- ' ,) 6, ' 5-6>*% (1' .6 ' ,) 6,' 410' 0*>-**.' , 1' .6+*' 6// ?*2' ' ,) * ' 8 //' % *% ' ,) * ' 8 ,) 1 ; ' 5-6>*' 6-*' 8 // 25' , 1' 1D*' 410' .' */65 62' , 1' .6 ' ,) 6,' 410' 8 //.' , 1' .6+*' 6// ?*2' ' ,) * ' 8 //' ; .*' ,) *' =-*+*2 ', 5-6>*' 5 +*2', 1' ,) *?' 8) >)' ,) * ' 6->' /* , ' 6,' / D*-, ' , 1' -*. . , ' .' -C' ? 2 62% **' 'I' & !

120 //6>' > ' 8 ' ' $ # ' 12*' 1 ' ,) *' >) * ' -*2>)' =) /1.1=)*-.' 1 ' ,) *' Q,) ' >*2, ; - ' D-1,) *-' _ ',) *' 6DD*' <6D/ ' 86.' D1-2' 6,' 4-*21D/*' 2' % ',) *' 65*' 1 ',) -, ') *' = ; D/ .) *0') .' -. ,' ?^ =1-,62,' 81-9' 6 'V 'N ' ' ' ' 0C 'M ?.,*-06?' S IK+1 (.%T 25%,-62./% D ' ( )% ; 5*2, ' SX' D ' 8) >)') *' /6-5*/ ' >12,- D ; , *0', 1',) *' .=-*60 25' 1 ',) *' + *8.' 1 ' 1>9*% 2' -62>*' 620', 1',) * -' 6-,) *-' 0*+*/1= ?*2, % ( ) .' D119' .' 6' 26, ; -6/') .,1- ' 1 ') ; ?62' >152 , 12' ,) *' 1 ; 206, 12' 1 ' 8) >)' .' 1 ; 20' D ' 120 //6>' 2' ,) *' .*2. ; 1 ; .' ?=-*.. 12.' 620' ,) * -' ,-62. 1-?6, 12.% (1'-* ; , *',) 7' ?*,6=) . >6/' . ,' * ?. ' 8) >)' 01' 21,' =-1>**0' -1?' *L=*- *2>*') *' 8-1,*') .' - ' '$ ' M ?.,*-06?' R' K+1/.%X% : ' + *8.' 12' ,) *' 1- 5 2' 1 ') ; ?62' >152 , 12' 8*-*' ?1-*' ;// ' 0*+*/1=*0' 2') .' - ' '$ ' M ?.,*-^ 06?' 'K +1/.%X% .') *' 86.' >)6-5*0' 8 ,) ')6+ 25' =/65 6- [*0' -1?' 0*-1,' 620' ; 12') *' 8-1,*' 1-') ' 0*+2.*' - ' '& ' M ?..*-06?' X% ' 6// ,) *.*' 8 -, 25.' 120 //6>' D*>6?*' 12*' 1 ',) *' >) * ' -*=-*.*2,6, +*.' 1 ' *2.; 6/ . ?' 6/,) 1 ; 5) ') *' .,**-*0' >/*6-' 1 ',) *' 79/6,*- 6/ .?' 1 ') .' 65*% : .' 9218/*05*') 60' =-1>; -*0' 1-' < ?' 6,' 62' *6-/ ' 65*' ,) *' =1. , 12' 1 ' , ; , 1-' 1 ',) *' 2 62,*' 1 ' 6-?6 ' 6' 2*=) *8' 1 ' 1; .' d % : *' 8 1,*' 1-') ?' 6' ' (# ' M 6-?6 ' ' N' +1/.%X' 8) >)' >12,6 2.' 6' 5-6?>?6-' 62' & ' (1' 62' & ' ' ! ' '& ' % 1' 620' 6' ; 2 +*-.6/) .^ ,1- ' 2' SQ') *' 86.' ?60*' 6' ?*?D*-' 1 ',) *' -*2>)' >606? % ; - 25',) *' /6, ,*-' =6-', 1 ') ./ ' *') 1' / +*0' +*- '-*, -*0' 620' 0 *0' ; 5 ; . , ' N Q % : .' >1?=/*, *' 81-9.') 6+*' 6==*6-*0' 2' .*+*-6/*0 , 12.' I 6 ' 1' %N 1' 6- .' RQ' KN' +1/.%T Q N' NK' +1/.%T QK ' S +1/.%X% ' M -1>9)6 ; .X ! ' ! ' + %T & *, [*-' ; %' >/,1 ') " 1 ' ' S %

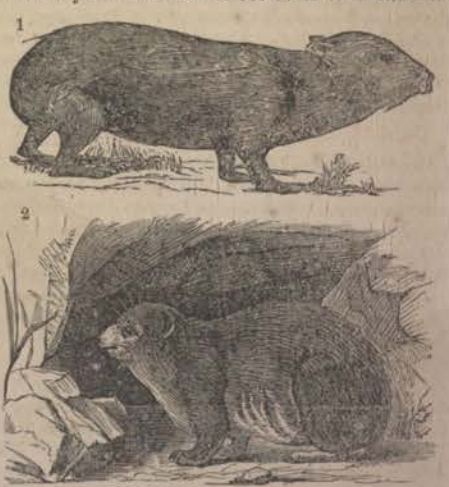
120 ; ,' ' \ -127 U "' ,1' 6.C 1 ' 4*.*2 ; .' -" ' "! ' =' KKh' 6' " 1' 86,*-^ >1 ; -.* J' B1D' LLL+ ' K ' .,-*6? ' [*9% LLL ' ' 1-' ,-*2>) J' ' 25.' L+ ' QKCNQX' .=19*2' 1 ',) *' 4 9 ' ?60*' D ' : *[*9 0)' 1-' >12+* 25',) *' ,6,*-.' -1? ,) *' ;==*-' =11/ 2',) *' +6//* '1 '4) 12' 2,1',) *' 8*.,*-2' =6-,'1 'B*-; .6/*?' MK' 25.' L+ ' T LL 'K T .6%+ ' NT' LLL+ ' KXT' 6==6-*2,/ ' ,A *' .6?*' 8 ,)' ,) 6, ' 8) >)' 218' . ; ==/ *.' ,) *' ?1._ ; -*' *2>/1. ; -*' 8 ,)' 86,*-' -1?' ,) *' =11/.'6,' *,) /*) *?% ' .'**?.' 6,') -.', 1' D6"A=' D**2' 62' 1=*2', -*2>) ' D ; ,' 86.' >/1.*0' D ' : *[*9 6)' 8 ,)' ?6^ .12-' 12',) *' 6==-16>) ' 1 ',) *' .. - 62.' M -6>)' L/+ ' KX% **' ($!

% /,) 1 ; 5) ' 21' 21, >*' .' 5 +*2' * ,) *-' D ' >- =, ; -*' 1-' D ' B1.*=) ; .' 1 ' 62 ' >122*>, 12' D*, 8**2' ,) *' =11/.' 1 ' 1/1?12' D* 120' *,) /*) *?' 620' 6' ; .; =1/ ' 1 ' 86,*-' 1-' B*-; .6/*?' , ' .**?.' ; 2/ 9*/ ' ,) 6,' .1' /6-5*' 6' 81-9' 6.',) *' =11/.' .) 1 ; /0' D*' >12..-; >, *0' ?*-*/ ' 1-' -- 56, 25') .' 56-0*2.' M >>/% ' XT' 620', -60 , 12' D1,) ' 1-6/ 620' 6.' -*=-*.*2,*0' D ' (6/?; 0 >6/ 8-, .*-. ' 6.>- D*.', 1' 1/^ 1?12',) *' 1-?6, 12' 1 ',) *' 1-5 26/6_; *0 ; >, ' D ' 8) >)' 86,*-' 86.' D-1 ; 5), ' ,1' B*-; .6/*?' M < 6 ; 20-*/X' 6 ' (-6, H% =' QT' : 6..>/_ ; ., ' (-61% ST' 5), 11, ' A>-% - % ' >% LL T' +1/% ' S KT' 1D 2.12' 1R' X% 12^ , ; .' /6, *' 6==/ *0' ,) *' .6>-*0' , -*6. ; -*' 1 ',) *' 1-D62' , 1' ,) *' +1-9' 1 ' D- 25 25' 86,*-' D ' 62' 6_ ; *0 ; >, ' -1?' 6' 0 .,62>*' B1.*=) ; .' .6 .' 1 ' N ' 1-' ' .,60 6' M 6-' ' R% X' D ; , ' */.*8) *-*' K ' .,60 6' 6' 0 ..62>*' 8) >)' 81 ; /0' 6 -/ ' >1--*.=120' 8 ,) ', ; -2.' 620' 8 20 25.' I1& ' L+ ' N' KT' & // 6?.' # 1' /' X' 3 : .' 6==/ >6, 12' 1 ',) *' ?12*' 2' ,) .' ?622*-' 56+*' - .*', 1' 6' .*- 1 ; .' 0 .,; -D^ 62>*% &) *,) *-') .' 81-9' 86.' 6' 2*8' 12*' 1-' 6' -*=6-6C I/ 12' 1 ' 1/1?12 .' 1- 5 26/6_; *0 ; >, ' >6221, ' D*' 0*, *-^ ? 2*0' D ; , ' , ' .**?.' ?1-*' ,) 62' =-1D6D/*' ,) 6, ' ,) *' 62^ > *2, ' 81-9' 81 ; /0') 6+*' D**2' 0*., =-1 *0' 2' .1?*' 1 ' ,) *' +6- 1 ; .' . *5*.' . 2>*' 1/1?12 .' , ?*% ( )*' 6_ ; *0 ; >, ' ,) 1 ; 5) ' ? ; >) ' 2A ; -*0' 620' 21, ' .*-+ >*6D/1' 1-' 86,*-' D* 120' *,) /*) *?' . , // *L .,' ' ,) *' 86,*-' .' >12+* *0' .1?',) *' 1 ; 2,6 2.' 8) >)' . ; ==/ ' ,) *' =11/.'O6D1 ; ' , 81' ? /*.' % 1' *,) /*) *?% ( )*' 86,*->1 ; -.*',) *2' =6..*.' -1?',) *' =11/.' 2' 6' % %' 0 -*>, 12 '620' 8 20 25' -1 ; 20' ,) *') // 1 ' *,) /*) *?' 12',) *' % . 0*' .' >6-- *0' .1?17' , ?*.' 6D1+*' 620' .1?*, ?*.' D*/18',) *' ; ?- 6>*' 1',) 1' 5-1 ; 20 ' =6-,/ ' 2' *6-,) *2' = =*.' 620' =6-,/ ' 2' 6' >) 62^ 2*/' 6D1 ; , ' 12*' 11,' . ; 6-*' 1 ' -1 ; 5) ' ., 12*.' /6 0' 2' >*^ ?*2, ' , // ', 6==-16>) *.' B*-; .6/*?% ( )*-*' , ' >-1..*.' ,) *' +6//*' ' : 221?' 6,' ,) *' % & % . 0*' 1',) *' > , '12' 6' D- 05*' 1 '2 2*' 6->) *.' 6, ' 6' =1 2, '6D1+*' ,) *' =11/' >6//*0' ; ' =$ 1',) *2' -*, ; -2.' % % ' 620' % 6/125',) 1' . 0*' 1 ',) *' +6//* ' 620', 20*-',) *' 86//' 620 ' >12, 2; 25' , .' >1 ; -.*' 6/125',) *' *6.,' . 0*' .' 26// ' >120 ; >, *0', 1' ,) *' : 6-6?% ,' 86.' -*=6 -*0' D ' ; /, 62' <1) 6? ?*0' D2C 6/6 ; 2' 1 ' 5 =, ' 6D1 ; ' % % N 'M & // 6?.' ' ! ' RQT' 6 ; ?*-' ! ' =% KQ T' 1D 2.12' ' S T' ' SS' 2*8' *O% ' K X% **' + ! K% ?125',) 1' 81-9.' 1 ' : *[*9 6)') *' .' .6 0', 1') 6+*' .,1==*0',) *' ' ; ==*-' 86,*->1 ; -.*' 1 '4) 12' J' 620' D-1 ; 5), ' , ' 0182' .,-6 5), ' , 1' ,) *' & % . 0*' 1 ',) *' > , ' 1 ' 6+ 0' MK') -12% LLL ' N X% ( ) 1' 0 -*>, 12' 1 ', . ' 86,*-^ >1 ; -.*' 1 ' >1 ; -.*' 0*=*20.' 12',) *' . ,*' 1 ' 4) 12% -% 1D 2.12' 0*2, *, ' ,) .' 8 ,) ',) *' /6-5*' =11/ >6//*0' ; + ' = '6, ' ,) *') *60' 1 ',) *' +6//* ' 1 ' : 221?' 12',) *' % & % . 0*' 1 'B*-; .6/*?' 620' >12. 0*-.',) *' /6, *^ / C0 .>1+*-*0' . ; D, *--62*62' >120 ; ', 8 ,) 2',) *' > , ', 1' D1' 6' D-62>) ' -1?' : *[*9 6) .' 86, *->1 ; -.*' >5 " !' 2*8' *O% ' K NC T' 'NK T' 4*.*2 ; . ' (*.%V> % = V S S' NR X% <-% & // 6?.' 12',) *' 1,) *-') 620' =/6>*.' 4) 12' 12',) *' . 0*' 21, ' 6-' -1?' ,) *' , 1?D.' 1 ',) *' 9 25.' 620' . ; ==1.*.' ,) *' 86,*->1 ; -.*' , 1') 6+*' D-1 ; 5), ' 86,*-' 2' 6' % 0 -*>, 12' , 1',) 1', *?=/*' 8) *2>*' ,' /18*0' ; /, ^ ?6, */ ' 2,1',) *' C11/ 1 ' /16?' 1-' 18*-' 11/A' 2*' 6-5 ; ?*2, ' 8) >)' -*>1?7*20.',) .' + *8' .' 1 ; 20' 2',) *' 6>>1 ; 2, ' 1 ',) *' 2, *-+ *8' D*, 8**2' ./ *' *? ..6- *.' 1 ' *226>) *- D' 620',) *' 1 >*-.' 1 ' : *[*9 6) ' 8) >)', 119' =/6>*' 'D ',) 1' >120 ; ', 1',) *' ; ==*-' =11/' 2',) 1') 5) ^ 86 ' 1 ',) *' ; //*-.' *0J' MK' 25.' L+ ' X' 8) 1.1' . ,*' .**?.', 1' D1' 20 >6, *0' D ',) *' ' ; //*-.' ?12 ; ?*2, J' ?*2, 12*0' D 'B1.*=) ; .' 6.' 6, ',) *' % % . 0*' 1 ',) *' >, E ' 620' D ',) 1' 12>*' 8*//C92182' . ,*' >6//*0',) *' 6?=' 1 ' ,) *' .. - 62.' MB1.*=) ; .' 6-' + ' K T' NT' KX% M **' < 6 ; 20->// ' =% S' MA%' 1) 2 .' >0%T >) 6-0.12

Travels, ii, 379; Bertheau, *D. Büch. d. Könige*, p. 409; Schultz, *Jerusalem*, p. 40.)—Smith. See GIHON.

Cone, SPENCER H., D.D., an eminent Baptist minister, was born in Princeton, N. J., April 30, 1785. His early education was carefully conducted, and at twelve years of age he entered Princeton College. Two years after, through his father's failure in business, he was compelled to leave college, and devoted himself to teaching, first in Princeton, then in Burlington, and finally (under Dr. Abercrombie) in Philadelphia. Here he began to study law; but his fine powers of elocution led him in 1805 to become an actor. He "trod the boards" with distinction for eight years, and then was suddenly converted, and was baptized by immersion Feb. 4, 1814. Obtaining a government clerkship in Washington, he removed thither, and began to preach within a year after his baptism. In 1815-16 he was chaplain to Congress, and immediately became pastor of a Baptist church at Alexandria, D. C. In 1823 he accepted a call from the Oliver Street Baptist Church, New York, where he remained until 1841, when he became pastor of the First Baptist Church, which built a new edifice in Broome Street. In this charge he remained until his death, Aug. 28, 1855. Dr. Cone's career as a preacher was very brilliant. He spoke with great ease, with a rich, sonorous voice, and very appropriate and expressive gestures. In doctrine he was a Calvinist, and a strenuous advocate of Baptist views, but yet courteous and charitable to all Christians. His preaching and pastoral labor exhausted but a small part of his activities. He took a deep interest in missions, was a member of the Baptist Board, and was president of the Convention from 1832 to 1841. He did his utmost to avert the disruption of the Convention in 1845 through the slavery disputes. He was also an officer of the Baptist Home Missionary Society from its beginning in 1832 to 1855. For many years he was active in the service of the American Bible Society, but on the formation of the Baptist (American and Foreign) Bible Society in 1836, which he aided greatly in organizing, he was made its president. On the refusal of this society to embark in the enterprise of "Bible Revision," so called, he seceded from it in order to form the American Bible Union, one of the chief objects of which was to substitute "immerse" for "baptize" in the versions of Scripture.—Sprague, *Annals*, vi, 656.

Coney (שָׁפָן, *shaphan'*; Sept. χοιρογρύλλιος), an animal joined in Lev. xi, 5, and Deut. xiv, 7, with the hare, and described as chewing the cud; in Psa. civ, 18, it is spoken of as an inhabitant of the mountains and rocks, and in Prov. xxx, 26, it is represented as a feeble, but gregarious and cunning animal. These descriptions some think agree best with the different species of the *jerboa*, the *Mus jaculus* of Linnæus. It is on the authority of Rabbinical writers that the word has by our translators been rendered "coney," or *rabbit*, which cannot be sustained, as the rabbit is not an Asiatic animal, and does not seek a rocky habitation, which is the leading characteristic by which the *shaphan* is distinguished. "The animal is, in truth, as Bruce justly indicated, the same as the *Ashkoko* of Abyssinia, or *Daman* of Syria, the *Wabber* of the Arabs, and in scientific zoology is one of the small genus Hyrax, distinguished by the specific name of Syrian (*Syriacus*). This animal has been described by travellers as a ruminant, but this is an error. The number, shape, and structure of the teeth are totally different (as is true also of the hare); nor is the jawbone articulated so as to admit freely of a similar action; finally, the internal structure, as well as the whole osteology, represents that of a rhinoceros in miniature, and has no appearance of the complicated fourfold stomachs of ruminants; therefore the hyrax is neither a rodent like hares and rabbits, nor a ruminant, but is anomalous, and most nearly allied to the great pachyderms of systematic zoology. It may be that the peculiar structure of their anterior teeth is convenient for stripping off the seeds of grasses and tritica, and that these, in part retained in the mouth, cause a practice of working the jaws, which, to common observers, may appear to be chewing the cud. In hares and rats a similar appearance is produced by a particular friction of the incisors or nippers, which, growing with great rapidity, would soon extend beyond a serviceable length if they were not kept to their proper size by constant gnawing, and by working the cutting edges against each other. This action, observed in the motion of the lips of most rodents when in a state of rest, caused the belief of rumination in the hare, though, like the hyrax, all rodentia are equally unprovided with the several stomachs, and want the muscular apparatus necessary to force the food back into the mouth for remastication at pleasure, which constitute the leading peculiarities of the anatomical structure of the ruminantia. But they may possess, in common with pachydermata, like the horse and hog, the peculiar articulation and form of jaws which give them the power of grinding their food, and laminated teeth fitted for the purpose. Externally the hyrax is somewhat of the size, form, and brownish color of a rabbit, and it has short, round ears, sufficiently like for inexact observers to mistake the



Hyrax Syriacus: 1, From a specimen in the British Museum; 2, Ordinary appearance in its native haunts.

one for the other. The hyrax is of clumsier structure than the rabbit, without tail, having long bristly hairs scattered through the general fur; the feet are naked below, and all the nails are flat and rounded, save those on each inner toe of the hind feet, which are long and awl-shaped; therefore the species cannot dig, and is by nature intended to reside, not, like rabbits, in burrows, but in the clefts of rocks. This character is correctly applied to the shaphan by David" (Kitto). The total length of the animal as it sits is about one foot. It presents at first sight the idea of a rat rather than any other creature. The color is gray, mixed with reddish-brown, and the belly white. They do not appear to have any cry, nor do they stand upright in walking, but seem to steal along as if in fear, advancing a few steps at a time, and then pausing. "Their timid, gregarious habits, and the tenderness of their paws, make them truly 'the wise and feeble folk' of Solomon, for the genus lives in colonies in the crevices of stony places in Syria, Palestine, Arabia, Eastern Egypt, Abyssinia, and even at the Cape of Good Hope, where one or two additional species exist. In every locality they are quiet, gentle creatures, loving to bask in the sun, never stirring far from their

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-*,-*6,.. ? 1+ 25 8 ,) >62, 12 620 .) - 29 25 -1?',) .) 6018 1 '6 =6.. 25 D -0 1-',) * 1 -* 1 ,*2',) = -* 1 *65/*.' 620') 6 8 9. ,) * -') 6D .' 6-* .,- >,/ 0 ;-26/' 620',) * ** 0 12 +*5*,6D/*.' 620' .** 0.J M ,,1 ( ) * /*.)' 1 ',) = .) 6=)62 8 6.' 1-D 00*2',) *' : *D-*8 . ' 620 ,' 6== *6-.' ,) 6,',) * < 1) 6 ? *062.' 620)- ., 62.' 1 ',) 6.,' 6,',) * =-*.*2,' 06 ' 6D.,6 2 -1 ?',) = /*.) ' 1 ',) 06 ? 0 2 M ** ;-,) = 6-, > ; /6-.' 2 ,) A % 1 . + :) L 6/.1 1>) 6-, # / K ' . _ .*.. 12 ,) = -*6>) *-.' 6-* 11 2, 8*,0* 1 ' *6>) ' . ? 6 9 * -;/*.' 620 ' 2^ 2 ;6/ 12 *-*2>*' 6==1 2,*0 * ,) = -' 1 ' *6>) ' 2^ 2 ;6/ 12 *-*2>*' 6==1 2,*0 * ,) = -' D ' .*2 1 - , ' 1 -' >) 1 > *' 6,',) = 0 .>-*, 12 1 '. ;>) 22 ;6/ 12 *-*2>* J ,' ? **,.' 12>* 2 1 ;-' *6-. ' 620 .' = -*. 0*0 1+*-' D ' ,) = D .) 1 = . ,') 6.' ;// = 18 *-' ,1 ? 69 * -;/*.' 620 -*5 ;/6, 12.' 1-',) *) ;->) J .;DA*>,',1 >*-.,6 2 / ? ,6^ , 12.' 9218 2 6.' '>12., ,5 , 126/ -*.,- >, 12.J > ' = % '=, >) ' g W3! ! 2) =) * & *./* 62) ;-0) ' 2 25/620 '6//',) = ? 2^ .,*-.' ? **,' 2 12 * 12 *-*2>* ( ) * -.,' 12 *-*2>* 1 ',) = & *./* 62 < *,) 10 .,.' 86.') */0' 2 12012 2 ',) = *6- ,' 86.' 6,,*20*0 12/ ' D ' . L' =*-.12.' +* 1 ' 8) 1 ? ' 8*-* >/*-5 (2*2 ',) ? ',) =) 6-6>,*-.' 1 ' ,) = -*6>) *-.' 8*-* *L6 ? 2*0 ' 0 *-*2>*.' 1 ',) *1/15 >C 6/ 1= 2 12.' -*=-*..*0',) = .,6, 12.' 1 ',) = F *6>) *-.' 0^ ,*-? 2*0 ' 620 ,) * -') *6-,.' 86-? *0 620 >) **-*0 D ' ? ; , ; 6/ >12. ; /, 6, 12 620 =-6 *- .') - *./* ' 0*^ >/ 2*0 2,1 ,) = +6/* 1 ' *6-. ' ,/=' =*-=*, ; , ' 1 ',) 6, . .,* ? ' 1 '01>,- 2* 620 0 .> =/ 2* ' 8) >) ') 60 D**2 .1 . 526// '182*0 1 ' 410 2',) = >12+*-. 12 620 .6/ +6, 12 1 ' ? *2 ' D*>6 ? * 6 ' ? 6,,*-' 1 ' 62L 1 ; .' >12>*-2 D1,) ' ,1) ? .*/ ' 620) .' =*1=/* ( ) * 6==1 2, ? *2, 1 ' ,) = -*6>) *-.',1',) = +6- 1 ; .' >) 6=*/. ' 620',1',) = >12.*_ ; *2, =6.,1-6/ >) 6-5 * 1 ',) = .1> *, *. ' =-*. *2,*0',) = 5-*6,*. , 0 >;/, ( ) * =-*6>) *-.' */',) = ?=1-,62>* 1 ',) = >6.* '620'-*_ ; *.,*0' < -% & *./* ',1 >12. 0*-' 8) 6,' >1 ; /0 D* 012 2',) .' * ? *-5*2*A ' .1',) 6, ' 2',) = +*2,1 ') . 0*6,) ',) = >122*>, 12 ? 5),' 21,' D* 0 ..1/+*0 : ,119 /*56/ 60+ >* ' 620 0-*8 ; =',) = ' 0**0 1 '0*>/6-6^ , 12 ' >12., ,;, 25 12*) ; 20-*0 =-*6>) *-.' D ' 26 ? *' `,) = 12 *-*2>* 1 ',) = *1=/* >6//*0 < *,) 10 .,.T 6, ,) = .6 ? *' , ? * 0* 2 25',) * -' =18 *-.' 620 ? 69 25 =-1^ + . 12 1-',) = // 25 ; =' 1 '6// +6>62> *.' 1>>6. 12*0 DA' 0*6,) ' .;=*-622;6, 12 ' 1-' *L=;/. 12 ( ) .' 0**0)1' >6 ; .*0 ,1 D* *2-1//*0 2',) = ' : 5) 1 ;-,' 1 ')62>* ' 2',) = *6- Q ( ) ; .',) = =18 *-' 1 ' 51+*-2 ? *2, 8) >) ' < -% & *./* '=1..*..*0 0 ;- 25) ./ * ' " ') .' 6=^ =1 2, ? *2, '0*+1/+*0 ;=12',) = 12 *-*2>* 6 ,*-') .' 0*^ >*6.*') =) 6+ 25 21 ? 26, *0 ,.' ? * ? D*-.' =-1+ 0*0 1-I' ,.' =*-=*,; , ' 620 0* 2*0 ,..' =18 *-.' D ' ,) = ' 0**0 1 ' 0*>/6-6, 12%' (1 =-*+*2,' 62 ' 6D ; .* 1 ' ,) .' 2.,-;^ ? *2, 12 ,) = 6-,' 1 ',) = ` /*56/) ; 20-*0 ' <-% & *./* ' /* ,' 6'/*,,*-' ,1' D* -*60' D ',) = 12 *-*2>* 6, ,.' -.,'6.^ .* ? D/ 25 6 ,*-') .' 0*6,) ' 1 ' 8) >) ' 8* .; DA1 2 62 *L^ ,-6>,'d ' D*.**>) 1 ; ' D ',) = ? *-> *.' 1 ' 410 ',) 6, 1 ; 2*+*-' 6+6 / 1 ;-.*/+*.' 1 ',) = 0**0 1 '0*>/6-6, 12J ,1' 6..; ? * 62 ' .;=*- 1-, ' 1+*- 1 ;-' D-*,)-*2 ' D ; ,' /*,' 6// ,) 25.' 51 12 ' 6 ? 125',) 1.* , 2*-62,.' 8) 1 >) 11.* ,1 ' *^ ? 6 2',15*,) *-' *L6>,/ ' 2',) = .6 ? * ? 622*-' 6.' 8) *2 ' 86.' 8 ,) ' 71;' .1 6-' 6.' > ->; ? .,62>*.' 8 // =*-? ,% : 6+* ' -*.=*>,' 1 '=*-.12.' 2 .,6, 12 25',) = *=-*6>) *-.' 2 >) 11. 25 >) /0-*2 1- 25.8 110 .>) 11/ ' 2 0 .=1.^ 25 1 ',) = * *6-/ '>12,- D ;, 12 620',) = *=-*6>) ^ *-.' 8) 1 6-* 2 ;// >122*>, 12 8 ,) ' ,) * ? ' .) 6// *2A1 ' *+*-. ' =- + /*5*,) 6, ' ,) = ?*? D*-.' 1 ',) = 12 *-*2>* *2A1 ' 65-**6D/AF7 ,1' ,) = 6D1+*C 8 - .,*2' /*.,,*-' 1 ' 1 ;-' +*2*-6D/* 0*>*6. *0 6,) *-' 2',) = 41.=*/ ( ) = 12 *-^ *2>* 1 ',) = =-*6>) *-.' 1 ',) = <*,) 10 .,' .1> *, *.' .') */0' 622 ;6// ' 2 .1 ? * 12 * 1 ',) = - 2> =6/ > , *.' 620' ,18 2.' 2',) = 9 2501 ? * -*.*2,6, *.' -1 ?',) = - .) 12C

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D ’6’ *8’8**9.’-*5;/6-/ ’6,,*20%J’ **’B6>9.12’ *2℃ *.. 12’T D;’,’,)*’0*?620’ 1-’,)*’6D1/ , 12’1’,) .’ >;.^
’ ’ ’ ” 1’ QNR’ ,*+*2.’# ‘ ,1?’86.’.1’;-5*2’,)6,’6 ,*-’,)*’ S,)’>*2,;-E’,)*’=6 ^
’ ” ! ?*2,’1’,)*’,6L’86.’5*2*-6// ’ =, 126/’620’2’,) .’
‘ (’6’?**, 25’1’?2 .^ 1-?’ ,’., //’*L .,.’2’ 1?*’ 1?62’ 6,)1/ >’>1;2,-*.%
,*-.’ 1-’,)*’0 .>;.. 12’1’_:*.,12.’-*/6, 25’,1’,)*’-’ *- 25.’1’6/’ *)*0’ 2’?62’ >1;2,-*.’D1,)’ 8 ,) 2’,)*’ ;,)*-62’>);->)*.’ ;2, /’,)*’=-*.*=,’>*2,;- ’8)/*
=6.,1-6/’0;,*.% <62’?**, 25.’1’,) .’26?*’6-*’ ,)*’ * 1-?*0’>);->)*.’*2, -*/’ ’6D1/ .)*0’,)*?%
-*5;/6-/’)*/0’2’?62’ >1;2,-*.’D1,)’ 8 ,) 2’,)*’ ()*’=- *.’,’1’1D.*-+ 25’8 ,)’-*56-0’,1’ ,’62’6D.1/;,*. /*2>*%
-1,*.,62,’620’,)*’ 1?62’ 6,)1/ >’>);->)*.% ?125’ 0;,’1’1D.*-+ 25’8 ,)’-*56-0’,1’ ,’62’6D.1/;,*. /*2>*%
,)*’D*.’92182’1’,)*’>/6..’2’ ;-1=*’D*/125’,)*’ 1’ *L>*=, 12’ ” ’ .’6//18*0’,1’ ,) .’-;/*% ’
622;6/’?**, 25.’1’,)*’?2 .,*-.’1’,)*’ -1,*.,62,’ 6’=*-.12’?69*.’>1??;2>6, 12’,1’6’=- *.,’1’6’>- ?*
>);->)*.’1’ -62>*’6,’ 6- .% **’ ! 8)>)’ .’., //’,1’D*’>1??,,*0’,)*’=- *.,’?;.,-’,1’
’ < ’ (: ’6’?**, 25’ >)625*’,)*’?20’1’.;>)’6’=*-.12’620’20;>*’)?’,1’
1’=- *.,.’ ;-’,)*’0 .>;.. 12’1’-*/ 5 1;.’620’*>>/*. 6.I’ 01’6//)6,’.’=1.. D/*’,1’=-*+*2,’.’D* 25’>1??,,*0’
, >6/,1=>.% ()*’6-*’*,)*-’>12+19*0’D’,)*’D .)1=’ D’1,)*-.’D;,’D*’.’21,’6//18*0’,1’21, ’,)*’.*>;/6-
0’,)*’0 1>*.*’1-’6-*’)*/0’D ’=- *.,.’1’,)* -’182’6>^ 51+*-2?*2,’1’A,’ B2’.*+*-6/’>1;2,-*.’M6.’ -;..6%
>1-0% 12 *-*2>*.’6-*’21,’?*2, 12*0’D* 1-*’,)*’ ,)’ ()*’=- *.’,’1’1D.*-+ 25’,1/*-6, 12’,1’.*=6-6,*’,)*’)- ., 62’01>,-2*.’
>*2,;-E% ()*’.**?’,1’)6+*’)60’,)* -’1- 5 2’2’,)*’ -1?’,)*’?6..’1’>1--;=, 12’8)>)’ 521-62>*’2*5/^
/6-5*’*L,*2,’1’,)*’0 1>*.*.’8)>)’?60*’,)*’-*5;/6- 5*2>*’1-’6-, >*’)60’>120;>*0’,1’6>>;?;/6,*’6-1;20’
?**, 25.’1’6//’,)*’>/*-5’1’6’0 1>*.*’0 >;/,% ()*’ ,)*’?*’;20*-’62’?=/>,’1D*0*2>*’,1’,)*’6;,)1-, ’620’
>12.*’;*2,/’?*,’2’0*62*-*.’620’6-)=-*.D ,*-.*.’ 01?26, 12’1’,)*’);->)’1’1?*’
;20*-’,)*’=-*.0*2>*’1’,)*’0*62’620’6-)=- *.,% ≠ MK%’<62’=*-.12.’6/,15*,)*-’1DA*>,’,1’ -**0.’620’
()*’8*-*’>6//*0’ /D*>6;.*’,)* ’8*-*’)*/0’12’ 12*..12.’1’6,)’12’,)*’5-1;20’,)6,’)*’?0^
,)*’)-.,’06’1’,)*’?12,)’1-’)6=,*-.’ 12..,1-*.’ 0/*’1’,)*’N,)’>*2,;- ’8)*2’,)*’ ’*//’2,1’0 .;.*%
210.’*.. 12.% ()*’8*-*’>1??12’;2,/’,)*’?0^ 2’,)*’S,)’>*2,;-’>6-0 26/’)6-/*.’ 1--1?*1’56+*’
0/*’1’,)*’N,)’>*2,;- ’8)*2’,)*’ ’*//’2,1’0 .;.*% .=*>6/-*5;/6, 12.’12’,)*.*’>12*-*2>*.’620’1-0*-*0’
12012 2’,)*’6+1 ’2’,)*’ *6-’ SS ’D*,8**2’,)*’ ,)*’?*2,’1’,)*’D*’60?,,*0’6-*’1,*2’,11’=6-^
D .)1=.’620’,)*’ 12>12 1-? .,’? 2 .,*-..’2’1-0*-’.1’ .>;)’6.’Z7;5),’21,’,1’D*’60?;/6D/*’,1’D*’6D;.*0’,*?=.’?*2’
,1’-*+ *8’6/,*-’620’-* 1-?’,)*’ .;-5’6.’,1’?**’, >;/6-’620’1255’6-*’/6D/*’,1’D*’6D>;>*0’12’6>>;?;/6,*’6-1;20’
,)*’**/25.’1’,)1.*’8)1’)60’.*- 1;’.>-;=/*.’656 2..’ ,1’-*’620’,)*-*D ’=-1?1,*’,)*’=*6>*’1’,)*’);->)% ,1’6’8 0*’*L,*2,’6-*’1’5-*6,*-’=-6>,>6/’6;,)1-^
,.’;.*’620’,)*-*D ’=-1?1,*’,)*’=*6>*’1’,)*’);->)% ,*0*’,)*’&1-0’1’410’6-*’=/6>*0’12’6=-. ’8 ,)’,’
()*’20+0;6/.’>)1.*2’>1?=-*)*20*0’,)*’6->)D .)1=’ 620’,1’6’8 0*’*L,*2,’6-*’1’5-*6,*-’=-6>,>6/’6;,)1-^
1’1-9’8 ,)’,8*/+*’D .)1=.’12’,)*’12*’.0*’620’ , % (81’>12.*_;*2>*.’1//18 ,)*’-.’,’),)6,’.= -^
/+*2’12>12 1-? .,’? 2 .,*-.’12’,)*’1,)*-% :60’ ,;6/’/*’.’*,)*-’6/,15*,)*-’*L,25;.)*0’1-’8)*-*’
,)*’*= .>1=6/?2 .,*-.’*2,*-*0’2,1’6’6-’620’1=*2’ ’*L...’.’.1’086-*0’620’?=-.12*0’,)6,’,’)6.’
0.>;..12’12’,)*’=1 2,.’6,’..;*’-*>12>/6,12’1’,)*’D .)1=.’ 2*,)*-’.>1=*’21-’=18*-’1’?62*.,6,12’620’,)*’
,6’>1?=/*,*’6/;-*% ,’6’>12+1>6,12’1’,)*’D .)1=.’ .*>120’,),)6,’*/,18℃)-.,62.’8)1’1>>;=’6’01?62’
)*/0’6/?1.,’?7*0 6,*/’6’,*-’2.,*60’1’-*?1+25’ 12’,)*’0Y.>)..?6,>.’620’6,’,)*’.6?*’,?*’*6-*0’6.’ ’,)*’
62 ,)25’,)6,’86.’6,’6//’/9*/’,1’.,;?D/*’,*20*-’>12^ 8*-*’1*.%J
.>*2>*.’,)*’-*20*-*0’,)*’ ,;-5A℃., //’?1-*’1DA*>^ MN%’2’,)*’1,)*-’)620’,)*’6-5;?*2,.’2’6+1-’1’
,126D/*’D’600 25’,)*’..1-’1’*/620’,)*’-6512’,1’ ,)*?’6-*’1’5-*6,*-’?=1-,62>*H
,)*’D*’12*’1’,)*’.*+*2’.6>-6?*2,.%’*’ $ $ ’ >1?=*20 1;.’+*8’31’,)*’=- 2>=6/’=1 2,.’1’,)*’
! ()*’/68’=-*.>-D 25’)18’1’,*2’,)*’)- ., 62’-*/ 5 12’?;.,’D*’;.*;/’,1’2 1-?’,)*’?20’
?*?D*-’1’,)*’);->)*.’,)1;/0’51’,1’>12*..12’86.’ 6.,*-2’>);->)*.’,)*’.)1;/0’51’,1’>12*..12’86.’
21,’;2 1-?’2’6//=6-,.’1’,)*’);->)*.’.1?*’.A(10.’ 1-0 .’=-6 *-’ ,)*’1-?’1’01>,-2*’J’?*2, 12*0’D’
2A1 2 25’12’1,)*-.’,81’1,)*-.’,)-*’*>12 *..12.’6’ 6-% 2>*’,)*’1;2>/’1’(-*2,’,)*’);->)’.)1;/0’51’,1’>12*..12’86.’
6-% 2>’,)*’1;2>/’1’(-*2,’,)*’);->)’2/>,.’ ?*?D*-’1’,)*’ .)1;/0’51’,1’>12*..12’86.’21,’;2 1-?’2’6//=6-,.’1’,)*’ .1?*’.A(10.’
>>/.6.,>6/’>*2.;-*.’12/’ ’;=12’,)1.*’8)1’1?’,’51^ 1-0 .’=-6 *-’ ,)*’1-?’1’01>,-2*’J’?*2, 12*0’D’
25’,1’>12*..12’12>*’6’ *6-% 1-’2;2.’)*’ 1;2>/’1’(-*2,’=-*.>-D*.’6’>12*..12’12>*’6’?12,)% -*.,.’
1’(-*2,’=-*.>-D*.’6’>12*..12’12>*’6’?12,)% -*.,.’ 6-*’*L)1-,*0’,1’51’1,*2’,1’>12*..12’.1?*’.210.’ 6-*’*L)1-,*0’,1’51’1,*2’,1’>12*..12’.1?*’.210.’
/9*’,)6,’1’4)*2,’*2A1 2*0’;=12’,)*?’6’8**9/’>12^ / 9*’,)6,’1’4)*2,’*2A1 2*0’;=12’,)*?’6’8**9/’>12^
*..12% *..12% 2’℃,)*’<00/*’ 5*.’,’86.’>;.,1?6- ’,1’=6’6’,6L 2’℃,)*’<00/*’ 5*.’,’86.’>;.,1?6- ’,1’=6’6’,6L

B && ' B' B ' LEH' B && ' B' B

1 ' 410' 620' ,)*' 81-0' 1 ',)*') ;->) ' ( )*' 12*' .' 6,' 6//' , ?*.' ,)*' ;/, ?6,*' 6==*6/' 1 '*+*- ' D*/ * *-7.' >12P .> *2>*' 7 ,)*' 1,)*-' .',)*' 2,*-=-*,6, 12' 1 ',)6,'6==*6/ ,)*' >1//*>, +*' D10 ' 1 ',)*') ;->D C' ( )*' 2;->)' 01*. 21,' -.,' 2/6/>6 7) 2 .,*-' 620',)* ' ,*') ?' 0182' ,1')*-' 6-, >/*.7' D A,A,)*%? 2 .,*-' =-1 *.. 25', ,1')6+*' D**2' ?=+*0' ,)*' : 1/ ' 4)1.,' 620' 0*?620 25', ,1' *L*-> .*') .' 1 >*' 620', 1' D*' 2,-;.,*0' 8 ,)' ,)*' >;-*' 1 '.1;/.' 2' ,)*' >1? ?;2 , ',1' 8) >)' D*' 6==/ *.' .' 6.9^ *0' D ' ,)*') ;->)' 8)*,)*-') .' 20 + 0;6/' 2,*-=-*,6^ , 12' 1 ',)*' >- =,;-*' 6>>1-0.' 8 ,)' ,)6,' 1 ',)*' >1//*>^ , +*' ? 20' 1 ') .' D-*,)-*2%' ')1' >6221,' 62. 8*-' 2' ,)*' 6 -?6, +*' ,' .' *+ 0*2,' ,)6,')*' ? ;.,' *L*-> .*') .' ? 2 .,-A7*/.*8)*-*% '=6-, M7/6-') ;->)' ?6 'D*' 2' ,)*' 8125 ' 620' 62' 20 + 0;6/ ?6 ' D*' 2' ,)*' 5),!' 2' 8) >)' >6.*' ,)*-*' 8 // 6- .*' >12,-1+*-. ' 620',)*') ;->) 'D ',)*' .*>*.. 12' 620' 1==1. , 12' 1 ' 20 + 0;6/. ' ?6 ' D*' /*0',1' ?10 E' 620' ?=-1+*' ,.',)*1/15 % ;',) .' ?;.,' D*' 012*' '6' >1//*>, +*' 6>,' 620' 21,' D ',)*' 2.;D1-0 26, 12' 1 '=-+6,*' >/*-5 ?*2' // 25,)*) ;->)' 8 ,)' +6- 1;.' 01>,-2*.' 620' 5 + 25',1' ,.' =-1>/6?6, 12' 1 ',)*' 41.=*/62' ;2>*-,6 2' .1;20% 1-' ' ,' 8*-*' 1,)^ *-8 .*' 8)6,')*-*. ' >1;/0' D*' *L>/;0*0HJ M %X 2',)*' 2,*-=-*,6, 12' 1 ' 12 *.. 12.',)*-*' 6-*' .1?*' 0 ., 2>, 12.' =*-=*,;6// '1+*-/119*0' .1?*' ?1.,' ?=1-,62,'=- 2> =/*.' 1 ' 2,*-=-*,6, 12' D;,'/ ,,/*' 6,,*20^ *0' ,1% 1-' 2.,62>*' .1?*, ?*.' ,)*' % ' % ' 1 ',)*' -6?*-.' 1 ' 1-?;/6- *.' >12 *..*0/ ' 51' D* 120' ,)*?' 218' ,)*.*' % ' % ' 6-*' .1?*, ?*.' 6=^ =*6/*0' ,1' 6.' 6' =-11 ',)6,',)*' 1-?;/6- *.' 1;5),',1' D*' ;20*-.,110' 2',)6,'*L,*20*0' .*2>*' ?6/>6/0' M %+%X' 6-682' ;=' D ' ;,)*-',)*' 6,*>) .?.' 1 ' ;,)*-' 620' 2' ?62 ' >);->)*.',)*' 1-?' 1 ' 12>1-0' 1-' 119' 1 ' *-5% *>' ,)*.*' -6?*-.' >12,6 2' 20 >6, 12.' 1 ',)*' ' f ( )*' 6L12' & ;-,*?D;-5 ' ;6D 62 ' 1?^ 8)>)',/ # ' 8*-*' -6?*0',) .' 1;5),',1' D*' >12. 0*-*;(' *-62 62 ' <62. */0, 62 ' 620' 1=*2)65*2' 12 *.. 12.' 1-' 2.,62>*' 6-,>/*.' *,>% -6?*0' ?62 *.,/ ' 12' =;-^ 65-**' 2' 5*2*-6/ 8 ,)',)*' . ?D1/>6/D119.' 1 ',)*' ;^ =1.*' ,1' *L>/;0*' >*-,6 2' 1? .)' 01>,-2*.' 1. D* 25',1' ,)*-62.' D ;' 6-*' 6;,)1-,6, +*' 12/ ' 2' ,)*' >1;2,-*.' ;,,*-/ ';2.>- =,;-6/ 6.' ,1'A;., ' 620' *2 1->*',)6,' .*=^ 6 ,*-' 8)>)',)* '6-*' -*.=*>, +*/ ' >6//*0% ()*-*' 6->' 6-6, 12' -1?' 1?*' 8)>)',)*' * 122*-.' 0*/ D*-6,*%E' ?62 ' *0 , 12.' 1 ',)*' X # .',)*' D*.,' 620' -*.1/+*' ' 12' 1;5),' 21,' ,1' D*' 2,*-=-*,*0' .1' 6.' ,1' ?1.,'>12+*2 *2,'6-*',)1.*' 1 ' : 6.*'MNO' *0 ,%* =%' Q S' >12. .,*2,' 8 ,)',)*.*' 01>,-2*.' 21,')18*+*-' D*>6;.*' K ?1X' 620' 1 ' -62>9*' I ' f *=.%' : S K ?1X%' ,) .' 81;/0')6+*' D**2' 6,' +6- 62>*' 8 ,)',)*' % ' **) $ ' ' $ '! % (' 1 ' *6>)' * 1-?*-' .*=6-6,*/ ' D;,' D*>6;.*' ,' 12 *.. 12.',)*' =- 2> =6/á M %X ()*' 1;-' :*/+*, >' 12 *.. 12. ' ' 81;/0' D*' 6,'+6- 62>*' 8 ,)',)*' -' 0*/ D*-6,*' % ' 0*>^ ,)6,' 1 ' 6./*' N T',)*' ;?? 6- ' 620' 12 *.. 12' 1 ' /6-6, 12' 6.' 6' f 56 2',)*-*' .' 6' 0 .,2>, 12' ,1' ,)*' : */+*, >' >) ;->)*.' NST',)*' 6 % ' $ % - ' D*' 1D.*-+*0' D*,8**2',)*' 2,*-=-*,6, 12' M X 1 '62 ,) 25' *,>%' SS' 6.>- D*0' >17 ;// 25*-T' 620',)*' @ ' =;,' 1-,)' D '62' ' 1-',)*' =;-=1.*' 1 ' 2.,-;>,^ # ' 1' S % ** % ! :V!3' ()*' 25' 1,)*-.' 1-' *L=/6 2 25') .' 182' + *8 . ' 620' M X' 1 ' (*,-6=1/ ,62' 12 *.. 12' N ' 8) >)' 0*- +*.' ,.' 26?*' 62 ,) 25' *?626, 25' -1?' 62' 1',)*' ?*?D*-.' -1?' 1;-' > , *.' ,-A.D;-5' 12.,62>*' <*?? 25*2' 1 ' 8) >)' >1;/0' 21,' D*' *L=*>,*0' *L6>,/ ' ,1' 65-**' 21,' 620' 206; ' D ',)*' 0*=;, *.' 1 ' 8) >)' ,' 86.' . 52*0á ,' 12/ ' 2' *+*- ' .)60*' 1 ' 1= 2 12' 620',)*' -*/6, +*' ?^ .' 6,,- D;,*0',1' ;>*-% MN%X ()*' 6/6, 2*' 1-' : * 0*/^ =1-,62>*' 6/.1 ' 1 '*+*- ' =1 2,' D;,' 6/.1' 2',)*' 0*5-**' 1 ' D*-5' 6,*>) .?' -6?*0' D ' $-. 2;.' 620' /*+ 62;.' >12>*.. 12',1' D*' ?60*',1',)1.*' D* 1-*' 8)1?',)* -' 0*>^ -.,';=;D/ .)*0' 2' SN% **' % ! M %X ()*' /6-6, 12.' 8*-*',1' D*' =;,' *% 5%62' 20 + 0;6/ M;2/*..' 6' 12 *.. 12' 1',)*' 46// >' >) ;->)' 1 ' 1?*' 26// ' 601=,*0' 6 ,*-')*-' D/;20*0*-X 8 // 2*+*-' ?69*' 12*' 26-,' 1 ') .' .,6,*?*2,' . 210' 1 ',)*' * 1-?*0')*/0' 6, 6- .' R% **' & 4' .1' 6-' 2*;,-6/ [*',)*' 1,)*-',)6-',)*' 8)1/*' * *>,.' 21' 1-?*0' >);->)*.' 2' */5 ;?' 0-682' ;=' 2' R' 620' 1DA*>,' 8) >)' ? 5),' 21,')6+*' D**2' *_;6// ' 8*// 1D^ ,6 2*0' D ' 1? ,, 25',)*' 8)1/*' *,' .1?*' =;D/ >' 0*>Ć 6=-+1+*0' 2' S % ** 8 ! :'!3' ()*' 12 *.. 12' d/6-6, 12.' 0-682' ;=' D '6..*?D/ *.' 1 ' .*?2' ?6 ' 1 ' 6 ,)' 1 ' >1,/620' 6//18*0' / ',)*' .,6,*.' 2' S ' D*' *L=*>,*0',1' D*' .;>)'',)*' d ,)' -, >/*' 1 ',)* 620' .;D.>- D*0' D '9 25' B6?*.' 2' S % M %X ()*' & *9Ć) ;->)' 1 ' 25/620' 1-' 2.,62>*' .' D ' ?62A7>12. 0*-^ ? 2.,*-' 12 *.. 12% 210' 1 ' 6-' ' ?*A7*-' M =. 66' Q ' Q+1' *0',1' >12>*.. 12' 620' 21,')*' 8) >)' ? 5),' 21,')6+*' D**2' 6,^ 6212.' 1 ',)*' 210' 1 ' 1-,% ** ' 9 ,6 2*0' D ' 1? ,, 25',)*' 8)1/*' *,' .1?*' =;D/ >' 0*>Ć % ' $! *0% B% 4% ;5;.,G M /Ć ?2*0' 620' 21,*.' 1 ',)*' 12 *.. 12' 1 ' 6 ,)' 1 ' D*- >/0' QK ' Q+1X' ' ' 1 ! *0,% : % % *?*A7*-' M =. 66' Q ' Q+1' ,/ *' ?1.,' >1?=/*,** 620' >12+*2 *2,' ?62;6/X' 1>9Ć */' ' ' ; + ' "=) " ' M * =[% Q X% ()*' /6.,Ć26?*0' 81-9' >12,6 2. ' D*. 0*.' 6//',)*' * 1-?*0' 12 *.. 12.' 1 ' 6 ,)' M1 ' 4*-^ ?62 ' 8 ,[*-/620' -02>*' 4-*6,' -,6 2' 1)*? 6' : ;256- ' 1/620' 620',)*' *,)*-/620.X' D- * ' 2,-1^ 0;>, 12.' 620' 21,*.',1' *6>)' 1',)*?% % ()*' & ' 12 *.. 12' 1-' ()-, Ć2 2*' -, ^ >/*.' 1 ',)*');->)' 1 ' 25/620' J' 65-**0' 12' 2',)*' 12^ +1>6, 12')*/0' 2' (A12012' K% ()*' 8*-*' -*+ .*0' 620' .;D.>-)*/

12.,62, 21=/*' /*L620- 6' 2, 1>)' 620' B*-;.6/*?% ,' >12,6 2.',)*' .,6206-0' 1 ',/A*=- 2> =/*.' 1 ',)*' ;.Ć . 62Ć4-**9');->)' 1-',)*' 1- 5 26/.' .** '1 =' ' ' 1' *0% % B% ? ?*/ MB*26' Q N' Q+1X' *6/*' # ' ' "' 6 ' " '" M 120% Q K' +1/.%X% **' & ' $ '! K% ()*' " "' '5 !',)1;5)' .)*')6.' 6/86 .' -*^ >* +*0',)*' =1../*. ' >*2*' 620' ,)626. 62' >-**0.')60' 21' L*0' =;D/ >' 620' 6;,)1-,6, +*' . ?D1/, //',)*' 1;2> / 1' (-*2,% ' .;?? 6- ' 1 ',)*' 01>,-2*.' >12^ ,6 2*0' 2',)*' >6212.' 1 ',)6,' >1;2> / :*2>*' 620' 1 ',)*' 01>,-2*.' >12^ >-**0' =;D/ .)*0' D ' ;.' ' M S X 2',)*' 1-?' 1 ' 6' D;//% ' .' 2,-10;>*0' D ',)*' >*2*' -**0',1' 8) >)' ,' 600.' ,8*/+*' 6-,>/*.' >1?=-. 25',)1.*' 01>,-2*.' 8) >)',)*');->)' 1 ' 1?*' 26// ' 601=,*0' 6 ,*-')*-' >12,-1+*-. *.' 8 ,)' ,)*' * 1-?*-.% ** ' ' + $ ' % *. 0*.',) .' >-**0' 620',)*' 6212.' 620' *>-**.' 1 ',)*' 1;2> / 1' (-*2, J',)*');->)' 1 ' 1?* 6>9218/*05*.' 21' . ?D1/ >6/ D119.' 6.' 6;,)1-,6, +*' ** 0 ' $ ' f ()*' D*.,' *0 , 12.' 6-*' 9 f ' ' f f - 1f' M =.% Q N' Q+1X' ;>9Ć /* ' ' ' ' ' -' M 120% Q K?1X' 121+62' " ' ' ' ' -' M 6/,% Q+1X' **6/.1' ,-* ,81/ ' f X f 6 f "f M41,,% Q X' 620',)*' 6-, >/*' 0 ! M% ()*' " 'D119.' 1 ' 6 ,)' 620' 0 .>=/ 2*' 6->' >6//*0' '$ '6 '6 f d * ' >12^ ,6 2',)*',)-**' >-**0. ' =1../*. ' >*2*' 620' ,)626^ . 62' \.**' ;',)*' ;5.D;-5' 12 *.. 12' \.*>' $ $;',)*' =1/15 J' 1-',)6,' 12 *.. 12' D '

D1,)' 2' 6, 2'620' 25/ .)% **' ' d d d d1'
> ' $.' ' ( )* ' !8*-*' 601=,*0' D ' ,)*'
-1,*.,62,' = .>1=6/) ;->)' 2' Q '8 ,)' .1?*' 6/,*-^
6, 12. ' 620',)*' -*A*>, 12'1 ',)*' ,)626. 62' -**0% '
.*/*>, 12' -1?',)*.*' 1-?.',)*' -, >/*.' 1 ',)*' <*,)^
10 .,' = .>1=6/) ;->) J' **' ' d d 1'
' ' > / / !
( )*' .;DA*>,'1 ' 12 *.. 12.' 1 ' 6 ,)J' .',-*6,*0' 2'
.,*?6, *' ( )*1/15 ' ;20*-',)*')*60'1 '$ 1'1-'
D$ ' ( )*' D*.,' .=*> 6/ >1//*>, 12.' 620', *L,^
D119.'D*. 0*.',)1.*' 6/-*60 '26?*0'6-*d <6-)* 2*9*'
D ' 1 ' !')1' !1'$!1' ;'
, ; ' 4 '$!' "(!'M *-/ 2' QN 'NO'
0%Q+1X1' 4 ;- >9*' & ' "J'$ +'M * =.%'
Q S'Q+1X1' & 2*-' % ' ' ' ' 1'
" ' " ' " 2 " ') " % " '
M =.% QN ,1X1' <1)/*-' % 'M 1?62 .,X'$ 1'
'6 % I ' ' " ' ' ' '] V' ' +!'
' !'M *8' 1-9' Q 'Q+1X1' % ' '$ '
' 'M4*2*+% S A ,1X1' : 6// ' # '
' ' 'M 12012' Q 'Q+1X1' $ '
1' !' !'M L12% QK Q+1X% * '>12C'
7A2 *2,' ?62;6/.' 6-*' : 6)2 ' ' ; + ' ' ' '

B LEQ B UY

.6- ' 1-',)* -' 8*/ 6-* ' 1-06 2 25'*/0*-. ' ?=6-, 25' ? ^ 60? 2 -,*-*0'6,',)*' .6- *' , ?*' 8 ,) '1-'6 .' .112' 6 .'=1.^
-6>;/1; .' 5 ,. ' .1' ?=1-,62,',1',)*' 2.,-;>, 12' 1 '>12^ . D/*' 6 ,*- ' D6=, . ?' *+*?2' 2' ,)*' >6.*' 1 ' 2 62,. ' ,' D*^
+*-,. ' 620' ,1' ,)*' ;-2 .) 25' >12+ 2> 25' *+ 0*2>*.' 1 ' 25' >12. 0*-*0' =*- /1; .' ,1' 0 *' 8 ,)1 ;' ,'† 620' 2' ,)*'
,)*' ,-; ,)' 620' =18*-' 1 ',)*' 41.=*/ ( )*' ;2>, 12 ' 1-' 6, 2') ;->)' 6/.1' ,' .' 1 ,*2' 60? 2 .,*-*0' ,1' 1; 25'
>)- .? ' -* *--*0' ,1' 2' 'B1)2' 'K '620' K 1-% ' K ' >) '-*0' 2 ' ?*2 ' 1 '>1?=/*,*')- ., 62J ,/ /*)6.' =6-,69*2' 1 ',) .'
)6I.' D**2' . ;==1.*0' D ' .1?*' ,1' -* *-',1',)*' >*-*?12 ' '.6>-6?*2,%J' (1'-*>12> /*',) .' 1= 2 12' 8 ,)',)*' .6/C'
1 '>12 -?6, 12† ,' .** .'-6,)*-',1'-*/6,*',1'6'.= - ,;6/ +6, 12' 1 ' >) /0-*2' 8)1' 0 *' 6 .*-' D6=, . .?' D ;,' D* 1-*
621 2, 25',1',)*' -1 6/' 620' =- *./ ' 0 52 , ' 1 ' D- .C' 1 ' 1? ?=6>, . ?' D ;,' D* 1-* >12 -?6, 12' 1-' >1? ? ,, 25' 6>,;6/ . 2 J' ,)*');->)'
, A; . ' 1-' ,1',)*' >1? ? ;2 >6, 12' 1 ' *L,-61-0 26- ' 620' 1 ' 1? *)6.' 0*> 0*0',)6,',)*' '6-*' >12 -?*0' D '0*6,) '
? -6>;/1;.' 5 ,.% MK%X' .' ,)*' =-6>, >*' >6221,' D*' 6.' ,)* '>6221,' . 2' 6 ,*-86-0.% 2' 25/620 ' +*' >*2^
,-6>*0',1' G B*8C(*.,6?*2,'6;,)1- , ' .1' 2* ,)*-'01',)*' ,;- *.' 651' >) /0-*2' 8*-*' ; . ;6// ' >12 -?*0' 6,',)*' 65*'
*6-/ *.,' *>1-0.' 1 '*>>/*. 6., >6/' 62, _; , '>12,6 2' 62 ' 1 ' +*' *6-.% ()*' 1;2> / 1 ' (-*2,' 6==1 2,*0' -1?'
>/*6-' 620' >*-,6 2' ,*., ?12 ' >12>*-2 25' ,% 6P .65*.' .;==1.*0' ,1' -* *-',1',) .' - ,*F)6+*' D**2' =1 2,*0' 1;,' ,)*' 65*' 1 '.*+_2' ,1' ,8*/+*T3620'6' . 210' 1 ' < /62' 2'
.;==1.*0' ,1' -* *-',1',) .' - ,*F)6+*' D**2' =1 2,*0' 1;,' 2' ,)*' 8-, 25.' 1 ' 12 . ;.' 2' ,)*' =1.,1/ >6/ 12^ SS '=-1) D ,*0'>12 -?6, 12' ;20*-'.*+*2' *6-.' 1 '65*%
., ;, 12.' 2' /*?*2,' 620' 2' ;.*D ;.'† D ;' ,)*' ')*' >6212' /68' L*.' 21' , ?*' D ;' .6 .' 1 '=*- *>,'
-6,)*-' -*/6,*',1' ,)*' .6>-6?*2,' 1 ' D6=, . ?% ' 65* J' 8)>)' ?6 ' D*' 2,*-=-*,*0' .,- >,/ ' 1-' /6L/ %'
'(' ' ' "' % ' ?6 ' D*' ,-6>*0',1',)*' ()*-*?12 †' D ;' ,' 86.' -*.,1-*0',)-1 ;5)',)*' 2 /;*2>*' 1
, ?*' 1 ' (*-,;// 62' 8)1' 2 1-?.' ;.' ,)6,',)*' >*-*?1^ >*-*?12 †' D ;' ,' 86.' -*.,1-*0',)-1 ;5)',)*' 2 /;*2>*' 1
2 *.' 1 ' ;2>, 12' 620',)*' ?=1. , 12' 1 ')620.' 1//18*0' 1 ' =*2*-' 2',)*' * 1-?*0' -*2*86/ 1 ',)*' D6=, . ?6/ >1+*262, ' 2' ,)*' * 1-?*0'
? ?*0 6,*/ ' 6 ,*-' D6=, . ?% =- 62' -* *-.' ,1' ,)*' 620' ;,)*-62');->)' 1 ' 25/620' ;,)*-62');->)' 1 ' 25/620'
.;DA*>,' 1 ' >12 -?6, 12' 620' 6==/ *.' ,1' ,' ,)*' 81-0' 620' 2',)*' -1,*.,62,' =.>1=6/);->)' ,' .' 6' 1--%A6/
.' D ;' ,' .' *+ 0*2,' -1?' ,)*' ;.*' 1 ',)*' -*.,*-' 60? 2 .,*-*0' D ',)*' D .)1=% ()*.*' >);->)*.' 0 ^
,*-?' 6,',)*' , ?*' 2' 8)>)')*' 8-1,*' 620' -1?' ,)*' -*>,',)6,',)*' >) /0' .)6// D*' >12 -?*0' .1' .112' .')*'
.>1=*' 1 ',)*' =6..65*.' 2' 8)>/ ,' 1>>;-. ',)6,' .6' -1C' >62' .6 -,)*' -**0',)*' 1-0 .' -6 *-' 620',)*' (*2'
' 86.' 21,' ;.*0' 2' ,.' .,-,/ ',)*1/_5 >6/ ?*62^ 1? ?620? *2,.' 2',)*' +;/56-',125;*' 620' .' ;-,)*-'
25'D ;,' .?=/ ' 2',)*' .*2.*' 1 ' f ;?*-1;.' 2.,-;>,*0' 2',)*');->)' 6,*>) .?' .*,' 1-,)' 1-',)6,'
-* *-*2>*.',1'/6,*-' 8-,*-.' ? 5),' D*' ?60*',1' .)18',)*' =;-=1.*%J' .)1=' 4 D.12' ,1' */;> 06,*' ,)*' 81-0.'
>122*>, 12'1 'D6=, . ?' 620'>12 -?6, 12% ()*' D6=, . ?' *6-./ *-' 1 '0 .>-*, 12 J' 2',)*' >' N ' 6-% %-*-.'
1 '60;/,.' D* 25'-*56-0*0'6.' 6' .1/*?2' >1?=6>,' 1-'>1+*^ 262, ' >12 -?6, 12' 1//18*0' 6.',)*' .*6/ D ' 8)>)',)*' 2088110 .' 4/1..' ;=12' ->)D .)1=' & 6/,*- .' 12^ ,1' 208110 .' 4/1..' ;=12' ->)D .)1=' & 6/,*- .' 12^
>12,-6>,' 86.'-6, *0T' 620')*2>*' >12 -?6, 12' 86.'360^ ., ;, 12.' 8)>)' ?69*.' ,)*' =-1=*-' 65*' ,1' D*' 6D1+*' 3
? 2 .,*-*0' 21,' D ' ,)*' =*-.12' 1 > 6, 25' D ;,' D ' ,)*' .*+*2' 620' ;20*-' 1 ;-,**2% ()*' - ,;6/ ..' 620C>6212^
D .)1=% ,' ,)*' .,6,*0' /6=, . ?6/ .*6.12.',)*' D .)1'''' .,.' 1 ',)*' 25/ .)');->)' 5*2*-6// ' 2>/ 2*' ,1' 6',*2^
86.'>/ * / '1>>;= *0'8 ,)',)*' - ,*' 1 '>12 -?6, 12†' D ;,' 0*-*2*' 65*% ();. ' 2' -*=/ ',1' ;>*-' 8)1' 20.' 6;/,'
)*' .1?*, ?*.' >1? ?*2>*0',)*' 8)1/*' .1/*?2, 'D ',)*' 8 ,)')' .' 18 2')620.% 1 ' 1? 60? 2 .,*- 25' >12 -?6, 12',11'
D6=, .?' 1 ' 6' *8' 20 + 0;6/.' 8 ,)') .' 18 2')620.% .112' J' 620' .6 .',)6,' 212*' 1;5),',1' D*' >12 -?*0' 8)1'
&)*2' D6=, . ?' 86.'60? 2 .,*-*0' 2',)*' 6D.*2>*' 1 ',)*')6+*' 21,')60' 1==1-,;2 , '1 '5 + 25' .; > *2',*.,?1^
D .)1=' >12 -?6, 12' 86.' .1/*?2 [*0'6,' .1?*' >12+*2^ 2*.' 1 ',)*' -' 6 ,)' 620' 0*. -*' 1 '/ + 25',1' 410' D ',)*' -'
*2,' .*6.12' 6 ,*-86-0.' * ,)*-' D ',)*' D .)1=' 1-' D ') .' / *' 620' >12+*-.6, 12 J' &)>6,/ '6-5;*.',)6,'>12 -?6^
-*=-*.*2,6, +*% : *2>*' ,' 1//18*0',)6,'>12 -?6, 12' , 12' .' 60? 2 .,*-*0' ,1' 6.. .,',)*?' 2' ?62 *., 25'
86.' 1 ,*2' 0* *--*0' ;2, / .'+*-6/' *6-.' 6 ,*-' D6=, . ?' ,)*' -' 620' =-6>, >*' 620' .' 21,',1' D*' 0* *--*0', //
.=>6// 1' 2',)1.*' 0 1>*.*.' 8)>)'8*-*' .*/01?'+ . ,*0' ,)*.*' 6-*' 6/-*60 ?62 *.,*0%J' ()*' -,*')*' .6 .' .'
>,)*-' 12' 6>>1;2,' 1',)*' -' 5 I*6,' *L,*2,' 1-',)*' 2*5/ ^ ,1' 5;6-0',)*?' 656 2.,' .2' D* 1-*',)*' '6-*' *L=1.*0',1'
5*2>*' 1-' 521-62>*' 1',)*' D .)1=% +*2'6 ,*-',)*' 1' ,*?=,6, 12' ,)6,' .1',)*' : 1/ ' = -,' ?6 ' ,69*' *6-/ '
' 2,-10;>, 12' 1 ' 2 62,' D6=, . ?' >12 -?6, 12' ?^ =1.*.. 12' 1 ',)*-' 1;,) ;/') *6-,. ' 620'=-*+*2,',)1.*'
?*0 6,*/ ' .;>>**0*0% 2',)*' - *2,6/ >);->)*. ' D6=^ - ,*' 620',)*' 6/.1' ,' .' 1 ',)*' 6-*' 6/-*60 ' ?62 *.,*0%J' ()*' -,*')*' .6 .' .'
, . ?' >12 -?6, 12' 620',)*' 1-0 .' ;==*-' 6-*' 60? 2^ 0*?620. ')*' C600. ' .' ',)6,',)*E'
.,*-*0' 2' ?*?*0 6,*' .;>>*.. 12' 6'=-1D6D/*' *+ 0*2>*' .)1;/0' ;20*-.,620',)*' 26,;-*' 620' 60+62,65*.' 1',)*'
,)6,' .;>)' 86.',)*' 62> *2,';.,1?% MN%X ()*'=*-?6^ -,*' 620',)*' 1D/ 56, 12.' ,' /6 .' ;=12',)*?%J' ()*'
2*2,' .*=6-6, 12' 1 '>12 -?6, 12' -1?'D6=, . ?' .' 5*2 ^ : 5)'620' 18');->)'0 *-' 6.',1',)*' *..*2>*' 1 '>12^
6// ',-6>*0',1',)*' N,)'>*2,;- % ()*' D .)1=' 86.' A1' -?6, 12',)*' /6,,*-'-*56-0 25' ,'6.' D* 25'*..*2, 6// '6'
,)*' ?1.',=6-,',)*' 1-0 26-A7? 2 .,*-% *+*-6/' >6212.' =*-.126/*-*2*86/ 1',)*'=-1? .*.' ?60*' 2',)*' 26?*' 1'
0*2 ,1',)*' 1,)*-' 1-0*-.' 1 ',)*' >/*-5 !',)*' - 5),'1 '>12^ 1-',)*' =*- 1-?62>*' 1',)*' - ,*% ()*-'0 *-*2>*' 1'
-? 25'† D ;,'=-*.D ,*-.' 6==*6-',1')6+*' >12 *--*0' ?^ 1= 2 12' D*>6?*',)*' .;6-6?*2,6/-,*' 1-' >12C'
=1. , 12' 1 ')620.' M6X 2',)*' =-*.*2>*' 1',)*' D .)1=' 1-' M>X 12',)*' >12+*-. 12' 1 '6' -*=;,*0' +*+*2' 8)*2' 6' *8'A7*6-.'651' D .)1=' 6- 25' 1 ' ;-)6?' -*^
3)*-*, >' ' .;>)' 6' 12*' 0*. ?.' 1 'D* 25C-*>* +*0' 2,1' ;.*0',1'>)625*0' 2' .*=6-6,*' *0 >*' 2' 51?*' 2.,62>*.'=-1+ 0*0'>6//*0' =' >12 -?6, 12' ;>->)' 1 ' 86.' 6',)*' =1 2,' 1 '0*6,)' 8) /*',)*' D .)1=' -?6, 12' -1?'D6=, . ?' 6' .*-.*.' 1 '=-*/ ? 26- ' -*/ AI' 1 '-' 620' " ! ,*-' ,)*' 0 .;.*' 1 ' D6=, .,*- *.' D1,)' D6=, . ?' 620' >12 -?6, 12' 8*-*' 60? 2 .,*-*0' 2',)*' >);->)' M 6--6-T' 25)6?' , !'6 'D9%L$'>)% ' T *620*-' "!' 2 !' 'N SX% *)6 ' &% ' "-' 6/?*-' ,' " ' " "?' 12 -?6, 12' .' 6' ' 2',)*' 1? .)' 620' -1>,*-' ,' ,' ' !' :' // 1,,' ' ' ' 5
4-**9C>);->D*.% 2',)*' 4-**9');->)'>12 -?6, 12' . (5 $1, ' " " '=% N R' M % % K?1X' ;-2*,'
' '6 !'5 1' ' SS QN'H & /.12' ; %=' 5 !' **' 6' $.,'1 ',-*6, .*.' 12'>6,*>);?*2.'620
' 1'=' KS T &)6,*/ 'D 2' ; % !'=% NST'

B " # (. + B &

>12 -?6, 12' 2' 1/D*0 25 .' ' ' 1' =¼ ¾

12 /65-6, 12 ' & ! ( )*' 1= 2 12',)6,',)*' *20' 1 ',)*' 81-/0' .',1'D*' * *>,*0'D ',)*' 65*2> ' 1 '/ -*' .'+*- ' 62> *2,' 620' 86.' >1?? 12' 6? 125')*6,)*2' =) ^ /1.1=)*-.' M + 0 ' %"' ' K X¼ ,)*-',*-,, ?1^ 2 *.'6-*' _;1,*0'D ' 4-1, ;.'>' ' N + 2'D ! " ! / D¼ ' g' KKX¼ ,' .' 21,' *6. ' ,1' 0 .>1+*-',)*' 1- 5 2' 1 ',) .' 1= 2 12' .',>62' .>6->*/ ' D*',-6>*0',1',-60 , 12' 0*- +*0' -1?'-*+*/6, 12 ' . 2>*',)*-*' .' 21' 0 ., 2>,'-* *-*2>*',1' .;>)'6'>6,6..-1=)*' 2',)*' /0' (*..6?*2,¼ ,' .'?1-*^ 1+*-' -*?6-96D/*' >12. 0*- 25')18' ;2 +*-.6/ 620' 0* ^ 2 ,*' .',)*' 1-0 26- ' D*/ * '12',)*' .;DA*>,',)6,',)*-*' ,' 12/ ' 12*' =6..65*' 2' ,)*' *8' (*.,6?*2,' + [¼' K *,¼ ' C ' 8) >)' >62' D*' 600;>*0' 6.' .=*69 25' 0 ., 2>,/ ' 1 ',) .' *+*2,¼ () .' =6..65*' .' 20**0' +*- ' *L=/ >, ' D;',.1?*' /*6-2*0' 620' 6D/*' *L=1. ,1-.') 6+*' -* *--*0' ' 6/,15*,)*-',1',)*' 0*.,-;>, 12' 1 'B*-;.6/*?' 620' 1 ',)*' B*8 .)'=1/, ¼ ?125',)*.*'6-*' -¼ 5), 11,' I ' # ! 2' B1D¼' K ' KKX' 620' -¼B1)2' 8*2' ID O = ' *0,¼ -*?*2' SQ ' =¼ ' ;1,*0' F ' -¼ A * ? ,)' $ % ' ' ? ' .*>,¼' 4' =¼ KNN' .,' *0%X¼ ')18*+*-' 8 ,)',)*' ?6A1-, ' 1 ' 2,*-=-*,*-.' 8*' -*0 *-',)*' =-*0 >, 12',1',)*' *20' 1 ',)*' 81-/0' ,1' 8) >)' ,.**?.' ?1.,' 26,;-6// ',1' 6==/ ' 8*' >1;/0' 21,')6+*' 6 ?1-*' 0 .,2>,'.,6,*?*2,' 1 ',)*' 6>,',)6,',)*' =-*.*2,' 1-0*-' 1 ',) 25.' .',1'D*',*-? 26,*0'D ',)*' 81-/0' 8*' 2)6D.,' 620' 6// ,)*' 81-9.' 1 ' ?62' ,' >12,6 2.' !D* 25' D;-2,' ;=%J' ()*-*' .' 21' -*6.12' 1-' 6..;?25',)6,' ,)*' 8)1/*' ?6,*- 6/ ;2 +*-.*' .',1'D*' 2+1/+*0' 2',) .' >6,6.,-1=)*T ,)*' ?*2, 12' 1 ',)*')*6+*2.' /*607' 1 ;-' ,)1;5),.' 21' 6-,)*-',)62',)*' 6,?1.=)*-*' 620' +6=1-.' .;--1;20 25',) .' =/62*,¼ 1-' .)1;/0' 8*' -*56-0',) .' >12 /65-6, 12' 6.' 2+1/+ 25',)1' 6D.1/;,*' ' 1-' 622) /6, 12' 1 ',)*' 81-/0T ' .' ?1-*' >12. .,*2,I8 ,)' ,)*' 26--6, +*' ,.*/ ' 6.' 8*// 6.' 8 ,)' =) . >6/' .> *2>*' ,1' >12. 0*-' ,'6.' 2,-10;>,1- ',1'6' 2*8' 620' D*,,*-' .,6,*' 1 ',) 25. ' 2*8')*6+*2.' 620' 6' 2*8' *6-,)' 8)*-* 2' 08*//*,)' -5),*1;.2*..J' M+*-¼ X¼ ' 8)6,' ?*62.')1' >12 /65-6, 12' .',1'D*' * *>,*0' 8>'6-*' 21,' 2 1-?*0' 620' 6// 6,,*?=,.',1' *L=/6 2')18',) .' .',1'D*' 6>>1?^ =/.)*0' ?;.,' D*' ?*-*' .=*>;/6, 12¼ & >')6+*' 12/ ' 6,' =-*.*2,',1'-*?6-9',)6,'.;¾)' 62' *+*2,' .' 21,' 2>12. .,^ *2,' 8,)'=) . >6/' 6>,g¼ & 1' 9218',)6,',)*',*?=*-6^ ,;-*' 1 ',)1'*6-,)' 2>-*6.*.' 5-60;6// ' 620' 8 ,)' >12. 0^ *-6D/*' -*5;/6- , ' 6.' 8*' 0*.>*20' D*/18' ,)1' .;- 6>*' M) // =.' ? ' ' KNKX' 620' 8*')6+*' *+*- '-*6.12' ,1'D*/ '+*' ,)6,',)*' >*2,-6/ ?6..' .' 2,*2.*/ ')1,¼ & *' 9218 ' ?1-*1+*-',)6,',)*-*' 6-*' .;D,*--62*62' -*.' 1 ' 5-*6,'*L,*2,' '21,' 1-? 5'=6-,'1',) .')*6,*0'>*2,-6/ ?6..¼ ()1' ?*62.',)*-* 1-*' 1 '>1?D;., 12' 6-*' 2*6-' 6,')620¼ ;,'*+*2' ',)*-*' 8*-*' 21'.;>)' >*2,-6/)*6,' >)*? .,-' =1 2,.' 1;,' +*- ' *6. ' ?*62.' D ' 8) >)',)*' >12 /65-6, 12' ?6 ' D1' * *>,*0',)-1;5)',)*' 65*2> ' 1 ' +6- 1;.' */*?*2,6- ' .;D.,62>*.' M) // =.' ? 1' K NX¼ & *' 20' *+ 0*2>*' 6/.1' 2',)*' = -15*21;.' -1>9.' 8) >)' 1-?' .1¼ /6-5*' 6' =6-,' 1 ',)*' >-;.,' 1 ',)*' *6-,)',),6,',)*' 81-/0')6.' 6/-*60 ' D**2' .;DA*>,*0' '21,' ,1' >12 /65-6, 12' *,',1'6' ?1-*' 2,*2.*' 620' 5*2*-6/ 6>, 12' 1 ')*6,',)62' 62' 8) >)' .' 218' 1D.*-+*0' 12',)*' .;- 6>*' ' .;00*2' *+1/;, 12' 1 ') 0-15*2' 56.' .)18.' 12*' 86 ' 2' 8) >)' .;>)' 6' >6,6..-1=)*' ? 5),' D1' =-10;>*0' " ' $ ' B;/ ' QS ' =' %X' 2' .=*>;/6, 25' 12' ,) .' .;DA*>,')18*+*-',)*' >6;,12' 1 ' 6/+ 2' .)1;/0' 21,' D*' 0 .-*56-0*0',)6,',/ >' 6=1../*' .' 21,' .=*69 25',1'5-6,^ ',)*' .=*>;/6, 12¼.' 1 ',)*' >;-1;.',1' 600' ?=-*.^ . +*2*..',1') .' =1;.' *L)1-,6, 12.' I ' 'K' ! X¼ ' ,,1' .¼ A

12 1-? , '..- >,/ ' ?*62.' M X',)*' D* 25' -*0;>*0' ,1',)*' %' "(% ' 8 ,)' 62 ,) 25' */.*T)*2>*' ,')6.' 6>^ _;-*0',)*' 5;-6, +*' .*2.*' 1 'M X' 65-** ?*2,' 8 ,)' 62 ' *L ., 25' .*,' 1 '=- 2> =/*.' >-' 62 ' 2., ,;, 12T >0')6.

2' 6' ?1-*' / ? ,*0' 620',*>)2 >6/' C.*2.*' D**2' ;.*0' 1 f MNX' % ' "' " ' % ' ' " ' " "' '6 9 ! ' 12 1-? .,.J' 6-*',)*-* 1-*' 5*2*-6// '>12,-6.,^ *0' 8 ,)' 12>12 1-? .,. J' 6' 26?*' 8) >)' 218' 2^ >/;0*.' 5*2*-6// '6//',)1.*' 8)1' * ,)*-' 2' 01>,- 2*' 1-' 51+*-2?*2,' 1-' D1,)' 0 ..*2,' -1?',)*') ;->)' 1 ' 25^ /620¼ ' 0*>/6-6, 12' .' -*_; ,*0' 1 ' 6//' =*-.12.' 8)1' 6-*',1' D*' / >*2.*0' 1-' 2.,.;,*0',1' 62' *>>/*. 6., >6/ >)6-5*' 2',)*');->)' 1 ' 25/620' 2',)*' 1//18 25' 81-0.d ' ¼' %' 01' 0*>/6-*',)6,' 8 // >12 1-?',1' ,)*' ,;-5 ' 1 ',)*');->)' 1 ' 25/620' 6.' ,' .' 218' D ' /68' *.,6D/.)*0¾J ()*0*>/6-6, 12' .',1'D*' ?60*' 620' .;D.>-D*0' D* 1-*',)*' D.)1=' 1-').' >1?? ..6- ' 620' ,)*' ?69 25' 620' .;D.>-=, 12',)*-*1' .',1' D*' .*., *0' ;20*-',)*' *= .>1=6/ .*6/ 1 ',)*' D.)1=' 620';20*-',)*')620' 1 ',)*' D.)1=' 1-').' >1?? ..6- ¼ ' 0*2 ' " "9 1' ' -" ! ' ! ' ! ' : 119 ' " "' ' !

12 1-? .,.¼ **' #!

12 ;> ;.' M 6, 2 [*0' D ',)*' B*.;,' ? .. 126- *.' -1?' 125C ;C,.>' 1-' 1125C 11C,.*X' 6') 2>.*' -*^ 1-?*-' 620' ?1-6/.,' 86.' D1?*' 6D1;,' ¼ ' 6,',)*' + //65*' 1 '(.*;C.*' 2',)*' .?6// 9 2501?' 1 ' ;' M218' 6' =6-,' 1 ',)*' =-1+ 2>*' 1 ')62,;25X' 620' 0 *0' ¼ ¼ ' :*' .' .6 0',1')6+*' D**2' 6' 0*.>*2062,' 1 ',)*' *?=*-1-' :Z725C, ' 8)1' -* 52*0' ¼ ¼ K ¼ &)*2')1' 86.' ,)-**' *6-.' 1/0') .' 6,)*-' 0 *0' D;',) .' ?1,)*-' ,-6 2*0')?' 8 ,)'5-*6,'>6-*' 620' 86.' -*86-0*0' D ',)*' -6= 0' =-15-*..' 620' /6/ ,*20*-2*..' 1 ')*-' .12¼ ' .*+*2,**2')*' 86.' >6//*0',1' =;D/>'/ *' 6.' 2.=*>,1-' 1 ',)*' 5-6 2C?6-9*,.¼ :*' 86.' ?6-- *0' 6,' 2 2*,**2 'D;,' 6>>1-0 25',1'.1?*' 6>>1;2,.' .;D.*_;*2,/ '0 +1->*0' D .' 8 *¼6,*-'.)*')60' D1-2*') ?' 6'.12X' 2' 1-0*-',1'0*+1,*' 7?.*/ ',1',)*' ..;0 '1 ',)*' 62> *2,' 8-, 25.' 620' =-*^ =6-*' 1-',)*' 81-9' 1 '-*.,1-25',)*' ;.65*.' 620' 01>,- 2*.' 1 ',)*' 1/0' .65*.¼ :*' 86.' .>12' 6 ,*-'=-1?1,*0',1',)*' 1 >*' 1 ' 2.=*>,1-' 5*2*-6/' 1 '65- >;/,;-*¼ ',8*2, C 1;-')6+ 25' /1.,') .' ?1,)*-')*' -*. 52*0') ' =;D/ >' *?=/1 ?*2,.',)6,')*' ? 5),' =6 ',)*' -*.=*>,',1')*-' ?*?1- '=-*.>- D*0'D ',)*' 62> *2',-60 , 12.¼ ;- 25' ,)*',)-**' *6-.' =6..*0' 2' ?1;-2 25')*' 86.' 6' 0 / 5*2,' .,;0*2,¼) 26'6,',)6,'=*- 10' 86.' 0 + 0*0' 2,1'6' 2;?^ D*-' 1 ' *;06/ 9 2501?.' D;' ./ 5),/ ' ;20*-',)*' >12,-1/ 1',)*' >*2,-6/ 6;,)1- , '8)1.*' >12.,62,'_;6--*/.' //*0' ,)*/620' 8 ,)' 0 .1-0*-' 8) /*',)*' .1> 6/ 620' ?1 6/ >12^ 0 , 12' 1 ',)*'=*1=/*')60' 6//*2' .1'/18',)6,',)*' 62>*.,-6/ -*/ 5 1;.' -,*.' 8*-*' 21'/125*-'1GX.*-+*O¼ (1'-*.,1-*',)*' =-1=*-' 1D.*-+62>*' 1 ',)*.*' -6,)*-',)62',1' 2,-10;>*' 62 '2*8' -*/ 5 1;.' . .,*? '86.',)*',6.9',1'8) >)' 12^ ;> ;.'0*,*-? 2*0',1'0*+1,*') ?.*/ / D1;',)*'65*' 1 ',) -, ')*' D*562')a.' =;D/>',*6>) 25.' ?69 25'A1;-2* .' ,)-1;5)',)*' +6- 1;.' ..6,*.' 1 ') 26' 2.,-;>, 25' 6// -629.' 1 ',)*' =*1=/*' 620' 56? 25' 6?*' 620' 0 .> =/*.' ,)1;7)' ?**, 25'M ,*2' 8 ,)' 1== 1. , 12' 620' *+*2' =*-.*^ >;, 12' 2') .' * 1-,.' 1'-*' 1-?',)*' ?622*-.' 620' D >,,*-' ,)*' >120 , 12' 1 ') .' >1;2,- ?*2¼ & / >2' , C +*' *6-.' 1/0')*' -*C*2,*-*0' =;D/>' / *' 6.' =- ?*' ? 2 .,*-' ,)-1-,' ,1',*.',)*' *>6>' 1 ') .' =-1=1.*0' ?*62.' 1 ' 6?*/ 1-6, 12¼ 2' ,)-**' I*6-.' ,' .' .6 0')*' D-1;5),' 6D1;,'6'>1?=/*,*' >)625*' 2' ,.' .1> 6/ 620' ?1-6/ >120 ^ , 12¼ : .' .;>>*..')18*+*-.' *L>,*0',)*' A*6/1;.' 1 ' 2* 5)D1- 25' =- 2>*.' 620',)-1;5)',)*' -' 2,- 5;*.')1' 86.' 1D/ 5*0',1' /**',1',)*' 21-,)' 1 ') 26¼ ,*-'.*+^ *-6/ ;2.;>>*..;/* 1-,.',1'1D,6 2' 1 >*' 620' 1==1-,;^ 2 ,*.',1',*6>)',)*' =*1=/*')*' -*, -*0',1',)*' 9 2501?' 1 ') 26' 8)*-*')*' / +*0' 2' 5-*6,'=1+*-,¼ : .' 0¶P>C ,- 2*..')18*+*-')60',69*2' -11,' D;,') .' - 5 0' =- 2> ^ =/*.' 620' =-6>,>*' ?60*') ?' ?62 ' *2*? *.¼ &)*2' ;// 1 ' *6-.' 2' >1?=62 ' 8 ,)' .1?*' >)1.*2' 0 .> =/*.')*' -*, -*0' -1?',)*' 81-/0',),)*' ? 5),' >1?=/*,*' 620' 6--625*',)*' 81-9.' 8) >)' ;20*-',)*' 26?*' 1 ',)*') 1 ' M1-' 119.X' >12., ,;,*',)*' .6>-*0' D119.' 1 ',)*') 2*.*' 620' .,620 25' 6,',)*') *60' 1 ',)*-'/,*-6,;-*')6 * 1-' ?1-*',)62' K ' *6-.' D**2',)*'-*>152 .*0' 6;,)1-, ' 2' ?1-6/ 620' =1/, >6/' >120;>,' 1-' 2*6-/ '12*',)*');?62'-6>*¼ 112' 6 ,*-',)*' >1?=/*, 12' 1 ',)*'

" ' 0 *0' /*6+ 25' 6' . 25/*' 0*.>*2062,') .' 5-620.12 ' >16-.*' . /9 ' 2' /6-5*' =6,>)*.' -.,' 1 *-*0' D10 / ' 2',)*' (.*C(.*' 8)1.*' 1 , .=- 25 ' 2 ; ? D*- 25' Y' :N ' 6D1;, ,*?=/*' 620',)*2',69*2'0182' 2,1',)*' >1 ;-,' 620' D ; -2^
' ?6/*.' ?1../ ' 1 ',)*' .*+*2, C 1 ; -,)' 5*2*-6, 12 ' *0 '),)6,' ,' ? 5),' D*>1?*' .= - ,C. /9' 2',)*' 1,)*-' 81-/0
1-?' 6' 0 .,2>,' >6.,*' 2') 2*.*' .1> *, ' ,)*' 12/ ' 2C ( )*' ;00) .,.' ;.;6//E ' 1 *-' -*60 C?60*' >/1,) 25
.,6?=*0' 12' =6=*- ( )*' ?6206-2.' .*20' 12 ;> ; .' ,)*' -68' ?6,*- 6/ DD;',)*' -.,' 5-6 '.,-*69 25.' 1 '
+*2*-6, 12' 1 ',)*') 2*.*' 1-' 12 ;> ; .' 6?1;2,.' ,1' ,)*' 0682' 1 '6' >/1;0 ' ?1-2 25',)*' >*-*?12 *.' *20*0 '
81-.) =' ,1' 8) >)',)*' .*>120' 620',) -0' ?12,).' 6-*' 0*^ ,)*,1->)*.' 8*-*' .;00*2/ ' *L, 25; .)*0 ' 620',)*' 1 ^
+1,*0 2' *+*- ' 0 .,- >,' 620' *+*- ' 0*=6-,?*2,',)*-*' >*-.' 620I,D* -' -*, 2;*.' ./18/ ' -*, -*0 I I " '& 9
.'6',*?=/*' *-*>,*0' 2') .')121-' M ;/D*-,.12;*=' 7 ' 'D 1' Q RX
()*' / *+ -' & *2,81-,) ' <*,)10 .,' = .>1=6/ ? .^ ,' 86.' ,)*' 5-1;,' 1DA*>,' 1 ' 12,;> ;.' ,1' -*5;/6,*'
. 126- '0,' , ;)C)6; ' 5 +*.' 62' 6>>1;2,' 1 ',)*' 81-.) =' ,)*' ?622*-.' 1 ',)*' =*1=/*' : *' ,)1;5),' 1;,86-0' 0*^
6.' 8 ,2* .*0' D ') ? .*/ ' 2' 6',*?=/*' 2',)6,'> , ' -1?' >1-;?',)*' =*1-* 1-*' 0 5*.,*0' 6//',)*' +6- 1;.' >*-*?12 *.' 2,1' 12*'
8) >)' 8*' ?6 2',*?=/*' 6,',)*' *20 ,')6.' 6' 2*' =1-^ ,)*' 5*2*-6/ >10*' 1 ' - ,*.' 8) >)' +\6.' >6//*0' *C9*' 1-' ^
, >1' 620',)*' -11 ' 8 ,) 2' .' .;.,6 2*0' D ' >1/;?2.' 1 ' 9 25 ' *,>' 2',) .' 81-9' *+*- ' - ,;6/' 2' 6//',)*' -*/6^
.1/ 0' 5-62 ,*' 1 ' *21-?1;.' . [*' ()*-*' 6-*' 21' 01/.' 620',)*' ?6 2',*?=/*' 6,',)*' *20 ,').' 6' 2*' =1-^ , 12.' 1 ') ; ?62'/ *' .',-> 5;/6,*0 ' .1',)6,'6',-;*'
D;,' 62>*.,-6/ ,6D/*,.' .;==/ ' ,)* -' =/6>*.' 2' ,)*' 5 /0^) 2*.*' .' 6' =*- *>,' 6;,1?6,12' =;,' 2' ?1, 12' D ',)*' -*5;/6, 12.' 1 ',)*' C9 25 1?*' 1 ',)*' -.*.' 6-*' .=*>,' 0;*',1'.;=*- 1-.',)_'0*>1-;?' 2',)*' D*)6+ 1-' 1 '
0' .)- 2.' 6-*' ,)1.*' 1 ',8*/+*' 1 ') 6' ?1.,'>*/*D-6,*0' 0 .^ ?1.' *L>*//*2,'7 ,)*' 0;, *7' ,186-0.' =6-*2,.' ,)*' -*^ D;,') .' .;D.,.;, 25' >*-*?12 ' 1-' . ?=/> , '620',-;*' >1>?? 12' / *' *,>' ==*69') 5)/ ' 2' 6+1-' 1 ' 12 ;> ; .' ?62' *L>*//*2,' ?6L ?.' 620' 2>;/>6,*.' ?1-6/ , ' D;,'
> =/*.' . L' 12' *6>)' . 0*' ()*' 81-./ =' 1 ',)*' =) /1.1^ =1/ ,*2*..' .' ;2=6-0126D/*' ()*' A7C9 25' >12,6 2.' ,' 6.)1' 6-*' / ,*-6- ' 5-60;6,*.' 1 ',)*') 5)*.',0 .,2>^ ,186-0.' ,)*' -' 8 +*.' 8*-*' ./ 5),/ ' 08*/,' ;=12' ,)*' ,)6.' >1?*' ,1' ;.' 2' 6' ?;, /6,*0' .,6,*' 8 ,)' ?62A' 2^
- 2. ' 8)1' 6-*' / ,*-6- ' 5-60;6,*.' 1 ',)*') 5)*.',0 .,2>^ =1/ ,*2*..' .' ;2=6-0126D/*' ()*' A7C9 25' >12,6 2.' ?62 ' *L>*//*2,' ?6L ?.' 620' 2>;/>6,*.' ?1-6/ , ' D;,' , 12 ' 6-*' ,)*' 12/ ' =- *.,.' 8)1' 1 >6,*' ;=_2',)*' 1>>6^ ,)6.' >1?*' ,1' ;.' 2' 6' ?;, /6,*0' .,6,*' 8 ,)' ?62A' 2^
. 12 ()*' .6>- >*' ,69*.' =/6>*' ,8 >*' 6' *6-' 2' ,)*' ,*-=1/6, 12.J' M4;,[/6 ' $ '" ' " ' # 8
.*>120' 620' * 5),)' ?12,).' ,' .' =*- 1-?*0' D* 1-*' 2',)*' 8- , 25.' 1 ' 12 ;> ;.',)*' 0;, *.' 1 ');.D620.'
06 / 5),' 2',)*' ?1-2 25' 620',)*' >1?12' =*1=/*' 6->' ,186-0.' ,)*' -' 8 +*.' 8*-*' ./ 5),/ ' 08*/,' ;=12' ,)*' 0;, *.' 620' ?=/ > ',.;D? .. 12' 1 '>) /0-*2',1',)* -' =6-^
- 5 0/ ' *L>/;0*0 & *' 8*-*' 62')1;.',11' *6-/ ' D;,' *2,.' 8*-*' ?1..' -50 A17 2>;/>6,*0 $=12',) .' 8 0*' D*,,*-',)6,',)62' +*' ? 2;,*.',11' /6,*' ()*' ?6206^ ?1-6/ 620' =1/ , >6/' .' 1;20*0' ' 6? / ' .',)*' =-1^
- 2.')60' 21,' *,' ?60*' ,)* -' 6==*6-62>*' ' D;-.,' 1 ' =- 2> =/*' 1 ' / 6/ 1D*0 *2>*' ,)*' 8)1/*' 1 ') .' . .,*?' *2*-*' .*2,.' 8*-*' ?1..' -50 A17 2>;/>6,*0 $=12',) .' 8 0*'
?;. 2 ' 6' ?6206^ ?1-6/ 620' =1/ , >6/' .' 1;20*0' ' 6? / ' .',)*' =-1^ ?;. >' 20 >6,*0',)*' >1? 25' 1',)*' ?6526,*.' ()*-' ?1-6/ 620' =1/ , >6/' .' 1;20*0' ' 6? / ' .',)*' =-1^
-.;' D;. 2*..' 86.' ,1' 5*',)*' 78)625C9**C625. 7' ` 1-7' ,1, =*' 1 ',)*' 26, 12' 620' 2.,*60' 1 ',)*' 21, 12.' 1 ' 2C
* 52' D6D *. I' 1;,' 1 ',)*' .6>-*0' =-*> 2>,. ' 620' 6' ?6206^ 0*=*=0*2>*' 620' *_;6/ , ' 6?125' ?*2 ')*' *2 1->*.',)*' ?1-6/ 620' =1/ , >6/' .' 1;20*0' ' 6? / ' .',)*' =-1^
- 2' 1 ') 5)' -629' >6?*' ,1' -*_;*.,' ;.' ,1' 51' 1;,. 0*' =- 2> =/*.' %1 ' 0*=*20*2>*' 620' ;D1-0 26, 12' ' 6.' 1 ' >) /0-*2',1' =6-*2,.' ,)*' 1;25*',)*' >) /0-*2',1' =6-*2,.' ,)*' 1;25*',)*' *0*-' '
& *' 6.9*0') ?C,1' /*,' ;.' ,620' 2*L,'12*' 1 ',)*' 5-*6,' 62' *6. ' >, 12',)*' *?=*-1-' .,620.' 6.',)*' 6,)*-' 1 '
011-.' 12',)*' =1-, >1' 1;,. 0*' (1',) .')*' >12.*2,*0' 6//') .' .;D*>,..' 620' .',) ;.' *2, /*0',1',)* -' =6.. +*' ,
()*' =/6, 1-?' 86.' >/*6-*0' 620',)*' >*-*?12 *.' D*562' 1D*0 *2>*' 620' 6.' -' <1-- .12' 1D.*-+*.' ' ' .' =-1D^
()*' 06-92*..' 86.' 0 .=*//*0' D '-18.' 1 '56;0 '/62,*-2.' 6D/ ' M)1' ? 5),' .6 ' >*-,6 2/ X',) .' *6,;-*' 1 ') .' 01>^
620' 6' 1-*.',' 1 ' D/6[25',1->)*.' ()*' >1;-,' 86.' //*0' ,- 2*.' 8) >)')6.' ?60*' 12 ;> ;.' .;>)' 6' 6+1-,*' 8 ,)'
8 ,)' ?6206- 2.' 620',)*' -' .*-+62,.' - + /*5*0' .=*>^ 6//',)*' 51+*-2?*2,.' 1 ') 26' 8)*,)*-' 1 ' 26, +*' 1-'
,6,1-.' -1?',)*' / ,*-6- ' >/6..*.' 8 ,)' ,)* -' 6,,*2062,.' (6-,6-' 1- 5 2' 1-' .1' ?62 ' >*2,;- *.' ,',)*' .6?*'
>-180*0' 6//',)*' 6+6 /6D/*' .=6>*' D*/18 2' -12,' 1 ' , ?*',.)1;/0' D*' 1D.*-+*0',)6,',)*' .;206?*2,6/ 01>^
,)* 5-*6,' >*2,-6/ 011-' 1 ',)*' ,*?=/*' 12',)*' =1-, >1' 620' =;. //62 ?1;.' 620')6.' 1.,*-*0',)*' 5-18,)' 1 '
86.' 6' D620' 1 ' ?;. > 62.' 8 ,)' /;,*.' 620' `.1 ,'-*>1-0^ 6' 26, 126/ >)6-6>,*-',)6,'>6221,' D*' -*0**?*0' D '5*2^
-. I' 620' 621,)-' 1 'D1 .' 62,6., >6// '0-*..*0' & ,)^ ,/*2*..' 1 '0*=1-,?*2,' 620' 1-0*-/ 2*..' 1 '>120;>,
2' 8*-*' ?;. > 62.' >)62, 25' +1>6//A ' 6>>1?=62 *0' D ' 12 ;> ;.' 86.' 6' ,*6>)*-' 1 ' ?1-6/.' D;,' 21,' ,)*'
,)* 2.,-;?*2,.' 8 ,)1;,' ,)*' =-6 .*.' 1 ',)*' .65*' ()*' 1;20*-' 1 ' 6' ?1-6/.' D;,' 21,' ,)*' 0*=6-,?*2,' 1 ' ?1-6/.'
/1;0' +1 >*' 1 ' 6' >- *-' 8 ,) 2',)*' ,*?=/*' 620',)*' /1;0' 1;20*-' 1 ' 6' ?1-6/.' D;,' 21,' ,)*' 0*=6-,?*2,' 1 ' ?1-6/.'
-*.=12.*' 1 ' 6')*-6/0' D*/18 20 >6,*0',)6,' 6// 86.' 620' =1/ , >.',)62' 62 ' =6-, >;/6-' -*/ 5 1;.' 6 ,)' M 6^
-*60 /1;0.' 1 ' 2>*2.*' //*0',)*',*?=/*' 8)/*,81' + .X -26;/0' 620' 1,)*-' 8-,*-.')6+*' D-160/ ' 6.7-,C'
1-',)-*** ?6206- 2.' 2' ;// 1 > 6/ 0-*..' 620' >6=.'=-*^ *0' 0' 21,' -*>152 .*',)*' *L .,*2>*' 1 ' 6' 410'
>*0*0' D ' 6,,*2062,.' 6.>*20*0',)*' .,*=.' 620' *2,*-*0' M 6 /*' ' ' 2' 6-,' 8' 2') .' =) .>.' 12^
8 ,)',)*')*60',1',)*=6+*?*2,' D* 1-*',)*' .)- 2*.' .;>^ ;> ;.' ?6 2,6 2.',)6,' 1 ;.' 1 ' 21,) 25',)*-*' >6221,'
>*.. +*/ ' 620' 1 *- 25',)*' +6- 1;.' 6-,>/*.' =/6>*0' 2' D*=-10;>*0'62 ,) 25' ,)6,' ?6,*- 6/ D10 *.' ?;.',)6+*'
,)* -')620.' D ',)*' 6,,*2062,.' 1-',)6,'=;-=1.*',1' 12^ *L .,*0' -1?' 6// *,*-2 ,' ,)6,',)*' >6;.*' 1-' =- 2> =/*'
;> ;.' 620') .' 6+1-,*' 1//18*-' ()*' 86.' -*=*6,*0' 1',)*' >*-*' -*, - 25' 620' -*^ 0 5*.,*0' 2,1' 12*' 5*2*-6/ >10*' 1 '-,*.' MU C I X' 2' 8) >)'
2,- 25' 8 ,)' ,)*' .6?*' ..6,*/ ' >*-*?12 ' 12' *6>)' 1>^ 1 ') ?' 6' =5' ,)* -=1=*-' -,;6/ 1-' 6//',)*' -*/6, 12.' 1 '/ *' .' =-*C'
>6. 12 ()*' 1 *- 25.' 8*-*' 62 ?6/ 620' +*5*,6D/*' 2 2 ,*' 20*.,-;>, D/*' I .>-*0^ *?12 ' 62' 71 >6/ 92**/*0' D* 1-*',)*' .)- 2*' 1 ' 12^ ()*' . .,*?' 1 ' 12 ;> ; .' 620' 1 ' 6+1-,*' 1//18*-' ()*' 86.' -*=*6,*0' 1',)*' >*-*' -*, - 25' 620' -*^
/6 ' .)-1;0*0',)*' >6->6.*' 1 '6' 8)1/*' 1L' 0*^ 0 5*.,*0' 2,1' 12*' 5*2*-6/ >10*' 1 '-,*.' MU C I X' 2' 8) >)'
2;0*0' 1 ') .' .9 2' 620' 12' * ,)*-' .0*' 1 ') ?' 6' = 5' ,)* -=1=*-' -,;6/ 1-' 6//',)*' -*/6, 12.' 1 '/ *' .' =-*C'
620' 6' 516, 2',)*' 6/,6-' 8*-*' +6.*.' 1 ' /18*-.' 620' .-> M X*0 (1',)*' 2 /;*2>*' 1 ',) .' >10*' ?6 'D*' -* *--*0'
=/6,*.' 1 ' >119*0' =-1+ . 12. ' 12*' =1 2,' 2',)*' >*-^ ,)*' 6;,1?6, >')6-6>,*-' 1 ') 2*.*' / *' &) /*' ?62 '
*?12 ' 62' 71 >6/ 92**/*0' D* 1-*',)*' .)- 2*' 1 ' 12^ 1 ') .' 01>,- 2*.' 6-*' 0*.*-+ 25' 1 ') 5)' =-6 .*' 620' ?6A7
;> ;.' 6,' 6' -*.=*>, ;/ 0 .,62>*' 620' 2' 6' /1;0' +1 >*' A;,/ ' >/6 ?',1' -629' 2' 6' ?1-6/=1 2,' 1 '+ *8 ' 6D1+*
)62,*0' 6' =-6 *-' 1-' 6') ?2' 1 '=-6 .*' ()*' 1-0 26- ' ,)*' *,) >.' 1 '4-**>*' 620' 1?*',)*' *' 6// .)1-,' 1 ',)*'
>)62,.' 8*-*' +*-. ?=/*' >12. ., 25' 1 ' 1;-' 21,*.' =*-^ */+6, 12' 620' 6?*/ 1-6, 25' =18*-' 1 ',)*' <1.6 > 620'
=*,;6// '-*=*6,*0',) ;.a)-.,)2' >10*. C8) >)' ,)*'*2> >/1=*0 .,' 8-,*-.' 1

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()*' /6.,' 1 *- 25' 86.' ?6,*- 6/ 1-' >/1,) 25' 6' .1-,' 1

)*' * 5),**2,)' >*2,;- '6..*-,*0' 8*-*' *_;6//*0 ' '21,' .;-=6..*0' D ' ,)*?% (1' .)18*' ,)*' 6/. , ' 1 ' .;>)' .,6,*?*2, ' 8*' 2**0' 12/ ' >12,-6.',)*' -*. ;/,.' 6>) *+*0' " ',)*' 0*+*/1=?*2,'1 ',)*',81' . .,*? . ' .,6-, 25' -1?' 8)6,')6.' D**2' >/6 ?*0',1' D*' >1526,*' 01>,- 26/ D6.*.% 1;20 25') .' . .,*?' ;=12' ,)*' 0 ; , ' *2%1 2*0' 2' ,)*' ,)' >1? ?620?*2,'1 ',)*' *>6/15;,*' 12 ;> ;.' 2>;/^ >6,*.' 2' .;>)' 8 .*' 0*=*20*2>*' 620' . ;D1-0 26, 12 ' -.,' 1 '>) /0-*2',1' =6-*2,. ',)*2' 1 '> , [*2.',1',)* * ?=*-1-' ,)*' -*=-*. *2,6, +*' 6,)*-' 1 ',)*' .,6,*' 6.',1'5 +*',1',)*' ?=*- 6/ =18*-',)6,'0*.=1,>' >6.;' -) >D'8) /*',')6.' ?60*')?' .1'5-*6,'6' 6+1-,*' 8 ,)' 6//*51+*-2?*2,.' 2') 26' 26, +*'1-' (6-,6-')6.'2*+*-,)*/*..' ;201;D,*0/ ' ,*20*0',1' >)*>9' =-15-*..' 620' ?69*',)*' =*1=/*' 0*>*.,^ ;/620' =;. //62 ?1;.',)1;5)',)*' /125C>12, 2;*0' *L^ .,*2>*'1',)*' -'26, 126/ , '+ 20 >6,*.',)*'=-1? .*' ?60*' D ' 410' 1 '/125'/ *',1',)1.*' 8)1')121-',)* -'=6-*2,.' 1-',) .' 2A;2>, 12 ' ,' 81;/0'.**?' ,)*') 2*.*' 1D*' D* 120'6//' 26, 12.'1 ',)*' *6-,)% : .' >*/*D-6,*0'Z26LC ?'1 '2*56, +*' -*> =-1> , ' ' &)6,7 1;' &1;/0'21,'8 .)' 012*',1' 1;-./ ',)6,'01'21,',1'1,)*-.J' I1& f'L+ 'KNX' ,/ ' >12,-6.,',)*' ?? 1D /*' ./ .)' .= - ,' 1 ' 12 ;^ >62 .?' / ? ,*0' 2' ,.' 6 ?.',1') 26' 12/ ' 8 ,)',)*' 6>, +*' -*> =-1> , ' 1 ')- .,' 5%1/0*2' -;/*' 8)1.*' =-1^ 5-*.. +*' .%X - ,'*? ID-6>*.' 6//',)*' 8 1-/0% &)*,)*-' 12 ;> ;.' -*>152 .*0',)*' *L .,*2>*' 1 '6' =*-.126/ 410')6.'D**2'_;*., 12*0',)1;5)',)*'-*/ 5 1;.' >*-*?12 *.' 1D.*-+*0' D ') ? ' 620' >*-,6 2' *L=-*.. 12.' 1 ') .' >& ' ' N' 620' L +' NX ' :*' 8)1' 1 *20.' 656 2.,' :*6+*2')6.' 212*',1' 8)1?')*' >62' =-6 J' ;',)*-*' .' :*6+*2',)6,'9218.' ?*J ' 6-*' ;-5*0' 6.' =-11 .',)6,')*' 0 0'M.**' =-* 6>*',1',)*' ?*-% *0% 1 ',)*' -*>*2,',-62./6, 12'D ' -% *55*X% :*' ?6 2,6 2*0',)6,' F' "2 ' +2 '620'>12.*_;*2,/ ',)6,'?6,,*-' .'*,*-^ 26/T ,)6,',)*' >6;.*' 1-'=- 2> =/*' 1 ',) 25.')60' 6' >1*L^ .,*2>*' 8 ,)',)*' ,) 25.',)*?.*/+*.' 620',)*-* 1-*' 6/.1' .' *,*-26/' 2 2 ,*' 20*.,-;>, D/*' 1?2 =1,*2,' 620' 1?2 =-*.*2,')6+ 25',)*' D/;*' -?6?*2,'M(*2X 6.',)*' >*2,-6/ =1 2,T ,)*-* 1-*' 1 *- 25.'=-,>;/6-/ '6',)*' *_; 21L*.' .)1;/0' D*' ?60*',1' (*2% * ,)*-' 12 ;^ > ;.' 21-') .',-;*' 1//18*-.')6+*' *+*-' -*=-*.*2,*0',)*' 4-16,' -.,' 6;..*' D '62 ' ?65*% ()*' ?65*.' 620' 01/.' 1 ') 26' D*/125',1' 1,)*-' 6 ,).%J' ()*' 01>,- 2*' 1 ',)*' .1;/.' ? ?1-,6/ , ' .' ?=/ *0' 2',)*' 81-.) =' =6 0' ,1' 62>*.,1-.' 620',)*' 6D.*2>*' 1 ',)*' 81-0' 0*6,)' -1?') .'=) /1.1=) % &)*2' 6'=*-.12' 0 *. ',)*') 2*.*' .6 ')*)6.' -*,;-2*0',1') .' 6? / %J' ()*' .= - ,.' 1 ',)*' 5110' 8*-*' 6>>1-0 25',1') ? ' =*-? ,,*0',1' + . ',)*' -' 62> *2,')6D ,6, 12.'12' *6-,)' 1-' .;>)'62>*.,-6/ D6//.' 1-' =/6>*.' 6.' 8*-*' 6==1 2,*0' D ',)*' -' 0*.>*2062,.' ,1' -*^ >* +*')1?65*' 620' >12 *-' D*2* 6>, 12.% : *2>*' ,)*' 0;, ' 1 '=*- 1-? 25' .6>-*0' - ,*.' 2' .;>)'=/6>*.' ;20*-' ,)*' =*26/, ' 2' ,)*' >6.*' 1 ',)1.*' 8)1' 8) /*' / + 25' 2*5/*>,' .;>)' 0;, ' 1 ',)*' -' .= - ,;6/' =6-,' D* 25' 0*^ =- +*' 6 ,*-' 0*6,)' 1 ',)*' .;=-*?*' D/ ..' /18 25' -1?' ,)*')1?65*' 1 '0*.>*2062,.% ()*' 6 ?' 1 ',)*' / + 25' .)1;/0' D*' ,)*' 6,,6 2?*2,'1 '=*- *>,'+ -,;*' D ',)*' 1/P' .*-+62>*' 1 ',)*' +*' ;206?*2,6/ /68.' 1 ',)*' -*/6, 12' D*,8*'2' -;/*-' 620' .;D A*>,' =6-*2,.' 620' >) /0-*2');^ D620' 620' 8 * ' - *20.' 620' D-1,)*-.' 620',)*' =<6>, >*' 1 ',)*' +*' >6-0 26/ + -,;*. ' ');?62 , 'A;., >*' 1-0*-' -*>, ,;0*' 620' . 2>*- , ' 1-' 5110' 6 ,)% ',)*' +*' >6212 >6/)119.' >1?=1. 25',)*' 25' ,)-*** M C 25') C 25' 620');C 25X 8*-*' >1?^ = /*0' 620' 12*' M) ;2C(. *2X 86.' >1?=1.*0' D ' 12 ;^ > ;.' 8) /*' 12*' M C X' 86.' >1?= /*0' ') .',*6>)^ 25.' D ') .' 0 .> =/*.' 620' D-1;5),',1' ,.' =-*.*2,' 1-?' .1?*' *2,;-*.' 6 ,*-') ?% ()*' -.,' M C 25' 119' 1 ')625*.X' 6.. 52*0' D ',-60 , 12',1',)*' ? ,) >6/ * ?^ =*-1-' ;) 'M % %KQ X' 6.' ,.'6;,)1-' .' '. ?=/ '6'2;?^ D*-' 1 ' 5;-*.' ?60*' ;=' 1 '.,-6 5),' /2*.' *2, -*' 620' D-19*2 '+6- 1;./ ' =;,' ,15*,)*-' 2' =6-6//*/ 6--625*^ ?*2, J' 620' 8) >)' '6-*' -*56-0*0' 6.', = 25',)*' *^ ?*2,.' 620' =-1>*..*.' 1 '26,;-*' 620',)*' 5-*6,',-;,).' 1 ' ,)*' ?1-6/ 620' 2,*//*>,;6/ 81-/0 J' 620' *L=-*.. 25' ,)*' *6-/ *.,' >1.? >6/ =) /1.1=) ' 1 ',)*') 2*.*% (1' ,)*' D- * ' *6-/ ' 2,*-=-*,6, 12' 1 ',)*.*' *?D/*? 79 >' 5^ ;-*.' 12 ;> ;.' 600*0' 6' -//*-' 12*' 1 ') .' 182%J' 3 ()S' .*>120'M) C 25' 119' 1 ' 125.X' .' 6'.*/*>, 12' 1 'N ' = *>*.' 1 '/ - >' =>*,- '-*/6, 25',1' ?1-6/ .*2, ?*2,. ' =;D/ >'620'=- +6,*'6 , 6 -.'6.') 6-+*., 25 ' ?6-- 65*' *,>% 8 ,)' =-6 .*' 1 ',)*' 5110' 620' >*2.;-*' 1 ',)*' 8 >70' ()*',) -0' 620' ?1.,' ?=1-,62,'M);C 25' 119' 1 ' 2' 26/.X' .' 6') .,1- >6/ 81-9' -*>1-0 25' 21,' 12/ ' *+*2,.' D;',)*' ?6L ?.' >12+*-.6, 12.' 0*>-**.' 620' 2../,;' , 12.' 1 ',)*' .1+*-* 52.' 1 '62> *2,') 26' 0-682' >12^ *..*0/ ' -1?' 6;,)*2, >' .1;->*. ' 620' >1? 25' 0182',1' 6D1;,'K ' *6-.' D* 1-*' 12 ;.%' ()*' 1);2C (. *2' =- 25' 620' ;,;?2X' >1?=1.*0' D ' 12 ;>;.' 6.' 6' .;==/*?*2,',1',)*',) -0' -*>1-0.' -1?' ?*?1-6/.' 1 ') .' 26, +*' 9 2501?' ;',)*' *+*2,.' -1?' 258625',1' % % S ' () .' .',)*' 12/ ' 81-9' >1? 25' 0 -*>,/ ' -1?',)*')620' 1 ' 12 ;> ;.% ()*' ,/' M C ' 1,9' 1 ' .*.X' .' 6' >1?=/6, 12' D-1;5),' 2,1' ,.' =-*.*2,' 1-?' .1?*' >*2,;-*.' 6 ,*-' 12 ;>;.' 620' ?60*' ;=' -1?' ?6,*- 6/ 1 '+*- '0 *-*2,' 65*' 620' >)6-6>,*-%J' ,' .' 6',*L,CD119' *.=*> 6// ' 1 ' >*-*?12 6/ 620' *, ^ _;*,,*' 2' 8) >)' ,)*' =*-.126/ ,*6>) 25.' 1 ' 12 ;> ;.' 1>>;=' 62' ?=1-,62,'=/6>*% : .'01>,- 2*.'6-*' 6/.1'.*,' 1-,)' 2',)*' : 61C 25' M / 6/ *, X' D ' 621'6212 ^ ?1;.' 8-,*-' 8) >)' >12,6 2.' 6=1,)*5?.' 1 ' 12 ;> ;.' % >1//*>,*0' 0;- 25') .' >12+*-.6, 12.' 8 ,)') .' 0 .> =/*' (.625C(.62' 620' 2',)*' 1;-') 2*.*' >/6.. >.',*-?*0' .SC.);'+ [%M X' (6) .'M4-*6,' *6-2 25' 1-'01>,- 2*' 1-' 60;/,.X'>12. ., 25' 1 '.*+*2'+*-..*.' 1 ',*L,' -1?' 12 ;^ > ;.' 8 ,)',*2' >)6=,*-.' 1 '>1?*2,6- ' D ' (.625T MKX') ;25C 6 5' M,)*' 1>,- 2*' 1 ',)*' <*62X' D ' (.SC,.*' ,)*' 5-620.12' 1 ' 12 ;> ;.T MQX ;25C ;' M>12+*-.-C' , 12. ' -*=/*.X'>12+*-.6, 12.' 1 ' 12 ;> ;.' 8-.,*2' D ' ,81' 0 .> =/*.' 6 ,*-') .' 0*6,)T M X',)*' <*25C,.*C.);' 7)*' 81-9' 1 ') .'5-*6,'0 .> =/*' <*25C,.S'M<*2> ;.X' 8)1' / +*0' 6D1;,' % %N '620' -629.' 6?125',)*') 2*.*' 2*L,',1' 12 ;> ;.' 6.' ?120 .,' 620' =) /1.1=)*-% -* *55*' .' 218'=;D/ .) 25' 6//',)*') 2*.)' >/6.. >.'5 +^ 25' 1-5 26/ ,*L,.' +*-. 12.' 620' / ,*-6-' 6==6-6,;.' 1;-'+1/;?*.) 6+*' 6==*6-*0' M:D25' 125XT .*' 6/.1') .' *' ' -" ' 'M 120% Q4 ' / /6% QS % K?1XT : ;*' - !' '" ' " 1'6 % 'M % %' : 6-=*-.'K+1/.% K?1XT 7 =6 1' *D% Q R'=% SC K T 6 5 !' =- / Q '=%KKNC 'M ?*-*0%XT' !'5 !'L 'NNKT ;/D*-,.12' " 1' '5 ' ' $ % 'M % % Q ' '+1/% K?1XT ; !'$ ' <6 ' Q S'6-,% T -" ' " ' '=,% ' =' & 1->*.,*-' <6..'M6',-62./6, 12' 1 ',)*' & ' " ' ? ' ' ' " ' ' ' ' 8',69*2' -1?' -% *55* .'/6-5*-' 81-9T <6-.)?62' +' ' $ " ' ' !' " 'M*-6?=1-*' Q R ,1XT /6,) ' ' !' ' 'M<;2>)' QS '+1/% XT <6;^ ->*'5 ' " ' 'M 120% Q SXT " !'6 1' ' *=,% Q QT :6-08>9' " ' ' " ' 9 'D9%A '>)% T 11?.' ' ' " ' " ' QS T ; !' !'5 !'B62% QS % ** ' ! 12 ;.12' 'O !' **'O $ ': $L ' 3 1257'07/-*'6' -*2>)',*-?'.52 25' " !' .' .';.*0' 2' 25/620',1'0*21,*',)*'9 25.' 8-,'1-'/>*2.*',1',)*'0*62'620')6=,*-'1',)*'01>*.*' ,1')11.*'6'D.)1=' 2',)*',?*'1 '+6>62>'1 !,)*' .**% - 1-',1',)*-*52C'1' 086-0' ',)*'9 25.'1' 25/620' ;.*0',1' 2+*.,'D.)1=.'8 ,)',)*' - 25'620' ,6 ' 2' + -^ ;;*'1',)*-'0126, +*'-5),% : *2-A7'.1' 6-'>*0*0',).' - 5),'6.',1'5 +*'6' (,1'0 62.'620')6=,*-.' 1-',)*'*/*>, 12' 1 'D.)1=.% : *2- ' '600*0' /*,^ ,*-.' ? .. +* J'21? 26, 25',)*'=*-.12'8)1?')*-* _ ; -*0' ,)*?',1'*/*>,' ;20*-'=6 2'1 '=-.*? ;2D*T 620' 086-0' 'M' 08% '>' 'KX 6D1/.)*0'*/*>, 12.' D ' 8-,'1' (') ;',)* ' 8*-*' -*+ +*0' D ' _;**2' /[6^ D*,)% ()*' ' (' .' 218' 6' ?*-*' 1-?' 6.' /7*' 21? 2**'1',)*'>-182' .' 2+6- 6D/ '>)1.*2' D ',)*'0*62' 620'>)6=,*-%

1251'6'>1;2,- '1'&*.,*-2' ->6'*L,*20 25' -1?' /6, ,;0*'Sj',1'Qj'K ' % ,'86.'0 .>1+*-*0' 2' Q'D' ,)*' 1-,;5;*.*'8)1'.112'6 ,*-86-0.'?60*'.*,,/*?*2,.

620' *-*>,*0' 1-,.' 6/125' ,.' >16.,% ' *8' *6-.' 6 ,*-' 1? 2 >62' ?129.' 8*-*' 6*/ ',)*-*' 6.' ? .. 126- *.' 620' 2' R ',)*' =- 2>*' 1 ' 1251' 86.' D6=, [*0' ;20*-' ,)*' 26?*' 1 ' ?62;*/% ()*' ? .. 126- *.',)*?.*/+*.')18^ *+*-'60? ',),6',)*'/ *' 1 ',)*' =- 2>*' 6 ,*-') .'D6=,. ?' -*2/6 2*0' +*- '/>*2, 1;.% : .'.12' /=)12.;.' '8)1' -* 52*0' , ' *6-..'.*2,'6?D6..601-.',1' 1?*'1 '8)1?' .*+*-6/ 8*-*' 1-06 2*0'=- *.,.% ()*' 2*9,'9 25' *,*-' 1D,6 2*0' 1-' 1251'6'.=*> 6/D .)1=% ()*' 1//18 25' 9 25.' -*?6 2*0' 8 ,)',)*' =*1=/*' 21? 26/ 60)*-*2,.' 1',)*'); >)' 1 ' 1?*' D;,'=-6>, >6// ' 2',)* -' 1= 2^ 12.' 6.' 8*// 6.',)* -'/ +*.',)* '-*/6=.*0' 2,1',)*' 81-.,' 9 20' 1 ' *,>) .?% ()*' * 1-,.' 1 ' 1?62' 6,)1/ >' ? .. 126- *.',1' 2,-10;>*' -* 1-?.')6+*' D**2' -;,/*..% 1251' .' 21? 26// ' ., // 62' =.>1=6/ .**' D;,'6,'=-*.^ *2,' ;2,*0' 8 ,)',)*' 1-,;5;*.*' 0 1>*.*' 1 ' 251/6'M_% '' 1?*' 1?62' 6,)1/ >' 8- ,*-.' M6.' % 6-/ +% : *%/1 .'D " "' !') + 1' 6, .D12' QNK'>/6 ?' 1-',)*' 0 1>*.*' 1 ' 12' 6' 1?62' 6,)1/ >' =1=;/6, 12' 1 'Q '620' 1-',)6,'1 ' 251/6' 1 'N % ' < *,[*-' f ;%&*/,*') " = 1 ' ' Q %

125-*56, 1'0*' 6;L / .' 0 + 2.*' 5-6, H*' .' ,)*' 26?*' 5 +*2',1' 6' >1??.. 12' 1-?*0'D '=1=*' /*^ ?*2,' 2' RQ',1' *L6? 2*' <1/ 26 .' M_%' +%' D119' *2, ,/*0' ' ' ' ! () .' 81-9')60' D**2',)*' >6;.*' 1 '5-*6,'0 .=;,*.' D*,8**2' ,)*' B*.;,.' 620',)*' 1? 2 >62.' 620' ,' 86.')1=*0',)6,' ,)*' 2+*., 56, 12.'1',)*' >1??.. ' ' 12' 81;/0'.*,,/*',)*.*' 0 >;/,*.% ()*' ' ' ' 6 ,*-',-)-**' ?12,).'0*> 0*0',)6,',)*' B*.;,.' 8*-*' 2',)*' 8-125' 2' ?1.,'1',)*' >12,-1+*-,*0'=1 2,.% 2.,*60'1'.;D? ,^ ,25',1',).' 0*>. 12',)6,'=18*-;/1-0*-' ?6265*0',1' 2+* 5/*',)*' > + /6;,)1-,*.'620'*+*2'9 25.'620'*?^ =*-1-.' 2,1',)*' _;6--*/% ,*-'>1//1_;*.'D*,8**2',)*' ?1.,'>*/*D-6,*0',)*1/15 62.'1',)*',81'=6-,*.')60'/*0' ,1'21'-*.;/,' 2' SRK',)*'=1=*' 1-0*-*0',)*'>12,-1+*-.' ,1'D*'0.>;..*0' 2')' 182'=-*.*2>*% ()*.*',-62.6>^ ,12.'/6.,*0';2,/' S S% ()*' 1? 2>62.'.,//,-*0',1' .)18',)6,',)*'01>,-2*.'1'<1/2$'8*-*' *? =*/65 62' *--1-.'620',)*'B*.;,.'>)6-5*0',)*-'1==12*2,.'8,)' 6/+2.,>'+*8.% 1=*' /*?*2,' '8)1'=*-.12^ 6// ℃. ?=6,)[*0'8,)',)*'+*8.'1',)*' 1? 2>62.' -*.1/+*0',1'-*60',)*'D119') ?.*/ 'D;,'D* 1-*')*'>1;/0' 01'.1')*'0*07M S X% ;-25',)*'>12>/6+*' 1//18 25' /.'0*6,)'*+*-'>6-0 26/')60',1',69*'62'16,)',),6,' */*>,*0'=1=*')*'8C1;/0'D- 25',)*'>12,-1+*-.'6.'.112' 6.'=1..D/*',1'6'>/1.%() *'2*8'=1=*' 6;/'>12.*^ _;*2,/'0..1/+*0'2'S ',)*'>125-*56, 12'620'2'62' *2>/>6'600-*..*0',1',)*'5*2*-6/.'1',)*'B*.;,.'620' 1? 2>62.'620'8)>)',)*/6,,*-')60',1'>1??;2>6,*' ,1'6//',)*'=-1+ 2>6/.'1',)*',81'1-0*-.'6//18*0'D1,)' =' -,*.',1'-*,6 2',*6>)'620'0*'20',)*-'1=2 12.'620' 1-D60*',)*?',1')6-5*',)*'1,)*-'=6-,'8,)')*-*. % f() .'0*>.12'86.'>12 -?*0'D '6'>12.,;,12'1' >,% K NN% 112'6,*-',)*'0..1/;,12'1',)*'*=25-*56^ ,12',)*'5*2*-6/'1',)*'B*.;,.'=-*.>-D*0',)6,'2',)*' .>)11/.'1',)*'1-0*-'6'.1?*8)6,'?10 *0'1-?'1'<1^ /26.'+*8.').)1;/0'D*',6;5),% .'.1?*'1',)*'B62^ .*2.',)*1/15 62.'?6 2,6 2*0',)6,'6;/')60'-*6// *>120*?2*0',)*+*8.'1'<1/26'2'6'.=*>6/>12.,,;,^ ,12'8)>)',)*'B*.;,.')60'.;D.*_;*2,/'20;>*0')?' 21,',1'=;D/.)'=1=*' 221>*2,'d'2' S '0*>/6-*0',)6,' .;>)'6'>12.,;,12'0 0'21,'*L.,% *+*-,)*/*..',)*' 6>>1;2,.'1',)*' 1? 2>62'620'B*.;,'8-,*-.'1',)*').,1-'1',)'.'>1 7-*56, 12')6+*'2*+*-'D***2')6-?1^ 2[*0% ' &*,[*-';%2*/,*) " = ' ' QS%

125-*56, 12'M;.;6// % "E'1-'=*-)6=.' ?1-*',*>)2>6// ' + " E'D1,)'1,*2'-*20*-*0 6..*?D/TJ'4-%,>>d-TZ-61-' 8E'6',*-?',)6,' 0*.>-D*.',)*:*D-*8'=*1=/*'2',..'>1//*>,+*'>6=6>,'?;20*-',.'=*>;/6-'6.=*>,'6.'6')1/''>1??;2,''))*/0' 15,*,)*-'D'-*/5 1;.'-6,)*-',)62'=1/,>6/D120.% 1?*,?*.',.';.*0'2'6'D-160'.*2.*'6.'2>/;.+*'1' 1-*52'.*,,/*-.'M L10'L 'Rd'D;,'?1-*'=-1=*-/'6.' *L>/;.+*/''6==-1= 6,*',1',)*':*D-*8'*/*?*2,'1',)*' =1=;/6, 12'M ;?'L+' SXT'2'*6>)'>6.*',*L=-*..*. ,)*'0*6'1',)*'1?62' '1-',)*'4-**9' -1dI2/1-% ** !' +*-'>->;?>.*0':*D-*8' 1 C .' %)1?*CD1?J' D1-2'2',)*' /620J',)*',*-?'.=*>6// '0*.>-=,+*'1',)*'.-6*/,*' 2'1==1.,12',1',)*'212C.-6*/,*'L10%L ' RT' *+% L+ 'KRT' ;?%L ' X'86.'6'?*?D*-'1',)*'>125-*56^ ,12'620',119'=6-,' 2',.' =-1>**0 25.'=-1D6D/ ' -1?' ,)*',?*',)6,')*'D1-*'6-?.% ,' .' ?=1-,62,')18*+*-7 ,1'1D.*-+*',)6,')>'6>_;-*0'21'=1/,>6/-5),.' 2'D.' 20 + 0;6/>6=6>, 'D;,'12/ '6.'6'?*?D*-'1'6'" .' 1-',)*'D6. .'1',)*' :*D-*8'=1/,' 86.',)*')1;.*' 8)*2>*'86.' 1-?*0' 2'62'6.>*20 25'.>6/*',)*' 1-'>1//*>,12'1'1)1;.*.',)*' 1-'>1//*>,12'1'6?^ /*.'620',)*' 1-'>1// *>,12'1',-D*.% *>' & f ,-625*-.'M#I 'XN X.*.,/*0'2',)*'/620' '>->;?>.*0'8*-*'8,)'>*-,6 2'*L>*=, 12.'M *;,% LL ' '._%X'60?.,,*0',1',)*'=- + /*5*'1'>,[*2.)='620'6-*'.=19*2'1'6.'?*?D*-.'1',)*'>125-*56, 12'2' ,.'?1-*'*L,*20*0'6==/>6, 12'M L10%L ' RT' ;?% L' T d ' XT',6==*6-.'01;D,;/')18*+*-'8)*,)*-' ,)*'8*-*'-*=-*.*2,*0'2',)*'>125-*56, 12'2',.'>1-^ =1-6,*'>6=6>,'6.'6'0*/D*-6,+*'D10 '6.',)*'8*-*' 21,'.,-> ,/'.=*69 25'?*?D*-.'1'62 ')1;.*TI,)*-' =1.,12'=-1D6D/ '-*.* 2D/>0',)6,'1',)*'=- % 1 '6,' ,)*2.% ()*'>125-*56, 12'1>>;=*0'62' ?=1-,62,'=1^ .,12';20*-',)*'()*1>-6> '6.',)*' '1-'26, 126/ 12+*2, 12'2+*.,*0'8,)'/*5./6, +*'620'A;0>6/=18^ *-.% 2',) .'>6=6>,' ,'6>,*0',)-1;5)'6'. .,*?'1' =6,-6->)6/-*=-*.*2,6, +*.'D* 25'2>12+*2*2,/'/6-5*'1-'1-0^ 26-'D;.2*..'6'6-,)*-'.*/*>,12'86.'?60*'D'<1.*.' 1' '8)1'1-?*0'6'.=*>*.'1'.,620 25'>1??,,*' M ;?%L'SX% >>6.126// '20**0',)*'8)1/*'D10' 1',)*'=*1=/*'86.'6..*?D/*0',)*?10*'1'.;?? 12 25' D* 25'D',)*'.1;20'1',)*',81'./+*-/,-;?=*,.'620',)*' =/6>*'1'?**,25',)*'011-'1',/*',6D*-26>/*')*2>*' ;.;6// '>6//*0',)*',6D*-26>/*' '7P I N' /,%' ' 8 M ;?%L'NXT',)*'1>>6.12.'1' .;>)'5*2*-6/6..*?D/*.%8*-*'.1/*??2'-*/5 1;.'.*-+>*.' M L10%L ' T ;?%LL+'ST'B1*/' X'1-',1'-*>*+*' 2*8'>1?720?*2,.'M L10%L L ' Q \>1?=% >,.'+' QQh' *+'+ ' X% ()*'*/0*-.'8*I*.;?12*0'D',)*' >6// 1 ',-;?=*,'M ;?%L' X'6,',)*'>1?620'1' ,)*'.;=-*?*'51+*-21-'1-',)*')5)C=-*.,',)*'-*=-*^ .*2,*0',)*'8)1/*'>125-*56, 12'12'+6-1;.'1>>6.12.'1 f =;D/>'2,*-*.,'M L10% 'ST'L 'K T'L+' T' LL + XT',)*'6>,*0'6.'6'>1;-,'1'A;0>6,;-*' 2'>6=.,6/1 f *2>*.'M ;?%L+'NKT'LLL+' KX'620'8*-*')6-5*0' 8,)',)*'*L*>;,12'1',)*'.*2,*2>*'M *+% L7+' T ;?%d 'N XT',)*'A1 2*0'2'>*-,6 2'1',)1'.6>-*.' M *+% +' XT'620',)*'*L*-> .*K' ;.;6/-5),.' 1'.1+*-*52, '.;>)'6.'0*>/6-25'86-'?69 25'=*6>*' 620'>12>/;0 25',-*6,*.'MB1.)'L' X' ()*'=*1=/*' 8*-*' .,-> ,/'D1;20'D',)*'6>,.'1',)*'-'-*=-*.*2,6^ ,+*.'*+*2'2'>6.*.'8)*-,)*'0.6==-1+*0'1.;)*?' MB1.)'L' QX% ,*-',)*'1>>;=6,12'1',)*'/620'1' 62662',)*'>125-*56, 12'86.'6..*?D/*0'12/'12'?6,^ ,*-.'1',)*')5)*.,'?=1-,62>*% ()*'0*/*56,*.'81-*' .;?12*0'D'?*..*25*-.'MK')-12% LLL'SX',1';>)' =/6>*.'6.'?5),'D*'6==1 2,*0'?1.,'-*_;*2,/',1'<[C =*)'MB;05% d'T'L'T'LL'T' 6?% +'T'L'T' '<6>>% ' SXT',)*'>6?*'6,,*20*0'*6>)'8,)')' D620'1'-*,6 2*-.'1',)6,)*'2;?/X*-.6..*?D/*0'86.'% +*-'>12.0*-6D/*'MB;05'LL'K'._%X% 2'12*'1>>6.12' 8*)*6-'1',)*'>125-*56, 12'D* 25'6..*?D/*0'1-'A;0^ >6/=;-=1.*.'MB;05%LLXT'12'1,)*-'1>>6.12.'1-'-*^ /5 1;.' *.,+6/.'MK')-12%LLL'ST'LLL+'KRX'\.**' ;'T 12'1,)*-.'1-',)*'*/*>,12'1'9 25.'6.' 6;/M/7 6?%L7/ X' 6+ 0'MK' 6?%+' X'B*-1D162f

G ' 25.' L ' K X' B16.)' MK' 25.' L ' RX' B1. 6/ ' MK' 25.' LL 'K X' B*)16)6['MK' 25.' LL 'N X' 620' $[C [6D' MK')-12% LL+ ' X% 2',)*' /6,*-'=*- 10.' 1 'B* 8^ .)') ..,1-A' ,)*' >125-*56, 12' 86.' -*=-*. *2,*0' D ',) *' 62)*0- ?† 620',)*' ,*-?' . 26515;*' I J 8 81' 8) >)' 2',)*' *=, ' .' 6==/ *0' *L>/;. +*/ ',1',)*' >12^ 5-*56, 12' ,. */ 'M 1-',)*' =/6>*' 1 '= **, 25'

.' 2+6- 6D/ ' -*20*-*0' ^ ' ' ' !" '

' # #',)*' 81-0' D* 25' >12. 0*-*0'b' -I 7PX' 86.',-62. *--*0',1',)*' =/6>*.' 1 '81-.) =' *.,6D^ / .)*0'D ',)*'B* 8. ' 8)*-*+*-' 6'>*- 6 2' 2; ?D*-' 1 ' 6?^ / *.C8*-*' >1//*>,*0% ' ? ,)' .% +% **' #!

$ ' ' ' M ' 7 7' F2102C'

' ',)*' ' .6% L + ' N' \ h† *=, ' 1=1 '

d1- ' ;/5% ' E' ; . ; 6// ' .' ; ==1. *0',1' -* *-' ,1' < 1 ; 2,' <1- 6)' 6.',)*' . ,*' 1 ',)*' (*?=/*' M>1?=% .6% LLL 'K X% ;',)*' ;2,>26D/>2*..' 1 ',) .' 2,*-=-*^ ,6, 12') 6.' /125' . 2>*' D**2' .)182' D ' < >)6*/ .' I ; " =' $ ' ',)*' ' + ' R X% ()*' 26?*' 0*. 526,*.' .1?*' =/6>*' 1 '-*/ 5 1 ; ,' >*-* %2 '6?125',)*' 6D /12 62. ' 620') 6.')*2>*' D**2' >1?=6-*0' 8 ,)',)*' .6>-*0') // 1 ',)*' 510.' M_% O% ?1 ; 2,' 1 ',)* -' ?**, 25X' .;>)' 6.' ,)*' & *' 26?*0' 2',)*' U*20C +*.,6' 6.' . ,; 6,*0' 2',)*' 21-,)' 1 ',)*' *6-,)' M>1?=%)10*' # !' $ '=% KN ' ._ %X% & *' ?6 '6/.1' >1?=6-*' 8 ,)',) .',)*' < 1 ; 2,' , % ' 1 ',)*' 4-**9' 2 ,)1/15AJ' 620',)*' ' 1 ',)*' 20 62% 2^ 0**0' 6// =6562' . .,*?.' .**?',1' =1 2,',1',)*' 21-,)' 1 ',)*' -*.=*>, +*' -*5 12.' 6.' ,)*' /1>6/ , ' 1 ',)*') 5)*.,' ?1 ; 2,6 2.' 26, ; -6/) 76.. ; ?*0' 6.' ,)*' 6D10*' 1 ',)*' 510.†=1.. D/ ')6+ 25' 6' +65 ; *' *-*2>*',1',) '5-*6,' 6 ; >6. 62' -625*' M.**' 4*.*2 ; . 'D !' 'N S' _ %† 1C .>2?;//*-' & +!' ' ' '._%† : *20*-.12' ' 2' /1>%X% **' $!

4 4 ('M %X' 62' 6..*?D/ ' 1-' " ' " '1 '=*-.12. ' ?1-*' =6-, >; /6-/ ' 1-'0 + 2*' .*-+ >*% ( ) .' 81-0' .' ;.*0' 2',)*' ;D- >.' 1 ',)*');->)' 1 ' 25/620' 2' C,)*' .6?*' .*2.*' 6.' '=*1=/*J' .' ;.*0',1' ?*62',)6,'=1-, 12' 1',)*');->)' 1',)*' 26, 12' 8)1' 6->' 6..*?D/*0' 2' 62 ' 12*' .6>-*0' *0 >*' 1-',)*' =; -=1.*.' 1 ' 81-.) =' M 0*2X%

MK%X' ' ! ' M6X' 2' 6' 8 0*-' .*2.*' 6// *>>/*. 6.,>6/ 6..1> 6, 12.' 1 '/6 ?*2' 2',)*' 1?62' 6,)1/ >');->)' 1-' >12,*?=/6, +*' 6.>*, >'>-' =-6>, ^ >6/=;-=1.*.' 6->' >6//*0' >125-*56, 12.% M X' 2' 6' ?*-*' .=*> 6/ .*2.*' ' 6->' 6..1> 6^ , 12.' 8)>)' / 9*' ?126.,>' 1-0*-. ' /*60' 6' >1?12' / *' 620' 6-*' D1;20' D ' +18.% ()*A70 *-' -1?',)*' ?1^ 26.,>' 1-0*-.' D ' 21,' 0*?620 25' -1?',)*-' ?*?D*-.' ,)*' +18' 1 '=1+*-, '" 'D 20 25',)*?',1' /*..' .,- 25*2,' 1-',1' 21' -;/*.' 1 '-*, -*?*2,' -1?',)*' 81-/0' 620' -*^ _;*2,/ 'D '=-*.>- D 25' 12/ ',)*' % '+18' 1 '>)6.,, ' M.**' 1f+X% ()*2;?D*-' 1 '>125-*56, 12.' 1 ',) .'>/6..' .' +*- ' /6-5*†' 6?125',)*?'6-*',)*' -6,1- 62.',)*' - *.,.' 1 ',)*' < .. 12',)*' 1>,- 26- 62.',)*' 6- .,.' ,)*' -1,)*-.' 1',)*')- ., 62' >)11/.',)*' <>>) ,6- .,.' *0*?=,1- .,. '6//1'8) >)'6-1',-*6,*0'1' 2'.=*> 6/6-, ^ >/*.% M>X' ()*' 26?*' .'6/.1'6==/ *0',1' .*+*-6/D-62>)*.' 1 '-* 1-?*0' *2*0>, 2*.% 2',)*.*' >125 *56, 12.J' *6>)' ?126.,*- ')6.' ,.' 182' 6DD1,' 1-'=- 1-'D ; ,'6// 8*-*' .;D1-0 26,*',)*')*60'1 ',)*' >) *'6DD* % ()*' ?1.,' 21,*0' 1 ',)*.*' >125-*56, 12.' 8*-*' ,)1.*' 1 ' /;52 ' 6//6?D-1.6' 6?6/01/ ',)*' .,*-> 62.' 6-,) ; . 62.' 620' <6 ; - 2*.' M.**' ,)*.*' 6-, >/*.X%

MN%X' ' ?2 ' $ % ' ' ,)*' >; ?>2 >6// 210' 1 ' 12..62>*' ,' 86.' -*.1/+*0',1',69*',)*' +1,*' 21,' D ' D*60. ' D ; ,' D ' 26, 12. ' 1 ' 8) >)',)*-*' 8*-*' 6,' -.,' 1 ;-' M4*-?62' -*2>/ ' ,6/ 62' 25/ .)X' 620' .;DC' .>_;*2,/ ' +*' M =62 .)X% 6>)'26, 12' 86.',1'>6.,'12*' +1,*% 2' 1-0*-',1' *.,6D/ .)',)*' +1,*' 1 ' ' 26, 12' ,.' ?*?D*-.')*/0' .*=6-6,*' .*.. 12. ' 8) >)' 8*-*' >6//*0' >125-*56, 12.%J' 2',)*.*' >125-*56, 12. '*+*-A' ?*?^ D*-' 8 ,)1 ;,' 0 ., 2>, 12' 1 ' -629 ')60' 62' *_ ; 6/ +1,*% &)*2',)*' +1,*' 1 ' *6>)' >125-*56, 12')60' D**2' *.,6D^ / .)*0' 6//',)*' >125-*56, 127 ?*,' 6.' 6' ' ' 620',)*' -*.1/ ; , 12. ' 1-' 8) >)' 6' ?6A1- , ' 1 ,)*' 26, 12' +1,*0' 8*-*' 0*>/6-*0',)*' *.1/ ; , 12.' 1 ',)*' >; ?*2>6/ 1 ; 2> /% ** & *,[*-' ;% & */,*') "' 2C' ' ' R %

M %X' ' % ' '>1?? ,,**' 1 '>6-^ 0 26/. ' =-*/6,*. ' 620' 1,)*-. ' ?*,' 1-',)*' 0 .=6,>)' 1 ' .1?*' =6-, >; /6-' D ; . 2*..' ;')6.',1' 0 .=6,>)% ()*' 1//18^ 25' 6>>1 ; 2,' //' D*' 1 ; 20',1' 2>/ ; 0*' 7)>' 26?*.' 1 ',)*' >) *' 1 ',)*.*' >125-*56, 12. ' 620',)*' =6-, >; /6-' D ? C 2*..' 1 '*6>)a

% - 1' ' 2., ; ,*0' 2' K QS D ' L ; .' % ()* '=-*=6-*',)*' ?1.,' 0 >; /,' D*2* ^ > 6- ' ?6,,*-. ' 6 ,*-86-0.' 0*D6,*0' 2',)*' 12. .,1- ' 2' ,)*'=-*.*2>*' 1 ',)*'=1=*% ;>)' ?6,,*-.' 6-*',)*' 6==-1^ D6, 12' 1 ' 2*8' -*/ 5 1 ; .' 1-0*-.† ,)*' *-*>, 12' 1 ' 2*8' *= .>1=6/ .**.† ,)*' .*=6-6, 12 ' ; 2 12 ' 1-' .; ==-*.. 12' 1 ' D*2* >*.' 1 ',)*') 5)*-' 5-60*† ,)*' *L6? 26, 12' 1 ' 2*8/ C6==1 2,*0' 1-' */*>,*0' D .)1=.† ,)*' 6==1 2,?*2,' 1 '>160A ; ,1-.% ()*' 2; ?D*-' 1 '>6-0 26/.' .' 21,' L*0%

K% -" ' ' '" ' # ' ' ' 4 '

2., ; ,*0' 2' K' D ' 6 ; / ' 6,',)*' 0*. -*' 1 '>6-C' f 0 26/ 6-6 6' 8)1' 6 ,*-86-0.' D*>6?*' 6 ; / % ()*' =- + /*5*.' 8*-*' *2/6-5*0' D ',)*' 600 , 12' 1 '.,6, ; ,*.' D ' L, ; .' 'D ' 8) >)',) .',- D ; 26/' D*>6?*' .1' 1-? 06D/*' ,)6,',)*' ,6/ 62.' 85-*' 6>>; .,1?*0',1' .6 ' 1=*' L^ , ; .' 81 ; /0' 21,' =6-012')- .,') ?.*/ %J' ,' ,69*.' >15^ 2 [62>*' 1 ')*-*. *.' 620' 6// 21+*/ 1= 2 12. ' 6.' 8*// 6.' 1 ' 6=1.,6. ' ?65>' 8 ,>)>-6 , ' 6D ; .*' 1 ',)*' .6>-6^ ?*2,. ' 620',)*' > ->; /6, 12' 1 '=*-2 > 1 ; .' D119.% ()*' =1=*') ?.*/ ' .' =-* *>,' 1 ',) .' >125-*56, 12% ,' >12^ . .,.' 1 ' K' >6-0 26/. ' 6' 2 ; ?D*-' 1 ',)*1/15 62.' 620' >62^ 12 .,.' 6.' '>12. ; /,1-. J' 1 '. *+*-6/ '_ ; 6/ >6,1-.J' 8)1' 5 +*',)*-' 1=2 12' 2' .=*> 6/ >6.*. ' 1 '6' 0* *20*-' 1 ',)*' 6>>; .*0' 620' .*+*-6/ 1,)*-' =*-.12.% *>' ? M$ L

!

N% -" ' ' % '@ ' 2., ; ,.*0' D ' 4-*51- ' d ' 2' SKK' >12. .,.' 1 'K ' >6-0 26/. ' >; *' 1 ',)*' . *>-*,6-*.' 1 '.,6,*' 62' 6=1.,1/ >6/ =-1,/ 12>,6- ' 6' -* *-*206- ' 62' 6.. .,62,' 1-' /6,*-6/ A ; 05* '620',)1' .*>-*,6- ' 1 ',)*' : 1/ ' >*% **' + / !

% -" ' ' ' " ' 1-'*L=/6 2 25',)*' 1 ; 2> /' 1 ' (-*2,% &)*2',)*' >1 ; 2> /' >/1.*0',.' .*.^ . 12. ' ; .' '0*=; ,*0' >*-,6 2' >6-0 26/. ' 8)1')60' 6.^ . .,*0' 2' , ',1' = ; ,' 62' *20',1' 6//01 ; D ,. ' 8)>)' ? 5), ' 6- .*' >12>*-2 25' ,.' 0*>-**.% () .' >125-*56, 12' ?**,.' 3 12>*' 6' 8**9% ' ,.' 0*> . 12.' -1?' NRI,1' Q N' // N +1/.% ,1%J' ()*' =-* *>,' .' >)1.*2' D ',)*' =1=*' 620')6.' 6' .6/6-A7

% -" ' ' " ' ' 2., ; ,*0' 2' D ' ; .' % () .' >1?? ,,**' .' 0*=; ,*0',1' *L6? 2*' 6// D119.% ,' .' >1?=1.*0' 1 '.*+*-6/ >6-0 26/.' 620')6.' 6' .*>-*,6 7' 1 ',)*' 1-0*-' 1 ' 1? 2 >% ()*' =1=*' 5*2*-^ 6// '=-*. 0*.') ?.*/ %

S% -" ' ' '6 + ! () .' 3 86.' *.,6D/ .)*0' D ' $-D62' ' 2' 1-0*-' ,1' 1D+ 6,*' ,)*' 0 .=; ,*.78)>)' 6-1.*' 2',)*' A ; 05?*2,' 1 ' .; >)' .; ,.' >.' 8*-*' >6-- *0' 12' 656 2.,' >); ;->)?*2' 1-' +6- 1; .' ?6,^ ,*-.' 8)*,)*-' >- ? 26/>-' > + /%

% -" ' ' ' " % ' ' ! L^ , ; .' ' 2',)*' D*5 22 25' 1 ' D .' =12, >6,*' ; 2 ,*0',81' >125 *56, 12.' ; 20*-',) .' 26?*% ')6.' =17>' ,1' -*5^ ; /6,*' 6// 0 .=; ,*.' 6- . 25' D*, 8**2' D .)1=.' 620' -*5 ; /6-' 1-' ?126.,>' 1-0*-%II% I %

Q% -" ' (' ' " ' 6+ ' 6 = ' ' 5I Y ' ' "=% ' () .' 86.' 2.,;,*0' D ' /*?*2,' ,1' *L6? 2*' 2,1' ,/ >' _ ; 6/ >6, 12.' 1 ' 6// .;)>' >D;->)?*2' 6.' 6-*' 21? 26,*0',1' D .)1=- >.% ()*' *L6? 2*-.' 6->' >/ ; .>2' D ',)*' =1=*% ,')6.',)*' =18*-' 1 '*2A1 2 25' 1-' 0 .=*2. 25' 8 ,)',)*' -*. 0*2>*' 1 ' D .)1=. ' 620' 1D/ % 25' 6// 6DD1,.' ,1' -*. 0*' 2',)*-*' -6/ >1?? ; 2 , *.

R% -" ' M ' '5 ' ' % ! (.')6.',)*' - 5),' ,1' 2_ ; -*' 2,1',)*' .,6,*' 1 ' ,6/ 62' ?12^ 6.,*- *.' 620',1' .; ==-*.' .),)1.*' 8)1.*',*?=1-6/ , *.' 6-1' .1' 6-' 0 ? 2 .)*0',)6,',)*' -*?6 20*-' .' 21,' .; > *2,' 1-

D;. 2*..' .',1' + . ,' 2' ,)*' 26?*' 1 ',)*' =1=*' ,)*' . L' D .)1=- >.' .' ; -6562.',1',)*' ?*,-1=1/ .' 1 '/61?*%
N% -" ' ' ' '$ '5
2., ,;,*0' 2' SQR' D ' /*?*2,' d% ,.' D;. 2*..' .',1' . ;=*- 2,*20',)*' -*/ >.' 1 '62> *2,' ?6-, -.' 8) >)' 6-*' -* _;*2,/ ' .6 0',1' D*' 1;20' 2' >6,6>1?D.' 620' 1,)*-' . ;D,*--62*62' =/6>*.' 2' : 1?1 '620',1'0 ., 25; .)' ,)*' -' D12*. ' .)- 29. ' ,; 0',1?D.' -1?' ,)1.*' 0 ',)*')*6,)*2% ,*-',)*'>125-*56, 12')6.'=-121;2>*0'.*2,*2>*'12',)*' +6/ 0 , ' 1 '72 '-*/ >.' ,)* '6-*'>12. 52*0',1',)*' >6-0 ^ 26/C+ >6-'620',)*' =1=*.' .6>- .,62 '8)1'0 .,- D;,*',)*?' ,1'6==/ >62,.% ( ) .'>125-*56, 12'6/.1' 2+*., 56,*.',)*' >6;.*.' 620' ?1, +*.' 1 ',)1.*' 8)1' .;*' 1-' 20;/5*2>*.% ()*'-*5 .,-6-'.*20.',)*' ? 2;,*.' 620'>12>/;. 12.'1 '=*^ , , 12.',1',)*' .*>-*,6- ' 1 'D-* . ' 8)1'0 .=6,>)*.',)*?' ;20*-',)*' .)*-?62 .' .*6/%
K% -" ' ' ' '$ '5 !' L,;.' ' 1;20*0',) .' >125-*56, 12',1' -*5;/6,*' 6//' ?6,,*-.' -*^ /6, 25',1' >*-*?12 *.' 620' - ,*.' 2' 81-.) = ' 620' *.=*^ > 6// ' ,1' ,69*',)*' >) * ' =6-,' 2',)*' >6212 [6, 12' 1 ' .6 2,.% ,')6.' 6;.,)1- , ',1' *L=/6 2',)*'-;D- >.' 1 ',)*' <6..C 119'620',)*' -*+ 6- ' 8)*2'62 ' 0 >;/, *.' 6-*' .,6-,*0' 2' -*/6, 12',)*-*,1%
N% -" ' ' ' 'I" ' 5 ' " ' '$!' f' () .' 86.' 1;20*0',1' .;=*- 2,*20',)*' D; /0 25' 1 ' ,% *,*- .' 620' .' 218' *?=/1 *0' 2' -*=6 - 25' 620' D*6;, 25',% () .' >125-*56, 12')6.',)*' =*>;/ 6-' =- + /*5*' 1 '6/,*- 25', *' /6.,' 8 //.' 1 ',)1.*' 8)1' D*^ _;*6,)' ?12* ',1'= 1;.' ;.*.' 620',1'6==/ ' ,',1',)*' .;=^ =1-','1 ',)*' 6D- >' 1 ' ,% *,*- .%
% -" ' ' * ' " '$ ' 2 f () .')6.' .;=-*?*' > + /' 620' >- ? 26/A;- .0 >, 12' 1+*-' ,)*' .;DA*>,.' 1 ',)*' =6=6/ .,6,*.% ' ,' 86.' 2., ;,*0'D ',)6, 6?1;.' 1;20*-'1 '>125-*56, 12. ' L;,.' %
% -" ' J ' ' ? ' f () .' 86,>)*.' 1+*-',)*' >120;>,'1 ',)*' ?65 .,-6,*.',)-1;5)^ 1;',)*' .,6,*. ' 620' 81-9.' 2'>12>*-,'8 ,)',)*' 2 ! S% -" ' ' ' ' ! () .' >12. ..,' 1 ' ,)*' 51+*-21-' 1 ',)*' > , ' 620' 1,)*-' *>>/*. 6., >.' D*6-^ 25' > + >' 620'A;0 > 6- ' 1 >*.% ()*E' 0 .=1.*' 1 '>6.*.' -*/6, 25',1',)*' 2; ?*-1;.' 1>>;=62,.' 1 '.*>-*,'=- .12. ' 56//* .' *,>%' *,>%')6+ 25' ;20*-',)*' -' A;- .0 >, 12' 6// ,)6,'6-*' 2' /*56/ D120.' ,)*' .; *-*-.' 2',)*' 2_; ,7 C , 12' 620' 2',)*' ?126.,*- *.' *L>*=,*0' 8)1?' .' 21,' 8 ,) 2',)*' -' =-1+ 2>*',1' + . ,' = , ' 1-' -*/*6.*% ' 6-^ -6-' 6 !' '(!' QV' ' ' : *-[15' 5 =6 '%!' ' ' -1;5),12' ; (" ' 2 1$ 'M 12012' N ' +1/%' X' < * *-' ' '"1 ' " ' ' 2' B6>1D.12' . M " ' ' !' 5 + ' Q ' ' *,[*-' ;% */,*') " = ' ' N %
') ' ' ' ' 6' , ,/*' 5 +*2' 2' >1,, .)') ;->)' : .,1- ',1',)*' >) * '21D/*.' 620' 5*2C 7 ,/*-6>2' 8)1'. 52*0',)*' 1+*262,'1 ' *>* ?D*-' N % -1?',)*' -*_;*2,'-*>;--*2>*' 1 ',)*' 81-0' >125-*56^ , 12' 2',)*' 01>; ?*2, ',)*' 60)*-*2,.' 8*-*' >6D/*0' ,)*' 125-*56, 12 J' 620',)*' >) * '. 52*-.' M.;>)'6.',)*' *6-/.' 1 ' -5 /*' 4/*2>6 -2' 620' <1-,12',)*' 1-0' 1 ' 1-2' -.9 2*' 1 ' ;2' *,>%' 8*-*' ., /*0' ' 1-0.' 1 ',)*' 12^ 5-*56, 12%J ' : *,)*- 25,12' 2 ' '" ' " "' ' $ 1' >)6=% %
125-*56, 126/* *>,2-*. ' 6' .>-*.' 1 '/*>,;-*.' 0*/ +*-*0' 2' 12012' D ' 125-*56, 126/' ? 2 .,*-.' 1 ' 4-*6,' -,6 2' -1?' *6-',1' *6-% ()*' 1//18 25'>1;-.*.')6+*' D**2' =;D/ .)*0d QNN')- ., 62' ,) >.' /X ' *+% 6/=)' 6-0/68' X% %' QN ' ()*' 6;.*.' 1 ',)*' 1-^ -;=, 12' 1 ')- ., 62 , ' D ' *+I% 1D*-,' 76;5)62 % %' QN ' ()*')- ., 62' ,12*?*2,' D ' *+%B1.*=)' 4 /D*-,' QNS' + 2*' 2.= -6, 12' D ' *+% D*2*[*-' : *20*-.12' ' % %' QQ ' : 1/ ' >- =,;-*' *- *0' D ' *+% 4*1-5*' *0 1-0' % % ' % %' QNR' *+*/6, 12' 620' 4*1/15 ' D ' *+%B1)2' *' ? ,)' % % ' % %' *,>%' Q ' ()*' 122*>, 12'620' 1>,- 26/' : 6-?12 '1 ' ,)*' /0'620' *8' (*.,6?*2,.' D ' *+% & // 6?' 20^ .6 ' /*L620*-' % %' Q ' ()*' ()*1/15 '1 ',)*' *6-/ *.' ; //0*+*/^)- ., 62');,>)' D ' *+%B6?*.' *22*,,' % %' Q N' ()*' L .,*2>*' 620' 5*2> ' 1 ' + / = - ,. ' D ' *+% & 6/,*-' >1,,' Q ' ()*' 6>-6?*2,.' M 6-,' ,. ?X' D ' *+% 1D*-,' : 6//* ' % %' Q ' ()*' 1>^ ,1'2*' 1 ' - 5 26/' 2' D ' *+% 4*1-5*' 6 2*' % %' Q ' ()*' *+*6/*0' 1>,- 2*' 1 ' *86-0.' 620' ;2^ .) ? *2,. ' D ' *+% >)6-0' 2,*-' : 6? /,12' % %' % %' Q Q' ()*' >>/*. 6., >6/' 1/ , ' 1 ',)*' *8' (*.,6?*2,' ;2 1/0*0 'D ' *+% 6?;*/ 6+ 0.12' % %' Q R' ()*' 71-9 1 ',)*' : 1/ ' = -,' D ' *+% & // 6?' : *20- ' ,18*//' % %' Q ' ()*' 6>-6?*2,.' M 6-,' ',)*' 1-0 .' ;==*-X' D ' *+% 1D*-,' : 6//* ' % %' Q N' . >)1/15 ' 7 0 ' ()*1/15 'D ' *+% >)6-0' /C' : 1,,' % % I' Q ' 5*.' 1 ')- .,*201?' D* 1-*' ,)*' 3 * 1-?6, 12 'D ' *+%B1)2' ,1;5),12' Q Q')- ., 62' 6 ,) ' D ' *+%B1)2' : % 4108 2' QS ' ()*' + 2*' 1+*262,.' ,)*' -' 6,;-*' 620' *2- ' *L*>;,*0' 2' N RN% ',)*' 125-*56, 126/' >);->)' 1-?*0' 2' 12012' 2' RIK' 1 '8)>)' -62> .'B1)2.12' 86.' =6.,1-' 620'B1)2' 4-**28110',*6>)*-' , C. L' ?*?D*-.' 8*-*' .* [*0'620' ?=- .12*0% <62 ' 1 ',)*?' *+*2, ;6// ' 1;20' ,)*? 1=20' ,)*' 2' 1 ',)*' 20*=*20*2',' 0*' 1 ' 125-*56, 126/ .?') /*6,' -.,'12/ ' ;- ,62. ' ?62 'D*>6?*' *=6-6, .,.

F " # " & & LHH " " & &

?125' ,.' ?=1-,62,'6>,.' 8*-*' 6' *>/6-6, 12'1 ' 6 ,)' 620' 6' -*+ .*0' /6, 1-?' 1 '); ->)' 1/ , ' 6-, 6/ . 210.' 1 ' ?=1-,62>*')6+*' D**2')*/0 ' 1 ' <6..6>);^ .*,,.' 2' SSK' 8) >)' -*>1? ?*20*0',)*' 0 .6.,-1;. ' 620' 218' /125' . 2>*' 6D62010*0`` : 6/ C86 ' 1+*262, J' D ' 8) >)' D6=, [*0' =*-.12.' ? 5), ' 182',)*' >1+*262,J' 1 ',)*');->) ' D;,' 8 ,)1;,' >1? 25' 2,1' ;// >1? ?;^ 2 12T '1 ' <6..6>);.*,,.' 2' S RCQ ' > //*0',)*' *^ 1-? 25' 210,)6,'. 210'-*601=,*0 ' 82,)'.1?*6/^ ,*-6, 12. ',)*' 12 *.. 12'65-**0' ;=12' D ',)*' 125-*^ 56, 126/. 210' 8) >)' ?*,' 6,',)*' 6+1 ' 2' 12012' 2' S Q' 8) >)' 86.' ,.*/ ',)6,'1 ',)*' & *.,? 2.,*-' 12^ *.. 12' 8 ,)' ./ 5),' 6/,*-6, 12. ',)*' +6- 6, 12.' 1 ',)*' ,)-**'01',)*; ?*2,.' D* 25' >6-* ;// '.)182' 2I',)*' 1' ' 1' 1..12' QSST ' 620' ,)*' 210' 1 ' 122*>, >;, ' 8) >)' ?*,' 6,' 6 D-119' 2' Q' 620' -6?*0',)*' ' 6 D-119' /6, 1-?J' 1 ' .> =/ 2* ' 8) >)' *.,6D/ .)*0',)*' >12.1> 6, 12J' . .,*?' 2',)6,'.,6,*% // 1 ',)*.*' . 210.' 0 .>/6 ?*0' 6;,)1-, ' 1+*-',)*' >);->).*.',1' ?=1.*' *,)*-' 6' =/6, 1-?' 1 ' =1/, ' 1-' 6' >-**01',)*' 0*>/6-*0' 12/ ' 8)6,' 8*-*',)*' .*2, ?*2,.' 620' ;.65*.' 1 ',)*>);->)*.' 2',)*-';20*-.,620 25' 1 ',)*>-=,;-*.% ," ' , / 11 !' *6>)' .,6,*' 620',*-- ,1- ' 8)*-*' 125-*56, 126/..' *L .,' 2' .; > *2,'2;?D*-.' ,)*-*')6+*'D**2' 1-?*0'4*2*-6/ .1> 6, 12.'1-' 12 *-^ *2>*.' 8) >)' 6-*' 8 ,)1;,'62 ' *>>/*. 6., >6/6;,)1-, ' 620' 21,' 6//18*0',1')*A7' >6;.*.' 1-' 5 +*' 60+ >*' 2' 62 ' *>>/*. 6., >6/6 6 -.% // 6-*' 218' >1?=1.*0' 1 ' D1,)' ? 2 ..*-.' 620' /6 ' 0*/*56,*.' *L>*=*,',)*' 4*2*-6/ ..1> 6, 12.'1 ' <6..6>);.*,,.' 620' 122*>, >;, ' 8) >)' 6-*' =;-*/ ' D10 *.' 1 ' ? 2 .,*-.' D;,',)6,' 1 ' <6..6>);.*,,.' +1,*0' ;262 ?1;./ ' 2' QSS',1' ;2 ,*' 8 ,)',)*' 12 *-^ *2>*' 1',)*' .6?*' .,6,*' 620' 60?,'/6A22*2%% ()*' 4*2^ *-6/ 12 *-*2>*' 1 ' <6 2*' 8)*-*',)*' ' 12 *-*2>*J' M 2>/;0 25'/6 ?*2X . .,*?' 1-5 26,*0' 86.' 1-562 [*0' 2' QKST *8' :6?=.)-*' Q RT *-?12,' R T <6.^ .6>);.*,,.' ..1> 6, 12' 2' Q N' 12 *-*2>*' 2' QS T)10*' ./620' Q RT 122*>, >;, ' RT *8' 1-9' QN T) 1' Q KT 20 626' Q QT // 21 .' Q NT <>)^ 562' Q KT & .>12. 2' Q T < 22*.1,6' Q T 186' Q T <..1;-' QS T *D-6.96' Q T 62.6.' Q T -*512' Q NT 6/ 1-2 6' Q T 62606' Q NT 1+6' >1, 6' 620' *8' -;2.8 >9' Q ( )*.*' D10 *.I' 6//)*/0'622;6/?**, 25.% 2'600, 12'6' ' 12+*2, 12J'1 ',)*' 125-*56, 126/?2.,*-.'1 '<6..6>);.*,,.')6.'?*, 622;6// ' .2>*' 2*6-',)*' D*5 22 25'1 ',)*' Q,)' >*2,;- 1 '8)>)' $2 ,6- 62.'6-*' 6'>1?=12*2,'=6-,' 8)>)')1/0.' ;20.' ?6 2/ ' >12,- D;,*0' D* 1-*',)*' 0 + . 12' 1-',)*' -*/ * '1' 8 018.' 620' 1-=)62.' 1 ' ? 2 .,*-.'1 '*,)*-' 0*^ 21? 26, 12% ' ' (- *22 6/ 12+*2, 12' 1 ',)*' 1-,)^ 8*.,J' 86.' 1-?*0' 2' Q Q' ?6 2/ ',1' .;=*-+ .*',)*' 6 6 -.' 1 ',)*') >651' ()*1/15 >6/ *? 267 73 1>6/ 12 *-*2>*.' 1 ');->);->).*.'>1+*- 25'5-1;=.' 1 'M;.;6// X -1?',*2' ,) -, ' >);->).*.')6+*' D**2' +1/;2,6- / ' 1-?*0' 620' *?D-6>*' 2*6-/ ' 6//',)*' >);->).*.a',)*' 5*2*-6// '?**,'.*? C622;6// ' 1-'-*/ 5 1;.' >12 *-*2>*' 620' 6-*' 0*2 *0' *+*- ' =18*-' 1 'A;-.0 >, 12% *6-/ ' 6//',)*' ? 2 .,*-.' 6-*' 5-1;=*0' 2' /1>6/ 6..1> 6, 12.' 1 ' >12+*2 *2,'. [*' 1-' =;-=1.*.' 1 ' ? :,;6/ ?=-1+*?*2,' D;,' 8 ,)' 21' *>>/*. 6., >6/6;,)1-, ' T D;,',)*' >);->).*.' /119' ,1',)*?' ,1' *L6? 2*' 620' -*>1? ?*20' >620 06,*.' P' ,)' >*2,;- % >>/*. 6., >6/ 1;2>/.J' 6-*' 1>>6^ . 126/ D10 *.' 8) >)' 8 // D*' 21, >*0' ;20*-' '51+*-2^ ?*2,%J ' 2 ((' 8 ,)' -*.D ,*- 62.% ' 125-*56C , 126/..,' 620' -*.D ,*- 62.')1/0 25' ,)*' .6?*' 01>^ ,- 26/+*8.')6+*'6/86 .')60'?1-*' 1-'/*..' 2, ?6,*'-*^ /6, 12.% &)*2'&*.,*-2' *8' 1-9'620',)*',*-- ,1- *.' D* 120' 8*-*' D*>1? 25'-6= 0/ '.*,,/*0'6' 1-?6/ ' /62' 1 ' $2 12J' 86.' 601=,*0' D ',)*' -*.D ,*- 62' 4*2*-6/ ..*?D/ '620',)*' 4*2*-6/ ..1> 6, 12' 1 ' 122*>, >;, ' 2' Q % (1' =-*+*2,' 0 + . 12' 2,1' .?6// 620' 8*69' >);->).*. ' ,'86.'6--625*0',)6,' 125-*56, 126/..,'620' -*.D ,*- 62.' 2'62 '/1>6/, '>1;/0';2 ,*' 2'12*')>);->)' ,.' >)6-6>,*-' ,1' D*' .*,,/*0' D ',)*' ?6A1-, T 620' 125-*56, 126/',)*')>);->)'>1;/0'8) /*'-*,6 2 25'=18^ *-'1 ' 2,*-26/'51+*-2?*2,')1/0'6'_;6/ *0'-*/6, 12',1' -*.D ,*- *.% ()*'-*.;/,' 866',)6,'/6-5*' 2;?D*-.'1 ' 125-*56, 126/..,' 620' 1 ' 125-*56, 126/ >);->)*.' 8*-*' 26// ' 6D.1-D*0' 2' ,)*' -*.D ,*- 62');->)% ()*' /6 '5-*8' 2,1'0 . 6+1-' 620' 86.'6D-156,*0'D ' ,)*' 125-*56, 126/ 12+*2, 12' 1 ' Q K% <62 ' >);->)*.' 8) >)' ., //)1/0',)6,'6D21-?6/-*/6, 12'6-*' 218'0-1=' =*0' -1?',)*' 125-*56, 126/..6, ., >.% 2 ! ' 8 25',1' +6- 1;.' >6;.*. ' =6-, >;^ /6-/ ',)*' : 6/ C80 ' 1+*262, J' ,)*' >122*>, 12' 1 ');->)' 620', 6,*'620'1==1., 12',1',)*' 5-*6,'-*+ +6/.' 1 ',)*' ? 00/*' 1 ',)*' Q,)' >*2,;-E ',)*-*' 5-*8' ;=' 9 ' .1?*' 1 ',)*' >);->)*.' 6' 0 ./ 9*',1',)*' 12 2*0' 1' ',)*' 0*21? 26, 12' 8) >)' 0*+*/1=*0' .*/ ' 2,1' $2 ,6- 62^ .?' ()*' -.,' >);->)',1' D*>1?*' .;>)')18*+*-' 86.' ,)*' = .>1=6/>);->)' 1 ' 25 .')6=*/' 1..,12%)6-=' >12,-1+*-. 7*2.;*0' 8) >)'-*.;/,*0' 2' 62' *2, -*'.*=6^ -6, 12% ()*' 0 + . 12' 86.' 51 25' 12' -1?' 6D1;,' Q ',1' QK 'D ',)*'.,*60 '8 ,)0-686/1 ' *//18.) =' -1?',)*' >);->)*.' 620' ? 2 .,*-.' 8) >)')60' D*>1?*' $2 ,6- 62% ()*' >)625*' 1 '01>,- 2*' 86,*' >) * /A' >12 2*0',1' <6..6^ >);.*,,.' 620' 2' 6' 5-*6,'0*5-**' ,1' 1..,12' 620' + > 2 ^ ,% 2' QK ',)*-*' 8*-*' 1;20',1' D*' R ' $2 ,6- 62' >);->)*.' M6'=6-,'1 ' 8) >)' 8*-*' 2*8' >);->)*.' 1-562^ [*0' 6.' .;>)X' 620' N ' 125-*56, 126/!' 8) /*' 2' ,)*' 1,)*-'.,6,*.',)*' 0* *>, 12' 86.')6-0/ ' 92182% <62 ' >);->)*.' 8*-*' 0*=-+*0' 1 ',)*-'=-1=*-, ' '60+*-.*' ?6A1-, *.' 2'=6-.)*.' 620' 8*-*' 1->*0',1' D*5 2' 62*8% ()*',-6/.' 1 ',)*' >);->)*.' 6869*2*0' 6' +51-;.'/*' 2' ,)*' 0*21? 26, 12' 8) >)' 600*0' S 2*8');->)*.' 2' <6..6>);.*,,.' 2',)*' 1//18 25' K ' *6-.' 620' 2>-*6.*0' ,)*' 2;?D*-' 1 ' >1?;2 >62,.' -1?' N RQ ' 2' QN ',1' S QN ' 2' Q % ()*',*-?' ' $2 ,6- 62' 125-*56, 126^ 6/J'620' ' (-2 ,6- 62' 125-*56, 126/J')6+*'D**2'.1?*^ ,?*.' ;.*0' 2' <6..6>);.*,,.' D;,',)*' /6,,*-' ,/*')6.' 2*+*-' D**2' 6//18*0' D ',)*' 0*21? 26, 12' 8) /*',)*' $2 ,6- 62' 6, 126/ 12 *-*2>*')6.' -* ;.*0',1' 2.*-,' ,)*',*-?' ' 125-*56, 126/J' 2',.' 1 >6/26?*% ; *1' ' ',% % ' 2',)*'*6-/ ^ *.,') .,1- '1 ' ?*- >62' 125-*56, 126/.?'* 1-,'8*-*' 0 -*>,*0',1',)*' >12+*-. 12'1 ',)*' 20 62.' 1 '8) >)',)*' 81-9'1 'B1)2' /1,' .',)*' ?1.,'21,*0% 6,*-'8)*2',)*' >1;2,-'D*>6?*'.*,,/*0'8*..,86-0' ? .. 126- '.1> *, *.' 1 '8) >)',)1.*'1 ' 122*>, >;,'8*-*'=*-)6=.' ?1.,' ?=1-^ ,62,'.*2,' ? 2 .,*-.'1',)*'2*8'.*,,/*?*2,.'1 ' 8' 1-9') 1'*,>% 2' QK '62' ?*- >62' :1?*' <.. 126- ' 1^ >*, '86.'.;55*.,*0'D ' 125-*56, 126/..'620'86.'1-^ 562 [*0',1'*?D-6>*',)*'.*+*-6/..,6,*'.1> *, *.' 620',)*' -*.D ,*- 62.% 2' :1?*' <.. 12.',)*' 1-,'1',)*' 0*21? 26, 12')6+*' D**2' ?60*',)-1;5)',) .' >)62?*/' 8) >)')6.' 218' -*6// ' D*>1?*' 125-*56, 126/ D ',)*' 8 ,)0-686/1 ',)*' -*.D ,*- 62.'. 2>*' QS % 1-*52' < .. 12.')6+*' D**2' >6-- *0'12',)-1;5)',)*' ?*- >62' 16-0' 1 ' 1?? .. 12*-.' 1-' 1-*52' <.. 12.' 8) >)' 86.' 1-?*0' D ',)*' 4*2*-6/ ..1> 6, 12' 1 ' <6..6>);^ .*,,.' 2' Q 'D;,',)-1;5)' 8) >)',)*' *8' >)11/ *.C D ,*- 62');->)' 6/.1' 01*.' ,' ? .. 12' 81-9% 2' ?^ =*,;.' 86.' 5 +*2',1' 6.. , 25' 125-*56, 126/$2 12' 8) >)' 86.' 1-562 [*0' 6,' *8' 1-9' 2' Q N% ()*' ?*- >62' 12^ 5-*56, 126/ ..1> 6, 12')6.' >1//*>,*0' 6' 2*' 620'-6= 0^ / C 2>-*6. 25' 125-*56, 126/ D-6- 2' 1.,12' 620' 6' /6-5*' ;20',1' D1' 0*+1,*0',1',)*' *-*>, 12' 1' 6' 125-*^ 56, 126/ :1;.*% 6-5*' 6?1;2,.' 1 ' ?12* ')6+*' D**2' >1//*>,*0',)-1;5)' >1C1=*-6, +*' .1> *, *.' 1-' ? 2 ..*- 6/ *0;>6, 12' 6DD6,)C.>)11/. ',-6>,' 620' 1,)*-'-*/ 5 1;.' ;D/ >6, 12. ' .*6?*2', *?2=*-62>*' ' *0;>6, 12' 6,' ,)* & *.,' *,>% ()*' 0*21? 26, 12' -1?' ,.' =1/, ')6.' 2_);->)' 1% -0.% ,.' D*2*+1/*2,'1=*-6, 12.')6+*' D**2' >6-- *0'12',)-1;5)'.;>)'>)622*/.' 6.',)*' >);->)*.'=-*^ *--*0% ()*' 6, 126/ 1;2>/' 2' QS '-*>1? ?*20*0' ,)*' ?*- >62' 16-0',)*' ?*- >62' :1?*' <.. 126- ' 1> *, ' ,)*' ?*- >62' <.. 126- ' ..1> 6, 12' ,)*

" " & & L 0 " " &, & &

,*-.' ,)*' ;2 12' =-*.*-+*.' ,)*' / D*-, ' 1 ' 0*,*-? 2 25' 1-' ,.*/ ' ,.' 182' >12., ,:, 12 '6>>1-0 25',1' ,.' >12+ >^ , 12' 620' 2*>*.. , *.' ' +*- '>);->)' ? ;.,'D*' >12^ ., ,:,*0' 12' ,)*' =- 2> =/*' 1 ' 20 + 0;6/ >12 *.. 12' 1 ' 6 ,)' 8 ,)' 6'5;6-62,**' 1 '0 .> =/ 2*'D* 25'*L*-> .*0'D ' ,)*' >)';->)' ,..*/ %J' ,' .' 6' ;2 12' 1 ' .*/ ℃.;.,6 2 25' >);->)*. ' 620')*2>*' .' . ? 6//1' D;,' 6' /6-5*' 2;?D*-' 1 ' >);->)*.' 0*=*20*2,' 12' 6 0' 6->' 2' . ?=6,) ' 620' 6-*' -*=-*.*2,*0' 6,' ,)*' D *22 6/ ? **, 25.' 2' - L ' ,)*' -**' >);->)*.' 1 ' 6;0' 6-*' ;2 ,*0' 12' 6' D6. ;' 8) >)',)1 5)' -*.D ,*- 62' 2' 1-?' .*>;-*.',)*' 20*^ =*20*2>*' 1 '*6>)' ()*-*' 6->' 6/.1' 20*=*20*2,'>);->)^ *.' 2' *; >)6,*/ 620' *-6*' ()*.*' 6// ' 8 ,)' ,)*' -0*');->)' 1 ' 4*2*+6',)*' 20*=*20*2,'>);->)*.' 1 ',)*' 21-,)' 1 7 -62>*' >1?=1.*',)*' 6// 62>*' 1 ' -**' 1-' 20*^ =*20*2,' +625*/ >6/' >);->)*.' 1;20*0' 2' QS ' 60?,^ , 25 '6// >);->)*.' -**' 1 '.,6,*' >12,-1/ 8) >)' 6>>*=,' ,)*' . ?=/*' +625*/ >6/' 12 *.. 12' 1 ' 6 ,)' 601=,*0' D ',)*' // 62>*' =-6>, .*' 6' .>- =,;-6/ 0 .> =/ 2*' -*>15^ 2 .*',)*' ? 2 .,- ' 6.' 6' 0 + 2*' 2.,.;., 12 ' 620' *2565* 2' ,)*' =-1=656, 12' 1 ',)*' 41.=*/' 2' ? !#' *+62^ 5*/ >6/ >1?? ;2 , *.' 6-*' D* 25' 1-?*0' . 2>*',)*' *.,6D^ / .)?*2,'1 ',)*' 9 2501? ';=12' 20*=*20*2,'=- 2> =/*.');,'21' 0* 2 ,*' .,6,*?*2,.' >62' D*' 5 +*2' 6,'=-*.*2,'-*^ 56-0 25'6>,;6/ 1-562 [6, 12' 2,1' >);->)*. ' ! ' < .. 126- ' >);->)^ *L .,' 2' 6// =6-,.' 1 ',)*' ? .. 126-A' 81-/0 ' *.,6D/ .)*0' D ' ? .. 126- *.' 1 ' ?6 2/ ',)*' 12012' < .. 126- ' 1^ > *, ',)*' ?*- >62' 16-0' 1 ' 1?? .. 12*-.' 1 ' 1-* 52' < .. 12. ' 620',)*' ?*- >62' < .. 126- ' ..1> 6, 12% ! J ' & ' ()*' 125-*56% >;/ 6-, *.' 0 *- 25' -1?',)1' 5*2*-6/ + *8' 1',)*' , 126/ >);->)*.' 6-*' '1-,)101LJ' 2,)*' 5*2*-6/ .*2.*' 1 ')-.,*201?')1/0 25',)6,',)*' >- =,;-*.' 6-*',)*' 12/ ' -;/*' 1 ' 6 ,)' 620' =-6>, >*' 620' ,)6,' 21' >-**0.' ?6 ' D*' ?=1.*0' 12' 62 ' *,' ,' .' ,)*' 0;, ' 1 ',)*' >);->)*.' ,1' .*,' 1-,)' 0*>/6-6, 12.' 1 ',)*' ;20*-.,620^ 25' 1 ',)*' >- =,;-*.' 2' 12 *.. 12.' 1 ' 6 ,)' //*5*0' *--12*1;.' 1= 2 12.' 6-*',1' D*',*.,*0')18*+*-' 21,' D ',)*' 12 *.. 12.' 1 ' 6 ,)' D;,' D ',)*' >- =,;-*.' ()*' 6-*' 2',)*-' + *8.' 1 ');?62' 26,;-*' ;5;.,/2 62' 2' 0 .,2>, 12' -1?' */65 62' 620' 6.' -*56-0.',)*' ?*,)10' Z ',)*' 0 + 2*' 51+*-2?*2,' 6/+ 2 .,>' 2' 0 .,2>, 12' -1?' -6 2 62' &) /*' 21' =18*-' >62' ?=1.*' 6' >-**0' 12' ,)1' >);->)*.' 620' *6>)');->)' 601=,.' ,.' 182C 1-^ ?;/6.' B7*',)*' =- 2> =/*.' 1' */*//18.) =' 2' 8) >)' 6' >1;2>/ 1' >);->)*.' .*>;-*.' 6' 5*2*-6/ 65-**?*2,' 2' 01>,- 2*% 1-' 6' ?1-*' 5*2*-6/ .,6206-0',)*' & *.,?2.,*-' 12^ *.. 12' 86.' 601=,*0' D ',)*' . 210' 1 ' 4 Q' ,)6,'1',)*' 6+1 ' M6' ./5),' ?10 >6, 12' D ',)*' . 210' 1 ' SQ ' ()*' 4*2*-6/ ..1> 6, 12' 1 ' <6..6>);.*,,.'>1?=-.25' S ' ?2.,*-.' 0*>/6-*.',)*' & *.,?2.,*-' 6,*>).?',1' D*' ,.' .,6206-0' 1 '01>,- 2*' ()*' 6, 126/ 1;2>/ 1' QS ' 0*>/6-*0' ! >1-*' '1';-' 60)*- 2>*',1',)*' 6 ,)' 620' 1-0*-.' 1 ',)*' 6=1.,1/>' 620' =- ? ,+*'>);->)*.')*/0' DA' 1;-' 6,)*-.' 620' .;D.,62, 6// ' 6.' *?D10 *0' 2',)*' >12 *.. 1,.' 620' =/6, 1-?.' 8)>)' 1;-' . 210.' 1 ' S Q 620' SQ ' .*,' 1-,)I' 1-' -*6 -?*0%J' ()*' .,;0 ' 1 ',)*' 1/15 ')6.' D**2' =;-.;*0' 8 ,)' 5-*6,'6-2*.,2*..' D ' 5-*56, 126/ .,.' 620' 6.' 6' >12.*_;*2>*' ?62 ' .)60*.' 1 '1= 2 12' 6-*')*/0' 8) /*' 6.' 6' D10 ',)*' .,620' 8 ,) 2' ,)*' / 2*.' 20 >6,*0' *7' ?62 ',)*1/15 >6/' 8-,*-.' 1 ' 5-*6,' =18*-')6+*' =;D/ .)*0' . .,*?.' 1-' >., >.?.' ;=12' =1 2,.' 2' 0 + 2, ' -1?' 8) >)')6.' 6-.*2' 6' + *8' 1 ' 6/+ 2 .?' 1 ' 8) >)' ,)*' 5-*6,' -*+ +6/ J' 0 -*>,*0' .' =18*-;/ *2*-5 *.' ,'1' .;>)' *L=/626, 12.' 1 ',-:,)' 6.' .)1;/0' -*?1+*' 1D.,6>/*.' .;==1.*0',1')*' 1;20' 2',)*' ,)*2' ;20*-.,620 25' 1 ' 6/+ 2 .?' ()*' + *8.' 8/ >)')*' =-1?;/56,*0' 8*-*' .;D*>,*0',1',)*' .>-;,2 '1 ').' .'12' -'B126,)62' 0^ 86-0.'' 620',)1.*' 1 'D1,)' 8*-*' 0*+*/1=*0' 1-' ?10 *0' D ' 6' .>)11/ 1 ' 8-,*-.' 6?125' 8)1?' ?6 ' D*' 26?*0' : 1=9 2.' & *.,' ?6 /* ' */*//6? ' ??12.' 620 8 5),' 620 '/6,*-' (6 /1-' 1 ' *8' : 6+*2' 620' 6-9 ' 1 ' 201+*-' & 6/0' 21,' 6//' 1 ',)*' .*' 65-**' 2' 6// =1 2,.' 620' 8) /*',)*' /6,*-' + *8.' 6-*' >12. 0*-*0' D ' ?62 ' ? 2 .,*-.' 620' >);->)*.',1' D*' ?6,*- 6// ' 0 *-^ *2,' -1?',)1.*' 1 ',)*' */0*-' 086-0.' *,',)*' 6/+ 2^ .?;.,)I7*L=/6 2*0' .' 8 0*℃.=-*60% ')*' 5-*6,'=-1D^ /*?' 1 ',) .' *8' 25/620',)*1/15 J')6.' D**2',1')6-?12 [*',)*' .1+*-* 52, ' 1 '410' 620',)*' **01?' 1 ' ?62 ' 620' -1?',)6,' >*2,-*' =*>;/ 6-,*.' 2' *L=/6 2 25' 1,)*-' 01>,- 2*.')6+*' =-1>**0*0% ()*' -*.;/,' 1 ',)*' * 1-,.')6.' D**2' 6' + *8' 1 ' 6/+ 2 .?' 1 ' 8) >)',)*' 1/^ /18 25' ?6 ' D*' >6//*0' 0 .,2>, +*' *6,;-*.% ()*' 01>^ ,- 2*' 1 ' .')*/0' 6.' 2+1/+ 25',)*')*-*0 ,6- ' >1--;=, 12' 1 ' ?*2 .' 26,; *7' D;,' 21,' 6.' 2+1/+ 25',)*' 5;/,' 1 ' ?*2' D* 1-*' 6>,;6/ ,-62.5-*.. 12% ()*' 01>^ ,- 2*' 1 ' % ' .')*/0' 6.' 20 >6, 25' 6' 26D /^ , ' 1-Z *;>)' 62' ;28 // 252*..' 620' 6+*-. 12' 6.'-*20*-.' >*-,6 2',)6,' ?62' 8 // 21,' >1?=/ ' 8 ,)' 410.' 0*^ ?620.' 8 ,)1;',)*' -*5*2*-6, 25' 5-6>*' 1 '410' D;,' 21,' 6.' 2+1/+ 25' 6' /6D $,E% ',)*' 1',)*' 01>,- 2*' .')*/0',)6,',6/f-6 .' >)11.*.',)1' 5-*6,*.,'6=^ =6-*2,' 5110' D;,' 8 ,)' 6'%=18*-' 1 ' >12,-6- ' >)1>*% ()*' 01>,- 2*' 1',)*' -*5*2*-6, 25' ' '? ' .')*/0' 6.' 2+1/+ 25',)*' 1 ' ,.' 6>>1?=/ .) 25',.' 1D^ A*>,'D;,' 21,' 6.' !' ()*' 01>,- 2*' 1 ' ' .')*/0' 2',)*' .;=-6/6=.6- 62' .*2.*' 1' ,)*' 51+*-2?*2,6/J',)*1- ' .')*/0% 2' -*56-0',1',)*' (-2, ',)*' 2>6-26, 12',)*' ?10*' 1',)*' + 2*' *L .,*2>*' *,>%',)*' *8' 25/620',)*1/15A7J')6.' 21' 5*2*-6/ + *8' 1',)*')-.,6%2');->)% ().'.,*?' .'D '21' ?*62.')*/0' D ' 6//' 125-*56, 126/ .,.% *-' ?62 ' =6.,1-.' 620' >);->)*.'>/6..',)*?.*/+*.'6?125',)*' 1/0*-' 6/+ 2 .,>' .>)11/.' 620' 6// 6-*')*/0' 2' 5*2*-6/ >12 1-? , ' 8 ,)' ,)*' *6-/ ' 12 *.. 12.% ()*' 125-*56, 126/ .,.' 6-*' 6*01C 6=,).,.' 6.' ,1' ?10*' 8) /*' .=- 29/ 25J' 1-' 6 ;. 12J' .',)*' 5*2*-6/ >;.,1?'60;/,.' 6-*')*/0' *2^ ,/*0',1' >)11.*',)*' ?10*',)*' >*2,1;./ *=-*.*-% ()*' 01>,- 2*' 1',)1' 1-0.' ;==*-' .' +6- 1;./ ')*/0' 6/,)1;5)' -6-*/ '0*D6,*0' D;,' 12/ '=*-.12.'=-1 *.. 25' 6')625*' 1 ')*6-,'6-*' 60?,,*0',1',)*' >1?2?;2 12' 620' ?*?D*-.' 1 '6// *+625*/ >6/' >);->)*.' 6-*' -**/ ' 8*/^ >1?*0% ()*' ' '@ "' .*,' 1-,)' D ',)*' 6^ , 126/ 1;2>/ 2' QS ' 601=,*0' 12' ;-6/ : //' 6,' / ?1;,)' <6..%'0*>/6-*.' M X',)*' 01>,- 26/ .,6206-0.' 1 ',)*' 0*21? 26, 12' 620' MKX',)*' =- 2> =/*.' 1 ',.' -*>^ 152, 12' 1 ' *//18.) =' 8 ,)' 6//',)*' *+625*/ >6/' D10 *.% ,' .' 6.' 1//18.a ' ,620 25' D ',)1' -1>9' 8)*-*',)*' /5- ?.' .*,' 11,' ;=12',)*.*' .)1+*.';=12',)*' .=1,' 8)*-*',)*' 81-.) =^ =*0' 410' 620' 6?125',)*' 5-6f0.' 1 ',)*' *6-/ ' 5*2*-6^ , 12.' 8*' */0*-.' 620' ?*..*25*-.' 1 ',)*' 125 T*56, 126/ >);->)*.' 1 ',)*' $2,*0' ,6,*.' 2' 6, 126/ 1;2>/ 6.^ .*?D/*0' / 9*',)*?'6>9218/*05 25' 21' -;/*' 1 ',)' D;,' ,)*' 1-0 1 '410' 01' 218' 0*>/6-*' 1;-' 60)*-*2>*',1',)*' 6 ,)' 620' 1-0*-' 1 ',)*' 6=1.,1/>' 620' =- ? ,+*'>);->)*.')*/0' D ' 1;-' 6,)*-.' 620' .;D.,62, 6// ' 6.' *?D10 *0' 2' ,)*' >12 *.. 12.' 620' =/6, 1-?.' 8/ >)' 1;-' .A 210.' 1 ' S Q 620' SQ ' .*,' 1-,)' 1-' -*6 -?*0% & *' 0*>/6-*' ,)6,',)*' *L=*- *2>*' 1 ',)*' 2*6-/ ',81' 620' 6')6/ '>*2^ ,;-*.' 8) >)')6+*' */6=.*0' .2>*',)*' ?*?1-6D/*' 06 ' 8)*2' 1;-' .-*.' 1;20*0')*-*' 6')-.,62' >1?? 12^ 8*6/,)' 8 ,)' 6//',)*' 0*+*/1=?*2,'1 '2*8' 1-?.' 1 '*--1-' .2>*',)*-',?*.')6.' 12/A' 0**=*2*0' 1;-' >12 0*2>*' 2' ,)*' 6 ,)' 620' =1/, ' 1 ',)1.*' 6,)*-.% & *' D/*..' 410' 1-',)*' 2)*-,62>*' 1 ',)*' 01>,- 2*.% >' 2+19*',)*')*/=' 1 ',)*' + 2*' *0*>?*-',)6,',)-1;5)',)*' =-*.^ *2>*' 1 ',)*' =-1? .*0' 1? 1-,*-')*' 80// *26D/*' ;.',1' ,-62.?',)*?' 2' =;- ,' ,1'1;-*>)/0-*2% ' 2',)*',?*.',)6,'6-*' D*' 1-*';-'6' 26, 12',?*.'6,' 12>*' 1 '0;,'620' 1 '0625*-' 8*' -*.,'6//1;-')1=*' 2',)*% 41.=*/1',)*' 12' 1 '410% ,'86.',)*' 5-620' =*>;/6-^ ,' 1 '1;-' ;-,62' 6,)*-.',)6,',)*')*/0',) .' 41.=*/' 21,' ?*-*/' 6.',)*' 5-1;20' 1',)*' -' =*-.126/.6/+6, 12' D;,' 6.' 0*>/6-25',)*' 81-,)' 1 ' ?62' " ',)*' 2>6-26, 12' 620' .6>- >*' 1 ',)*' 12' 1 '410' 620',)*-* 1-*' 6==/ *0

" " & & Q " " & &

,.' =- 2> =/*.',1' */*+6,*' .1> *, ' ,1' -*5 ;/6,*' *0 ;>6, 12 ' ,1' > + / [*') ; ? 62 , ' ,1' = ;- ' > + / 68 ' ,1' - *.' ,) *' ,6,* ' 620' ,1' 6 . . *-.' 620' 0* *20' / D*-1' , ' 1' 2' .) 1-, ' ,1' ? 1 ; /0' 620' -*0** ? ' D ' ,.' 6//℃,-62.℃ 1-? 25 *2*-5 ' *+*- ,) 25' ,) 6, ' D*/125.' ,1' ? 62' 2') .' 20 + 0 ; 6/ 620' .1> 6/ -*/6, 12.℁

,' 86.' ,) *' 6 ,) ' 1 ' 1 ; -' 6,) *-.' ,) 6, ' 56+*' ; .' ,) .' -**' /620' 2' 8) >)' 8*' 08*//℁ ,' .' D ' ,) .' 6 ,) ' 12/ ' ,) 6, ' 8*' >62', -62. ? , ' , 1' 1 ; -' >) /0-*2' 6' -**' 620') 6== ' D*>6 ; .*' 6') - ., 62' >1 ? ? 128*6/,) ℁

' & *') 1/0' , ' ,1' D*' 6' 0 ., 2>, +*' *L>*//*2>*' 1 ' 1 ; -' 125-*56, 126/ . .,* ?' ,) 6, ' ,' *L6/,.' ,) 6, ' 8) >)' .' ? 1 -*' 6D1+*' ,) 6, ' 8) >)' .' /*..' ? =1-,62, ' 620' D ' ,) *' . ? =/ > , ' 1 ' ,.' 1-562 [6, 12' 6> / ,6,*.' 2' >1 ? ? ; 2 I' , *.' 8) *-*' ,) *' =1=; /6, 12' .' / ? ,*0' ,) *' ; 2 12' 1 ' 6// , -; *' D*/ *+*-.' 2' 12**) - ., 62') ; ->)' 1 620' ,) 6, ' ,) *' 0 + . 12' 1 ' . ; >)' >1 ? ? ; 2 , *.' 2,1' .*+*-6/ 8*69' 620' ⍲*6/1 ; .' .1> *, *. ') 1/0 25',) *' .6 ? *' >1 ? ? 12' 6 ,D ' .' 6' . 2' 656 2. ',) *' ; 2 , ' 1 ' ,) *' D10 ' 1 ') - ., ' 620' 6, ' 12> *' ,) *' .) 6 ? *' 620' .>6206/ 1 ') - ..,*201 ? ℁

' & *' -*⍲1 >*' ,) 6, ' ,) -1 ; 5) ' ,) *' 2 /; *2>*' 1 '1 ; -' -**' . .,* ?' 1 '6=1.,1/ >' 1-0*-' 8*' >62') 1/0' */⁄18.) =' 8 ,) ' 6// 8) 1' 6>9218/*05*') - ., ' 620' 6>, ' * > *2, / ' 2' ,) *' 81-9' 1 '-*.,1- 25' ; 2 , ' ,1' ,) *' 0 + 0*0') ; ->) ' 620' 1 ' D- 25 25' D6>9') 6-? 12 ' 620' =*6>*' 6 ? 125' 6// ` 8) 1' /1+*' 1 ; -' 1-0' B*. ; .') - .,' 2' . 2>*- , ℁

' ( ) ; . `-*>152 . 25' ,) *' ; 2 , ' 1 ' ,) *') ; ->)' 1 ') - .,' 2' 6// ,) *' 81-/0 ' 620' 9218 25',) 6, ' 8*' 6-*' D ; ' 12*' D-62>) ' 1 ') - ., .' =*1=/*' 8) /*' 60) *- 25', 1' 1 ; -' =*>; / 6-' 6 ,) ' 620' 1-0*-' 8*' *L,*20', 1' 6// D*/ *+*-.' ,) *') 620' 1 ') - ., 62' */⁄18.) =' ; =12',) *' D6. .' ,) 1.* 5-*6,' ; 206 ? *2,6/ ,-; ,) .' 2' 8) >)' 6//) - ., 62.' .) 1 ; /0' 65-**℁ & ,)' ,) *? ' 8*' >12 *..' 1 ; -' 6 ,) ' 2' 410' ,) *' 6,) *- ' ,) *' 12' 620',) *' : 1/ ' 4) 1.. ' ,) *' 12/ ' / + 25' 620' , -; *' 410T' 2' B*.:.') - ' ,) *' 2>6-^ 26,*' & 1-0 ' 8) 1' .' *L6/,*0', 1' D*' 1 ; -' *0**? *-' 620' 9 25T' 620' 2' ,) *' : 1/ ' 1 ? 1-,*-' 8) 1' .' =-*.*2, ' 2' ,) *') ; ->)', 1' -*5*2*-6,*' 620' .62>, ' ,) *' .1 ; /℁

& ,)' ,) *' 8) 1/*') ; ->) ' 8*' >12 *..') *' >1 ? ? 12' . 2 ; /2*..' 620' -; 2' 1 '1 ; -' -6>*' 620' >9218/*05*' ,) 6, ' , .' 12/ ' ,) -1 ; 5) ',) *' 81-9' 6>>1 ? =/ .) *0' D ' ,) *' / *' 620' *L= 6, 1- ' 0>6, / ' 1 ') - .,' ,) 6, ' D*/ *+*-.' 2') ?' 6-*' A ; .,. *0' D* 1-*' 410' -*>* +*',) *' -*? .. 12' 1 ' . 2 ' 620',) -1 ; 5) ',) *' =-*. *2>*' 620' 5-6>*' 1 ',) *' : 1/ ' 1 ? ^ 1-,*-' 6-*' 0*/ +*-*0' -1 ? ',) *' =18*-' 1 ' . 2 ' 620' =*-^ *>,*0' 2') 1/ 2*..℁

' & *' D*/ *+*' 6/.1' 2' ,) *' 1-562 [*0' 620' + . D/*') ; ->) ' 2' ,) *' ? 2 ., 71 ' ,) *' & 1-0 ' 2' ,) *' .6>-6^ ? *2, .' 1 ' 6=, . .?' 620',) *' 1-0 .' ; ==*-.' 2' ,) *' -*. ; -^ -*>, 12' 1 ' ,) *' D10 ' 620' 2' ,) *' 26/ A ; 05 ? *2, ' ,) *' . . ; *.' 1 '8) >)' 6-*' *,*-26/ / *' 620' *+*-/6., 25' = ; 2 .) ^ ? *2, ℁

' & *' -*>* +*',) *. *', -; ,) .' 12',) *', *. , ? 12 ' 1 ' 410' 5 +*2',) -1 ; 5) ' =-1=) *, .' 620' 6=1. , /*. ' 620' 2' ,) *' / *' ,) *' ? -6>/*. ' ,) *' 0*6,) ',) *' -*. ; --*>, 12' 1 ') .' 12' 1 ' ; -' + 2*' *0**? *- ' 76, *. , ? 12 ' =-*. *-+*0' 1-' ,) *') ; ->)' 2',) *' >- =, ; -*. ' 1 ',) *' /0' 620',) *' *8' (*.^ , 6 ? *2, . ' 8) >)' 8*-*' >1 ? =*, *0' D ') 1/ ' ? *2' 6. ' ,) *' 8*-*' ? 1+*0' D ',) *' : 1/ ' 4) 1., ℁

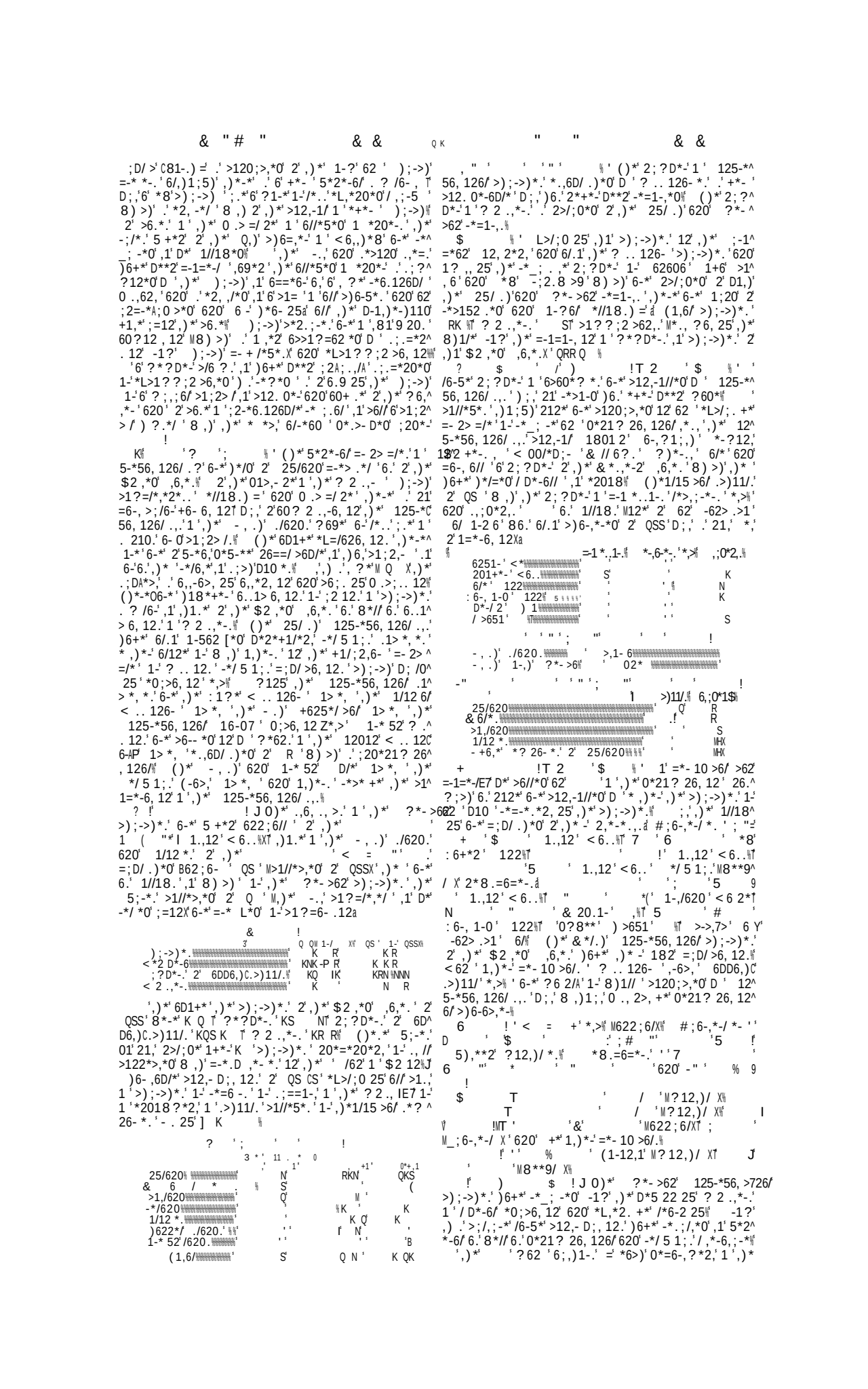
' -? 25' 218' 1 ; -' D*/ * ',) 6, ' ,) 1. *' 8) 1' ,) ; . ') 1/0' `12*' 6. ,) ' 12*' 1-0 ' 12*' D6=, . ? ' , 15*,) *-' >12. , ; , *' ,) *' 12*' >6,) 1/ >') ; ->) ' ,) *' .*+*-6/) 1 ; . *) 1/0. ' 1 ' 8) >) ' ,) 1 ; 5) ' >6//*0' D ' 0 *-*2, ' 26? *. ' 6-*' ,) *' 12*' D10 ' 1 ') - ., ' 620',) 6, ' ,) *. *' ? *? D*-.' 1 ') .' D10 ' 6-*' .6>-*0/ ' D1 ; 20', 1' 9**=' >,) *' ; 2 , ' 1 ' ,) *' .= - ,' 2' ,) *' D120.' 1 '=*6>* ' 8*' 0*>/6-*',) 6, ' 8*' 8 // >1℃1=*-6,*' 8 ,)' 6// 8) 1') 1/0',) *. *', -; ,) .℁ & ,)' ,) *' ? ' 8*' 8 // >6-- ' ,) *' 41.=*/ 2,1' '=6-,' 1 ',) .' /620' 620' 8 ,)' ,) *? ' 8*' 8 // 51' 2,1' 6// ,) *' 81-/0' 620' `=-*6>) ', ) *' 41.=*/ , 1' *+*- ' >-*6, ; -*℁' < 6 ' / *' , 1' 8) 1 ? ' `6// =18*-' .' 5 +*2' 2') *6+*2' 620' *6>-,) ' ; / ,) *' =-1 ? .*' 8) >)' .' 6// 1 ; -') 1=*a ` 1' ' 6 ? ' 8,) *' 1 ;' 6/86 ' *+*2', 1',) *' *20' 1 ',) *' 81-/0℁' ? *2⅋J

K℁ ' 6 % ' ( ) *' 01>, - 2*.' 1 ' ,) *' 25/ .) ' 12℃ 5-*56, 126/ .,.' 8*-*' .*, ' 1-,) ' 2' S R' 2',) *' 6+1 ' 12 *.. 12℁ .' 218' .,6, *0 ' ,) * ' 6-*' =-*.*2, *0' 2',) *' 0*>/6-6, 12' 1 ',) *' 125-*56, 126/ $2 12 ' 2' 6-, >/*.' 1 6' 6/+ 2 ., >', =* ' D ; , ' 21, ' =-*. *2, 25' 6' .>) 1/6., >' 1-' >- , >6/ >12 *.. 12' 1 ' 6 ,) ⅋J' &) /*' 6D/*' 8-, .*-.') 6+*' + 51-1 ; ./ ' ? 6 2,6 2*0',) *' 5-*6, ' 01>, - 2*.' 1 ',) *' *+62^ 5*/ >6/' >) ; ->) *. ' .=*>; /6, 12.' ; =12' 01>, - 2*' 01' 21, ' .**?', 1') 6+*' D**27>6-- *0' 12' 6.' *L, *2. +*/A76.' 2',) *' ? *- >62' >) ; ->) *. ' 620',) *' =*>; / 6- , *.' 1 ',) *' ' *8' 25/620',) *1/15 J') 6+*' 21, ' D**2' =-1 ? 2*2, / ' 0 .^ >; . .*0℁

℁' & ! J W℁ ' & ' ( ) *' 8) 1/*' 60 ? 2 .,-6, 12' 1 ' 125-*56, 126/ . ?' 5-18.' 1 ; , ' 1 ' ,) *' , 81' >6-0 26/ =- 2> =/*.' 1 ' M X' ,) *' >1 ? =/*, *2*..' 1 ' ,) *' /1>6/ >) ; ->)' 1-' ,.' 182' 51+*-2 ? *2, ' 620' MK⍲,) *' 2*>*..6- ' *//18.) =' 1 ',) *' >) ; ->) *.℁ 2' 6// ? 6, ^ , *-.' >12>*-2 25',) *' ' '" 6/12*' 21' 1,) *-' D10 ' .' 2*>*..6- ', 1' >1 ? =/*, *' 1-' .62>, 12' ,.' 6>, 12' 620' 212*') 6.' =18*-', 1' -*+ .*' 1-' 1+*--; /*' ,℁ ; , ' 2' 6// ? 6, ,*-.' >12>*-2 25',) *' " " ' ' " %' 6.' 6' 8) 1/*' ,) 1.*' >) ; ->) *.' =-1=*-/ '>12+*2*0' *L=-*. .',) * -' 1= 2 12.' 620' 0*, *-? 2*' ,) *' -' >1 ; -.*T' 620' 6/,) 1 ; 5) ' ,) * -' 0*>. 12' .' 1 ' 1->*' 12/ ' 2' . ; >)' >) ; ->) *.' 6. ' 601=, ' *, ') *' ? 1-6/ 8* 5), ' 1 ' . ; >) ' 0*>. 12. ' 5*2*-^ 6// ' .*>; -*' 6>_; *.>*2>*℁ ( ) *' ,81' =- 2> =/*.' ? *2^ , 12*0' / ? ,' *6>) ' 1,) *-℁

M ⅋' , ' " ' ' " " ' ( ) *' >) ; ->)' .' >1 ? =1-*0' 12/ ' 1 '=*-.12.' . ; ==1.*0', 1' D1' -*5*2*-6, *0' ; 2 , *0' D ' 6' >1+*262, ' 8) >)' -*>152 .*.' 0 ; , ' ,1' 410' 620', 1' *6>) ' 1,) *-' ? **, 25' 1-' 81-.) = ' .6>-6 ? *2, . ' 620' 0 .> =/ 2*℁ ( ) *' 51+*-2 ? *2, ' .' . , - >, / ' 0*? 1>-6, > ' .1' 6-' 6.' 5 + 25' ,) *' - 5) , ' 1 ' +1, 25', 1' 6// 60 ; /, ' ? 6/*.' 620' 8 ,)' 21' =18*-' 1 ' +*, 1' 2',) *' =6., 1-℁ ' +1, *' 1 ',) *' D-1,) *-^) 110' ? *? D*-.' 6-*' 60 ? , , *0' 1-' 0 . ? . .*0' 6// *5*0' 1 ^ *20*-.', - *0 ' 620' *2. ; -*.' =6. .*0 ' 620' 6// 1 >*-.' *⁄*, ^ *0℁ ( ) *' =*-? 62*2, ' 1 >*-.' 6->' =6., 1-' M1-' D .) 1=X' 620' 0*6>12. ' 8 ,)' >/*-9' 620' . ; >)' >1 ? ? , , **. ' 6.' ,) *') ; ->) ' 20.' 0*. -6D/*℁ ( ) *' =6. , 1-' .' 2*>*..6- / ' 62' 1-06 2*0' ? 2 . , .*-' 1-' > 0*-' 620' 1 ? ') .' =1. , 12' D .) 1=⅋J' : *' .' >) 1. *2' D ',) *') ; ->) ' 620' ? 6 ' D*' 0 . ? . .*0' D ' ,) *' D ; , >) T D ; ',) *' ; . ; 6/ 6// 62>*' 1 ',) *') ; ->)' 8 ,)' 62' 2>1=1-6, *0' > + / .1> *, ' 5 +*.',) *' =6. , 1-' 6' /*56/ -*/6, 12', 1' ,) 6, ' .1> *, ' MD ' 8) >)') *') 6.' 6/. 1' D**2' >) 1. *2' 2' >12>; --*2>*' 8 ,)' ,) *') ; ->) ⍲' 8) >)' ,) *') 0-*)' >6221, ' , 1 ; >) ℁ ( ) . ' 6// 62>*' .' 6' +6- 6, 12' -1 ? ' = ; -*' 125-*56, 126/ . ? ' 8) >)' .1 ? *' >) ; ->) *. ' 01' 21, '=-6>, >*T D ; ,' 26. ? ; >)' 6.' ? *? D*-.' 1 ',) *') ; ->) ' ; . ; 6// ' >1 ? =1. *' ,) *' 6-' /6-5*-' =6-, ' 1 ',) *' > + / >1-=1^ -6, 12') 6-? ' . */01 ? ' *2. ; *.℁

MK⅋⍲' , ' " '@ 2 "(%' ' " ' " " ! ' // >) ; ->) *.' .,620' 2' 6' . .,*-/ '-*/6, 12', 1' *6>) ' 1,) *- ' 620' 6-*' 1 ' ;20' 0 , 1' ; / / , .' 0 ; , *.℁ ( ) .' >1 ? ? ; 2 12' .' ? 62 *., *0' 2' ? ; , ; 6/ -*>152 , 12T' 2' 60 ? , , 25' ? *? D*-.' 1 ' 12*' >) ; ->) ' , 1' ,) *' >1 ? ? ; 2 12' 1 ' 621,) *-T 2' , *? =1-6- ' 2, *->) 625*' 1 ' ? 2 . , *-.T 2' ,) *' 0 . ? . .6/ 620' -*>*=^ , 12' 1 ' ? *? D*-.T 2' 5 + 25' 620' -*>* + 25' 60+ >*T 2' 5 + 25' 620' -*>* + 25') */=T 2' >12. ; /, 6, 12' 620' >1℃1=^ -*6, 12' 2' ,) *' *0 >6, 12' 1 ' 6' =6-, > ; /6-' >) ; ->) ' 1-' ? 6, , *-.' 1 '5*2*-6/ 8*/ 6-*' T 620' 2' 5 + 25' 620' -*>* +^ 25' 60 ? 12 , 12℁ ( ) *.*' =- 2> =/*.' / ? , ',) */20*=*20℃ *2>*' 1 ',) *' /1>6/ >) ; ->) ' 620' 6-*' * 2D10 *0') ',) *' 0*^ > . 12.' 1 ' >1 ; 2> /. ' 8) >)' 6-*' ,) *' >) ; ->) *.' 1 ' 6' 5-*6, *-' 1-' /*. . ' /1>6/ , ' -*=-*. *2, *0' *6>)' D ' =6. , 1-' 620' 0*/*^ 56, *' 620 I >12+>2*0' 1-' .=*> 6/ 1>>6. 12. ' AA>' / ? , ^ 25' * *>, ' ? 6 ' D*' .**2' ,) ; . d D>/->+>-.' 2' 6' 5 +*2' /1^ >6/ , ' ? 6 ' 1-562 [*' 6') ; ->) ' D ; , ' , ' . ' 21, ' 6.' 2' *//18.) =' ; 2, / 6' >1 ; 2> / 1 ' >) ; ->) *.' 0*-*0' 620' >6==-1+*0' 1 ' , .' -*>152 , 12⅋' D ; ->) ' ? 6 ' .*, , /*' 6' =6. , 1-' D ; , ') *' .' 21, ' 2' */⁄18.) =' 8 ,)' *,) *-' >) ; ->) *.' 6=^ 6// ' .*L>1 ? ? ; 2 >6, *' 6' ? *? D*-.' 620' 21' =18*-' 1 ; , . 0*' >62' -*=/6>*') ?' 2',) 6, ') ; ->) T D ; , ' 26. ? ; >) ' 6. ' ,) *' * *>, ' 1 ',) 6, ' *L>1 ? ? ; 2 >6, *' 6' ? *? D*-.' 620' 21' =18*-' 1 ; , . 0*' >62' -*=/6>*') ?' 2',) 6, ') ; ->) T D ; , ' 26. ? ; >) ' 6. ' ,) *' 1 ' ? ' 1 -1 ?' ,) *' >1 ? ? ; 2 12' 1 ' 6// >) ; ->) *. ' ,) *' 1,) *-' >) ; ->) *. ') 6+*' 6' - 5) , ' M620' ; 20*-' >*-, 6 2' > ->; ? . , 62>*. ' , ' . ' ,) *' -' 0 ; , ⍲' , 1' *L6 ? 2*',) *' >6. * ' 620' ' ,) *') ; ->) ' 6=^ =*6-.', 1') 6+*' *-⅋*0' -*>1 ? 2*20') .' -*. , 1-6, 12T' 2' 0*^ 6 ; /, ' 1 ' 8) >)',) * ' 0*, *-? 2*',) 6, ') .' */⁄18.) =' 8 ,)



/6,,*-' ,)*' 1//18 25' ?6 ' D*' ?*2, 12*0' 6.' ,)*' ?1.,' =-1? 2*2,a

2' " "' 1' 2',)*' ,)' >*2,;- 'B1)2' 1,,)' B1)2' 1-,12' ()1?6.' :119*-' >)6-0' <6,)*-'B1)2' 6+*2=1-,' 2>-*6.*' <6,)*-'M -*.% : 6-+6-0' 1//*5*X% 2',)*' Q,)' >*2,;- ' 1,,12' <6,)*-' 6?;*/ <6,)*-' B1)2' & .*' [-6' ,/*.'M -*.% 6/*' 1//*5*X% 2',)*' =-*.*2,' >*2,;- WB1)2' < ,>)*//' ()1?6.' % $=)6?' 6,)626*/ ??12.' *126-' 6>12' -*.,12' ;?^ ? 25.'4*1-5*% ;2>)6-0' :*2-A¢<% >L,* % ()*'81-9' 12' 125 7*56, 126/ .?J* " ',)*'/6.,'26?*0' 8)>)' .',)*'/6,*.,' ?*-'>62'81-9' .'6/.1',)*' ;//*.,'620' ?1.,' *L)6;.,+*'620' .'5*2*-6// '-*>* +*0'D ',)*' >);->)*.' 6.'6' .6 *'620'>1?=-*)*2. +*'5; 0*%

2' ' 1' 2',)*' ,)' >*2,;- % 41+% B1)2' & 2,)-1=' 6,)62 */ <1-,12' & // 6?' : ;DD6-0% 2',)*' Q,)' >*2,;-A7' 1,,12' <6,)*-' ()1?6.' - 2>*' B*-*?E' */926=% -,',)*' =-*.*2,' >*2,;- ' *126-0' 6>12' */6' % 086-0.'4*1-5*' ;2>)6-0% ()*'# 9 ' ' 'D ',)*'/6,,*-',),)1;5)'21,' *,' >1?=/*,*0' .'6'81-9'1 ',)1-1;5)'-*.*6->)'620'=*>;/6-+6/;*% 3

2' -" 1' 2',)*' ,)' >*2,;-A% 1,,12' 1-,12',)* <6,)*-.' ()1?6.')*=6-0% 2',)*' Q,)' >*2,;- ' 6?^ ;*/ & //6-0' I1; ' ' ' 8' B126,)62' 086-0.' B126,)62' 086-0.',)*'A71;25*-'B1.*=)' */6? ' 6?^ ;*/ : 1=9 2.' ,*=)*2'&*.,% 2',)*' =-*.*2,';>*2,;- ' B1)2' ?6//*f7 6,)62*/ ??12.' .6' ;-,12'B*..*' ==/*,12'M -*.% 1801 2' 1//*5*X' *126-0' &110.' 21>)' 120' (?1,)' 8 5),'M -*.% 6/*' 1//*5*X' 086-0' % 4- 2'M -*.%& // 6?.' 1//*5*X' 6,)62 */ &% (6 /1-' *22*,,' (/*-' ?62' **>)*-' 086-0' .*>/*-')6-/*.' 4% 22* 'M -*.% D*-/2' 1//*5*X' .6' <6)62'M -*.% D*-/2' 71//*5*X' <6-9' :1=9 2.' M -*.% & // 6?.' 1//*5*X' 086-0.' % 6-9' :1-6>*' ;.)2*//'4*1-5*' % .)*-% 3

2' " ' 1' <1.*.' ,;6-,% ()*' ? .. 12C 6-*.'1',)*' ?*->62' 16-0')6+*'?60*'+*-''*L,*2. +*' >12,-D;,12.'2',)*'/625;65*.'1',)*'81-/0'6.'8*//6.' ,1'5*2*-6/.>*2>*T6?125',)*.*' <-12' & 2./18'.' .=*>6// '=-1? 2*2,%

2' # ' '$ ' ' '5 ' 1' 08% :,>)>1>9'M -*.% ?)*-.,' 1//*5*X'B6.*<6-.)' B1.*=)' % ()1?=.12' >)6-0' %,1--.'B-%' :.,2')*/=.':*2-'& 6-0' **>)*-' ;5;.,;.' % ()1?=.12' 6,)62' % .9*' *)*?6)' 06?.' 6' 6/?*-' M)A7?2.'620'1,)*-'-*/5 1;.'=1*?.X' 18*// <6.12'M 2' .6>-*0'?;..>X':;DD6-0' & 2./18'B1%.*=/':6+*2' ;^ ;.' 20*-.12'M.*>% % % % <%X' 16)' 1-,*-'B-%' B1)2' 1-0' 6?;*/ % 6-,/*,,' *126-0' 6>12'()1?6.' % $=)6?' *126-0' &110.'B-%'B6?*.' % & 6/9*-%

2' 25/620'6,-*-'B1)2' 1D 2.12' 8)1.*' 8-,25.' 7 2' * 0*2' D*562' .,2*,A7 125-*56, 126/ /,*-6,;-*' 76-*' 1;20',)*' 26?*.' 1' < /,12' 41108 2' A7*'B1)2' 8*2')6-21>9' 6,,.' 100-05*' 620'/6,*-' & 6-0C /68' 6+0.12' *8?62':6//' 1D*-,' 6;5)62'B1)2' 25*/' B6?*.% :62D;-.' # '.'6' 81-9'1' 5-*6,') .,1->6/+6/;*%%

% $ ' !J .' 125-*56, 126/ ..'60? ' 21' '.,6206-0.'1 ') ;?62'0*+.25',)*-*'6-*'=-1=^ *-/' 21' " ' 1-' 51+*-2?*2,'1-'01>,-2*'D;',)*-'=-2>=/*.'6-*'.,6,*0' 2' *>/6-6,12.' 2' 8)>)' ,)*' 6-*'65-**0'620'8)>)'>6--'5-*6,'?1-6/1->*% ()*'=-2>=6/'12'01>,-2*'6I*',)*' *..?2.,*-' 12^ *..12'6.'-*+.*0'D',)*'6+1' 210' 2' 4 R'620' 656 2'D',)*' 1.,12' 210'1' SQ T',)*' -2>=/*.' 1' */5 12J'1',)*' 125-*56, 126/ $2 12'1' 25/620' 620'& 6/*.T 620',)*' ' *>/6-6, 12'1' 6 ,)J'.*,' 1-,)' D',)*' ?*->62' 6, 126/ 1;2>/2' Q % '*>>/*^ .6.,>6/=1/, ',)*'=-2>=6/6->',)*' 6+IEI7 -0*-'1' ,)*');->)*.J' 2' S RT ,/*' 6?D-05*' /6, 1-?J' 2' S QT ,)*' 6A7D-119 /6, 1-?J' 2' Q T ,)*' -2>=/*.'1');->)' -0*-'6-0' .>=/2*J' 1',)*' 125-*56, 126/ $2 12'1' 25/620TJ'620',)*' /6,^ 1-?' 1');->)' 1/,EJ'1',)*' 6, 126/ 1;2>/2' QS % ()*'81-9.'1'?62'8-,*-.'6-*'6/.1'>12.0*-*0' 1'5-*6,'+6/;*'6.'.)18 25'8)6,' 125-*56, 126/=-2^ >=/*.'620';.65*.'6-*% ()*'+1/;?*.'1',)*' 9 'M 1.,12X 6/.1'>12,6 2'>6-* ;/0.>;.I' .12.'12',)*'.*+*-6/=1 2,.'1'=1/,'6.'8*//6.') .-' 620';-2.)' ;// .,6,.,>.'6.'6-*'_1//*>,*0'2'4-*6,I -,6 2%

*25-*56, 12 .,.'1-' =1.,1/>6/' 125-*C' 56, 12'6'0*.526, 12'1',)*'$/,-6?12,62*'=6-,'2' -62>*' 8)>)' ;20*-',)*'-* 52' 1/7 6=1/*12' '-*^ .;?*0',)*'0 -*>,12'1'=-?6-'2.,-;>,12'620'*.,6D^ /.)*0'-*/5 1;.'6..1> 6, 12.% ,*-',)*'-*.,1-6, 12'1' ,)*' 1;-D12.',)*'=18*-'1',)*' 125-*56, 12 .,' 2^ >-*6.*0' -6= 0/A7 620',)*' ?60*'*L,-61-0 26-'* 1-,.' ,1'D- 25'D6>9',)*');->)'1' -62>*';20*-',)*'01? 2^ 12'1' 1?*% ()*AJ;.;-=*0',)*'>12,-1/1'=;D/>' 2^ .,-;>,12'*.,6D/.)*0' >1//*5*.'620' .*?26-*.' >12^ 2*>,*0',)*?.*/+*.' 8 ,)',)*'B*.;,.'620'*+*2'56 2*0' ,)*'>12,-1/1',)*'=1/>*'1' 6-.% ()*-'/*60*-.')*/0' ,)*')5)*.,'.,6, 12.'6,'>1;-,% ()*'?6,*-6/?62.'1' ,)*' 125-*56, 12'8*-*',1'7/6-5*'*L,*2,' ;-2.)*0'D' ,)*/6D1-25'>/6..*.'M 2' QKS',)*-*'8*-*' '=*-.12.' >12,-D;,25'*6>)'12*'>*2,'6'8**9X% ()*'>*/*D-6,*0' 6?*226.'D*/125*0',1',) .'=6-,EW ,'/6.',)*'-';.;-^ =6, 12'1'=18*-'56+*'-.*',1',)*'1-?6, 12'1'6'>1;2,*-C =6-,A'8)>)'5-60;6// '56 2*0'.,-*25,)'620'2/;*2*>% 2' QKS'>1;2,' <12,/1.*-'=-1+*0',)*'*L.,*2>*'1',)* 125-*56, 12',1'D*' //*56/% '/6-5*2;?D*-'1'D .)1=.' 6==*6/*0',1',)*'9 25'656 2.',)*'6D;.*'1',)*'46/*62' /D*-,*.% ()*' 125-*56, 12'*20*6+1-*0',1'*L>,*',)* 626,>.?'1',)*'=*1=/*'D'.*-?12.'620',-6>,.'D;,'2 QK',)*' 5)*-')6?D*-'-*.1/+*0',1'2,*-*-*'6>,+*C E7 2'=;,,25'0182'6// B*.;,>'6..1>6, 12.'620'2 QKQ',)*'>12,-1/1',)*'=-?6-'.>)11/.'&6.'5+*2',1' ,)*'?2..,*-'1' ;D/>'2..,-;>,12% ,'86.',)*2'0*^ >0*0',)6,'+*-.*6>)*-'.)1;/0'0*>/6-*'2'8-,25',)6,')*'86.'21,'6'?*?D*-'1'62A7 1-D 00*2'-*/5 1;.'6..1^ >6,12'1-'D*'.;.=*20*0% '/6-5*'2;?D*-'1' 125-*^ 56, 12.,'/*,'-62>*'2'>12.*_;*2>*'D;,',)*-'2/;^ *2>*'8)>)'?60*',..*/'*/,'+*+2'6,*-',)*-0*=6-,;-*' 86.'21,'*2,-*/'%/1.,';2,/,)*' *+1/;,12'1'QN %''* ->-'2 + 1' +'N Q%

125-;,% **' #!

1;6)'M:*D% 2',)*'=-1/125*0'1-?') (" 1' 6'>12,-6>,*0'1-?'1'D ":' *=,%] 1E' 621,)*-'?10*'1'8-,25'MB*-%LL 'K KQT' LLL+' X' ,)*'26?*'1'9 25'(' ' 'M_%+%X%

1;.% **' . !

1;A;-6, 12',)*'1C?'1'81-0.'1-'>*-*)12'D' 8)>)'06*?12.'6-*'.;==1.*0',1'D*'*L=*//*0'2',)*');->)'1'1?*% **'>. !

122*//'2 '6'<*,)10.,' =.>1=6/?2^ .,*-'86.'D1-2'2' 122*//.+//*'6A*,,*' 1;2,'6%' *=,*?D*-' R % 2' Q ').'6,)*-'-*?1+*0',1',)*' *.,'620'.*,,/*0'2' 06?.' 1)2,')1% :.' *6-/'*0;>6, 12'86.'.;>)'6.'>1;/0'D*'1D,6 2*0'2',)*' 7*.,6,',)6,'06 '8)>)')*0/5*2,/'?=-1+*0' :*' 86.'6' 6,),)/.,;0*2,'620'D*>6?*'7'8.*'?62% :*' *2,*-*0',)*' ,2*-62,'?2.,-*'620'=-*.0 25'*/0*-'8,)';2^ 1-?' 0*/,A7620'.;>>*..';=',1',)*'*6-*'1'D.'0*6,)% <*,)10.?'2')1' .'/6-5*/!' 20*D,*0',1')?'21,' 12/'1-'.,'*L,*2,')';*'1-',.'>)6-6>,*-% ')'[*6/ 6.'6'=-*6>)*-'620')'.'.9 // 6.'62'60?2.,-6,1-')* 56 2*0'620'9*=,',)*'>12 0*2>*'1',)*');->)'0;-25' 2./125'>6-**-'1'.*-+>*% :*'86.'+*',?*.'*/*>,*0' ,1',)*'4*,*-6/ 12*-*2>*% :*0*0' *><D>-'N' QSN!T ' ' 1' QS '=% N%

1212'D.)1=' 1'1?*% :*' '26,+*'1'(*?C *.+6-'2'<.6'M218' :;256-X'*0;>6,*0'2'>/' 620'86.'*/*>,*0'D.)1=' 1'1?*'>,%K'SQS% :*' .*2,',)*'-.)'?..126-' /62',p4*-?62',1'=-*6>)' ,1',)*'=6562'();-25 62.% :*0*0'*=,%K SQ %

121;76)'MK')-12% LLL' K NX% **' 4 :%

1212,*.'1//18*-.'1' 1212'D.)1=' 1'(6-.;.' 2' />6' 2',)*'4,)'>*2,;- '6'0.>=/*'1'B1)622*.

.1?*' 1,)*-' =*-.12J'M 60 *' ' 1 =-*. 0*2> ' 1 ',)*' =1=*' 1-' 1 ',)*' 0*62' 1 ',)*' >1//*5*' 1 '
.% %% >6-0 26/.% ()* '6-*' >6//*0' ' I 1'
N% ' " " % ' ()*');->)' 1 ' 25/620' ' 8!' &)*2 '12' .1/*?2' 1>>6. 12. 'D7 '=.' 620'
-*,6 2.',)*' ;.65*' 1 '>12.*>-6, 12' D1,)' 1-');->)' *0 ^ ,)*' ? 2 .,*-.' 1 ' 1-* 52' =18*-.' 6-*' 60? .,,*0 ',)* ' 6->'
>*.' 620' >*?*,*- *.% &)6,' .' >6//*0',)*' >12.*2 6, 12' > 6 / / * 0 '> '% " (8! ()*' /6,%
1 '6' >);->)' 6,' =-*. *2,' . ' =;-*/ '6' " '1221,' 6' -*/ 5% ,*-' 6-*' 6/86 .' =-*. 0*0' 1+*-' D ',)*' =1=*% ' 1,)
1;.X' 6>,' 0;/ ' .*,, 25' 6. 0*' 6' >*-7 2' D; /0 25' -1?' ,)*' >6-0 26/.')6+*' 12/ '6'>12. ;/,6, +*' +1,*% ()*' .; I'
.*>;/6-' ;.*.% ()*-*' .' 21' 1-?' 1 '=-6 *-' 1-' >12.*>-6^ A*>,.' 8) >)' 6-*',1' D*' 26// '0 .=1.*0' 1 ' 2' 6'>12. .,1- '
, 12' 1 '>);->)*.' =-*=6-*0' D ' >1?=*,*2,' 6;,)1- , T' ' 6-*' -.,'.*/*>,*0' D ',/*'=1=*' 8 ,)',)*' 6 0' 1 '62' *L,-61-^
.'/*.',,1' *+*- 'D .)1=',1';.*' 62 '8) >)')*',) 29.' ,' 0 26- '>125-*56, 12'>12. ., 25' 1 ',)*' 1/0*.',1',)*'
,)1;5)',)*' 1-?' 8) >)' 86.' =-*=6-*0' D ',)*' D .)1=.' , ? *' 1 '6==1 2, ? *2,X' >6-0 26/' D .)1=',)*' 1/0*.';>6-0 ^
2 K' .',)6,' ?1..' 5*2*-6// ';.*O% ;.' 6//0*L ., 25' 26/ =- *.,'620',)*' 1/0*.';>6-0 26/ 0*6>12',)*' >6-0 26/
;26;,)1- [*0' 122.' 6-*' //*56/' 620' >12,-6- ',1',)*' + >*(>)62>*//1-',)*' >6-0 26/ >)6?D*-/6 2' 620',)*' >6-^
>,' 1 ' $2 1-? ,' M 0*2' .% +%X% ()*' 1-?' 1 ' K' 0 26/ .*>-*,6 '1 ' ..6,*T' 620' D ',*-',)6,' -* =-*=6-6,1- ' 0*/ D*-6, 12' ,1',)*' *--*0' ;-'
86.' 601=,*0' 8 ,)' ./ 5),' ?10 >6, 12.' D ',)*' -1,*.^ ! **' ! ()*' -*.1/;, 12.' =6..*0' 9
,62,' = .>1=6/');->)' 2',)*' $2 ,*0' ,6,*.a' ,' ,' 6,'.*>-*,'>12. .,1- *.' 6-*'=-1?;/56,*0' 2' 6'=;D/*'>12^
5 +*2' 2',)*' -6 *-CD119% ()*' 122' ;.*0' 2',)*' . .,1- J' 620' ?1../ '6>>1?=62 *0' / '6' .1/*?2' 2/9C'
<*,)10 .,' = .>1=6/');->)' M 1-' *0 >6, 12X' .',69*2' >;, 12J'M %+%X'1 ',)*' =1=*' &) /*=-*. 0 25',)*' =1=*'
=6-,/ '-1?'6' 1-?' 1 '>12.*>-6, 12' =-*=6-*0' D ' D .)1=' .' ?1;2,*0' 12' 6' ?652 >*2,',)-*2*' 620')6D ,*0' 2').'
20-*8*.' 620' =6-,/ '-1?',)*' 6D1+*C?*2, 12*0' 1-?' =12, >6/ 6'T 12').'-5),',.',)*' >6-0 26/ D .)1=.' 620'
1 ' K% ,'?6 'D*' 1;20' 2',)*' % 'M=,% +'>)% =-*.,.' 620' 12',)*' /* ',)*' >6-0 26/ 0*6>12.% ()*'3
+ X% ()*' 2*8' ,;-5 ' 1 ',)*' 4*-?62' *1-?*0' 1,)*-' =-*/6,*. ' =-1,)1201,6-*. ' 0;0 ,1-.' 1 ',)*' -1,6'
);->)J' 2' ?*-.>6' >12,1 2.' 62' *L>*//*2,' 1-?' 1-' 620'1 >*-.'6->'.*6,*0' 12',)*'.,*=.' 1 ',)*',)-12*T',)*'
,)*' >12.*>-6, 12' 1 '6' >);->)' 6.' 01*.' 6/.1',)*' ' .;-^ >1;-,*-.' 12',)*' 5-1;20T' 6?D6..601-.' 12',)*' -5),'
5 '1 ',)*' +625*/ >6/ ;.)*-62');->)J'Mg' NX% 620' >12. .,-.>-6/ 620' .>6/ 60+1>6,*.' D*) 20',)*' >6-0 ^
12.*2.;.' 4*2*+* . '6' >12 *.. 12' 1 ' 6 ,)' 26/.% ' & *,[*-' ;% & */,*') " = ! ' Q7 '620' QK %
0-682';=' D ' 6/+ 2' 2' S ',.',/*' .' ' ' K% /6',)*' " ' " " ' >12. .,1- *.' 6-*'
'% 1 1'4 ' ' ' ' " ')16-0.' 1 ' >/*->6/' 620' /6 '1 >*-.' 6==1 2,*0' A ',)1'
1' N ' ' & ' 4* ' !' '% '4 ' ' .1+*-* 52' 1 ',)*' >1;2,-' 6.') 5)*.',))-=' 1-',)*'
" 1 1' '% ' ? =' 60? 2 .,-6, 12' 620' .;=*- 2,*20*2>*' 1 '*>>/*. 6., >6/
%1' 'D! ' % 'M4*2*+% K' Q+1' 2' ==% 6 6 -.' 1-' *L*->. 25' A;-.0>, 12' 2' ?6-- 65*' 6 6 -.'
+ ' :QX' ,' .' 5 +*2' 2' *?* *-' ' =' 620' 1-' 2 / >, 25' *>>/*. 6., >6/ =*26/, *.% ()*' -.,
'M Q X'=% KNQ*,' ._% ,.' =;-=1.*' 86.',1';2,*',)*' >12. .,1- '86.' *.,6D/ .)*0' >,' & ,,*2D*-5' 2' N ',)*'
8 ..' >);->)*.' 8 ,)' -*56-0',1'=-*0*., 26, 12' 6.',)*' .*>120' 6,' *=[>' 2' N% ()*' ?*?D*-.' 6-*' >6//*0'
' 'M_% +%X')60'.*-+*0',1'01'8 ,)'-*56-0' '>12. .,1- 6/ >1;2>//1-.H' ,)*' >) *' '>12. .,>- 6/
,1',)*' .6>-6?*2,.% _;=-*.*2,.',)*' 6/+ 2 .,>',)*1-' =-*. 0*2,%J' ',)*-*' 6-*' ?1-*',)62' 12*' >12. .,1- ' 2
1 '=-*0*.., 26, 12' 8 ,)' 5-*6,' >/*6-2*..' 620' 0*> . 12% ' ' 6' >1;2,-AJ' 6' .;=-*?*' 1-' 26, 126/ >12. .,1- 7 '>" ' ' '
? ,) .' : 65*2D6>) '# ! 'D9% + ' >)% 'g' K% 'C 8 .' =/6>*0' 1+*-' (
' ' " ' ' ! 'D9% + ' >)% 'g' K% ,)*' =-1+ 2> 6/ >12. .,1- *.%J' ',)*' - 5),',1' *.,6D^
12.*2.;.' (5;- 2;. '6'>12 *.. 12' =-*=6-*0' D ' / .)' 6' >12. .,1- '86.' >12>*0*0' / ',)*' .1+*-* 52' 1 '6'
6/+ 2' 2' R' 620' 601=,*0' D ',)*' U;->)',)*1/15 62.% >1;),-',1' 6' -1D/*?62' 1-' >, J' .;>)' 6' >12. .,1- 7' 86.'
' ,'5-*8' 1;,'1 '6' 0*. -*' 12',)*' =6-,' 1 ' 6/+ 2',1'* *>,' >6/%0' 6' ?*0 6,*' (1' >1 = = 8!'
6' ;2 12' 6?125',)*' * 1-?*0' ;=12',)*' 01>,- 2*' 1 ',)*' *6-/ ' 6// ,)*' >12. .,1- *.' 1 ' ,) .' >/6..')6+*' D**2'
;>)6-.;.%J' ,.',/*' ' ! -! ' D!' (' 620' >12. .,', 6D1/ .)*0' ,' ?10*-2',?*.% ',)*' =18*-' 1 '>12. .^
1 'K4 6-,>/*.' > ' L%%!' + '=% S Q' ._% 620' 2').' ,1- *.' 86.' 0* 2*0' / J',)*' =- 2>*.' ,' 0 *-*0' 2' 0 *.^
- ' + ! \4*2*+% S T ?.,*-% SS' 1 h' ' *2,' >1;2,- *.% 2',)*' ' ' >);->)*.',)*' 26?*'
86.' .*=6-6,*/ '=- 2,*0' 2' 'D ' 1D*-,' ,*=)*2' 620' >12. .,1- ' .' *_;6/',1',)*' A >.D ,*- J1',)*' -*.D ,*^
.' 5 +*2' 2' 7?* *-' ('\ 7 h' =% - 62' >);->)*.% 1-' ;// 2 1-?6, 12' >12.;/,')?*-'
R' -_%X% ')*00' #(' ' 'D9% + ' >)% ' D '6 ' '620' >),*-') " ='
g' KT' : 65*2D6>) '# ' ' 'g' KKK%

12./6' +625* >6' 2',)*' 1?62' 6,)1/>'
);->)'6->'.;>)'?1-6/>1;2.*/.' 6.' 6-*' 21,'1D/ 56,1-7'
1-')-.,62'D;,'6->' 2' 1-0*-',1' =*-^
>,12% ()' 26?*' .' 5*2*-6// '6==/*0',1',)*',)-**'
?126.,>'+18.'1' +-5 2, '+1/;2,6-' =1+*-, '620'
1D*0*2>*' M,1',)*' ?126.,>'.;=*- 1-X'D;,' .1?*',)*^
1/15 62.' 1 ',)*');->)' 1' 1?*' >1;2,' 6.' ?62' 6.'
,8*/+0' *+625*/ >6/ >1;2> /.%J' ,' .' 2**0/*..',1'.6'
,)6,' -1,*.,62,.' 60? ,' 1 '21' .;>)' 0 ., 2>, 12.% ' : *-^
[15' =6 %!' ' R% **' $//N .!
12. .,1- ' M 6,% 8' 6' 26?*' 0*. 526^
, 25' 6' >1//*5*' 1 ' ?*2' 8)1' 6>,*0' 6.' 60+ .*-.' 1 ',)*'
1?62' *?=*-1-.' 2' ?=1-,62,' 6 6 -.' ',)*' .,6,*' 6.'
8*// 6.' ,)*' =/6>*' 8)*-*',)*.*' ?**, 25.' 8*-*')*/0%
% 2',)*' # ' " ' "' ,)*' 62?*')6.' -**
_;*2,/ 'D;,' 21,'5*21-6//EJ'D**2';.*0',1'0*. 526,*'>1/^
/*5*.' 1 ' ?*?D*-.' 1 ',)*' >)6=,*-' 6/.1',)*' *= .>1=6/'
>)6=,*-.',)*?.*/+*.'+*8*0'6.'6'8)1/*' 2',)*' -' -*/6^
, 12.',1',)*' /X .)1=' 620',1',)*' 0 1>*.*% % 9
'1-' ' > ' =' 620' .1' 5-16,' 86.',)1'
(8'6-*' ?**, 25.'1',)*'>1//*5*.'1'>6-0 26/.'>6//^ 2 /;L' 1 '=*-.12.',)6,' ,' 86.' -*>912*0',)6,' 21,'/*..
0' D ',)' =1=*' 1-' 0*/ D*-6, 25' 62' ?=1-,62,' 6 6 -.'
1',)*');->)' 620' 5*2*-6// ';20*-).' =-*. 0*2> %'
()*.*' >12. .,1- *.' 6->' =-A-,/ '-*5;/6-' M;.;6// '12>*' 6'
1-,2 5),X' 2' 8)>)'12/ '>6-0 26/.',69*'=6-,';20*-',)*

,)62' ,) -, ' ,)1; .620')1-.*.' 8*-*' D-1; 5),' ,1' 12^ .,62>*' 8) >)' ?6 ' 5 +*' .1?*' 0*6' 1 ' ,)*' *21-?1; .' >12>1;-.*' 1 '=*1=/*% ,' .'..,6,*0',)6, '0 ;- 25',)*' .*.^ . 12',)*' *?=*-1-' ,)*' =1=*' ,8*2, ' =- 2>*. ' 12*') ; 2^ 0-*0' 620' 1-, ' >1; 2,. ' ?1-*' ,)62', 8*2, ' >6-0 26/. ' .*+S2' =6,- 6->) . ', 8*2, ' 6->)D .)1=. ' 2 2*, C12*' D .)^ 1=. ' . L') ; 20-*0' 1,)*-' >/*- >6/ 0 52 ,6- *. ' 620' 6D1; ' 1;-' ,)1; .620' =- *.,.. ' 8*-*' =-*. *2,' 6,' ,) .' >*/*D-6,*0' 6.6*?D)% ()*' =-*,*20*0')*-*. *.' 1 ' & >9/ *' 620' : ;..' 8*-*')*-*' >120*?2*0' 620' ,)*' /6,,*-' 21,8 ,)^ .,620 25',)*' 6. . ; -62>*.' 1 ' .6 *, ' 5 +*2') ?' D ',)*' *?=*-1-' 86.' D; -2, ' B; / ' S' ' \.**' : ; . .h ' 620') .' - *20' 620' >1?=62 12 'B*-1?*' 1 ' -65; *' ?*,' 8 ,)',)*' .6?*' 6,*' <6 ' N ' S' \.**' (; ' ()*' ,)-**' =1=*.' 8*-*' 1-?6// '0*=1.*0' 620' < 6-, 2' N' 86.'/*56// ' >)1.*2' ,1',)*' >)6 -' 1 ' ,% *,*-†' D; ,' 2.,*60' > ' ; -^ ,)*- 25',)*' *?=*-1- .' 8 .)*.' 1-' 6' -* 1-?6, 12' 2',)*' 6 6 -.' 1 ',)*'); ->) ')*',)86-,*0') .' =/62. ' 620' 21,)^ 25' 86.' 012*' , //',)*' 1;2> /1 ' 6./*'M_% +%X% ',) .' >1;2> /',)*' ; -*., 12' 86.' ' 86? /E7 65 ,6,*0' 8)*',)^ *-' ,)*' 6; ,)1- , ' 1 ' 62' >** , ?*2 >6/ >1;2> / .' 5-*6,*-' ,)62',)6,' 1 ' 6' =1=*' 1-' 21,H' 4*-.12' =-1+*0' ,/ 6, ' 2' >*-,6 2' >6.*.',)*'); ->) ' 1-' 8) >)' .',)*' .6?*',) 25 ' 62' 1*>; ?*2 >6/ >1;2> / '>62' 6..*?D/*' 8 ,)1';,)*' >1?^ ?620' 1-' >12.*2, ' 1 ',)*' =1=*' *+*2' .; ==1. 25') ?', ,1')6+*' D**2' >6212 >6// '*/*>,*0' 620',1' / '+*' -*.=*>,6D/ % ()*.*' =*>; / 6-' >6.*.')*' .,6,*.', ,1' D*' ' % ',)*' =1=*' D* 25' 6>>; .*0' 620' D-1; 5),' 2,1' 6' =1. , 12' -*_; - 25' ,)*1= 2 12' 1',)*'); ->) ' -* ; .*', 1' >12+19*' 6' >1; 2> / 1-',)*' =; -=1.*% K% &)*2' ?=1-,62, '?6,,*-.' >12>*-2^ 25',)*' 51+*-2?*2, '1',)*'); ->)' 6-*' 2' 65 ,6, 12' -*^ _; - 25', 1' D*' .*,' 6, ' -*.,' D ' 62' 1*>; ?*2 >6/ >1;2> / ' 8) >)' 2*+*-,)*/*.. ' ,)*' =1=*' -* ; .*.', 1' >12+19*%J' ()*' .1*' =*>; / 6-' >6.*.') 2 1-?6, 12' 6.' ,1',) .' >1;2> / 6-*' 6?^ =/*' d 6?125', / *?'6-*' 62' 0*-' : 6-0, ' % = ' ' (' M*O% 1)2., *0, ' *-/ 2' K' S' +1/.% 1/%X†)6., *2>, ' 1; -! ' ' ' 'M 6- . ' Q' ,1X† 2 62, '# ' ' ' ' ' ' 'M ?., % K ' 1/%X† ,)*' .6?*' ,-62./6,*0' M 120% N ' K' +1/.% ,1X% **' 62012' ' ' 1' SX' ._%†' //6.*' "!' D !' K ' KR ' N Q†' <1.C)* ?' "' ' ' KS' . %† & *..*2D*-5 ' ' ' ') + !' +1/% /†' & *,[*-' ;% & */,*') " = O !' 'Q R† : *-[15' 5 =6 !' ' %

12.,62, '8 5! . '6' 0 ., 25; .)*0' -*2>)'=1/ ^ , > 62' 1',)*' / D*-6/ .>)11/' 86.' D1-2' 6, ' 6; .622*' S † *0; >6, *0' 2' 25/620' 620' 4 *-?62 ' : *' *2, *-*0' =; D^ / >' / *' 2' RR† 86.' D62 .)*0' D ' 6=1/*12' 2' Q †' ,119' 1 >*' ; 20*-' 6=1/*12' 12') .' -*, ; -2' -1?' /D6' Q †' D*>6?*' 6' =1=; /6-' -*=-*.*2,6, +*' ; 20*-')6-/*. d †' 620' 0 *0' *>% Q QN % : 1' 8-1, *' /6-5*/ ' 2' =1/ ^ , >.†' D; ;' .' 1; -' =/6>*' 12/ ',1' ?*2, 12') .' ,-*6, .*' ' 5 1' %% 'M 6- .' QK CN ' '+1/.% Q+1X' 620' 6' =1.,) ; ?1; ' 81-9' ' ' "* + ' "' %% ' ' '%" %" ' ' RW N ' " = 'M 6- . ' QNQ' K' +1/.% Q+1X%

12.,62, 2*' ' ' & ' : . . $ ' 4' ; .' $ ' $ ' $ $ 3' .12' 1',)*' *?=*-1-' 12.,62, ; .' B /1-; .' 620' 1 ') .' 8 *' : */*26' 86.' D1-2 % % K K' 1-' K 'M.*** % 3' 6, ' 6 . . ; .' M218' ..6X' 2' // - >; ? ' 1-' 6>>1-0 25',1' 1,) *-', -60 , 12. ' 2' - ,^ 6 2% :*' -.,' 0 ., 25; .)*0') ?.*/') .' ?/,6-EI7 ,6/*2,.' ; 20*-' 1>/*, 62' 2' ,)6,' ?126->) .' 6?1; .' 5 =, 62' *L=*0 , 12' KRS' † . ; D. *_ ; *2, / ')*' .*-+*0' ; 20*-' 46/*- ; .' 2' ,)*' *-. 62' 86-% 2' N ' ,)*', 81' *?=*-1-.' 1>/*, 62' 620' < 6L ? 62' 6D0 >6, *0' 620' 8*-*' .; >>**0*0' D ' 12.,62, ; .')/1-; .' 620' 46/*- ; .% 46/*- ; .' 8)1' >1; /0' 21,' *20 ; -*',)*' D- // 62,' 620' *2*-^ 5*, >' 5*2 ; .' 1 ' 12.,62, 2*' ,119' *+*- ' ?*62.' 1 ' *L^ =1. 25') ?', 1' ,625>-' 620' ,' .' D*/ *+*0',)6, ' ,) .' 86.' ,)*' =*- 10' 8)*2')*' 6>_ ; -*0' ,)6, ' ? L, ; -*' 1 '-*. *-+*' >; 22 25' 620' 8 .01?' 8) >)' 86.' .1' >12. = >; 1; .' 2') .' >120; >, ' 2' 6 ,*-' *6 7% ,' /6. ' 12.,62, 2*' /*0' ,1') .' 6,)*-' 8)1' -; /*0' 2',)*' & *.,' 620' A1 2*0') ?' 6, ' 1; /152*' A; .,' 6.')*' ,+6.' .*,., 25' 1; ,' 12' 62' *L=*0 , 12 2> *2,' 5 *.' 1 ' 11D, ; 2, 2*' 620') .' 8 *' 6; .,6% 656 2.',)*' *, .' 2' 1-,)' -, 6 2% 12.,62, ; .' 0 *0' 6,' 1-9' B; / ' K ' N S') 6+ 25' =-1>/6 ?*0' D .' .12' 12^ .,62, 2*') .' , ; >>*.. 1-%)>' : 1?62' .1/0 *-. ' 2' ,)A' -0,1- ; ?' 6,' 1-9' =-1>/6 ?*0' 12.,62, 2*' *?=*-1-% : *' 218' 8-1,*' 6' >12> / 6,1-7' /*, ,*-', 1' 46/*- ; .' 620' -*^ _; *., *0', 1' D*' 6>9218/*05*0' 6.' ; 5; ., ; .% 46/*- ; .')18*+*-' 81; /0' 21,' 6//18') ?',)*' , ,/*' & 1' 620' 56+*') ?',)6,' 1 ' 12/ % 12.,62, 2*' ,119' =1. .*.. 12' 1 ',)*' >1; 2,- *.' 8) >)')60' D**2' .; DA*>,', 1') .' 6,)*-' + [%' 46; /' =6 2' 620' - ,6 2' 1 620')6+^ 25' 1+*->1?*',)*' -629. ')*', ; -2*0') .' 6-?.' 656 2., ' < 6L*2, ; . ' 8)1')60' ; . ; -=*0',)*' 51+*-2?*2, '1' ,6/ ' 620' ->6% : *' >12_ ; *-*0' < 6L*2, ; .' 2',)-*** D6, ^ ,/*. ',)*' /6. , '6, ',)*' < 7+ 62' D- 05*' ; 2M*-',)*' 86//.' 1' 1?*% 12.,62, 2*' 86.' 218' 0*>/6-*0' D ',)*' .*26, *' ; 5; ..; .' 620' 12, *L' < 6L ? ; .' M >, % KQ' N KX% ' 86.' ?',) .' >6?=6 52',)6, ')*' .' .6 0', 1')6+*' .**2' 6' /6? 25' >-1..' 2',)*')*6+*2. ' D*2*6,)',)*' .; 2' D*6- 25' ,) .' 2.1- =, 12' '" ' ' $ ' % *% ' ',) .' . 52' ,) 1; ' .D6/, ' >12_ ; *-TJ' 620' 12',)*' .6?*' 6; ,)1- , ' , ' ' .,6, *0',)6, ')- .', ') ?.*/ ' 6==*6-*0', 1') ?',)*' 1//18^ 25' 2 5), ' 620' 1-0*-*0') ?', 1', 69*' 1-') .' ..,6206-0' 62' ? ,6, 12' 1',)*' *- ' >-1..' 8) >)') *')60' .**2% : *' 6>>1-0 25/ ' >6; .*0' 6' .,6206-0', 1' D*' ?60*' 2',) .' 1-?' 8) >)' 86.' >6//*0',)*' " ('M_% +%X% () .' 6>>1; 2, ' -*.,.' >) * / ' 12',)*', *., ?12' 1-' ; .*D ; .' M 6' KR' N X' .6 0', 1' D*' 1; 20*0' 12' 6' >1?? ; 2 >6^ , 12', -1?' 12.,62, 2*') ?.*/ % 6>,62, ; .',)*' *6-C *.', 8 ,2*..' M >' " '% ' >% ' 6' < 1-9 8) >)' ?6 ' 21,')6+*' D**2' 8-,,*2' D ' 6>,62, ; .' D; ' *, ' 86.' >1?=1.*0' 6D1; ' % ' N ' 1-' N SX' .=*69.' 12/ ' 1 '6' 0-*6?' 2' 8) >)',)*' *?=*-1-' 86.' 0 -*>, *0', 1' ..6?=' 12',)*' .) */0.' 1 ') .' .1/0 *-.' ',)*')*6+*2/ ' . 52' 1 ' 410 I',) 6, ' . ',)*' >-1..' 8 ,)',)*' 26?*' 1 ') -. ', ' 620' ,) ; .', 1' 51' 1-,)' 656 2., ') .' *2*? J' M >)6 ' 2' ' " ' " ' " ' +1/% ' g' K' 8)*-*',) .' =1 2, ' 620' 20**0',)*' 8)1/*' -*/6, 12' 1 ' 12.,62, 2*', 1',)*') ; ->) ' .' 60? -6D/ ', -*6, *0X% 2' B62; 6-E ' N N')*' =; D/ .)*0',)*' ?*?1-6D/*' *0 >,' 1', 1/*-6, 12' 2' 6+1-' 1',)*')- ., 62. ' DE' 8) >)' 6// ',)*' =-1=*-, ',)6, ')60' D**2', 69*2' -1?',)*')- ., 62. ' 0 ; - 25',)*' =*-.*>; , 12. ' 86.' -*., 1-*0', 1',)*' ?*% ()*' 8*-*' 6/.1' ?60*' */5 D/*' , 1' = ; D/ >' 1 >*.% ( ) .' *0 >,') 6. ' 6>>1-0 25/ ' D**2' -*^ 56-0*0' 6. ' ?6-9 25',)*' , -; ?=) ' 1',)*' >-1..' 620',)*' 0182 6// 1 '=6562 . ?% : 6+ 25' 0* *6, *0' > 2 ; . ' 8) 1' .)18*0' 6' ?1-, 6/) 6, -*0', 1',)*')- ., 62. ' 12., 62, 2*' D*>6?*' .1/*' B *60' 1',)*' 6., *-2' 620' & *., *-2' *?=-*' 2' NK ',)*' *6-'21, *0' 1-',)*' 1*>; ?*2 >6/ >1; 2> / 8) >)')*' >12+*2*0' 6, ' >*' 2' ,) 2 6' 620' 8) >)')*' 6,, *20^ *0' 2' =*-. 12' 1-',)*' =; -=1. *' 1' .*, / 25',)*' - 62' >12^ ,-1+*-. % (186-0.',)*' >/1.*' 1') .' / *')*' 6+1-*0',)*' - 62. ', 1' 8) >)')*' 86.' 20; >*0' D ' ; .*D ; .' 1' >1C ?*0 6' 2' >12.*_ ; *2>*' 1' 8) >)') *' D62 .)*0' ?62' 1-,)101L' D .)1=. % ()1; 5)')*' =-1 *. .*0')- ., 62, ')*' 86.' 21, ' D6=, [*0', // ')*' *// . >9' 2' NN ' 2' 8) >)' *6-')*' 0 *0' 2' >1?*0 6J' M ; >9' -" ' ' ' ! .% + X% ()*' .*26, *' 1' 1?*' =/6>*0') ?' 6?125',)*' 510. ' 620

,) .')- ., 62.' 1 ',)*' 6.,' -*>912*0') ?' 6? 125',)*' .6 2,.ā') .' *., +6/' .' ., // >*/*D-6,*0' D ' ,)*' 4-**9' 1=, > ' 627' ;.. 62' >) ;->)*.' 12',)*' K .,' 1 ' < 6 % &) 6,*+*-' ?6 ')6+*' D**2' ,)*' ,-;*' >)6-6>,*-' 1 ' 12.,62, 2* .'>12+*-. 12',1',)*' D ., 62' 6 ,)= ,.' >12l' .*_;*2>*.' 8*-*' 1 '+6.,' ?=1-,62>*' D1,)',1',)*' *?= -*' 620',1',)*') ;->)' 1 ')- .,% ,' 1=*2*0',)*' 86 ' 1-' ,)*' ;21D.,-;>,*0'=-1=656, 12' 1 ',)*' 41.=*/ ,1'6' 8 0*-' *L,*2,',)62' 6,'62A' 1-?*-'=*- 10' 1 ',.') .,1- % // ?=*0 ?*2,.',1'62'1=*2'=-1 *.. 12'1 ')- ., 62 , ' 8*-*' -*?1+*0 ' 620' ,'D*>6?*',)*' *.,6D/ .)*>,'-*/ 5 12' 1 ',)*' *?= -*% ; ?*-1;. ')18*+*- ()*'. ?=/ > , ' 1 ',)*' 41.=*/ 86.' >1--;=,^ *0T =1?=1;.' - ,*.' 620' >*-*?12 *.' 8*-*' 2,-10;>*0T 81-/0/ ')121-.'620'*?1/; ?*2,.' 8*-*'>12 *--*0'12',)*' ,*6>)*-.' 1 ')- ., 62 ,A ' 620',)*' 9 2501?' 1 ')- .,' 2' 6' 5-*6,' ?*6.;-*' >12+*-,*0' 2,1' 6' 9 2501?' 1 ',) .' 81-/0% ()*' >)6-6>,*-' 1 ' 12.,62, 2*')6.' D**2' ,)*' 1DA*>,'1 '+6- 1;.'620'>12,-60 >,1-A'A;05?*2,.' 6>>1-0^ 25',1',)*' -*/ 5 1;.' 620' =1/ , >6/' .= - ,' 1 ',)*' +6- 1;.' 8-,*-.% ;.*D ;.' 6[6- ;.'620'1,)*-')- ., 62'>12^ ,*?=1-6- *.' 5-6,* ;/ 1-',)*'=-1,*>, 12'6 1-0*0'D ',)*' *?=*-1-',1',)*')- ., 62' -*/ 5 12' ?6 ' D*' >12. 0*-*0') .' =62*5 - .,.' 8) /*' U1. ?;.' 620' 1,)*-')*6,)*2' 8-,*-.' 62 ?6,*0' D ' 62' 1==1. ,*' **/ 25' 8*-*') .'*2^ *? *.% ()*D- * '.;?? 25C;=' 1 ' ;,-1= ;.' .'=*-)6=.' 2*6-*.',)*',-;,)ā ' 2',)*' -.,' =6-,' 1 ') .' -* 52')*' 86.' *_;6/',1',)*' D*.',=- 2>*. ' 2',)*' /6,,*-',1' ? "00/?5' 12*.% : *)60' ?62 '5-*6,'_;6/ , *.!')*' 86.' 120' 1 ' ? / ,6- '5/1- '620' 86.' .;>>*.. ;/% : *' 86.' 6/.1' 6^ +1-6D/*',1' > + X 6-,.'620'/ D*-6/',1' ?1.,' 1 'D .' - *20.% : *' ?60*' ?62A7/68 .!' .1?*' 5110'620' *_;6D/*' 1.,)^ *-.' .;=*- /;1;.' 620' .1?*')6-.)' 620' .*+*-*' 1JJI-D ' ; - 8! **' 4 DD12' ' ' '@ ' ' ' .%! <62C 1' ') 1' M -*./6;' Q XT * ?' 2 = ') ' / ' " " ' MU;- >)' QSKXT ;->9)6-0,' ' ' . ') ' ? :' >)6 ' # !' %>%T *620*-' "!'# !'M(1--* .'*O%X' ' T ,62/* ' 6 ' " "' *>,%+% **' ! 12.,62, 2*' 1=*' M QC X' 6' 26, +*' 1 ' - 6' .;>>**0*0' . 22 ;.' 2' Q% : *' + . ,*0' 12.,62, 21C =/1'620' >1?*0 6' 8)*-*')*' 86.'-*>* +*0' 8 ,)' 5-*6,')121-' D ' ,)*' *?=*-1-'B;., 2 62' ,)*' 71;25*-% ,*-') .' -*,;-2',1' 1?*')*' 0* *20*0',)*' 81-.) =' 1 ' ?^ 65*.' 656 2.,' B1)2 ' =6,-6->)' 1 ' 12.,62, 21=/*' 620' 656 2.,') / == >;. ' 8)1')60' ;.;-=*0',)*' *?= -*% */ L ' 6->)D .)1=' 1 ' 6+*226 ' 8)1')60' 6,' -.,' -*^ ;.*0',1' 6>9218/*05*' 12.,62, 2*' 620')60' D**2' *L^ /*0' 2' >12.*_;*2>*' ?60*') .' .;D? .. 12',1') ?' 620' 86.' -* 2.,6,*0' 2') .' .**% 12.,62, 2*' 0 *0' =-/ 0' ' 620' 86.' .;>>**0*0' D ' 4-*51- ' % ' & *,[*-' ;20' & */,*') "!AD F f ' QNN%

12.,62, 21=/*%' ')(')*-*' 6-*' *8' > , *.' 8) >)' ;2 ,*' ?1-*' =1 2,.' 1 ' 2,*-*.',)62' 12.,62, 21=/*% ,' .' ;2.;-=6..*0' 2' ?62 ' */*?*2,.' 1 ' D*6;, ' 620' 1-',8*2, C +*' >*2,;-*.')6.' D**2' 6' =/6>*' 1 '5-*6,'=1/ , ^ >6/620'>1?*>-6/ ?=1-,62>*% ;-25' .*+*-6/) ;2^ 0-*0' *6-.' ,' 86.',)*' >) * '>*2,-*' 1 '/*6-2 25 '-* 2*^ ?*2,'620' ? / ,6- '=18*-% .',)*' .*6,' 1 ',)*' 4-**9');->)' 2' ,' 8*-*')*/0' 6' /6-5*' 2;?D*-' 1 '>1;2> /.% ()*' 20 >6, 12.'6-*',)6,' ,.' ;,;-*' 8 // D*' 6.' ?=1-,62,' 6.' ,.' =6.') .,1- % *,' 21' > , ')6.' .;*-*0' ?1-*' -1?',)*' 0*.1/6, 12.' 1 ' *6-,)_;69*.' =*.,.' 6? 2*' -*' 620' .81-0% % # ! ' ()*-*' 6-*',)-**'0* 2*0'*=1>).ā ' -1?*' 620' *2*, 62.')1)60' *.,6D/%.)*0',)*?.*/+*.' 2' ,)*' 1;206, 12'1 ',)*' >,E'M % % SS X',// ,'D*>6?*',)*' >6=,6/ 1 ',)*' 1?62'*?=-*' M % % N NXT K' -1?',) .' , ?*', // ,.'>12_;*.,'D ',)*' (;-9.'/6>*' NXT 620' N';20*-',)*' (;-9 .)'01? 2 12',//,)*'=-*.*2,', ?*% % ; / ! ' ()*' 62> *2,' 4-**9.' 6,,- D;,*0',)?*1._;*',1'D*' *-*>,*0' 2' 12.,62, 21=/*',1'=*-?',)*% 6==1 2,?*2,'1 '6'960 ',1'/119'6 ,*-',)*' 2,*-*.,.' 1',)*' -*. 0*2,' <1)6?*?062'?*->)62,.'620',1'=6 ',)*' .;/ % SS X' 12',)*') 5)' /620' 1-?*-/ ' 1>>;=*0' D ',)*' 1/0' .*-65/ 1% ()' > , ' .112' D*>6?*',)*' *2,-*=1,' 1-',)*' 5-6 2',-60*' -1?',)*' /6>9' *6',1' 4-**>*% & ,)' 1;,' 62 '5-*6,' ? / ,6- '=18*-' 1-' 6?D , 12' 1 ' ,.' 182C [62, ;-6' *// 2,1',)*')620.' 1 ',)*1'0 *-*2,' > , *.' ,)6,' .;>>*.. +*/ ' D*>6?*' 01? 262,' 2' 4-**>*% ' */0*0' 8 ,)1;,'-*. .,62>*',1' 6- ;.'M % % KX% ()*' ,*2',)1;.620' -*.,*0')*-*' 2',)*' -' -*,-*6,' M % % X% ;- 25' 6' . *5*' D ') / =' 1 ' <6>*012' M % % N X' 6' / 5),' .;00*2/ '6==*6-*0'12*' 2 5),'*26D/ 25',)*' ,)*^ 2 62' 56-- .12',1'.*' 620',)86-,'62' 2,*20*0'6..6;/,'" ' ,)*' D*. *5*-.% 2' >1?2*?1-6, 12' 1 ',)*+*2,' 6' >-*.>*2,'6==*6-.' 12'.1?* [62, 2*' >1 2.' 620',1',) .' .' ;.;6// '6,,- D;,*0',)*' 1- 5 2' 1 ',)*' >-*.>*2,',)*' *?^ D/*?' 1 ',)*' (;-9 .)' *?= -*' 601=,*0' ? ?*0 6,*/ ' 6 ^ ,*-',)*' >12_;*.,' 1 ' 12.,62, 21=/*% & ,)' 4-**>*',) .' > , ' *// ;20*-',)*' 01? 2 12' 1 ' 1?*' M % % SX% 2' 62> *2,'/*5*20'-*/6,*.',)6,',)*' 6=1../*' ,% 20-*8 '12') .' 6-- +6/' 6,' 46/6,6' 6' .;D;-D' 1 ' 12.,62, 21=/*' =-*..*0',)*' 1-?' 1 '6'>-1..' 2,1',)*' -1>9'8 ,)') .')620% ,*-' =-*6>) 25')*-*' ,81' *6-.')*' 86.' 0- +*2' 686 ' D ',)*',f(62,'U*;L ==;.' 620',)*' >12, 2;*0') .' /6D1-.' 12',)*' 1==1. ,*' . 6, >' .)1-*% [62, ;?')60' 2' 1-^ 0*-',1' -*. .',)*' -* _ ;*2',. *5*.' 1 ',)*' 1-,)*-2' D6-^ D6- 62.' D**2' ?60*',)*' .,-125*.',' 1-, *0' > , ' 2',)*' 1?62' *?= -*% 1-')6-D1- 25' .> 2;.' ..' 86//.' 8*-*' -6[*0'D ' *=, ? ;.' *+*-;.'M % % SRX% ()*.*' 8*-*' .112'-*D; /,'D;',)*' > , ' 86.' >1?=/*,*/ ' 0*.,-1 *0'D ' 12.,62, 2*' M % % NK X' 1-')6+ 25'-*D*//*0' 656 2% K% 2 ' " '6 '6 % ! ' <62 ' -*6.12.' >1?^ D 2*0',1' 20;>*' 12.,62, 2*',1'-*?1+*',)*' >6= ,6/ 1 ',)*' 1?62'*?= -*' -1?' 1?62',1' !['62,;?' *.=*> 6/^ /' ') .' 0*. -*',1' -**') ?.*/ ' -1?',)*' -*?262,.' 1 ',)*' =18*-' 1 ',)*' 1?62' .*26,*') .' 0*. -*',1' 1//18',)*' - *2,6/ >;.,1?' 1 ' 6' 5-*6,' *?=*-1-' 620' >12_;*-1-' 1;20 25') .'182>6= ,6/' ,)*'>*2,-6/>1?*>-6/ =1. ^ ,12' 1 ' [62, ;?' 2',)*' ,)*2' 9218/ 81-/0' 620',.' 6+1-6D/*'=1. , 12' 1-%>12,-1// 25',)*',-1;D/*.1?*'=6-,.' 7 1',)*'*?= -*' 12',)*' 62;D*'620',)*' ;=)-6,*.% 2' <6 ' QN ',)*' 2*8' >6= ,6/ 86.' 26;5;-6,*0'DE% *.^ ,+6/.' 620' >*-*?12 *.' ')6/ ')- ., 62' 620',)6/ '=6562' 620'/6., 25' 1-, '06 % ?125',)*' ?627' *?D*// .)^ ?*2,.' 8) >)' 12.,62, 2*' 600*0',1',)*' >, ' 8*-*',)*') ==10-1?*' .;--1;20*0'D '=6/6>*.' =1-, >1*.'620',6,^ ;*.' D-1;5),' -1?' 6// =6-,.' 1 ',)*' *?62'*?= -*'!,)*' > .,*-2' 1 ' 6',)1;.620'>1/;?2.' ,)*' >);->)' 1 ' ,% 1^ =) 6' 620' ?62E7 1,)*-' >);->)*.' 620'=;D/ >' D; /0 25.% ()*101. ;.' 6/.1' 5-*6,/ '*?D*// .)*0' 620' *2/6-5*0',)*' >6= ,6/% 2' N S 12.,62, 21=/*' D*>6?*',)*' >6= ,6/' 1 ',)*' 6.,*-2' 1-' 4-**9' 0 + . 12' 1 ',)*' 1?62' *?= -*% ()*' 5/1- 71 ',)*' > , ' 2>-*6.*0' ;2, /' ,)*' , ?*' 1 ' :*-6>$;.' M % % S X' 6/,)1;5)' .;DA*>,*0',1' ?62 ' .>1;-5*.% B;., 2 62' M K C R X?6 'D*' -*56-0*0'6.' ,.' .*>120' 1;20*-% ,*-' 6' > + /' >1?21, 12' 2' % % NK' 2' 8) >)' Q ' ?*2' 8*-*' ./6 2' 620' 8) >)' -*^ 0;>*0',)*' >, ' ,1' 6.)*.' B;., 2 62' -*D; /,' ,% 1=) 6' 8 ,)' ;2=6-6//*/*0' ?652 >*2>*% : ' 51-5*1;.' =6/^ 6>*',)*' ,8*2, C +*' 1,)*-' >);->)*.' 620' ?62 ' =;D^ />' *0 >*.',)6,')*' D; /,')6+*' 6//. 2>*'=*- .)*0% ()*' . [*' 1',)*' >, I7?6 'D*' *., ?6,*0' -1?',)*' 6>,',)6, N ' =*-.12.' 0 *0' -1?',)*' =*.,' 2' 12*' 7*6-% 2' S ',)*' -6D.'/1.,'N ' ?*2'D* 1-*',)*' 86// .' 620' 2' Q S ' .) =.' 1 ' 86-% ()*' 5-*6,*.,' 0*.,-;>, 12' 1 ' 81-9.' 1 '6-,' 2' 6//) .,1- '1>>;--*0' 2',)*' -6+65 25' 1 ' 12.,62, 21=/*' D ',)*' -;.60*-.' M K X' 8)1' .=*2,' * 5),' 06 ' 6 ,*-',)*' ,119' ,)*' > , ' 2' D;-2 25' 620' =/;20*- 25' 6// =;D/ >' 620'=- +6,*' =-1=*-, f' ()*' -*.^ *>,' 2' -*.,1- 25',)*' 5/1- ' 1 ',)*' >6= ,6/' ()*' 4*21^ ;.*0' 2' 62' 1-6>/*' 1 ' =1//1 'D; /,' 6' > , ' M % -*. 0*2,' <1)6?*?062'?*->)62,.' 620',1'=6 ',)*' .;/

,62' 6' *6-/ ' ,- D ; ,-*' 1 ' ' 0 ; >6, .%' 2' N' ,)*' (; -9 .' ,119' ,)*' > , ' D ' 6 . .6 ; /, ' 6 , *-' 6' . *5*' 1 ' 1 -, ' 06 .%' 2' ,) .' . *5*' ,)*' (; -9 .' D60' . *+*-6/ >62212' 1 ' ,)-**' 620' 1 ; -' **, '>6/ D-*% N' 2 ' " ' - + J! ' 1-' ,)*' .=6>*' 1 ' ,)-**' 06 .' 60 ' , *-') 60' *6=. *0' <6)1 ? *, ' >6 ; . *0' ,)*' >6-265*' ,1' D*' . ,1==*0' 620' 1 , ,*-*0' , 1' . ; >)' 4-**9 .' 6. ' >)1. *' , 1' -*' ? 6 5^ , 12' 1 ' =; D/ >' 620' =- +6, *' =-1=*-, %' , *-' ,)*' ,)-**' 06 .') 60' */6=. *0' <6)1 ? *, ' >6 ; . *0' ,)*' >6-265*' ,1' D*' . ,1==*0' 620' 1 , ,*-*0' , 1' . ; >)' 4-**9 .' 6. ' >)1. *' , 1' -*' ? 6 5^ , 12' 2' ,)*' -' =-1=*-, ' 620' 2' ,)*' *L*-> . *' 1 ' ,)* -' -*/ 5 12%' ( )*' . ; /, 62' ,)*2' *2, *-*0' ; =12' ,)*' *-*>, 12' 1 ' 6' . *- *. ' 1 ' =; D/ >' *0 0**. %' : *' D ; /, ' ,)*' >6. , /*' 1 ' . *+*2', 18*-. ' ,)*' , 81' . *-65/ 1. ' 620' 6' 2 ; ? D*-' 1 ' ? 65^ 2 >*2, ' ?1. _ ; *. %' : *' 6/. 1', -62. 1-? *0' , %' 1=) 6C620' 1,) *-' >) ; ->) *. ' 2, 1' ? 1. _ ; *. %' ( )*' >) * ' . ; /, 62. ' 6 , *-' < 6)1 ? *, ') 6+*' 1 // 18 *0') . ' *L6 ? =/*' 2' D ; /0 25' 6, ' /*6. , ' 12*' ? 652 >*2, ' ?1. _ ; *' 12. , 62, 21 =/*') 6. ' . ; *-*0' -*_ ; *2, / ' -1 ?' -*. ' ,) 6, ') 6+*' 1 , *2' 0*+6. ^ , 6, *0' 8) 1/*' _ ; 6-, *-. %' 2' KS' ,)*' -. , ' =- 2, 25C=-*. . ' 86. ' . *, ' ; =' 2' ,)*' > , %' 6- 25' 62' 1 ; , D-*69' 2' ,)*' 4-**9' _ ; 6-, *-' 2' QK ' 0 ; - 25' ,)*' 4-**9' *+1/ ; , 12 ' ,)*' 4-**9' =6, - 6->) ' 86. ') ; 25' D ' ,)*' ?1D%' 2' QKS' ,)*' =18*-' 1 ' ,)*' B62 . .6- *. ' 8) 1') 60' 1==1. *0' ?1. , ' 626, >6// ' ,)*' 2, -10 ; >, 12' 1 ' ? 10*?' > + / [6, 12' D ' ,)*' . ; /, 62 ' 86. ' >1 ? =/*, */ ' D-19*2' D ' ,)*' .) 11, 2571 ' 1 ' ,)*? ' D ' ,)*' 1,) *-', -11=. ' 1 ' ,)*' 6-? % %' ' % ' '7 ' '% ' ' ' , % " ' " ' - + ' M NX% ' ( )*' 62> *2, ' [62, ; ?' 1>>; = *0' ,)*' *L, -*? *' =1 2, ' 1 ' ,)*' =*2 2. ; /6' D*, 8**2' ,)*' *6' 1 ' <6-? 1-6' 620' ,)*' 41/0*2' : 1-2 ' ; =12' 8) >)' ,)*' 5-*6, ' >6= , 6, / 86. ' 6 , *-86-0. ' D ; /, %' . ' 12. , 62, 2=C' =/*' ,)*' > , ' 86. ' *2/6-5*0' , 1' , . ' =-*. *2, ' / ? , . %' 2' ,)*' 86, *-' . 0*' 86. ' D ; /, ' 6' . 25/*' 86//' 8 ,)1 ; ' 6' 0 , >)%' 2' ,)*' /620' . 0*' 86. ' 6' 01 ; D/*' /6, *-' 6' , - =/*' 86//*6>)' =6-, ' -1?' ' , 1' K ' **, ' ,) 5) ' K ' **, ' ,) >9 ' 8 ,)' 6' 0 , >)' KQ' **, ' D-160' 2' -12, ' 0*' *20*0' 6/. 1' D ' S Q' , 18*-. ' 620' >6' >6../*' 6, *6>)' >1 ? *-' 1 ' ,)*' 5-*6, ' , - 625/*' 8) >)' ,)*' 7> , ' >1+*-*0' 620' =*2*, -6, *0' D ' N' 56, *. %' ( )*' =- +6, *')1 ; . *. ' 8*-*' . ? 6// 620' =11-% ' ,)*' ? 62 ' =; D/ >' =/6>*. ' 1-' *0 >*. ' 8*' >62' 21, >*' D ; ' 6' *8%' I 8' ( )*' @ ' ' M218' =6-, ' 1 ' ,)*' . *-65/ 1' =6/6>*X' 8) >)' 12. , 62, 2*' . ; --1 ; 20*0' 8 ,)' 6' > ->; . ' 62' ?=*- 6/ =6/6>*' >) ; ->) *. ' D6,) . ' 620' ? 62 ' =- +6, *' =6/6>*. %' : *-*')*' =/6>*0' ,)*' =1-=) - ' >1/ ; ? 2' . ; --1 ; 20*0' 8 ,)' 8 -*6,) . ' 1 ' 51/0' ,)*' 6//60 ^ , ; ' 1 ' 1? * J' 8) >)') *' D-1 ; 5), ' -1?' ,) 6, ' > , T' 12' ,) . ' = //6-') *' =/6>*0' 6' D-12[*' . , 6, ; *' 1 ' =1//1 ' D-1 ; 5), ' -1?' : */ 1=1/ . ' 2') - 5 6 ' 620' 8) >)' 12. , 62, 2*' 8 .) *0' , 1') 6+*' >12. 0*-*0' 6. ') . ' 182' . , 6, ; *' . ; D. , ^ , ; , 25' ,) *' 26 /. ' 1 ' ,)*' =6. . 12' 1-' ,) *' -6 . ' 1 ' ,)*' . ; 2' 2' 1-0*-' , 1' 5 +*' ,) *' . , 6, ; *' 6' -*. *? D/62>*' , 1') - . %' ( ) . ' . , 6, ; *' . ' 218' /1. . %' ( )*' >1/ ; ? 2' . ' =6-, / ' 0*. , -1A7C' *0' ,) *' -*? 6 20*-' D* 25' >6//*0' ,) *' ' ; -2, ' 1/ ; ? 2%J' M X' ( )*' @ ' '-" 1' /6 0' 1 ; ; ' D ' ( )*101. ; . ' M % %' NR' P%' 620' >12, 6 2 25' 6' , - ; ? =) 6/ = //6-' / 9*' ,)*' 1/ ; ? 2' 1 ' (-6A62' 2' 1? *' 620' 62' *_ ; *. , - 62' . , 6, ; *' 1 ' 6' ? 62' 8 ,)' 8 25*0' **, ' 8) 1 ? ' ,)*' =1 = ; /6-', -60 , 12') */0' , 1' D*' B1.) ; 6' >1 ? ? 620 25' ,)*' . ; 2' , 1' . , 620' . , //1' ?0*-' ,)*' /* , ' 11, ' 1 ' ,)*')1-. *' 86. ' D ; - *0' ,)*' 9 ' ' % 1' >12. . , 25' 1 ' 6' 01//' 1-' D10 ' 8-6==*0' 2' 811//*2' 56-? *2, . ' 620' 8) >)' ,)*' 6, 2. ' M 2' K X' 0 ; 5' ; =' 620' D ; -2, ' 6 , *-') *-*') */0' 620' 8) >)' ,)*' . ,-1 *0' ,)*' . , 6, ; *' M>X' ( )*' @ ' ; 1' >12, 6 2 25' ,)*' D-6[*2' D ; //' 2' 8) >)' >- ? 26/. ' 8*-*' D ; -2, ' , 1' 0*6,) %' I 8' ( )*' # %% ' ' 1' 2*6-' , %' 1=) 6' 2' 8) >)' -6>*. ' 620' 1,) *-' 56 ? *. ' 8*-*') */0' 620' 8) >)' 12. , 62, 2*' 601-2*0' 8 ,)' ,)*' D*. , ' 81-9. ' 1 ' 4-*> 62' 6-, ' D-1 ; 5), ' -1?' 6// *6-, . ' 1 ' ,)*' *? = -*' 1+*-' ,)*' 56, *' ,)-1 ; 5)' 8) >)' ,)*') 1-. *. ' *2, *-*0' ,)*' > ->; . ' , 110' ,) *' . ==; . ' 8) >)' 1- 5 26 // ' 8*-*' =/6>*0' 2' ,)*2. ' 8*-*' D-1 ; 5), ') *-*' -1?') 1. ' ,)*2' , 69*2', 1' *2 >*' M K SX' , 1' 6- . ' D ' 6=1/*12' M R X' %620' 26// ' -*, ; -2*0' , 1' *2 >*' M Q XT' 62' 1D*/ . 9 ' S ' **, ') 5/X ' D-1 ; 5), ' -1?' 5 =, ' , 1' ,)*2. ' 620' ,)*2>*' , 1' 12. , 62, 21=/*' . ' *, ' . , 620 25T' ,)*' , -=/*' D-12[*' .269*. ' ,) 6, ' 1-?*0' ,)*' 2, *- 1-' 1 ' ,)*' (-=10' 1 ' */C =)1. ' N' 2>)*. ' 2' 0 6 ? *, *-' 620' ' **, ') 5) ' . ' *, ' ., 620 25 ' 12*' . *-=*2, . ') *60') 6+ 25' D**) ' >, ' 1 ' < 6)1 ? *, ' 8 ,)') . ' .6D-*' 8) *2' D*' *2, *-0 / ' ,) *' >, !' M NX' ,) *' 1,) *-' , 81') 6+ =5' D**2' -*? 1+*0' 0 ; - 25',) *' ' 6\. , ' >*2, ; - %' ( )*. *' ,) *2 ' 6-*' 6// ' ,) *' -*? 6 2. ' 1 ' 62^ > *2, ' 6-, ' ,) 6, ') 6+*' D**2' =-*. *-+*0' -1?' ,) *' ? ? *2. *' 2 ; ? D*-' D-1 ; 5), ' , 1' 12. , 62, 21=/*%' C &) 6, ' *8' ,) *' -; . 60*-. ' /*, ' M K X',) *' (; -9. ') 6+*' . 2>*' 0*. , -1 *0 M*X' ( )*' % ' .,110' 12' ,) *' . , *' 1 ',) *' 1/0' . *-65/ 1%' , ' >12, 6 2*0' ? 62 ' ? 652 >*2, ' D ; /0 25. ' 620' -11 ? . !' 2' ,) *' >) 6=*/ 1 ' , %' ( )*101-' 8*-*' ,) *' -*/^ >. ' >12. ., 25' 1 ' ,) *' 1- 5 26/ ' >-1. . J' 620' ,) *' . , 6 ' 1 ' <1. *. %J' M IX' ( )*' # " ' 1' 8) *-*' *1') /1. =) 1. ') *0') . ' . >) 11/ ' >12, 6 2 25' +*' 51/0*2', 18^ *-. ' . ; ==1-, 25' 6' 51/0*2', -**' 12' 8) >)' 51/0*2' D -0. ' . ; 25 ' 620' >12, 6 2 25',) *') *60' 1 'B1) 2',) *' 6=, . , %J I 8' ( )*' ' ; " ' ' 1' 601-2*0' 8 ,)' ? 62 ' 81-9. ' 1 ' 6-, ' 620' >12, 6 2 25',) *' ? =*- 6/ / D-6- I' 1 ' K ' +1/ ; ? *. ' MD ; -2, ' X%' I"8' ( )*' ? 62 ') *6^ ,) *2', *? =/*. ' 8*-*' *,) *-', ; -2*0' 2, 1' >) ; ->) *. ' 1-', . *>^ ; /6- [*0' D ' ( )*101. ; . ' I 8' ' " " ' D ' 6-',) *' ? 1. ' ? =1-, 62, ' . ' ,) 6, ' 1 ' X !' $ %" ' M %' +%X%' MAX' ( )*' " ' " "' >12, 6 2*0' 6' = >, ; -*' 1 ' ,) *' -5 2 ' < 6- ' =6 2, *0' D , %' ; 9* J' 8) >)' ,) *' (; -9. ' > ; , ' , 1' = *>*. ' 8) *2',) * ' , 119' ,) *' > , ' X' I+8' ( )*' " "' ' " ' # ' &% ' D ; /, ' D ' 12. , 62, 2*' , 15*,) *-' 8',) ' ,) *' : *-112' M,) *' D ; - 6/C=/6>*' 1 ' ,) *' *? =*-1-. ' -1?' ,) *' , ? *' 1 ' 12. , 62, 2*X' 8 ,)' ,) *' - ' - >)' 1-26? *2, . ' 620' , -*6. ; -*. ' 8*-*' =/ ; 20*-*0' D ' ,) *' -; . 60*-. ' 2' K 'A

F& F 6 LOQ ’& 6

0*2.’ D/*20.’ 8 ,)’ ,)*’ D-182’ 1 ’,)*’ ;2=6 2,*0 8110*2’ ’ ?1._;*.’ ID8’ -" % ’ ’86.’ -*1-562 [*0’ 2’)1;.*.’ 620’ ,12,-6.,.’ 8 ,)’ ,)*’ 8) ,*’ 1 ’,)*’ ?1._;*.’ ’ Q ’ >)11/.’ 8*-*’ 0 + 0*0’ 2,1’ ,)-***’ 5-60*.’ ,^ 620’ 1,)*-’ "X;D$>’ D; /0 25.’ =-*.*2, 25’ 6’ = >,;-*._;*’ ,*2062>*’ ;=12’ ,)*’ =- ?6- ’.>)11/.’ .’ 1D/ 56,1-X’ 2’ * *>,’,1’D*’ .**2’ 2’ 21’ 1,)*-’ ;-1=*62’ > ,AI’ ()*’)6-^ ,)*?’ 6-*’ ,6;5),’-*60 25’ 8-, 25’ 6-,)?*,>’5*15-6^ D1-’ .’>-180*0’8 ,)’+*..*/.’620’.,*6?*-.’ -1?’6//’=6-,.’ =) ’-*/ 5 12’) .,1- ’1’,)*’ (;-9 .)’/625;65*’ 2’,)*’.*>120’5-60*’,)*’) .,1- ’1’ 1’,)*’ 81-/0’ / 5),’ ./*20F’ >6 _;*.’ 06-,’D*,8***2’ ,) <1)6?*062’ -*/ 5 12’ ?6,)*?6, >. ’ 26,;-6/ .>^ ,)*’/6-5*-’D16,.’620’5 +*’62’;2;.;6/ 62 ?6, 12’,1’,)*’ *2>*’620’1,)*-’ D-62>)*.’6-*’,6;5),’ ()*’,*>)2 >6/ 6/-*60 ’ 1+*-C>-180*0’)6-D1-’ /7)*’ .;D;-D.’ 1’ *-6’ .>)11/.’6-*’?62 ’ 2’2;?D*-’6.’,)*’,81’.>)11/.’2’,)* 620’ 46/6,6’-.*’12’,)*’1,)*-’.0*1’,)*’41/0*2’:1-2’ ’ ?1._;*.’1’ >)?*,’620’ */?’ 1-’,)*’*-.12.’0*. 52*0’ >1+*-*0’8 ,)’?6.. +*’=6/6>*.’620’.,12*’)1;.*.’ >-1..’ 1-’> + /’1 >*.’)*’.>)11/ 1;20*0’D ’,)*’.;/,62*..’ 2’ ,)*’ 1.=)1-;.’.’ >;,6- ’8 ,)’,.’+6.,’06-9’>=-*.’C Q ’ 1-’,)*’*0;>6,12’1’0 =,1?1,.,.’620’1,)*-’)5)’ D1;20’>*?*,*-*.’620’2’,)*’0.,62>*’,)*’.218C>6=^ 1 >*-.’1’.,6,*’)>1//*5*.’ 1-’,)*’*0;>6,12’1’,)*’ =*0’ / ?=;.’-6.*.’,.’)*60’D6D1+*’,)*’)1- [12% ;/*?6.’1-’=-*.,’>1/)11/.’1’?/,6-’620’26+6/ 12.,62, 21=/*’ .’6,’=-*.*2,’,)*’>6=,6/1’,)*’(;-9^ 2.,-;>,12’,)*’>1//*5*’1’?*0>2*’,)*’+*,*-26-X’ .)’*-*’ -*. 0*2>*’6/.1’1’,)*’4-**9’=6,-6->)’8)1’)1/0.’ 620’1,)*-’.>)11/.’ //1,)*.*’6-*’.;==1-,*0’D’,)*’)*-*’,)*’=6,-6->)6/. 210’>1?=1.*0’1’,8*/+*’D.)^ .,6,*’8)*2’,)*’*2018?*2,.’01’21,’.;>*’ ()*’(I72C 1=.’ :*-*’6-*’6/.1’62’ -?*2 62’=6,-6->)’620’6’ +*-.,’>1?=-.25’?62’1’,)*’-’)5)*-.’.>)11/.’)6.’ 4-**9C 6,)1/>’D.)1=’ ()*’ -1,*.,62,’?..12.’1’ 6’/6-5*’D;/0 25’D;’.’12/’=6-,/’1-562 [*0’ ’)*’ ;-1=*’620’ ?*->6’1-’,)*’ -*2,’)6+*’,)*’-’)*60^ .>)11/.’..,*?.’1’,)*’)-.,62.’*20’B*8.’.,620’;2^ _;6-,*-.’2’ 12.,62, 21=/*’ ()*’>, ’8 ,)’,.’??*^ 0*-*’,)*’-1>*?>,12’1’,)*’-’)-’);6;,)1-,*.’620’6->’ 0 6,*’.;D;-D.’>12,6 2.’6D1+*’6’?//12’2)6D ,62,.’ ?;>)’2*5/*>,*0’ I 8’ ’ ’,)*’-*’6->’1+*-’6’);2^ ?>)’2*5/*>,*0’ I 8’ ’ ’,)*’-*’6->’1+*-’6’);2^ ,6?D1;/’1-’,)*’1/0’>, ’>12,6 2.’6D1;,’)6/’,) .’2;?^ 0-*0’.?6//*-’12*.’>122*>,*0’8 ,)’,)*’?1._;*.’620’ D*-’ <1-*’,)62’)6/’1’,)*’=1=:/6,12’6-*’(;-9.’ 1-,’/6-5*’12*.’.1?*’1’8)>)’)6+*’ 2*’-11?.’620’ .1?*’,)1;.620.’*6>)’1’2*6-/’+*+-E726, 12’1’ ;-1=*’ 6-*’.*’ >**’D;’ ?2+ -12.’ ()./>6>*’.’6D1;,’6’?/*’2’>->;?*-^ 6-*’ 6>>*..D/*’,1’212C<1D6?7*062.’ & *.,*-2’ .6’620’1-,)*2’-*2’ .’ >,’/1.*.’?;>)’1’,.’>)6-?’ ()*’ 6-*’ 21,’/5),*0’620’*+*-E726, 12’1’ ;-1=*’ 6-*’ 21,’26?*0’21-’,)*’)1;.*.’2;?D*-*0’ I 8’ -"’ " ’6-*’6/?1.,’*2, -*/’1’8110’6-*’;2=6 2,*0’1’ ,81’1-’-**’.,1-*.’620’)6+*’=-1A*’25’/6,,>*0’8 2C> = ’ M X’ ’% ’ 4 ’,)*-*’6-*’D;,’ *8VX’?^ =1-,62>*’ ()*’>)*’>-6-*’,)*’ # %% ’M.**’6D1+*’ 8’620’,)*’$ - ’ 1’>12,6 2 25’,)*’1 >*.’1’,)*’ 86-0*=6-.,?*2,’620’,)*’/1 ,X’/2**’,18*-’-1?’8)>)’ .’,1’D*’1D,6 2*0’,)*’ 2*.,’+*8’1’ 12.,62, 21=/*’620’ ,.’*2+ -12.’ ()./>6>*’.’6D1;,’6’?/*’2’>->;?*-^ *2>*’ M-X’ ()*’$ 1’12>*’.1’6?1;.’6.’,)*’.=/*2^ 0 0’=6/6>*’1’,)*’.;/,62.’)60’21,’D*’2’;.*0’6.’6-1 6/ =6/6>*’.2>*’,)*’*->,12’1’,)*’2*8’$ ’12’,)*’ 1.=)1-;.’ ,’86.’D;-2*0’2’ ’*6-’,)*’1/0’ .*-65/1’.’,)*’1 >*’1’,)*’5-620’+[*-’*2,*-*0’D’ ,)*’ ;D/?*’ 1-,* J’8)*-*’,)*’.*..12.’1’,)*’>6D^ 2*,’6-*’)*/0’620’8)*-*’,)*’.;/,62’?**,’,)*’1-*52’ 6?D6..601-.’ ()*-*’6->’?62’ D1’ -1 6/.;?^ ?*-C)1;.*.’12’,)*’1.=)1-;.’620’,)*’41/0*2’:1-2’ I 8’ 12..62, 21=/*’>12,6 2.’,)-,**2’?=*-6/ 4 ’ 6D1+*’6’);20-*0’/6-5_’?1._;*.’M1-’ <*0A 0’ ’ *’=/6>*.’1’=-6 *-X’ ()*’ >),’ ’,)*.*’$!’? (’M.**’6D1+*’ ’KX’.’,)*’ >)*’1-’=6,-6->)6/>);->)’ ()*’-?*2 62.’)6+*’6’ 2;?D*-’1’>);->)*.’62’125’,)*?’,)*’ " ’ >);->)’M1-’-6,)*-’,81’>);->)*.’12*’3 1-’?*2’,)*’ 1,)*-’1-’81?*2X’620’,)*’);->)’1’,)*’2*’ 25*/C >)1.2 2 25’6’ 2af-6>/*C81-9 25’ =//6-J’,1’ 7+)>)’,)*’*>9’1’*+*-’6-*’D-1;5),’ ()*’1? .)’ 620’ -1,*.,62,’>);->)*.’6-*’2’ *-6’ ()>--*’6-*’.*+^ *-6/. 26515;*.’2’,)*’1/0’>, ’ ()*’ -, .)’620’ ?*-.>62’ D/*’ 1>*,*.’)6+*’,)*’-’)*60C_;6-,*-.’2’ ,)*’1/0’>, ’ ID(8’()*-*’6->’?62’<1)6?*062’ 1’ 1-’,)*’0 *-*2,’1-0*-..’1’0*+.)*.’620’6/.1’ .> >-6/4-**9’?126..*-.*’ M X’ ; =% ’ 1-’,)*’ (0-9.’6->’ 1;20’2*6-’6//,)*’--1._;*6’ ;-6/C>)6=*/.’ M(2-D*e’ZD’,)*’.;/,C2.’,)*’ 1;20*-.’1’?1._;*.’620’ ,)*-’6 % *.’6-*’ 1;20’ 8 ,)2’,)*’ 2>/1.;-*’1’,)* D’,)*’ 6 % *.’6-*’ 1;20’ 8 ,)2’,)*’ 2>/1.;-*’1’,)* D’,)*’ 6 % *.’6-*’ 1;20’ 8 ,)2’,)*’ 2>/1.;-*’1’,)* D’,)*’ 6, 2’1-’D ’,)*’ 4-**9’);->)’>-’D ’D1,)’ %

, +>.' ,1' >12,*2, ?*2,' 6- .*' -1?' ,)*' >12. 0*-6, 12' 1 '
,)*' -*>, ,; 0*' 1 ',)*' 0 + 2*' 51+*-2 ? *2,' M .6% L>+ '
KX' ,)*' D*2 52 ,E F1 ',)*' 0 + 2*' =-1+ 0*2>*' M .6 '>L/+XA'
,)*' 5-*6,2*..' 1 ',)*' 0 + 2*' =-1? .*.' MK' *,% ' X' 1 ;-'
182' ;281-,) 2*..' M4*2% LLL ' X',)*' =;2 ./ ?*2, '
8*' 0*.*-+*' M 6?% ' NR' X',)*' -*86-0' 8) >)' >12^
,*2, ?*2,' ,.*/ 'D- 25.' 8 ,)' ,' M ' (?% + ' SX',)*' .=**0 '
,*-? 26, 12' 1 '6// 1 ;-' ,-1 ; D/*.') *-*' 620' ,)*' =-1.=*>,'
1 ' *,*-26/ */ > , ' 2' 6' ; , ;-*' ..6,*' M$1?% + ' KX% **'
6--18 ' + 1' .*-% S' ' 'Q' RT' ;--18. ' , ' 12C
11Y E1' & ' *(! ' 8 5), ' -+ 2'
1'.*-% >LL LT' *//18*.' -" 1' KN S T' ;>9'
-" ' ' .% +%

12, 2*2> % ** · # ! #!
1 ; , 2*2, *.% ** > !
12, 25*2> % ** 'T' + L
!

12, -6 >,' M1++6 d6 V6' ' <6>>% . ' KX' 6' D ; . ^
2*..' 65-**?*2,' 1-' 1-?6/ >1?=6>,% ** 8 !
6-1 ;.' .1/*?2, *.' 8*-* ; .*0' 2' ,)*' >12>/ ;. 12' 1 C
>12,-6>,7 6?125',)*' 62> *2,' : *D-*8 .% 1?*, ?*.' ,
&6.' 012*' D ' 6' . ?=/*' AM72 25' 1 ')620.' M -1+% L ' K T'
[*9% L+ ' QX' 620',) ; .',)*' : 2011. ', 1',) .' 06 '-6, ^
' 62' *2565*?*2,' D ' 12*' =*-.12' /6 25') .' - 5) ,'
)620' ;=12',) 6,' 1 ',)*' 1,) *-% 1?*, ?*. ' 6/.1 ' 6' >1+^
*262,' 86.' -6, *0' D ' *-*>, 25' 6') *6=' 1 ' .,12*. ' ,1'
8) >)' 62' 6==-1=- 6,*' 26?*' 86.' 5 +*2' M4*2% LLL ' '
C XT' ,) 6,' ?60*' D*,8**2' D-6) 6?' 620' ,)*' 9 25' 1 '
4*-6-' 86.' -6, *0' D ',)*' 16,) ' 1 ' D1,) ' =6-, *. ' 6/.1' D '
6' =-*.*2,' -1?' D-6) 6?', 1',)*' /6,,*-' 1 ' .*+*2' *8*'
/6?D.' 620' D ' 5 + 25' 6' 26?*' ,1',)*' 8*// 8) >)') 60'
1>>6. 12*0',)*', -62.6>, 12% *., + , *.' 6==*6-', 1') 6+*'
6>>1?=62 *0',)*' >*-*?12 *.' 6,,*20 25' . ;>)' 6// 62>*.'
1-' .66>' 620' D ?*/*>)' ?60*' 6' *6.', 12' >12>/ ;0 25'
,)* -' >1+*262,' M4*2% LL+ ' N T' LLL ' X,' ' . ? /6-'
=-6>, >*' 6/.1' 1D,6 2*0' 6?125',)*') *6,)*2' 26, 12.%
( )*' > ,) 62.' 6-*' .6 0', 1') 6+*' -.,' =1 ; -*0' 8 2*' 2,1'
62' *6-,)*2' +*..*/' 620',)*2' ,)*' >12,-6>, 25' =6-, *. '
>;,, 25',)* -' 6-?.' 8 ,)' 6' 92 *'/*.' .1?*' 1 ',)*' D/110'
-;2' 2,1',)*' 8 2*' 8 ,)' 8) >)',)* '.,6 2*0',)* -' 6-?1-T'
6 ,*-' 8 >)',)* ',)*?.*/+*. ', 15*,)*-' 8 ,)',)*' 1,) *-'
=*-.12.' =-*.*2,' 0-629' 1 ',)*' ? L, ;-*' ;,,*- 25',)*'
0 -*..' ?6/*0 >, 12.' 12',)*' =6-, ' 8) 1' .) 1 ; /0' + 1/6,*'
,)*', -*6, % 21,) *-' ?10*' 1 '-6, 25' >1+*262,.' 86.'
D ',)*' .;=*- 1-' >12,-6>, 25' =6-, ' =-*.*2, 25', 1',)*'
1,) *-' .1?*' 6-, >/*' 1 ') .' 182' 0-*..' 1-' 6-?.% ' ( ) ; .'
B126,) 62' .,- ==*0') ?.*/ '1 ',)*' -1D*',) 6,' 86.' ;=12'
) ?' 620' 56+*' ,', 1' 6+ 0' 620') .' 56-?*2,.' *+*2', 1'
) .' .81-0' 620', 1') .' D18' 620', 1') .' 5 -0/*J' M ' 6?%
L+ ' XT' 620' 6,' ,)*' =-*.*2,' 06 ',)*') 5) *.,') 121-
8) >)' 6' 9 25' 1 ' *-. 6' >62' D*.,18' ;=12' 6' .; DA*>,' .', 1'
>6; .*') ?.*/ ', 1' D*' 0 .6==6-*//*0' 620', 1' 5 +*') .' -1D*
, 1',)*' 6+1-*0' 20 + 0 ; 6/% 2' ; ?D*-.' L+ ' R' ?*2^
, 12' .' ?60*' 1 '6' >1+*262,' 1 ' .6/,' M_% +%X% ** < ·!
?125',)*' : *D-*8 . '620' /125' D* 1-*' ,)*?' 6--/125'
,)*' 62662 ,*. ',)*' =; ->) 6.*' 1 ' 62A C,) 25' 1 ' >12.*^
_;*2>*' 86.' >12>/ ;0*0' 620',)*' =- >*' =6 0' 6,',)*' 56,*'
1',)*' > , ' 6.',)*' .*6,' 1 ' A; 05?*2, ' D* 1-*' 6// 8) 1'
8*2,' 1 ; ,' 620' >6?*' 2' M4*2% LL ' S' K T' ;,) ' + '
KX% -1?',)*' /6,,*-' D119' 8*' 6/.1' /*6-2',) 6, ' 12' .1?*'
1>>6. 12.' 1 '=; ->) 6.*' 620' *L>) 625*',)*', -62. *-' 86.'
>12 -?*0' D ',)*' =-1=- *,1-' =/ ; >9 25' 1 ') .' .) 1*' 6,'
,)*' > , ' 56,*' 2',)*' =-*.*2>*' 1 ',)*' */0*-.' 620' 1,)*-'
8 ,2*..*.' 620') 620 25', ' 1+*-', 1',)*' 2*8' 182*-%
( )*' *6-/ *.' 21, >*' 1' 8-.,,*2' 2.-; ?*2,.' .*6/*0'
620' 0*/ +*-*0' 1-' -6, 25',)*0 .=1.6/ 620', -62. *-' 1'
=-1=*-, ' 1>>;-.' 2' B*-*? 6) ' LLL ' C ' 8) >)',)*'
=-1=)*', >1? ?620*0' 6-;>)', 1' D ; - ' 2' 62' *6-,)*2'
+*..*/' 2' 1-0*-' ,1' D*' =-*.*-+*0' 1-' =-10 ; >, 12' 6, '6'
; ,; -*' =*- 10' 6.' *+ 0*2>*' 1 ',)*' =; ->) 6.*% 1' ?*2^
, 12' .' =6-, >; /6-/ ' ?60*' 6.', 1',)*' ?622*-' 2' 8) >)'
0**0.' 8*-*' 62> *2,/ ' >62>*//*0% 1?*' *L=1. ,1-.'
) 6+*' ?65 2*0',) 6,' 2' 1/1.. 62.' ' 6; /-* *-.', 1'
,)*' >62>*// 25' 1 ',)*?' D ' D/1, , 25' 1-' 0-6 8 25' 6' / 2*
6>-1..',)*?' 1-' D %.,- 9 25',)*?',)-1 ; 5) ' 8 ,)' 6' 26 /'
D ; ,' 8*') 6+H' 21' 6; ,) 1- , ' 8) 6, *+*-.' -1?' 62, _; ,

,1' 6; ,) 1- [*' . ; >)' 6' >12>/ ; . 12% ' ( ) 1?.12 '
; + ' NQKCNQ % ** !

12, - , 12 ' 2' ,)*' 1?62' 6,) 1/ > ',)*1/15A7 .'
=*- *>,' 1-' ,) 1-1 ; 5) ' -*=*2,62>*' I ' 8' 6.'
0 ., 25; .) *0' -1?' ' 1-' ?=*- *>,' -*=*2,62>*'
8) >)' .' 21,' 60*_ ; 6,*', 1' A; ., >6, 12' 8 ,) 1 ; ,' =*2^
62>*' M.**' ' 1-' 6' ; //*-' .,6,*?*2, X% ( )*'
1 ; 2> / 1 ' (-*2,' ?69*.' >12,- , 12' =6-,' 1 ',)*' ?6,,*-'
1 ',)*' .6>-6?*2,' 1 '=*262>*% ( )*' 6>,.' 1 ',)*' =*2^
, *2, ' 26?*/ ' >12,- , 12' >12 *.. 12' 620' .6, . 6>, 12'
6-*',)*' ?6,,*-' 6.' ,' 8*-*' 1 ',) .' .6>-6?*2, ' 8) >) '
26. ?;>)' 6.',)* '6-*' -*_ ; -*0' D '0 + 2*' 6==1 2, ?*2, I'
2' 1-0*-', 1',)*' >1?=/*, *2*..' 1 ',)*' .6>-6?*2, ' 620',)*'
; // 620' =*- *>, '-*? .. 12' 1 '. 2. ' 6-*' 1-',) .' -*6.12
>6//*0',)*' =6-,.' 1 '=*262>*%%%%%%%%%% 12, - , 12 ' 8) >)
)1/0.',)*' -.,'=/6>*' 2',)*' 6D1+*C?*2, 12*0' 6>,.' 1 ',)*'
=*2 .*2, ' .',)*' .1--18' 620' 0*.*., 6, 12' 8) >)',)*' ? 20'
**/.' 1-' =6.,'. 2' 8 ,)' 6' =; -=1.*' 1 ' . 22 25' 21' ?1-*%
18',) .' *?1, 12' 1 '>12, - , 12' 86.' 6/86 .' 2*>*..6-'
2' 1-0*-', 1' 1D, 6 2',)*' =6-012' 1 '. 2.1' 620' 8) *2' 6' ?62'
) 6.' . 22*0' 6 , .*-' D6=, . ?' ,' =-*=6-*.') ?' 1-',)*' -*^
? .. 12' 1 '. 2' 'A1 2*0' 8 ,)' >12 0*2>*' 2',)*' ?*-> '
1 ' 410' 620' 62' *6-2*.,' 0*. -*' 1 '=*- 1-? 25' C8) 6,*+*-'
.' 2*>*..6- ', 1',)*' =-1=*-' -*>*=, 12' 1 ',)*' .6>-6?*2,
% % % % ( )*' >1; 2> / ; -,) *-' .*6>) *.' ,) 6,' 6/,) 1 ; 5) ' ,
?6 '.1?*, ?*.') 6==*2',) 6,',) .' >12,- , 12' .' =*- *>,'
2' >) 6- , ' 620' -*>12> /*.' 6' ?62', 1' 410' D* 1-*',)*'
.6>-6?*2, ' 1 ' =*262>*' .' 6>, ; 6// '-*>* +*0' 2*+*-,)*^
/*..',)*' -*>12> / 6, 12' .' 21, ', 1' D*' 6.>- D*0', 1' >12,- ^
, 12' 8 ,) 1 ; ',) *' 0*. -*' 1 ',)*' .6>-6?*2, ' 8) >)' 86.' 2'
6>,' 2>/ ; 0*0' 2' , ^T ' '- '.*..% L + ' >) 6=' '
+%

, ' 8 // D*' 1D.*-+*0' -1?',)*' =-*>*0 25' _ ; 1,6, 12.'
,) 6, ',)*') ; ->) ' 1 ' 1?*', *6>) *.',) 6,' 8*' 6-*', 1' D*'
, -; / '5- *+*0' 1-' .1-- ' 12' 6>>1 ; 2, ' 1 ' ;-' . 2.') 6,' 8*'
6-*', 1') 6,*',) *?' 620',) 6,' 8*' ? ; .', =; -=1.*' 1-' -*^
.1/+*', 1' 1-.69*',) *?% // ',) .' .' *L>*//*2', .1' 6-' 6.'
, 51*.% ; ,' 12*' *..*2, 6/ */*?*2,' 1-' ?6-9' 1 ', -; *'
-*=*2,62>*' .' *2, -*/ ' 1?, ,*0' 1-' .1' ./ 5) , / '-*' (>0'
, 1',) 6, ',) .' .1--18' 1-') 6,-*0' 1 '. 2', 15*,) *-' 8,) ' 6//
5110' =; -=1.*.' 1 '6?*20?*2, '6-*' >1; 2, *-6>, *0' 1-' ?6 '
D*' .; D., , ; , *0' D '600, 126/ ,1' 01' D*, , *-' 2'
; , ;-*' D ' =- *., / ' 6D.1/; , 12' D ' =*262>*.' 620' DI7
,)*' 01>, -2*' 1 '6, , - , 12' 1-' ?=*- *>, '>12, , 12% ( )*'
0* >*2> ', 1' 8) >)' -* *-*2>*' .' ?60*' .' ' .2%
( ) .' =-6>, >6/ 6>, ' .' 1+*-/119*0' >1; 2, *-6>, *0' 1-' -*2^
0*-*0' ; 22*>*..6-A7D ',)*' -*.1/; , 12.' 1 ' 6?*20?*2, '
6D.1/; , 12' =*262>*.' 620' 8) 6, *+*-' ?6 ' =*-, 6 2' , 1'
,)*?% ' // 1, , ' ' ' '5 ' D9% L ' >) 6=%
% g N%

12+*2 *2, ' ; .*0' 2' ,)*' % 12/ ' 2' ,.' 1/0'
6, 2' .*2.*' 1 ' ' 1-' D*>1? 25' 6.' 6' -*20*- 25' 1 '
" ' MB*-% L/ ' ' ' 6.' 1 , *2' */.*^
8)*-*X' =2 ' " "' M -1+% LLL ' Q' 62' 6//1, , *0' (B% 9
P' 6.' .1?*, ?*.' */.D8) *-*X') 1 f) IE' M 1?% ' KQ'
6.' 2' >, .' LL 'KKX') 'M =) % + ' T') /*?%
Q' @ /:' 6.' 2' 1/% ' QXT' D ; ,') 1 ' M<6-9' + '
K X') IG 8 ' M<6-9' L + ' X' ") ' M ' 1-% L + '
KX' 1-' . ?=/ ' >, =1> M >, .' LL + ' K X' -* *-', 1' %% 9
' 1 ', ?*' 1-' .*6.12% ? /6-/ ' 2',)*' =1>- ^
=) 6' I) 1 8) 8' >>/ ; .% L ' KNT' <6>% L ' T' K' <6>>%
+ ' RT' L ' QSX' M ' <6>>% + ' NKT' L + ' KK%C' . ?=) 7 >2, =1*'
M >>/ ; .% LLL L ' X' 1-' ?*-*' >12., -; >, 12' MK' <6>% L '
QX%

12+*2, ' M %X',)*' 26?*' 5 +*2' 2' ?126., *- *.' 620'
. ? /6-' 2., , ; , 12.', 1',)*' 6..*?D/ 'M620',)*' 8) 1/*X' 1 '
,)*' ?*?D*-.' *2, ,/*0', 1' 6' +1, *' M >12+*2, ; 6/. JX% ( )*'
)*60.' 1 ',)*.*' 2., , ; , 12.' M6DD1, . ' =- 1-. ' =-1+1., . '
-*>, 1-. ' 5; 6-0 62. X' 6-*' D1; 20' 2' .1?*' =1 2, .' 1 '60^
? 2 .,-6, 12' * ',)*-', 1') *6-',)*' >1; 2.*/ 1-', 1' 1D, 6 2',)*'
>12.*2, ' 1 ',)*%>12+*2, % <126., >' >125-*56, 12.' \.**
1 4 (B) (1 .H% .1?*, ?*.') 1/0' 5*2*-6/ >12+*2, .J'
M1-' 5*2*-6/ >) 6=, *-. JX' >12. ., 25' 1 ',)*' 6DD1, .' 1 '6//
,)*') 1 ; .*.' 1 ',)*' >125-*56, 12% ( )*' >12., , ; , 12' 1

,)*' ?*20 >62,'1-0*-.' 620'1 ',)*'-*5 ;/6-'>/*-9.'=-1+ 0*.' 1-',)*')1/0 25' 1 ' =-1+ 2> 6/ >12+*2,..J' M1-' =-1+ 2^ > 6/ *>)6=,*-.X' >12. ., 25' 1 ',)*')*60.' 1 ',)*' ?126.^ ,*- *.' 1 '6'=-1+ 2>*' 620' 5*2*-6/ >12+*2,.J7M1V5*2^ *-6/ >)6=,*-.X' >12. ., 25' 1 ',)*' >) * .' 1 '6// ,)*' ?1^ 26., >' =-1+ 2>*.' M =-1+ 2> 6/.JX% ;',)*' /6,,*-' 2' ?10*?' , ?*.')6+*' 5*2*-6// ' 6//*2' 2,1' 0 .;.*' 620' 8-.,,*2'-*=1-,.')6+*',69*2',)* -'=/6>*% MK%X ()*' 81-0' .' 6/.1' ;.*0',1'0*21,*' 6' .1> *, ' 1 ' ?129.' 1-' 2;2.' 2' 12*'*.,6D/ .)?*2,'1-',)*'D; /0 25' ,.*/ ' 2'8)>)',)* ' 08*/% ' & *,[*-' ;% &>/,*') + = !' 'Q R% **' 6/.1' #!

12+*2, >/*' >% ' ' 1' 6,% =' '0 ? 2;, +*'1 ' 8!' ()*'81-0' ' 86.' 92182',1',)*' =- ? , +*');->)',1'0*. 526,*' 6')1;.*' 1 '=-6 *-' ' ' ' ' M -21D% +'1.**'6/.1' 6>,62,% +' T' -1. ;.'+ ' KX% 2'6 .*-', ?*.' ,'0*21,*0'6' >6D6/6?125',)*' ?129.'1 '6'>12+*2,' ,1' .*>;-*',)*' */*>, 12'1 '.1?*' 6+1-,*'>62^ 0 06,*' 1-'6DD1,'1-'.;=*- 1-% %()*',*-.?'>12+*2, >/1I .' .6 0',1')6+*' D**2' -.,'6==/ *0' 2' 25/620',1',)*' 6.^ .*?D/*.'1 ' & >9/ *.' 1//18*-.T D;.' 2',)*' -* 52'1 ')6-/*.' ' ,' 86.' 5 +*2'>12,*?=.;1;./ ',1',)*' ?**,^ 25.' 1-'-*/ 5 1;.'81-..) ='1 ' -1,*.,62,'0 ..*2,*.-' -1?' ,)*');->)' 1 ' 25/620' 8) >)' 8*-*' 21,'6,',)*' , ?*' .62>, 12*0'D '/68%

12+*2, >/*' >,'62'6>,'17',)*' -, .)' 6-/ 6^ ?*2,'=6..*0' 2' S4% ;'*26>,*0',)6,'12/ ' +*'=*-^ .12.' 6D1+*' .L,**2' *6-.' 1 '65*'D*.0*.',)*' 6? / ' 8*-*',1'?**,'1-'62 '81-.) ='01?*.,>'1-'.1> 6/%' ()1' -.,'1 *2>*' 12',)*' =6-,'1 ') ?' 8)1'1 >6,*0'86.' ,)-**' ?12,).' ?=-.12?*2,'1-' +*'=1;20.' 2*T',)*' .*>120' .L'?12,).' ?=-.12?*2,'1-',*2'=1;20.T',)*' ,) -0'1 *2>*' 86.',-62.=1-,6, 12' 1-'/ *' 1-'6' 2*' 1' 12*');20-*0'=1;20.% ()1.*' 8)1'=*-? ,,*0'>12+*2^ , >/*.' ,1'D*')*/0' 2',)* -'D6-2.') 1;7.' 1-' 1;,)1;.*.' 8*-*/6D/*',1',)*'.6?*' 1- *,;-*.T 620'?6-- *0'81?^ *2',69*2'6,'.;>)'?**, 25.' 8*-*',1'D*' ?=-.12*0' 1-',8*/+*' ?12,).';2/*..' ,)*-'); .D620.'=6 0' 1-, '.) /^ / 25.' 1-',)*-'-*0*?=, 12% ()*'=18*-' 1 '*2 1-> 25' ,)*' 6>,' 86.'/105*0' 2',)*')620.' 1 '6'. 25/*'A;., >*' 1 ' ,)*'=*6>*' 8)1'? 5),'=-1>**0'8 ,)1;',)*'+*-0 >,'1 '6' A;-E!' 12',)*' D6-*' 16,)' 1 '62' 2 1-?*-% 2' >12.*^ _;*2>*'1',) .'6>,')1;.*.'8*-*'D-19*2'1=*2'5110.'620' >6,,/*' 0 .,-6 2*0'=*-.12.' 6--*.,*0'620',)*'A6 /.' 2',)*' 0 *-*2,'>1;2, *.' //*0'8 ,)',)1.*'8)1')60'D**2'5; /, ' 1'21'1,)*-' ? .0*?*621-' D;',)6,'1'6..*?D/25',1^ 5*,)*-',1'81-.) =' 410'1-'/ .,*2',1',)*' *L=1. , 12'1') .')1/' 81-0% ';>9'-'" ' ' 1'.% +%T *6/' # ' ' " ' 1'=6-,' +'>)% + T -?*' ' ';' 1' 'KK 'K %

12+*2,;6/.'M %X' <129.'1-'>/*->6/92 5),.'8)1' 6-*'?*?D*-.'1'6'>12+*2,'620')6+*',)*'-5),'1'+1, 25' 6,',)*'?**, 25.'=+:#! ? ;' *>□ '%& '' <129.' 2'5*2*-6/' 2'1==1., 12',1')*22,.% MN%X 2'.*+*-6/ 1-0*-.' *.=*> 6// ',)*' ?*20 >62,'M12+*2,;6/.' .'6// ' 6==/*0'%,1' ,)*' -62> .>62'>12+*2,;6/.'M.**' ('' %)'' 1?*, ?*.' 6/.1' 6' >1? ?;2, ' 1 ' >620 06,*.' 1-',)*' =-*.,)110'8)1' 2'6'?126.,>'?622*-'/+*0' 2'>1?*2 ?12';20*-' 6'=-1+1.,'8*-*' 0*. 526,*0'D ',) .' 26?*% 12+*-.6, 12'M(=H' "1' .6% LLL+ ' T' 'KNT' / =1>-A=)6'620' % f'D;',-=*C' (' 2'K' <6>>% LL' KT' :*D% L ' X' .'2*+*-',:.*0'2' ,)*' >-=,;-*.' 2',)*'.*2.*'1 '8*-S67 'D;,' 6/86 .' 2' ,.' 218'1D.1/*,*' ?*62 25'1 '>1;-.*' 1 '/ *' 1-' % ' 2>/;0 25'6//' 12* .' 81-0.'620'6>,..% 2') /' 'K T' 'K '6'0 *-*2,',*-?' .' 1;20' 2',)*' 1-5 26/' >) % '- O % (8' 8)>)'/,*-6// '. 5^ 2 *.' '1-'-*/6, 12.',1'6'>1?? ;2, .'6'>, ^ [*2% **' □ * - *2,6/.'6-*'/ ,,/*' 2',)*')6D ,'1 '-*=6 - 25',1'*6>) 1,)*-.')1;.*.' =' ,)*' =;-=1.*' 1 ' .1> 6/ 2,*->1;-.*' D;',-6,)*-' =,* *-',1'-*.1-',1' .1?*' .=1,' 1;,' 1 '01=-.' 8/ -*V- *20.'>62'?**,',15*,)*-' 620' 1-',) .' =;-=1.*' ,)*'56,*' 1 ',7*'>, ' .' 5*2*-6// ' >)1.*2I' **' & ! ;>)' 86.',)*'>;.,1?'1 '1/0,'620'6>>1-0 25/ '8*' 20' ,)6,',1'*6>)'>, 7?125',)*'B*8.',)*-*' 86.'62'1=*2' .=6>*'2*6-',)*'56,*'8)>)'86.' ,,*0';=' 8 ,)'.*6,.' 1-',)*'6>>1?? 106, 12'1',)*'=*1=/*'M4*2% L L' T' .6' L L' KX% ()1.*'8)1'8*-*'6,'/* .;-*' 1>>;=*0'6'=1F' . , 12'12',)*.*'.*6,.'620'*,)*-'6?;.*0',)*?.*/+*.' 8 ,)'8 ,2*.. 25',)1.*'8)1'>6?*'2'620'&*2,'1;,'620' 8 ,)'62 ',- / 25'1>>;--*2>*.',)6,'?5),'=-*.*2,',)*?^ .*/+*.',1',)*-'21,>*'1-'6,,*'620',1',)*'A;0>6/,-6/.' 8)>)'8*-*'>1?12/ '2+*., 56,*0'6,'=;D/>'=/6>*.'1 ',) .'9 20'M4*2% LLL+'K T' ;,)' +' T' .6% LL+ ' ' T' >LL+ ' X% -1?*260 25'.1'65-**6D/*' 2'>1/0*-' /6, ,;0*.' .' 8*6-.1?*' 620' ;2=/*6.62,' 2',)*' 86-?' >/?6,*.'1',)*' 6.,'620',) .' =-1D6D/ '12*' -*6.12' 8)',)*' 2)6D ,62,.'1',)1.*'>/?6,*.'=-* *--*0')1/0^ 25' 2,*->1;-.*'8 ,)'12*'621,)*-'8)/*' .,, 25'2*6-',/* 56,*' 1',)*' >, '1-'D*2*6,)',)*' .)60*'1',)*' 5C,-**' 620',)*'+2*'M' 6?% LL 'ST' <>6)' +' X% 7 ( ) .' ?10*'1'=6.. 25',)*7?*' .'.., //>;.,1?6-'2' ,)*' 6.,% ',' .'21';2>1?? 12',) 25 J'.6 .' <-%B18C' *,,' ,1'.**'62' 20 + 0;6/1-'6'5-1;=' 1'=*-.12.'*+*2' 8)*2'+*-' 8*//0-*..*0'.,, 25'8 ,)',)*-' **,'0-68 2' ;20*-',)*?' ;=12',)*'D6-*'*6-,)'=6.. 25'8)1/*')1;-.' 2' 0/*>12+*-.6, 12% ;-1=*62.'81;/0'-*_;-*'6'>)6-' D;',',)*'26, +*',)*-*'M -6X'=-*'*',)*'5-1;20T 2',)*')*6,'1'.;?*-'620'6;,;?2' ',' .'=/*6.62,',1',)*?',1' 8)/*'686',)*-',)6,')*'-6-*'>62,'M 6X'=-*'*',)*'5-1;20T 2',)*' **/ ,)*?./+*.'6,'/D*-,X110-*>,/' ,1' >12,-60>,',)* =*-.12'8 ,)'8)1?',)*'6-*'>12+*-.25'6/,)1;5)',)*' ?6'6,',/*'.6?*',?*'D*6 86-*',)6,')*' .',*//)5',)*?' 6/.*)110.% ()*'62>*2,':*D-*8.'2'=6-,>;/6-'+*-.' -6-*/';.*0'62',*-?.'1'-*=-16>)'?1-*'.*+*-*' ,)62',)17*'1 ' (' ?*62 25' 60+*-.6- J'1-' 1=C' =1.*-TJ' + "(' A1>6' >12,*?=, D *920 .1?*, ?*.' 7KN' N' 11/J'62'*L=-*.. 12'8)>)' ?*62.' 6'8>9*0'?62J'1-' 62 6,)*.,J'21,'6.'8,)' ;.'6'=*-.12'0* >*2,' 2' ;20*-.,620 25' MB1D' ' T' .6% L+' T' .6% LLL ' ST' <6,,'+'KKT' L+ 'KNX% *>' (" &)*2'62 ,) 25'86.'.6 0'8)>)'86.'21,'6>^ >*=,6D/*',)*'0 ..6,. *0'=*-.12'-*=/*0' ' *',',; >*',)**J' M *;,% 'KSX'1-' ',' .'*21;5)J' M ;9*' LL ' NQX% 2'6OO-*.. 25'6'.;=*-1-',)*':*D-*8.'0 0'21,' >1?? 12/ ';.*',)*'=-121;2.'1',)*' -.,'620'.*>120' =*-.12'D;,'2.,*60'1 ' ' J',)*E7.6 0' ,) '.*-+62, J' 620' 2.,*60'1 ',)1; J',)*'*?=/1 *0',)*'81-0.' ?' /1-0F I 2.,62>*.'1',) .'?10*'1'*L=-*.. 12'-*=*6,*0^ / '1>>;-' 2' >-=,;-*'M6.' 2'4*2% LLL ' T' L/+'] ' RT' L/+' N T' 62% L' T' ;9*' NQX ()*'1-?'1'6..*2,'1-'6 -?6, 12'86.' ()1;')6.,' .6 0 J'1-' ()1;')6.,'-5),/ '.6 0TJ'620'?10*-2,-6+^ *//*-.' 2 1-?' ;.',)6,',) .' .',)*'=-*+6 / 25' ?10*'1'6' =*-.12.' *L=-*.. 25') .'6..*2,'1-'6 -?6, 12',1',) .' 06Ef' 2' .1?*'=6-,.'1',)*' 6.,' *.=*>6// '8)*2',)*' 01'21,'8 .)',1'6..*-,'62 ,) 25' 2'*L=-*..',* ?.'M>1?=% <6,,'LL+ 'S X% **' ! 12+*-. 12'6',)*1/15>6/ ,*-?' ;.*0',1'0*21,*' ,)*' ,';-2 25J'1'6'.22*-',1'410% ,'1>>;-.' 2' >,.' 7+'N'M 0*>/6-25',)*'>12+*-.12' 1',)* 4*2, /*.JX' ()*'+*-D' -% ' .';.*0',)*' %(% 6>,+*/' 2',)*'.*2.*'1',;-2 251 1-'>12+*-.,25'1,)*-.' M ;9*' S',>,'6/%XT' 2,-62.,+*/' 2',)*'.*2.*'1' ,';-2 25'D6>9J' -*,;-2 25TJ'620',-1=>6// ',1'0*^ 21,*' ,;-2 25',1'5110J' ,1'D*'>12+*-,*0J'M ;9*' LL 'NK' '8)*2',)1;'6-,'>12+*-,*0'.,-*25,)*2',)*' D-*,)-*2JX% 2'5*2*-6/',)*'81-0' .';.*0',1'0*. 526,*' ,)*' ,;-2 25'1'?*2' -1?' 06-92*..';2,1/5),'620' -1?',)*'=18*-'1'6,62';2,1'410J'M >,.' LL+ ' Q%X' 2'6'5*2*-6/.*2.*C)*6,)*2.'1-'2 0*/.'6-*' >12+*-,C

6,' ,)*' .6?*' , ?*' ,)*' .1+*-* 52' >1;/0' .;??12' D1,)' =-1+ 2>*.'D '6'-1 6/ 8-.',: 119%
25/620' .' 0 + 0*0' 2,1',)*' ,81' =-1+ 2>*.' 1 ' 62^ ,*-D;-' 620' 1-9' 620' D ',)*' ,*-?' 12+1>6, 12' .' ?*62,' ,)*' . 210' 1-' =-1+ 2> 6/ >1;2> / 1 ',)1.*' =-1+^ 2>*.% ()*-*' 6-*',)*-* 1-*',81' >12+1>6, 12.' *6>)' 20*=*20*2,' 1 ',)*' 1,)*-' D;,' 2.,62>*.')6+*' -*^ _;*2,/' 1>>;--*0' 2' 8) >)',)*')6+*' 6>,*0' ,15*,)*-' D ' ?;,;6/ >12.*2,% 1??.. 12*-.')6+*' .1?*, ?*.' D**2' .*2,' -1?' 1-9',1'. ,' 2',)*' 12+1>6, 12' 1 ' 62^ ,*-D;- ' 8 ,)*' ;// =18*-.',1'6>,'12' D*)6/ '1 ',)*' 21-.,)^ *-2' 12+1>6, 12% 2>*',)*' * 1-?6, 12' 1-' 1D+ 1;.' -*6.12.',)*' /*5 ./6, 12' 1 ',)*');->)' 1 ' 25/620' 86.' + -,;6// ' 2',)*')620.' 1 ',)*' .1;,)*-2' 12+1>6, 12% ()6,' 1 ' 1-9' .*/01?' 1- 5 26,*0' 62 ' ?=1-,62,' ?*6.^ ;-*' 1-' =*-. .,*0'/125' 2'-*. .,25',)*' 0*>. 12.' 1 ' 62^ ,*-D;- % ,' D*>6?*' 6,' /*25,)',)*' 6 2,' *>)1' 1 ' ,.' ?1-*' 6+1-*0' . .,*-.' +1 >*% ()*' 12+1>6, 12' 1 ' 62,*-D;-' 1 '6// ',)*' D .)1=.' 1 ',)*' =-1+ 2>*' 8)1' >12., ,;,*' ,)*' ;==*-')1;71' 620' 1 ' ,)*' 0*6=. ' 6->)0*6>12.' =-1>,1-.' 1 '>)6=,*-.' 620' =-1>,1-.' 1-',)*' =6-1>) 6/ >/*-5 ' 8)1' >1?=1.*',)*' /18*-')1;.*% 2' QS ',)*' ;==*-')1;.*' 1 ' 62,*-D;-' >12. .,*0' 1 ' K ' ?*?D*-.' 620',)6,' 1 ' 1-9' 1 ' ' ?*?D*-.' 8) /*',)*' /18*-')1;.*' 1 ' 62,*-D;-')60' S%26?*/ 'K '0*62.' SS6->)0*6>12.' K '=-1>,1-.' 1-' >6,)*0-6/ >)6=,*-.' 620' K '=-1>,1-.' 1-',)*' >/*-5A X' 620',)6,' 1 ' 1-9' ?*?D*-.' MS 0*62.' ' 6->)0*6>12.' ' =-1>,1-.' 1 ',)*' >)6=^ ,*-.' 620' KR' =-1>,1-.' 1-',)*' >/*-5 X% .' =-*. 0*2,' ,)*' 6->)D .)1=' .;??12.',)*' 12+1>6, 12',1' ?**,' 6,' ,)*' >1?620' 1 ',)*' 9 25% & *-*')*' ,1' 6,,*?=',1' 6..*?D/*' 6' . 210' D ') .' 182' 6;,)1-, ' D*' 81;/0' D*' .;DA*>,' ,1' 6' =-6*?;2 -*' 620',)*' =-1>**0 25.' 1 ' .;>)' . 210' 81;/0' D*' +1 0% 2>*',)*' >,' 1 ' ;D? .. 12',D*' =18*-' 1 .;??12',)*' 12+1>6, 12' 6,' ,)*' >1?7*2>*^ ?*2,' 1 '6' 2*8' 6-/ 6?*2,')6.' ;.;6// 'D**2' 5-62,*0' ,)1;5)' -1?',)*' , ?*' 1 '4*1-5*' 'MB X' ;2, / -*>*2,^ / '21' D;. 2*..' 86.',-62.6>,*0% ,' .'6/.1',)*' 0;, '1' ,)*' 6->)D .)1=',1' =-1-15;*' 620' 0 ..1/+*',)*' 12+1>6^ ,12' ;20*-',)*' 0 -*>, 12' 1 ',)*' >-182% '/6,*',)*' >12+1>6, 12.' 1 ' 62,*-D;-' 620' 1-9')6+*' D**2' .*^ + +*0' ,)*' -*+ +6/' 1 ',)*' -.)' 12+1>6, 12')6.' D**2' ,-.*2;1;./';-5*0'*.=*> 6// 'D',)*' : 5)C);-)' =6-, % ()*' 0*> . 12.' 1 ' 12+1>6, 12')6+*' 21' /*56/' 1->*' 2' 25/620% .' *..*2, 6// ' 2,*-81+*2' 8 ,)' ,)0/ ,6,*',D*');->)'=1..*..*.'21' 20*=*20*2,'6>, 12' ,.' 6-, >/*.' / ,;-5 '1-562 [6, 12' 6.',1' D*2* >*.' *,>% 6->' 6// -*5;/6,*0' D ' 6-/ 6?*2,' 8) /*' .' 0 .> =/ 2*' 6//.' 8 ,) 2' ,)*' .>1=*' 1 ',)*' *>>/*. 6., >6/' >1;-,..' 6' >/6..' 1 ',-D;26/.' 6=6-,' -1?',)*' ? 2 .,*- 25' >/*-5 % ()*');->)',)*-* 1-*' 2' ,.' 0 .,2>,' >6=6>, ' .' /* ,' / ,,/*' ,1' 01' 2',)*' 86 ' 1 'A;- .0 >, 12% ' .' ;-,)*-' ;-5*0' 6.' 6' -*6.12' 1-'-*.,-> , 25',)*' =18*-' 1 ' 12+1^ >6, 12',)6,' D* 25' =;-*/' .6>*-01,6/' ,' ? 5),' D*' 6=,' ,1' -;2' 2,1' *L>*..*.' 620' =;,' 1-,)' >/6 ?.' 60+*-*' ,1' ,)*' =-*+6 / 25',12*' 1 '.*2, ?*2,' 12'-*/ 5 1;.' ?6,,*-.'? ,)6,' 2'.)1-,' 6.',) 25.' .,620',' ,' .6 *-' 1-',)*' =;D^ />',1' D*' ;20*-',)*' 6;,)1-, ' 1 ' 6-/ 6?*2,',)62',1' /%* .;DA*>,',1',)*' 1-0 262>*.' 1 '6' D10 ' 1 ' *>>/*. 6., >.J')6?D*-.' 6 %I-3 I1.%+%% ()*-*' .' 62' 6D/*' 6-^ ,>/*' 656 2.,',)*' -*+ +6/1' 12+1>6, 12.' 2',)*' 6 "!' 5 !B62% Q % 1-' ;-,)*-' 2 1-?6, 12' 6.',1',)*').^ ,1- ' 1 ' 12+1>6, 12' .**' 1// *-' 6 ! " !' '? ; :' & /9 2.' U ## ' ; ' 'M 12012' N ' '+1/.% 1/%' & 69*' $ ' '" ' "!' '6 *,>% M 1_0% N' 1/ ' >12,6 2 25' 6' /6-5*' >1//*>, 12' 1 ' 01>;?*2,.' 12' 12+1>6, 12X *//18.' S' ' ' ' & + ' 'D 9 ' ` "' '$ " ' ' ' ' ' 9 'M 120% Q K' =-1=1.*.',1'*.,6D/.)'12*' 12+1>6C ' ?;//*-' ' N T ()1?.12' ' ; +' , 12' 2.,*60' 1 ',)*' ,)-*' \K' 25/.)' ' -.)h' ,)*2' 2' *L .,*2>*X' E*$ " E # ' I ! # .' Q+1' K0' *0%X' 62012' ' ' .'% +% =: :' 6-08*//' ' 1 '& Q 'K'+1/.% Q+1X' <6-.0*2' " " ' '$ '=% Q C-_ ' " ' 5 ' >,% Q '=% NSR' +*-6//' '! ' ; +'M L 1-0' Q ' c+1X' 6/?*-', ' " ' " '" ' E .' *.)C?*6,'0 0' 21,' 1-?' 62' 6-, >/*' 1 ' 1-0 26-

12+;/. 12 .,. '6',*-?' 6==/ *0',1' =*-.12.' 8)1' 8*-*',)*' .;DA*>,.' 1 ' ,.' 1 '8) >)',)*' 8*-*' .6 0',1' D*' >;-*0' D '+ . , 25',)*',1?D' 1 ',)*' 6DDS' 6-.' 6' >*/*^ D-6,*0' [*6/1,' 6?125',)*' B62.*2 .,% ()*' 26?*' 86.' 6 ,*-86-0.' 5 +*2' 2' -62>*',1',)1.*' 8)1.*' 626, >.?' 1-' ?=1.,;-*' >6;/*0',)*?',1' 81-9',)*?.*/+*.';=' 2,1' ,)*' .,-125*.,' 65 ,6, 12.' 1-' >12+;/. 12.' 0;-25' 8) >)' ,)*' -*>* +*0' 8120*- ;/ -*+*/6, 1=.' 620' 6D62012*0' ,)*?.*/+*.',1',)*' ?1.,' *L,-6+6562,' 62, >.',)6,' 8*-*' *+*-' *L) D ,*0% ()*' ,)-*8',)*?.*/+*.' 2,1',)*' + 1/*2,>12,1-, 12.' 1 'D10 '-1//*0' 6D1;,' 12',)*' 5-1;20' ? ,6,*0' D -0.' 620' D*6.,.! 620' 8)*2' ,)*')60' >1?^ =/*,*/' *L)6;.,*0',)*?.*/+*.' 8*2,' 1 ' 2' 6' .8112% 26;/,' 62' 60+1>6,*' 8)1' D*/125*0',1',)*' 12+;/C . 12.,.' ?6 2,6 2*0',)6,' 410')60' .*2,')?' 6' =*>;/ 6-' 9 20' 1 ' ,.',1') ;?D/*').' =- 0*% **$

12 D*6-*' % %' 6' /*6-2*0' 0 + 2*' 620 0.,25; .)*0' =-*6>)*-' 86.' D1-2' 6,' 2)1*' *+12^ .)-*' 2' 7RK' 620' 86.' *0;>6,*0' 6,' L*,*-' 1//*5*' L 1-0' 1 '8) >)')*' D*>6?*' */18' 2' % 2' K')*' D*>6?*' -*>,1-' 1 ' ,% /*?*2,.' L 1-0' 620' 2' K' 1D,6 2*0' 5-*6,' >*/*D-, ' D ').' + .,6, _=' .*-?12' 12' 1' .;D.>-=, 12% :*' 86.' 6==0 2,*0' -*>,1-' 1 ').' >1//*5*' 2' N '0*62' 1 ')- .,');->)',81' *6-.' 6 ,*-' 620' 26// ' D .)1=' 1 ' - .,1/ 2' % :*' 0 *0' 6,' 6,) B;/ ' N S% :*' =;D/.)*0' .*+*-6/' 81-9.',)*' ?1.,' ?=1-,62,'1 '8) >)'6-*' &' ' ' '5 '5 ' '" '6 % ' '\(206/.h' " ' ' ' ' " ' 'M 120% NK' Q+18 ST $ 'M 12012' K' +1/.% Q+1X% ' 6-/ 25' ' ; " ' .% +%

12 D*6-*' & // 6?' 62 */' 0*62' 1 ' /62C 06 ' 86.')1-2' 6,').' 6,)*-.' -*>,1- ' ,% 1,1/=).' .)1=.56,*' B;2*' Q % :*' *2,*-*0')-.');->)' 1//*5*' L 1-0' 2' B62;6- ' Q '620',119').' 0*5-*' 1 ' % % 2' Q Q' 620' <% % 2' Q % <-% 12 D*6-*' 86.' 12*' 1 ',)*' *6-/ *.,' =-1?1,*-.' 1 ',)*' 4*1/15 >6/ 1>*, V620',)*' ?=1-,62,' .*-+ >*.')*')6.' -*20*->0' ,1'5*1/15 >6/ .> *2>*' ?6 ' D*' .**2' 2').'2;?*-1;.'=6^ =*-.'=- 2,*0' 2',)*' .1> *, .' '(-62.6>, 12. J' 2' QNR)*' 86.' 6?=,12' /*>,;,-*- '620' 86.' ?60*' 0*62' 1 ' /62C 06 2' Q % :*' 0 *0' 2*6-' 1-, ?1;,)' ;5% K QS % *. 0*.').'2;?*-1;.' 8- , 25.' 12' 5*1/15 >6/ ,1=>.')1' =;D/.)*0' 7*' " '@ " ' ' " '& =$ ' 'M L % QN ' 6?=,12' *>,;,-*' Q+1X' 6 ' ' '-" ' 'M 120% QNS'.?% Q+1X%

12 D*6-*' & % B% '.12' 1 ',)*' =-*>*0 25' 86.' 6 -*_;*2,' >12,-D;,1-',1',)*' 6 "' 5 ' *.=*^ >6// '12' *>>/*. 6., >6/ ,1=>.% (15*,)*-' 8,)' ,)*' *+% B% % :18.12')*' =;D/.)*0',)*' ' '6* N ' '$ ' 'M 120% Q K' +1/.% Q+1' -*=- 2,*0' 2' % %' 6)1' 6D-05*0' K' +1/.% K?1X' 12*' 1 ',)*' D*.,' 81-9.' 1 ',' >/6..% :*' 0 *0' 2' Q %

119IM,26/*' : $' " +(' ' 6?% L' KN' N ' *?6/*' " "(' + ' N' D1,)' =-1=*-/ ' 6 G' 6' =*-.12' *?=/1 *0' 2' 6?/*.' 1 '-629' ,1' =*-^ 1-?' >;/26- ' .*-+ >*% 119 25' M Th ' " " (8')18*+*-' 6?125',)*' :*A-*8.'M6,'/*6.,' 2' *6-/ ', ?*.X 86.' 5*2*-6// '012*' D ',)*' ?6,-12' 1 ',)*' ;? / '*+*2' ,)1;5)' .)*' 8*-*' 6' =-2>*..' M4*2% L+ ' KCS' A B;05*.' + ' RX% ?125',)*' 5 =, 62.',)*' >119' 86.' 6' =-1^ *.. 126/ >)6-6>,*-% M **' & /9 2.12 .' & ' 6 %=' ' ' ' 6D-05?%X' ()*' =-1>*..' 1 '>119 25' .**?.' ,1')6+*' D**2' +*-' *L=*0 , 1;./ ' =*- 1-?*0' M4*2% LL+ ' N' ' R' X' 620' 6//',)*' /*.)' 1 ',)*' ./6 2' 62 ^ ?6/' 18 25',1',)*' 0 >;/, '1 '=-*.*-+ 25',' 2' 6' 86-?' >/ ?6,*' 86.' >1?12/ ' >119*0' 6,' 12>*' 8)>)' .',)*' >;.,1?' 1 ',)*' 6.',' ,)*' =-*.*2,'06 % M **' 1.*2C 'M 120% Q KT' =-1=1.*.',1'*.,6D/.)'12*' 12+1>6C ' ?;//*-' ' N T ()1?.12' ' ; +' ' , 12' 2.,*60' 1 ',)*' ,)-*' \K' 25/.)' ' -.)h' ,)*2' 2' *L .,*2>*X' E*$ " E # ' I ! # .' Q+1' K0' *0%X' 62012' ' ' .'% +% =: :' 6-08*//' ' 1 '& Q 'K'+1/.% Q+1X' <6-.0*2' " " ' '$ '=% Q C-_ ' " ' 5 ' >,% Q '=% NSR' +*-6//' '! ' ; +'M L 1-0' Q ' c+1X' 6/?*-', ' " ' " '" ' E .' *.)C?*6,'0 0' 21,' 1-?' 62' 6-, >/*' 1 ' 1-0 26-

Ancient Egyptian Kitchen.

Fig. 1. Killing and preparing the joints, which are placed at *a, b, c*. 2. Catching the blood for the purposes of cookery, which is removed in a bowl by fig. 3. 4 and 5. Employed in boiling meat in a large pot, *d*, and stirring the fire. 7. Preparing on a chopping-board, *f*, the meat for the caldron, which fig. 6 is taking to the fire. 8. Pounding some ingredients for the cook with a pestle, *i*, in a mortar, *g*. 9. Bringing a pile apparently of platters or bowls, *e*. Probably a piece of meat. *l, h*. Apparently siphons for drawing liquids from various vessels, *l, m, n, p*. Perhaps bottles in a rack. *k*. Ropes passing through rings, *i, j*, and supporting different things, as a sort of safe. *s*. Probably plates. *t*. A coil. *u, v*. Tables.

diet among the Jews, the art of cooking was not carried to any perfection; and, owing to the difficulty of preserving it from putrefaction, few animals (other than sacrifices) were slaughtered except for purposes of hospitality or festivity. The proceedings on such occasions appear to have been as follow: On the arrival of a guest, the animal, either a kid, lamb, or calf, was killed (Gen. xviii, 7; Luke xv, 23), its throat being cut so that the blood might be poured out (Lev. vii, 26); it was then flayed, and was ready either for roasting (צָלָה) or boiling (בָּשַׁל); in the former case the animal was preserved entire (Exod. xii, 46), and roasted either over a fire (Exod. xii, 8) of wood (Isa. xliv, 16), or perhaps, as the mention of fire implies another method, in an oven, consisting simply of a hole dug in the earth, well heated, and covered up (Burckhardt, *Notes on Bedouins*, i, 240). The Paschal lamb was roasted by the first of these methods (Exod. xii, 8, 9; 2 Chron. xxxv, 13). Boiling, however, was the more usual method of cooking, both in the case of sacrifices, other than the Paschal lamb (Lev. viii, 31), and for domestic purposes (Exod. xvi, 23), so much so that בָּשַׁל, *bashal'*, *to cook*, generally included even *roasting* (Deut. xvi, 7). In this case the animal was cut up, the right shoulder being first taken off (hence the priest's joint, Lev. vii, 32), and the other joints in succession; the flesh was separated from the bones and minced, and the bones themselves were broken up (Micah iii, 3); the whole mass was then thrown into a caldron (Ezek. xxiv, 4, 5) filled with water (Exod. xii, 9), or, as we may infer from Exod. xxiii, 19, occasionally with milk, as is still usual among the Arabs (Burckhardt, *Notes*, i, 63), the prohibition 'not to seethe a kid in his mother's milk' having reference apparently to some heathen practice connected with the offering of the first-fruits (Exod. l. c.; xxxiv, 26), which rendered the kid so prepared unclean food (Deut. xiv, 21). No cooking was allowed the Jews on the Sabbath (Exod. xxxv, 3). See FIRE. The materials for making coals were grass and cow-dung. See FUEL. The caldron was boiled over a wood fire (Ezek. xxiv, 10); the scum which rose to the surface was from time to time removed, otherwise the meat would turn out loathsome (6); salt or spices were thrown in to season it (10); and when sufficiently boiled, the meat and the broth (מָרָק; Sept. ζωμός; Vulg. *jus*) were served up separately (Judg. vi, 19), the broth being used with unleavened bread, and butter (Gen. xviii, 8) as a sauce for dipping morsels of bread into (Burckhardt, *Notes*, i, 63). Sometimes the meat was so highly spiced that its flavor could hardly be distinguished: such dishes were called מְטֻעָמִים, *matammim'* (Gen. xxvii, 4; Prov. xxiii, 3). There is a striking similarity in the culinary operations of the Hebrews and Egyptians (Wilkinson's *Anc. Egypt.* ii, 374 sq.). Vegetables were usually boiled, and served up as pottage (Gen. xxv, 29; 2 Kings iv, 38). Fish was also cooked (Luke xxiv, 42), probably broiled. The cooking was in early times performed by the mistress of the household (Gen. xviii, 6); professional cooks were afterwards employed (1 Sam. viii, 13; ix, 23). The utensils required were: כִּירַיִם, *kira'yim* (Sept. χυτρόποδες; Vulg. *chytropodes*), a cooking range, having places for two or more pots, probably of earthenware (Lev. xi, 35); כִּיּוֹר, *kiyor'* (λέβης, *lebes*), a caldron (1 Sam. ii, 14); מַזְלֵג, *mazleg'* (κρεάγρα; *fuscinula*), a large fork or flesh-hook; סִיר (λέβης; *olla*), a wide, open metal vessel, resembling a fish-kettle, adapted to be used as a wash-pot (Psa. lx, 8) or to eat from (Exod. xvi, 3); פָּרוּר, *parur'*; דּוּד, *dud*; קַלַּחַת, *kallach'ath*, pots probably of earthenware and high, but how differing from each other does not appear; and, lastly, צַלַּחַת, *tsallach'ath*, or צְלוֹחִית, *tselochith'*, dishes (2 Kings ii, 20; xxi, 13; Prov. xix, 24; A. V. 'bosom')."—Smith, s. v. The רִצְפָּה, *re'tseph* (fem. רִצָּף), was, according to Gesenius, a *hot stone*, used for baking on; or, as Winer thinks (in Simonis *Lex.* p. 926), for cooking milk or broth, by throwing it into the vessel; but

Fûrst regards it as simply meaning live *embers*. See VICTUALS.

Royal Kitchen of the Ancient Assyrians.

Cook, Charles, D.D., one of the founders of French Methodism, was born in London, May 31, 1787. Skeptical in youth, he was converted at twenty-one, chiefly under the instruction of the Rev. Jacob Stanley. After spending a few years as tutor in a seminary, he entered the ministry of the Wesleyan Methodist Church in 1817. In 1818 he was sent to France, and commenced his ministry at Caen, in Normandy. He soon acquired a good French style, both in writing and speaking, and became eminently popular and useful as an evangelist. The Sunday-school Society and Bible Society were originated chiefly through the impulse given by him. In numerous evangelical journeys, especially in the south of France, he preached in the Reformed churches with great acceptance, and revivals of religion followed his labors. His administrative talent was very great. Merle d'Aubigné, in a letter to M. Gallienne, president of the French Conference, says that Cook "was to France, Switzerland, and Sardinia what Wesley was in his day to England." He died Feb. 21, 1858.—J. P. Cook, *Vie de Charles Cook* (Paris, 1862); Stevens, *History of Methodism*.

Cook, Russell S., an American Congregational clergyman, was born in New Marlborough, Mass., March 6, 1811. After being for a short time in a lawyer's office, he studied theology at the Theological Seminary at Auburn. In 1836 he was ordained pastor of the Congregational church in Lanesboro, Mass. In 1839 he was elected secretary of the American Tract Society, in which office he remained until 1856, when failing health obliged him to retire. He was a regular contributor to the *American Messenger*, the monthly organ of the society; and to his labor the development of the colportage system was greatly due. After a visit to Europe in 1856, he in 1857 became the secretary of the Sabbath Committee in New York, and in 1863 he added to his work on this committee several weeks of exhausting labor in organizing and energizing the Christian Commission in New York. He died at Pleasant Valley, near Poughkeepsie, N. Y., Sept. 4, 1864.—See *Annual American Cyclop. for* 1864, p. 354.

Cook, Valentine, a Methodist Episcopal minister. He was born in Pennsylvania (date wanting), of pious and cultivated parents; removed early to Western Virginia; was converted in youth; entered Cokesbury College while a boy, where he was one of the four boys placed on the charity foundation, and, after a partial course in 1787, entered the itinerant ministry in 1788. In 1794–7 he was presiding elder on Philadelphia and Pittsburg districts; and in 1798, missionary to Kentucky. In 1799 he took charge of Bethel Seminary, the second Methodist literary institution in America; afterwards was some time principal of Harrodsburg Academy, and finally removed to a farm near Russelville, Logan Co., Ky., where he resided until his death. In his youth he was very studious and serious, and became in subsequent life a good classical scholar. He had great reputation as an eloquent and effective minister. Many were converted by his preaching, and his influence was widely extended.—Stevenson, *Life of Cook* (Nashville, 1856, 12mo); *Methodist Quart. Rev.* April, 1859, p. 183; Geo. Peck, D.D., *Early Methodism* (N. Y. 1860, 12mo, p. 71, 72, 86); Sprague, *Annals*, vii, 151; Summers, *Biograph. Sketches*, p. 183.

Cooke, PARSONS, D.D., an American Congregational minister, was born in Hadley, Mass., in 1800. He was educated at Williams College, where he graduated in 1821. In 1826 he was ordained as pastor of the Congregational church in Ware, Mass. After continuing in this pastorate for ten or eleven years, he became pastor of the First Congregational church in Lynn, Mass., with which he remained until his death, a period of twenty-eight years. While pastor at Lynn he established the "New England Puritan," which, after some time, was united with the "Recorder," under the name of the "Puritan Recorder," which name was later changed to that of the "Boston Recorder," of which Mr. Cooke became, and remained until his death, the senior editor. In 1829 he published a sermon on *The Exclusiveness of Unitarianism*, and afterwards several other controversial writings. He died at Lynn, Feb. 12, 1864.—See *Annual American Cyclop. for* 1864, p. 355.

Cookman, GEORGE G., one of the most distinguished orators of the American pulpit, was born in 1800, at Hull, England. His father, a man of wealth and position, was a Wesleyan local preacher, and gave his children a thorough religious training and a careful academical education. In early youth Cookman gave promise of his powers in oratory by speeches at Sunday-school anniversaries, etc., which excited extraordinary interest. When about twenty-one years old he visited America on business for his father, and while at Schenectady, N. Y., he began his labors as a local preacher. In 1821 he returned to Hull, and entered into business with his father, exercising his talents meanwhile zealously in the Wesleyan local ministry. He continued in his father's firm during four years, but with a restless spirit; and finally, deciding to enter the ministry in America, he took passage for Philadelphia in 1825. After laboring a few months in that city as a local preacher, he was received into the Philadelphia Conference in 1826. He continued in the itinerant ranks, without intermission, the remainder of his life, laboring with indomitable energy, and constantly increasing ability and success, in various parts of Pennsylvania, New Jersey, Maryland, and the District of Columbia.

Mr. Cookman was slight, but sinewy in person, and capable of great endurance. His arms were long, which gave a striking peculiarity to his gestures. In the act of public speaking, every nerve and muscle of his lithe frame seemed instinct with the excitement of his subject. In 1838–39 he was chaplain to the American Congress, and the Hall of Representatives at Washington never echoed more eloquent tones than during his chaplaincy to Congress. Several of his distinguished hearers, both in Congress and the executive department of the government, were awakened to a personal interest in religion by his powerful appeals. Imagination was Mr. Cookman's dominant mental faculty. It can hardly be doubted that, had he devoted himself to the production of some work in this rare and difficult department of literature, he might have become a worthy disciple of the glorious old dreamer of Bedford Jail. On the 11th of March, 1841, he embarked in the ill-fated steamer President

for a visit to England, and was never heard of more. Few of his sermons and speeches have been published. A small volume of *Speeches* (N. Y. 1841, 18mo) contains those referred to above and some others. It is to be hoped that a suitable memoir of this distinguished man will yet be given to the world.—*National Magazine*, Aug. 1855; *Methodist Quart. Review*, July, 1852; Sprague, *Annals*, vii, 711.

Cooper, Ezekiel, an early and celebrated Methodist preacher, born in Caroline County, Md., Feb. 22, 1763. He joined the Conference in 1785; labored from Boston to Baltimore as a travelling preacher for many years, and was editor and general agent of the Book Concern from 1799 to 1804. His abilities for this office were soon shown to be of the highest order. He gave to the "Book Concern" an impulse and organization which has rendered it the largest publishing establishment in the New World. After managing its interests with admirable success for six years, during which its capital stock had risen from almost nothing to forty-five thousand dollars, he resumed his itinerant labors, and continued them in Brooklyn, New York city, Wilmington, Del., Baltimore, etc., for eight years, when he located. He remained in the latter relation during eight years, when he re-entered the travelling ministry, but was soon afterwards placed on the supernumerary list in the Philadelphia Conference. He continued, however, for many years to perform extensive service, visiting the churches, and part of the time superintending a district. During the latter years of his life he resided in Philadelphia, where he died in 1847. He was distinguished for pulpit eloquence, logical ability, and especially for his multifarious knowledge, which obtained for him among his brethren the title of "the Walking Encyclopædia." He published a "Funeral Sermon" on Rev. John Dickens, and "the Substance of a Funeral Discourse on Rev. Francis Asbury," etc., Philad. 1819. The latter was a 32mo volume of 230 pages (Stevens, *Hist. of Meth. Epis. Church*, vol. iii; Sprague, *Annals*, vii, 108; *Minutes of Conferences*, iv, 104).

Cooper, Samuel, D.D., a Congregational minister, was born in Boston, March 28, 1725. He graduated at Harvard in 1743, and was chosen collegiate pastor with Dr. Colman in the Brattle-street Church, Dec. 31, 1744. He was ordained pastor May 21, 1746, and died Dec. 23, 1783. He was made D.D. by the University of Edinburgh in 1767. Dr. Cooper published a few occasional sermons, and wrote contributions for the Boston *Gazette and Independent Ledger*. He was elected president of Harvard in 1774, but did not accept.—Sprague, *Annals*, i, 440.

Cooper, Samuel C., a Methodist Episcopal minister, was born in Baltimore 1799, converted in Ohio 1818, acted efficiently as exhorter and local preacher for some years, and entered the itinerancy in 1827. He died at Greencastle, Ind., July, 1856. He filled the positions of pastor, presiding elder, and agent for the Asbury University with excellent success. He was twice delegate to the General Conference, and his attendance at the Conference of 1856 was his last service to the Church.—*Minutes of Conferences*, vi, 134.

Cooper, Thomas, a Methodist Episcopal minister, was born at Maidstone, Eng., in 1819; emigrated to America while young; was converted at Mount Vernon, Ohio, while a boy; studied with success at the Norwalk seminary under Dr. Thomson, and entered the itinerancy in 1842. As an agent of the Ohio Wesleyan University, a seamen's missionary, and in the regular pastoral work, he was very able and useful, until his sudden death by cholera, July, 1849.—Thomson, *Biographical Sketches*, p. 191.

Cooper, William, a Congregational minister, was a native of Boston, born in 1694, and graduated at Harvard 1712. He commenced preaching in 1715, and was ordained collegiate pastor of the Brattle-street Church, May 23, 1716. He was elected president of Harvard in 1737, but declined the honor. He died Dec. 12, 1743. Mr. Cooper published *A Tract defending Inoculation for the Small-pox* (1721); *The Doctrine of Predestination unto Life vindicated in four Sermons* (1740); and several occasional discourses.—Sprague, *Annals*, i, 288.

Co'ös [or rather Cos, as it is usually written] (Κῶς, contracted for Κόως, Anglicized "Coos" only in Acts xxi, 1), a small island (about 80 stadia in circumference, Strabo x, 488), one of the Sporades, in the Ægæan Sea, near the coast of Caria in Asia Minor, and almost between the promontories on which the cities Cnidus and Halicarnassus were situated (Plin. v, 36). Its more ancient names were *Cea*, *Staphylus*, *Nymphæa*, and *Meropis*, of which the last was the most common (Thucyd. viii, 41). Homer mentions it as a populous settlement (*Il.* ii, 184; xiv, 255), no doubt of Dorian origin. Its fertility is attested by its celebrity for wine (Plin. xv, 18; xvii, 30), its costly ointments (Athen. xv, 688), and its fabrics of a transparent texture (Horace, *Od.* iv, 13, 7; Tibull. ii, 4, 6). It was the birthplace of Hippocrates. "It is specified, in the edict which resulted from the communications of Simon Maccabæus with Rome, as one of the places which contained Jewish residents (1 Macc. xv, 23). Josephus, quoting Strabo, mentions that the Jews had a great amount of treasure stored there during the Mithridatic war (*Ant.* xiv, 7, 2). From the same source we learn that Julius Cæsar issued an edict in favor of the Jews of Cos (*ib.* 10, 15). Herod the Great conferred many favors on the island (Joseph. *War*, i, 21, 11); and an inscription in Böckh (No. 2502) associates it with Herod the Tetrarch. The apostle Paul, on the return from his third missionary journey, passed the night here, after sailing from Miletus. The next day he went on to Rhodes (Acts xxi, 1). The proximity of Cos to these two important places, and to Cnidus, and its position at the entrance to the Archipelago

Coins of Cos.

from the east, made it an island of considerable consequence. It was celebrated also for a temple of Æsculapius, to which a school of physicians was attached, and which was virtually, from its votive models, a museum of anatomy and pathology. The emperor Claudius bestowed upon Cos the privileges of a free state (Tac. *Ann.* xii, 61). The chief town (of the same name) was on the N.E., near a promontory called Scandarium, and perhaps it is to the town that reference is made in the Acts (l. c.)" (Smith). It is now called *Stanco* or *Stanchio* (a corruption of ἐς τὴν Κῶ), and presents to the view fine plantations of lemon-trees, intermixed with stately maples. Its population is about eight thousand, who mostly profess the Greek religion (Turner's *Tour in the Levant*, iii, 41). "There is a monograph on Cos by Küster (*De Co Insula*, Halle, 1833), and a very useful paper on the subject by Col. Leake (in the *Trans. of the Royal Soc. of Literature*, vol. i, second series). An account of the island will be found in Clarke's *Travels* (vol. ii, pt. i, p. 193-213,

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()*' 65-**' 8 ,)',)*7 4-**9');->)' 2' ;. 25',-2*' ??*-. 12'620' 6/.1' 2',)*' 01>,-2*' 620' 60?2.,-6, 12' 1',)*' 1-0 .' ;==*-% 12 *.. 12' 6?125',)*?' .'-6-*'620' .'5*2^ *-6// ' 1//18*0' D ' ;2>, 12% $2>, 12' 2' 5*2*-6/ .' ;.*0'6?125',)*?'+*-'*L,*2. +*/ ' 2',)*'>6.*'1'. >9C 2*..'620' .'60?2.,*-*0'21,'12/ ',1',)*' .>9'D;,'6/.1' *//'1;,'8 ,)',)*'>1;-,'1' 12.,62, 21=/*' ()*' <121C ',1',)*' D C.,620*-.'620',1',)*' 0*60% ()*' 2+19*' 7/ *.6 2,.'=-6 ' 1-',)*' 0*60'620'+*2*-6,*' ?65*.'620'-*/^ >.'D;,',)*' -*A*>,'6//.>;/=,;-*0'-*=-*.*2,6, 12.' *L^ >*=,',)*' >-1..% ()*-' 6..,'6-*' /125' -*_;*2,'620' ')-.,62.'620'56+*',1',)*-' 1==12*2,.',)*'2>9^ 26?*' " $' % *% ?=*-6/)-.,62.'M -1?' <*/*9' 9 25T .** *620*-' "!' # !' +1/% X%

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so many beads being used for the purpose. This service may be gone through while a person is walking, or riding, or pursuing any ordinary employment.

IV. *Present Condition and Ecclesiastical Statistics.*—In some parts of Upper Egypt there are still villages exclusively inhabited by Copts, and in every village of moderate size is a moallim (a title given to all Copts except those of the poor class or peasants), who keeps the register of the taxes. Most of the Copts in Cairo are employed as secretaries and accountants or tradesmen. They are the chief employés in the government offices; and as merchants, goldsmiths, silversmiths, jewellers, architects, builders, and carpenters, they are generally considered more skilful than the Moslems. In the villages they are employed in agriculture, like the rest of the peasantry. Petty causes among them are judged of by their clergy and the patriarch, but appeal may be made to the cadi. They bear a hatred to other Christian denominations, and are not permitted by their Church to intermarry with them. The clergy, on the whole, are poor and ignorant. At the head of the clergy stands the patriarch of Alexandria, who resides, however, in Cairo. His jurisdiction extends also over Nubia and Abyssinia, for which latter country he has the right of consecrating the *abuna* (q. v.). He himself is always chosen from among the monks of the convents of St. Macarius, in the desert of Scete. It is customary for the patriarch elect to decline the dignity, and only to yield to apparent force. Besides the patriarch, there are four metropolitans (Cairo, Lower Egypt, Codus, Mounoufia) and eleven bishops. They are appointed by the patriarch, and generally chosen among laymen who are widowers. Their income consists of tithes, which they collect for themselves and for the patriarch. The priests are generally simple mechanics, and, although they are at liberty to marry, they live mostly in celibacy. The number of churches and convents is said to amount to about 150. A few years ago Tattam and Curzon discovered in some of these convents a number of the most valuable manuscripts. The population is estimated from 150,000 to 250,000, of whom about 10,000 reside in Cairo. The number of Copts who have acknowledged the authority of the pope (United Copts since 1732) is about 10,000. In 1855 the pope appointed one of their priests vicar apostolic and bishop *in partibus*.—Makrizii *Historia Coptorum Christianorum in Ægypto, Arab. et in linguam Lat. translata*, ab H. J. Wetzer (Solisbaci, 1828); Schaff, *History of the Christian Church*, § 145; Stanley, *Eastern Church*, Lect. i; *Churchman's Calendar for* 1867, p. 163; *Evangelical Repository*, July, 1867.

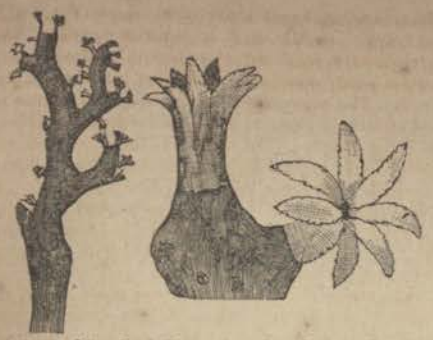
Cor (כֹּר, *kor*, properly a *round* vessel; Gr. κόρος), a measure both for liquids and solids, containing ten ephahs or baths (Ezek. xlv, 14), and equal to the *homer* (q. v.). In 1 Kings iv, 22; v, 11; 2 Chron. ii, 10; xxvii, 5; Luke xvi, 7, it is rendered indefinitely "measure" (q. v.); but in 1 Esdr. viii, 20, it is correctly Anglicized. See METROLOGY.

Corăcin (κορακῖνος, a Latinized form for κορακινῆς, from κόραξ, *a raven*), a kind of fish (so called probably from its *black* color), found, according to Josephus (*War*, iii, 10, 8), in the spring of Capernaum (q. v.) and in the Nile (Theophylact, *Hist.* vii, 17; Oribasius, *Medic. Collect.* ii, 58); accustomed to leap like the salmon (Pliny, xxxii, 5, 10), and called likewise the *saperda* (Athenæus, vii, 16) and other names (Stevens, *Thes. Gr.* s. v.; Reland, *Pal est.* p. 274).

Coral is usually understood to be denoted by the word רָאמוֹת (*ramoth'*, literally *heights*, i. e. *high-priced* or valuable things, or from its *upright* growth; Sept. μετέωρα, but in Ezek. Ῥᾶμοθ), in Job xxviii, 18; Ezek. xxvii, 16; and this interpretation is not unsuitable (comp. Niebuhr, *Beschr.* p. 41), although the etymology is not well made out (Pareau, *De immortalitatis notitiâ Job* [Daventr. 1808], p. 321 sq.), and the dialects afford little support. According to the Rabbins, it means *red corals*. The ancient translators were evidently much perplexed to determine whether the word פְּנִינִים (*peninim'*, literally *branches*; rendered "rubies," Job xxviii, 18; Prov. iii, 15; viii, 11; xx, 15; xxxi, 10; Lam. iv, 7) meant corals or pearls. This will always be doubtful; but the text in Lam. iv, 7, by describing the article as *red*, suggests a preference of the former. It is scarcely credible, indeed, that such a product should have circulated under two different names (if *ramoth* also means coral); but surely there is no difficulty in conceiving that one word may have denoted *coral* generally, while another may have distinguished that *red coral* which was the most esteemed, and the most in use for ornament (see Gesenius, *Thes. Heb.* p. 1113, 1249).

Branch of Coral.

Coral is a hard, cretaceous marine production, arising from the deposit of calcareous matter by a minute polypous animal, in order to form the cell or polypidom into whose hollows the tenant can wholly or partially retire. The corals thus produced are of various shapes, most usually branched like a tree. The masses are often enormous in the tropical seas, where they top the reefs and cap the submarine mountains, frequently rising to or near the surface, so as to form what are called coral islands and coral reefs (see Kitto, *Pict. Bible*, on Job xxviii, 18). These abound in the Red Sea (Wellsted, *Trav.* ii, 181; Rüppel, *Abyssin.* i, 140), from which, most probably, was derived the coral with which the Hebrews were acquainted; but coral is also found in the Mediterranean. The coral brought by the merchants of Syria to Tyre must have come from the Indian seas, by the Euphrates and Damascus (comp. Plin. xxxii, 2). Coral was in higher esteem formerly as a precious substance than now, probably because the means of obtaining it in a fine state were not so efficacious as those now practised. It is of different colors—white, black, red. The red was anciently, as at present, the most valued, and was worked into various ornaments (Plin. xxxii, 11; comp. Hartmann, *Hebr.* i, 275 sq.). For the scientific classification of corals, see the *Penny Cyclopædia*, s. v. Polyparia.—Kitto, s. v. The red variety is the stony skeleton of a compound zoophyte, allied to the sea-anemones of our coasts. It forms a much-branching shrub, the beautiful scarlet stone constituting the solid axis, which is covered during life by a fleshy bark, out of which protrude here and there upon the surface



1. Stem of Coral. 2. Part enlarged to show the Zoophyte.

minute polypes with eight tentacles. It is found attached to the rocks at considerable depths, as from 20 to 120 fathoms. The demand for it has given rise to a fishery of some importance, about 180 boats being employed in it on the coast of Algeria, of which 156 fish in the neighborhood of Bona and Calla, obtaining 36,000 kilogrammes (about 720[illegible]) of coral; and this, selling at the rate of [illegible]s per kilogramme, produces a return of $[illegible]. The mode by which it is obtained is the s[illegible]s always prevailed, and is rude and w[illegible] great cross of wood loaded with stone[illegible]g at the end of each arm a sort of net [illegible] partly untwisted, is lowered from a [illegible]gged over the bottom. The branch[illegible]rals are entangled in this apparatus, and, as the boat moves on, are torn off; at intervals it is pulled up, and the produce secured. Of course a great deal must be broken off which is not secured, but yet it is a profitable employment. A boat manned by nine or ten hands has been known to bring in 80 or 100 kilogrammes in a day, yielding $100 or $125; but such success is rare. The fishery is prosecuted from the 1st of April to the end of September, during which there may be on the average about 100 days in which the fishermen can work (Milne Edwards, *Hist. des Corallines*).—Fairbairn, s. v. See GEM.

Cor'ban (κορβᾶν, for קָרְבָּן, *korban'*, an *offering*), a Hebrew word (occurring frequently in the original of the O. T., but only in Lev. and Numb., except in Ezek. xx, 28; xl, 43) employed in the Hellenistic Greek, just as the corresponding Greek word δῶρον was employed in the Rabbinical Hebrew (Buxtorf, *Lex. Rab.* col. 579) to designate an *oblation* of any kind to God, whether bloody or bloodless, but particularly in fulfilment of a vow (Jahn, *Bibl. Arch.* v, § 392, 394). It occurs only once in the New Testament (Mark vii, 11), where it is explained (as also by Josephus, *Ant.* iv, 4, 4; *contra Ap.* i, 22) by the word "gift." Money, lands, and houses, which had been made the subject of this vow, became the property of the tabernacle or the Temple, except that the land might be redeemed before the year of Jubilee (Lev. xxvii, 1-24). Among other false doctrines taught by the Pharisees, who were the keepers of the sacred treasury (κορβανᾶς, from *corban*, Matt. xxvii, 6), was this, that as soon as a person had pronounced to his father or mother this form of consecration or offering, "Be it (*or*, It is) *corban* [i. e. devoted] whatever of mine shall profit thee" (קָרְבָּן שֶׁאֲנִי נֶהֱנֶה לָךְ), he thereby consecrated all he had spoken of to God, and must not thenceforth do anything for his indigent parents if they solicited support from him. Therefore our Lord reproaches them with having destroyed by their tradition not only that commandment of the Law which enjoins children to honor their father and mother, but also another divine precept, which, under the severest penalty, forbade that kind of dishonor which consists in contumelious words (Mark vii, 9; x, 13). They, however, proceeded even further than this unnatural gloss; for though the son did not give, or even mean to give, his property to the Temple, yet, if he afterwards should repent of his rashness, and wish to supply his parents with anything, what he had formerly said precluded the possibility of doing so, for, according to the Pharisaic doctrine, the sacred treasury had a claim upon him in preference to his parents, although he was perfectly at liberty to keep it to himself (see Lightfoot, *Hor. Heb.*, and Grotius, *Annot.*, on Matt. xv, 5). The law laid down rules for vows, 1. affirmative; 2. negative. By the former, persons, animals, and property might be devoted to God, but, with certain limitations, they were redeemable by money payments. By the latter, persons interdicted themselves, or were interdicted by their parents, from the use of certain things lawful in themselves, as wine, either for a limited or an unlimited period (Lev. xxvii; Num. xxx; Judg. xiii, 7; Jer. xxxv; comp. Josephus, *Ant.* iv, 4, 4; *War*, ii, 15, 1; see Acts xviii, 18; xxi, 23, 24). See VOW. Upon these rules the traditionists enlarged, and laid down that a man might interdict himself by vow, not only from using for himself, but from giving to another, or receiving from him some particular object, whether of food or any other kind whatsoever. The thing thus interdicted was considered as *corban*, and the form of interdiction was virtually to this effect: "I forbid myself to touch or be concerned in any way with the thing forbidden, as if it were devoted by law," i. e. "let it be *corban*." (The exact formula, קוֹנָם שֶׁאֲנִי נֶהֱנֶה לָךְ, "[that] has been given [to God], which [in respect to] me is beneficial to thee," of which the Evangelist's ὃ ἐὰν ἐξ ἐμοῦ ὠφεληθῇς seems a strict rendering, is cited by Schöttgen, *Hor. Hebr.* i, 138, from the Mishna, *Nedarim*, fol. 24, 1.) So far did they carry the principle that they even held as binding the incomplete exclamations of anger, and called them יָדוֹת, *handles*. A person might thus exempt himself from assisting or receiving assistance from some particular person or persons, as parents in distress; and, in short, from any inconvenient obligation under plea of *corban*, though by a legal fiction he was allowed to suspend the restriction in certain cases (Surenhusius, *Mischna, de Votis*, i, 4; ii, 2). It was with practices of this sort that our Lord found fault (Matt. xv, 5; Mark vii, 11), as annulling the spirit of the law. See OFFERING.

Theophrastus, quoted by Josephus (*Ap.* i, 22), notices the system, miscalling it a Phœnician custom, but in naming the word *corban* identifies it with Judaism. Josephus (*War*, ii, 9, 4) calls the treasury in which offerings for the Temple or its services were deposited, κορβανᾶς, *corbanas;* and Matthew (xxvii, 6) uses the same word to signify the treasury, saying that the chief priests did not think it lawful to put the money of Judas into it (εἰς τὸν κορβανᾶν) (Bingham, *Orig. Eccl.* v, 4, 2). Origen's account of the *corban* system is that children sometimes refused assistance to parents on the ground that they had already contributed to the poor fund, from which they alleged their parents might be relieved. In the early Church, oblations were presented monthly, and they were always voluntarily placed in the treasury. Baronius thinks this treasury was called *corban*, because Cyprian uses the word when he speaks of the offerings of the people, rebuking a rich matron for coming to celebrate the Eucharist without any regard to the *corban*. See ALMS.

Cor'bè (Χορβέ, Vulg. *Chorba*), one of the captive Jews whose "sons" (to the number of 705) are stated to have returned from Babylon (1 Esdr. v, 12); apparently the ZACCAI (q. v.) of the Hebrew lists (Ezra ii, 9; Neh. vii, 14).

Corbel (Fr. *corbeille*, a basket), in Gothic architecture a projecting stone or timber to bear the superincumbent weight, usually of some architectural member of the structure, as the ribs or groins of an arch.

4-*6,' +6- *, ' .' ; .*0' 2' 1-26?*2, 25' ,)*' >1-D*/' ,' -*=-*.*2, 25' .1?*, ?*.' 62' 62 ?6/'6') ; ?62' D* 25 ' 6' =/62, '1-'6' 5-1 ;=' 1 '?1 ;/0 25.% **(X1= 4

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K% ' < % 0* *>, +*' 2',) *' -.,' */*+*2' >)6=,*-.' 1 ' < 6,,) * 8% ,.' -*60 25.' 6-*' >,*0' 2',) *' ,)-**' 1,) *-' 41.=*/.' D ' /62>) 2 ' 620',)-1 ;5) 1 ;' D ' 6D6, *-% ()*.*' ,*L,.' M 8) >)' 6-*' 0*. 526,*0' -*.=*>, +*/ ' 6.' 7 620' I' 1 ',)*' 41.=*/.X 6-*' ? L*0T ,)*' 1>>6. 12^ 6// '=-*.*-+*' 5110'-*60 25. 'D ; ,',)*-*' .' ?,>)' 1 >1; .' -*+ . 12' M.*>' >- +*2*-' ' '7!' -!=% K X% **' $ / ' 8 !

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1-0',)*' -*20*- 25' 2',)*' ;,)% *-% 1 ',)*' 1/^ /18 25' : *D% 81-0.d M %X' ;.;6// ' + ('MD ;,'21,' / ,2X'6' % '\.**' $;'T MK%X' (+ 1'6' ' M '8 ,)* J'B ;05 'L+ ' Q 'RT' ,*2,C-1=*' *L>*//*2> J' B1D' +' K T' D18C '.,- 25 J' .6% L 'KT')6/,*-C >1-0 J' B1D' d d d ' 7T' MN%X' " E'6' 'M*% 5%,*2,C -1=*' L10% ddd ' QT' LLL L ' T' ;?%' 'KS' N T' +' KS' NKT' .6%$+' KT' B*-%L K T' /P18C .,- 25 J' .6% LL ' KXT' M %X' " "W 6' 'M*% 5% 8-*6,)^ *0J' 81-9' L10% LL+ ' '*,>%T 'D620 J'B1D' L9L L ' T' [*9% 'KST' +' QT' : 1.% L ' T' '-1=* J'B ;05% L+ ' N' T' .6% ' NT' I>L+ ' K T' >LL L ' XT' M %X' & ' " 'M >>/% +' K' 6' 4*2% L +' KNT' B1.) ' QT' B ;0 -% L+ ' KT' 62,' +' NT' / 2* J' ' 25.' +; ' N T' //*, J'B*-% 'K X% ()*' -.,'1 ',)*.*' ,*-?.' .' ,)*' ?1.,'>1?=-*)*2. +*' D* 25' -1?',)*' -11,'

')*2>*' /5/% f () .' 81-0' 1>>;-.' 1 ,*2' 2' ,.' =-1=*-'.*2.*' 6.' 8*//6.' 2',)*' .=*> 6/ ?*62 25.' 1 = ' M)*2>*' 6/.1' 11' 'M .6% >L/' X' 620' f 2' < >% ' ' ,'. 52 *.' =1-, 12J' M6.' ,' .' -* _;*2,/ ' -*20*-*0' */.*8)*-*XT' 620',)*' =)-6.*' >6.,'6' >1-0J' 0*21,*.' 6' >)625*' 1 ' 2)*- ,62>*' 6.' 2' +*-% % ()*' .6?*' 81-0')6.',)*' ,.*>1206- ' .*2.*' 1 '6' " ' 1 '?*2' M ' 6?% L ' X' 620' 'M< >% X% **> / f ' 2',)*' % ' ,*-?' ' 6==/ *0',1',)*' 8) =' 8) >)' 1 ;-' 6+ 1 ;-' ?60*' MB1) 2' ' B X' 620',1',)*' I-1=*.I' 1 '6' .) =' M >,.' LL+ ' NKX% /^ 1-0' ;20*-.,620.' ,' 2',)*' 1-?*-'=6..65*' 1 ',)*-';.)*.' 12' 8) >)',)*' >6,,/*' 8*-*' / ,,*-*0T D ;,',)*' 8'M 2') .' N '& 4 ' 1'*,>%% 6-% SR X' 620' 8) >)' .' -*=*6,*0' D ' /62>) 2' M 2') .' 6 ' 1' -6= *-X% 6D6, *-'5+*.I' ,.' +6- 1 ;.' -*60 25. 'D ;',.**?.' ,1' >12 1 ;20' ,' 8 ,)',)*' 1//18 25% K% ' < % 0* *>, +*' 2',)*' -.,' */*+*2' >)6=,*-.' 1 ' < 6,,) * 8% ,.' -*60 25.' 6-*' >,*0' 2',)*' ,)-**' 1,) *-' 41.=*/.' D ' /62>) 2' 620',)-1;5) 1 ;' D ' 6D6, *-% ()*.*' ,*L,.' M 8) >)' 6-*' 0*. 526,*0' -*.=*>, +*/ ' 6.' 7 620' I' 1 ',)*' 41.=*/.X 6-*' ? L*0T ,)*' 1>>6. 12^ 6// '=-*.*-+*' 5110'-*60 25. 'D ;',.)*-*' .' ?,>)' 1 >1;.' -*+ . 12' M.*>' >- +*2*-' ' '7!' -!=% K X% **' $ / ' 8 !

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1-D *C.,*=. ',)*' .,*=.' ;=',)*' 56D/*' 1 '6')1 ; .*1 1 ,*2' ;.*0'8 ,)' +*- '=>,;-*._;*' * *>,'D ;' ?1-*>?1?' ?12' 2'01?*., >',)62' 2' *>>/*. 6., >6/'6->) ,*>,;-*%

1-D 2 62 ' . ' D1-2' 6,')6-,-*.' 2' SQ ' 86.' 1-' 1;-,**2' *6-.' 6')*-? ' 620',)*2' 8*2',,1' 1-2*' 8)*-*' ,)*' =1=*' 4-*51- ' ' >12.*>-6,*0') ?' D .)1=% : *' -*,;-2*0',1') .' .1/ ,;0*' 620' 6 ,*-86 0.' ,-6+*//*0' 6/125',)*' 62;D*' 620',)*' .6-',1'=-*6>)% ;9*' ()*C 101' ' 1 ' 6+6- 6' 6==1 2,*0') ?' -.,' D .)1=' 1 ' -* .^ 25% :*' 0 *0' 2' N '620' .' >1? ?*?1-6,*0' 6.' 6' .6 2,' 12' *=,'Q% ' *-*-' 2 2 + '.% + %T ;,/*-' " ' '$ 1' *=,% Q%

1-D ,' ? ' %' 6' ? 2 .,*-' 1 ',)*' <*,)10 .,' = .>1=6/');->)' 86.' D1-2' 2') /60*/=) 6' *D% S' Q ' 620' *2,*-*0',)*' , 2*-62> ' 2' ,)*' *8' B*-.* ' 12 *-*2>*' 2' Q % : *' 0 *0' 6,' 1-0*2,182' % B% ' =-/ Q S% <-% 1-D ,.' ? 2 .,- ' 2/)*' ?1.,' ?^ =1-,62,'.,6, 12.'1 ') .' 12 *-*2>*' 86.' *? 2*2,/ ' ,>^ >*.. ;/% ' .;D/ ? , '>6;5),' -1?'/125'>12+*-.*8 ,)' ,)*' D/*' 620',)*')- ., 62' =1*,.' -62',)-1;5)'6//') ,)1;5),.% : *' 86.' 6>>1?=/ .)*0' */1_;*2,' 620'/6D1^ - 1;.' 620' 56+*' ;// =-11 '1 ') .' ? 2 .,- %J ' ' 1'+ 'KR%

1-0',)*' -*20*- 25' 2',)*' ;,)% *-% 1 ',)*' 1/^ /18 25' : *D% 81-0.d M %X' ;.;6// ' + ('MD ;,'21,' / ,2X'6' % '\.**' $;'T MK%X' (+ 1'6' ' M '8 ,)* J'B ;05 'L+ ' Q 'RT' ,*2,C-1=*' *L>*//*2> J' B1D' +' K T' D18C '.,- 25 J' .6% L 'KT')6/,*-C >1-0 J' B1D' d d d ' 7T' MN%X' " E'6' 'M*% 5%,*2,C -1=*' L10% ddd ' QT' LLL L ' T' ;?%' 'KS' N T' +' KS' NKT' .6%$+' KT' B*-%L K T' /P18C .,- 25 J' .6% LL ' KXT' M %X' " "W 6' 'M*% 5% 8-*6,)^ *0J' 81-9' L10% LL+ ' '*,>%T 'D620 J'B1D' L9L L ' T' [*9% 'KST' +' QT' : 1.% L ' T' '-1=* J'B ;05% L+ ' N' T' .6% ' NT' I>L+ ' K T' >LL L ' XT' M %X' & ' " 'M >>/% +' K' 6' 4*2% L +' KNT' B1.) ' QT' B ;0 -% L+ ' KT' 62,' +' NT' / 2* J' ' 25.' +; ' N T' //*, J'B*-% 'K X% ()*' -.,'1 ',)*.*' ,*-?.' .' ,)*' ?1.,'>1?=-*)*2. +*' D* 25' -1?',)*' -11,'

')*2>*' /5/% f () .' 81-0' 1>>;-.' 1 ,*2' 2' ,.' =-1=*-'.*2.*' 6.' 8*//6.' 2',)*' .=*> 6/ ?*62 25.' 1 = ' M)*2>*' 6/.1' 11' 'M .6% >L/' X' 620' f 2' < >% ' ' ,'. 52 *.' =1-, 12J' M6.' ,' .' -* _;*2,/ ' -*20*-*0' */.*8)*-*XT' 620',)*' =)-6.*' >6.,'6' >1-0J' 0*21,*.' 6' >)625*' 1 ' 2)*- ,62>*' 6.' 2' +*-% % ()*' .6?*' 81-0')6.',)*' ,.*>1206- ' .*2.*' 1 '6' " ' 1 '?*2' M ' 6?% L ' X' 620' 'M< >% X% **> / f ' 2',)*' % ' ,*-?' ' 6==/ *0',1',)*' 8) =' 8) >)' 1 ;-' 6+ 1 ;-' ?60*' MB1) 2' ' B X' 620',1',)*' I-1=*.I' 1 '6' .) =' M >,.' LL+ ' NKX% /^ 1-0' ;20*-.,620.' ,' 2',)*' 1-?*-'=6..65*' 1 ',)*-';.)*.' 12' 8) >)',)*' >6,,/*' 8*-*' / ,,*-*0T D ;,',)*' 8'M 2') .' N '& 4 ' 1'*,>%% 6-% SR X' 620' 8) >)' .' -*=*6,*0' D ' /62>) 2' M 2') .' 6 ' 1' -6= *-X% 6D6, *-'5+*.I' ,.' +6- 1 ;.' -*60 25. 'D ;',.**?.' ,1' >12 1 ;20' ,' 8 ,)',)*' 1//18 25% K% ' < % 0* *>, +*' 2',)*' -.,' */*+*2' >)6=,*-.' 1 ' < 6,,) * 8% ,.' -*60 25.' 6-*' >,*0' 2',)*' ,)-**' 1,) *-' 41.=*/.' D ' /62>) 2' 620',)-1;5) 1 ;' D ' 6D6, *-% ()*.*' ,*L,.' M 8) >)' 6-*' 0*. 526,*0' -*.=*>, +*/ ' 6.' 7 620' I' 1 ',)*' 41.=*/.X 6-*' ? L*0T ,)*' 1>>6. 12^ 6// '=-*.*-+*' 5110'-*60 25. 'D ;',.)*-*' .' ?,>)' 1 >1;.' -*+ . 12' M.*>' >- +*2*-' ' '7!' -!=% K X% **' $ / ' 8 !

1-D *' > * '& 4 ' 6/.1' >6//*0' & ' 620' ? 8' 6' *2*0 >, 2*' ?126.,*- ' 2' >6-0 ' -62>*' D ; /,' 2' S ' D ' ,% 6,D /0 . ' 8 *' 1 '9 25' /1+ .' ' 620' ?1,)*-' 1 ' /1,6 -*' % ()*' -.,' ?129.' 2' 1-^ D *' 8*-*' 25/1C 6L12.' -1?' ;L*; /',)*' ?126.,*-A7 1 ' ,% 1/; ?D62% 1-D *' -*?6 2*0' 12*' 1 ',)*' ?1.,' =-1? 2*2,' ?126.,*- *.' 1 ',)*' *2*0 >, 2*' 1-0*-% 2' 1 .)11,'1 ' 1-D *' 86.' ,)*' 4*-?62' ?126.,*- ' 6,' 1- " +> 'M_% %' & *,[*-' ;% & */,. ') "!= !' 'Q K%

1-D *C.,*=. ',)*' .,*=.' ;=',)*' 56D/*' 1 '6')1 ; .*1 1 ,*2' ;.*0'8 ,)' +*- '=>,;-*._;*' * *>,'D ;' ?1-*>?1?' ?12' 2'01?*., >',)62' 2' *>>/*. 6., >6/'6->) ,*>,;-*%

1-D 2 62 ' . ' D1-2' 6,')6-,-*.' 2' SQ ' 86.' 1-' 1;-,**2' *6-.' 6')*-? ' 620',)*2' 8*2',,1' 1-2*' 8)*-*' ,)*' =1=*' 4-*51- ' ' >12.*>-6,*0') ?' D .)1=% : *' -*,;-2*0',1') .' .1/ ,;0*' 620' 6 ,*-86 0.' ,-6+*//*0' 6/125',)*' 62;D*' 620',)*' .6-',1'=-*6>)% ;9*' ()*C 101' ' 1 ' 6+6- 6' 6==1 2,*0') ?' -.,' D .)1=' 1 ' -* .^ 25% :*' 0 *0' 2' N '620' .' >1? ?*?1-6,*0' 6.' 6' .6 2,' 12' *=,'Q% ' *-*-' 2 2 + '.% + %T ;,/*-' " ' '$ 1' *=,% Q%

1-D ,' ? ' %' 6' ? 2 .,*-' 1 ',)*' <*,)10 .,' = .>1=6/');->)' 86.' D1-2' 2') /60*/=) 6' *D% S' Q ' 620' *2,*-*0',)*' , 2*-62> ' 2' ,)*' *8' B*-.* ' 12 *-*2>*' 2' Q % : *' 0 *0' 6,' 1-0*2,182' % B% ' =-/ Q S% <-% 1-D ,.' ? 2 .,- ' 2/)*' ?1.,' ?^ =1-,62,'.,6, 12.'1 ') .' 12 *-*2>*' 86.' *? 2*2,/ ' ,>^ >*.. ;/% ' .;D/ ? , '>6;5),' -1?'/125'>12+*-.*8 ,)' ,)*' D/*' 620',)*')- ., 62' =1*,.' -62',)-1;5)'6//') ,)1;5),.% : *' 86.' 6>>1?=/ .)*0' */1_;*2,' 620'/6D1^ - 1;.' 620' 56+*' ;// =-11 '1 ') .' ? 2 .,- %J ' ' 1'+ 'KR%

25' 86,*-' 1;,' 1 ' 6' 8*//' 1-' -6 . 25')*6+ ' 8* 5),.' MB1.) ' ' SI' B*-% LLL+ ' S' NX% M N%X' (1' =/6>*' 6 -1=*' 12',)*')*60' M ' 25.' LL ' N X' 2' =/6>*' 1 ',)*' 1-0 ^ 26- ')*60CO-*..' 86.' 6' . 52' 1 ' 6DA*>,' .;D? .. 12 I M ? ,)' .' %X% M %X' ()*' .?6// >1-0. ' 6 "= 1 8',.*0'D '1;-' 6+ 1;-' 2'*L=*// 25',)*',-60*-.' -1?',)*' (*?=/*' MB1)2' ' X' 8*-*' =-1D6D/ ',)*' .6?*' ;.*0' 1-'/*60 25',)*' 62 ?6/.' 1-' .6>- >*' 620' D 20 25' ,)*?',1',)*' 6/,6-' M2)7 ' .6% >L+ ' K X% M %X' ()W .6?*' 81-0' .'*?=/1 *0' 2' >,.' LL+ 'NK' '-1=*. J' %'*% ' 8 ,)' 8) >)',)*' 68/CD16,.' 8*-*' .*>;-*0',1' ,)*' .) =' M_%'+ X%' ** $ '! ?125',)*' 5;-6, +*';.*.' 1 ',)*' 81-0',)*' 1//18^ 25'6-*',)*' ?1.,'.,- 9 25d M %X' (1'5 -0' 12*.' .*/ ' 8 ,)' 6' >1-0' 86.' >12. 0*-*0' 6',19*2' 1 ' .1--18' 620') ; ? / 6^ , 12' M ' 25.' dd' N CNNT' B1D' LLL+ ' QX% MK%X' (1' .,-*,>)' 6f/ 2*' 1-' >1-0' 6D1;,' 6' > , ' . 52 *.' ,1' -; 2' , ,1' 0*.,-1 ' ,'*2, -*/ ' 620',1'/*+*/ ,' 8 ,)' ,)*' 5-1;20' M 6?% ' QX% MN%X' ()*' >1-0.' M7 : 77X' *L,*20*0' 2' .*,^ , 25' ;=' ,*2,.' ;-2 .)' .*+*-6/' ?*,6=)1-.' 2' ,)*' =-1C =/ *, >6/ D1019.'M .6% LLL 'K T' B*-% L 'K X% M %X' : *2>*' ,1' /11.*' 12* .' >1-0J' 86.' 6' ?*,6=)1-' 1-' 0 ..1/+ 25' 12*.' >1? 1-,' 620')1=*.' M3727' ' I" ' */.*8)*-*' 8 ,)*JX% M %X' ()*' >1-0.'1 '. 2J'M -1+%'+ ' KKX' ?*,C 6=7- *6// ' .=*69 25' 6-*',)*' >12.*_;*2>*.' 1 ' >- ?*.' 626' D60')6D ,..% MS%X' ()*' '. /+*-' >1-0J' M %'*% >1?=1.*0' 1 '. /+*- ',)-*60. ' >>/% L ' SX' .' 5*2*-6// ' .;==1.*0' ,1'-* *-',1',)*' .= 26/ ?6--18 ',1' 8) >)' 6.',1' ,' 1-?' 620' >1/1-' ,' ?6 ' 21,' D*' 26=,/ ' >1?=6-*0% M %X' ,)-**C 1/0' >1-0J' M %'*% 12*' 1 ',-*D/*' .,-620.X' .'=;,' 6.' ,)*' . ?D1/ 1 ';2 12' M >>/*.% +' K' 6 & ' " ' */.*' 8)*-*' ,)-*60JX% MQ%X' ()*' >1-0.'1 '6'?62 J' 2' : 1.% L ' 6-*' ?*?*0 6,*/ ' *L=/6 2*0' 6.' ?*62 25' ,)*' D620.' 1 ' /1+* J' 6/,)1;5)' .1?*' 2,*-=-*,*-.' A1 2' ,) .' >/6 ,.*',1',)*' =-*>*0 25' .*2,*2>*' 620' -*20*-' ' 6? 0' ,)*' ' 1 ' ?*2 J' -* *-- 25',1',)*' =/65 ;*.' 1 ' 5 =,' M : 1-./* ' 2' /1>%X% **) ! 1-' ' ' $"1 ' .*** ' ' ' !

1-0*/ *-. '6' 26?*' 5 +*2',1',)*' -62> .>62.' M_% X' 2' -62>*% ()*' 26?*' .'.6 0',1')6+*' 1- 5 26,*0' 2' ,)*' 86-' 1 ',% 1; .' 656 2.',)*' 2 0*/. ' 2' 8) >)',)*' - 6-.')6+ 25' -*=;/.*0',)*' D6-D6- 62. ' 620' ,)*' 9 25')6+ 25' 2_; -*0',)*-'26?*' ,'86.'62.8*-*0',)*' '8*-*' =*1=/*' "',)6,' .',*0' 8 ,)' -1=*.% ** L ! 1-0122 *-.' *,' (6 //*;-. ' 'MD-1,)*-.' $" + ' - (8',)*',,/*' 1 '6'-*/ 5 1;.'.1> *,' 1;20*0' 2' -62>*' D ' : *2- ' < >)6*/ ;>)' 6' .)1*^ ?69*-' 2' S % ()*' >)1.*' 6.',)*-' =6,-12' -.= 2' 620' -.= 2 62',81'.6 2,*0'.)1*?69*-.% ()*' /+*0' 2' >1?? ;2, ' 620' ;20*-' L*0' .,6,;,*.' 620' 1 >*-.' D ' 8) >)',)*' 8*-*' 0 -*>,*0' D1,)' 2',)*-' ,*?=1-6/ 620' .= -,;6/>12>*-2.% ()*' =-10;>*' 1 ',)*-'/6D1-' 86.' =;,' 2,1'6'>1?12'.,1>9',1' ;-2 .)'2*>*.6- *.' 1-',)*-' .;==1-,T' 62 ' .;-=/;.' 86.' 0 .,- D;,*0'6?125',)*' =11-% ()*' .1> *, 'D*>6?*' *L, 2>,' 2',)*' -*2>)' *+1/;, 12% 1-01+6'62'62> *2,'> , '1' =6 2' M>6//*0' " ',)* 1?62.' 1-0;D6X' .*6,'1'6' 1?62' 6,)1/>'D .)1=' 620' 21,*0' 1-' ,.' >6,)*0-6/>);->)'8) >)' .',)*' ?1.,' D*6;, ;/1'6//' =6 2% % '>*/*D-6,*0' $ ' ' 9 '86.')*/0'12'1>>6. 12'1',)*' =*-.*>;, 12'1' =62^ .)')-.,62.' -1?'Q ',1'Q R'0;-25',)*' >6/=)6,*' 1 ' DO*--6)?62' 'M 'Q KX' 620' 1 ' <1)6?*?0% ()*' . 210' 86.' >6//*0'Z',)*' 8 .)'1 ' DO*--6)?62' 2' 1-^ 0*-',1'*2A1 2' ?10*-6, 12',=12' ?129.' 620' 1,)*-.' 8)1' >-6+*0' ?6-,7(01?' D ' =-1+19 25',)*' <1)6?*?062.% 2' 6>>1-062>*' 8 ,)' ,) .' 8 .)'',)*' >1;2> /'1' 8) >)',)*' ?*,-1=1/,62' :1.,*5 .' 1 ' <6/656' .**?.',1')6+*' D**2',)*'/*60 25'.= - ,' 1-D60*' */ C.1;5),'?6-, -01?% ( ) .'6>, 12' ?*,'6,'12>*' 8 ,)' 6'0*,*-? 2*0'1==1. , 12' 12',)*' =6-,'1',)*' - 51+ .,. 8)1'>6//*0',)*' . 210' =' = 8?' " ! ()*' 6>,.' 1',)*' >1;2> / 6-*/1.,' 6.' ,' .112' >6?*',1'/P* 5*2*-6// '0 .182*0'/P',)*' = 7' .)');->)% K' -" '$ " ' ' ' 86.' 12*' 1',)* ?1.,' >*/*D-6,*0'/ ,*-6- ' 2., ,;, 12.' 1',)*' -6D.' 2' =6 2% ,' 86.' 1;20*0'6D1;,' RQ ' D ' >6/=)' : 69*?' ' 620')60',)*76-5*.,' -6D >'/ D-6- ' 2' =6 2'8) >)' 6>>1-0 25',1' 12*' ;201;D,*0/ ' *L655*-6,*0' >>1;2,' 2;?D*-*0'6.' ?62 '6.' S ' +1/;?*.% ()*' .>)11/ 1 ' 1-01+6' D*>6?*' 2' =6-, >;/6-' >*/*D-6,*0' 1-',)*' ?=;/.*' 8) >)' ,' 56+*',1',)*' .,;0 '1',)*' - .,1,*/ 62' =) /1.1=) % 2*' 1',)*' ?1.,'>*/*D-6,*0'=-1 *..1-.' 1 ' 1-01+6' 86.' +*--)1*.'M_%'+%X% ()*' >12_;*.,'1' 1-^ 01+6' D ',)*')- ., 62.' =;,' 62' *20',1',) .' .>)11/' 6.' 6/.1',1',)*' 1;-.) 25' (6/?;0>' .>)11/' 1',)*' .6?*' >, % ' : *-[15 '5 =6 + % ' .'% +%

1 -7' M 1= P' 7' ?10*' 1' 4->>> [25' M >*A;.% L/+' Q'1' B;0*' X',)*' 26?*' 1',)*' -*D*// 1;.' 1 ' 'M_% %X' 1',)*' <1.6>') .,1- 'M ;?% L+ X%

1-*6'6'0*=*20*2> '1') 26% ,' .' 62' *L,*2. +*' =*2 2.;/6'D1;20*0'*6.,'D ',)*' *6'1 'B6=62' .1;,)' D ',)*' ,-6 ,' 1' 1-*6'8*.,' D ',)*' */18' *6'620',)*' 4;/'1' *61,125'620'21-,)' D ' <62,>);-6% ,' .' 51+^ *-2*0'D '6'9 25' 8)1',)1;5)',- D;,6- ',1') 21' *L*-^ >.*.'+ -,;6// '62'6D.1/;,*'=18*-% ()*'=-*+6 / 25'-*/ 5^ 12' .' ;00) .?% 12 ;> ;.'6/.1')6.' ?62 ' 1/18*-.% ()*' 6-*6' .' 6D1;,' Q ' 25/.)' ._;6-*' ? /*.'' ,)*' =1=;/6, 12'6>>1-0 25',1'6'>*2.;.'1 ' RN' 86. Q K NS ' 620' 2' QS ' 86.' *., ?6,*0'6,' R % ()*' 1?62' 6,)1/>'? .. 126- *.' 2') 26'620'B6=62' .=*69'1 '>12^ +*-. 12.' 1 '26, +*.' 1 ' 1-*6',1',)*' -') ;->)' 2',)*' /6,^ ,*-'=6-,'1',)*' S,)'>*2,;- % 2',)*' ,)'>*2,;-A7' 12*' 1',)*' 9 25.' 1 ' 1-*6' 86.'6' =6,-12' 1',)*' >*/*D-6,*0' B*.;,' 06?' >)6//% ()*' -*' .**?.' 6/86 .' 2>*',1')6+*' D**2' .1?*' .?6//' 2;?D*-' 1 ' 1?62' 6,/1/>.' 2' 1-*6'620' 2' Q ',)*',1,6/' 2;?D*-' 1 ')-.,62.' 86.' -*=1-,*0',1'6?1;2,',1' T' D;,' ,)*' =-15-*..' 1 ',)*');->)' 86.' =-*+*2,*0' D ' >12.,62,' =*-.*>;^ ,12% 6-/ ' 2',)*' =-.*2,' >*2,;-A' ,)*' ? .. 12' 1' 1-*6' 86.' =/6>*0';20*-',)*' 6- .' 125-*56, 12' 1' 1-* 52C < .. 12.J ()*' ? O. 126- *.' 5-*6,/ ' *L,1/ ,)*' [*6/' 1',)*' 26, +*' >12+*.,. ' 620' -*=1-,' 6' 2; ?^ D*-' 1 ' 6>>*.. 12.',1',)* -');->)% 3 ();.' 2' Q N' ,)*' 2;?D*-' 1 ' >6,*>);?*2.' 8)1' 8*-*' 60? ,,*0',1' D6=, .?' 86.' .,6,*0',1' D*' S % ' 2*8' =*-.*>;, 12' D-19*' 1;,' 2' *D-;6- ' QSS% (81' 1?62' 6,)1/> D .)1=.' 620' .*+*2'=- *.,.' 6//' 26, +*.' 1 ' -62>*' 8*-*' =;,',1'0*6,)'D '1-0*-' 1',)*'9 25' 1-' =-*6>) 25'6' 1-^ D 00*2' -*/ 5 12% ()-**' 1,)*-.' .;>>**0*0' 2' >12>*6/^ 25',)*?.*/+*.' 620' 12*' 1',)*?' 6-- +*0' 6,')*' 1') 26')6+ 25' D**2' .*2,' D ',)*' 1,)*-',81',1' >1??;^ 2>6,*',)*' .60' 2,*// 5*2>*% ()*' .>6=*0'? .. 126- ' 6..*-,*0',)6,',)*-*' 8*-*' S '>12+*-,.' 2' 1-*6' 620' ,)6,' 5-*6,' >12.,*-26, 12' 86.' =-10;>*0' 6?125',)*?' D ',)*' *->*2*.'1',)*'=*-.*>;, 12% ()*' ? .. 126- ' =-1>**0*0',1' *9 2',1' 2+19*',)*' 6 0' 1',)*' -*2>)' 6?D6..601-% 2' >,1D*-' QSS',)*' -*2>)' ;20*-,119' 62' *L=*0 , 12' 656 2.,' 1-*6' 0*?620 25',)*' =; -.)C ?*2,' 1',)*',)-**' =- 2> =6/?2 .,*-.' 8)1' 2., 56,*0' ,)*'*L*>;, 12' 1',)*' ? .. 126- *.' 620',)*' >12>/;. 12' 1' 6',-*6, ' 5;6-62,** 25',)*')- ., 62.' 656 2.,' ;^ ,;-*'=*-.*>;, 12.% ()*'*L=*0 , 12' 86.' 1-*6' 8)1' 2., >>*.. ;/' 620' 2' *>*?D*-' -*,;-2*0',1')625)6 % <-% /C / 6?.12',)*' 65*2,'1',)*' >1,.)' 6, 126/ D/*' 1^ > *, '8-1,*' 2' QSS' -1?')*11') 26',) ,'9*')60' + .,*0',81' 1?62' 6,)1/>'26, +*.' 1' 1-*6' 8)1')60'>1-,*',1',)6,'=1-,% >>1-0 25',1',)*-'.,6,*?*2,' ,)*-*' 6-*' 2' 1-*6' */*+*2' ;-1=*62' =-*..T' 8)1'+.^ ,' -1?')1;.*',1')1;.*% ()*')6+*' 21',*?=/*.'D;,' 81-.)=' 2' =-+6,*')1;,.*' ()*E' .)18*0' 6' >6,*C 7 Z7.2W >12,6 2 25' 6' ;// .,6,*?*2,' 1',)*-' 6 ,)' 2' 8)>)' <-% & // 6?.12' 86.' 0*/5),*0',1' 20' ?;>)' ,-;,)' 1-> D/ ' *L=-*..*0% ()*' 6==*6-*0',1'D*' 521^ -62,'1'62 '0 ., 2>, 12'D*,8*2' <-% & // 6?.12'.=19*',1' ,)*?' 1'B*.;.' 6,'12>*' .6/;,*0')?'6.')1/ 6,)*-%J ()*' 65-**0',1'6>,'6.',)*'5; 0*.' 1',)*' *+' B% % ()1?6.' 8)1' 1 *-*0',1'6>>1?=62',)*?'12',)*-'-*^ ,;-2',1' 1-*6'6Y,)*'65*2,'1',)*' D/*' *1>1, % ;D^ .*_;*2,/ ' <-%()1?6.'>)625*0') .'=/62'620'*?D6-9*0

on board an American vessel, which ran aground in one of the rivers of Corea, when the natives, considering the people on board as pirates and enemies, captured and beheaded them.—Wetzer u. Welte, *Kirchen-Lex.* xii, 254 sq.; *Annual American Cyclop. for* 1866, p. 258; *The Christian Year-book* (Lond. 1867, p. 308).

Corĕæ (Κορέαι), a fortified place mentioned by Josephus (*Ant.* xiv, 3, 4) as lying on the northern border of Judæa, on the route of Pompey to Jerusalem (*War*, i, 6, 5), and also visited by Vespasian, who marched in one day thither from Neapolis, and the next reached Jericho (*War*, iv, 8, 1). Near this place (πρός) was situated the fortress Alexandrium (q. v.), where the princes of Alexander Jannæus's family were mostly buried, and whither Herod carried the remains of his sons Alexander and Aristobulus (who were maternally of that family), after they had been put to death at Sebaste (Joseph. *Ant.* xiii, 24; xiv, 6, 10, 27; xvi, 2, et ult.). The situation of Coreæ, which determines that of the castle, is not known; but Dr. Robinson (*Bib. Researches*, iii, 83) conjectures that he may have found it in the modern *Kuriyet*, which is about eight miles S. by E. from Nablous (Shechem), and half an hour N. by E. of Shiloh (Ritter, *Erdk.* xv, 455). It is small, with no very definite traces of antiquity (Wolcott, in the *Bibliotheca Sacra*, 1843, p. 72). The similarity of name to that of Beth-car (Χόρραια, Josephus, *Ant.* vi, 22) seems to be accidental. See Ebenezer.

Coreăthè (Κωρεάθη), an episcopal village of Trachonitis (Reland, *Palest.* p. 218) mentioned in the early Church notices (S. Paulo, *Geogr. Sac.* p. 51); probably the modern *Kiratah* (Ritter, *Erdk.* xv, 866), on the southern edge of the Lejah (Porter, ii, 216).

Coriander (גַּד, *gad*, from the root גָּדַד, to make an *incision*, referring to the furrows in the seed). The Syriac, Chaldee, and Arabic, with the Sept. and Vulg., render this word coriander (Gesenius, *Thesaur. Heb.* p. 264), as does our version in Exod. xvi, 13; Num. xi, 7, the only passages where it occurs, and in both which the appearance of manna is compared to that of its seeds as to form, and in the former passage as to color also. See Manna. According to Dioscorides also (iii, 64) the ancient Carthaginian name for coriander was *goid* (γοιδ), evidently kindred with the Hebrew *gad*. Celsius states (*Hierob.* ii, 78 sq.) that the coriander is frequently mentioned in the Talmud (where it is called גַּסְבָּר, *kasbar'*, or כּוּסְבָּר, *kusbar'*). It was known to and used medicinally by Hippocrates: it is mentioned by Theophrastus, as well as Dioscorides, under the name of κόριον or κοριαννον; and the Arabs, in their works on *Materia Medica*, give *korion* as the Greek synonym of coriander, which they call *kuzecreh*, the Persians *kushneez*, and the natives of India (compare Pliny, xx, 82) *dhunya*. It is known throughout all these countries, in all of which it is cultivated, being universally employed as a grateful spice, and as one of the ingredients of currie-powder (see Büsching, *Wöchentl. Nachr.* 1775, p. 42; Rauwolff, *Reise*, p. 94; Gmelin, *Reise durch Russl.* iii, 282). It is also found in Egypt (Prosp. Alpin. *Res. Æg.* ii, 9, p. 156). It is now very common in the south of Europe, and also in England, being cultivated, especially in Essex, on account of its seeds, which are required by confectioners, druggists, and distillers in large quantities; in gardens it is reared on account of its leaves, which are used in soups and salads (see Pereira's *Materia Medica*). The coriander is the *Coriandrum sativum* of botanists, an umbelliferous plant, with a round tall stalk. The flowers are small and pale pink, the leaves are much divided (especially the upper ones) and smooth. The fruit, commonly called seeds, is globular, grayish-colored, about the size of peppercorn, having its surface marked with fine striæ. Both its taste and smell are agreeable, depending on the presence of a volatile oil, which is separated by distillation (see *Penny Cyclopædia*, s. v.). See Botany.

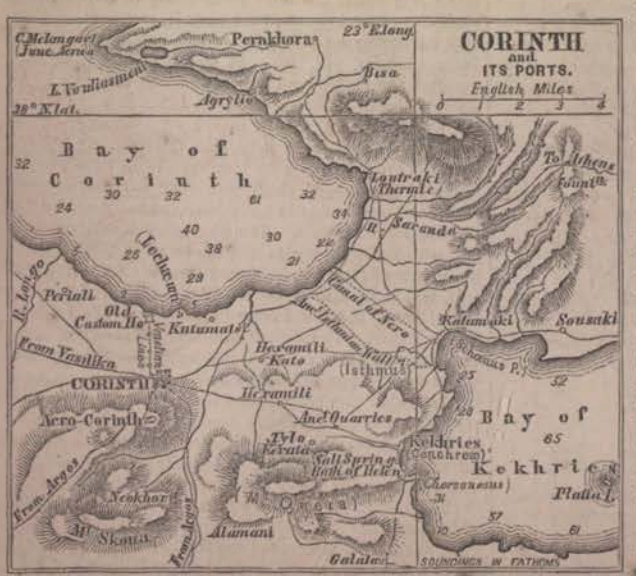
Coriander, with enlarged views of the flower, pericarp, and section of hemisphere of the last.

Cor'inth (Κόρινθος, occurs Acts xviii, 1; xix, 1; 1 Cor. i, 2; 2 Cor. i, 1, 23; 2 Tim. iv, 20; "Corinthus," subscr. to Ep. to Rom.), a Grecian city, placed on the isthmus which joins Peloponnesus (now called the Morea) to the continent of Greece. A lofty rock rises above it, on which was the citadel, or the Acrocorinthus (Livy xlv, 28). It had two harbors: Cenchreæ, on the eastern side, about seventy stadia distant; and Lechæum, on the modern Gulf of Lepanto, only twelve stadia from the city (Strabo, viii, 6). Its earliest name, as given by Homer, is *Ephyre* (Ἐφύρη, *Il.* vi, 152); and mysterious legends connect it with Lycia, by means of the hero Bellerophon, to whom a plot of ground was consecrated in front of the city, close to a cypress grove (Pausan. ii, 2). Owing to the great difficulty of weathering Malea, the southern promontory of Greece, merchandise passed through Corinth from sea to sea, the city becoming an *entrepôt* for the goods of Asia and Italy (Strabo, viii, 6). At the same time, it commanded the traffic by land from north to south. An attempt made to dig through the isthmus was frustrated by the rocky nature of the soil; at one period, however, they had an invention for drawing galleys across from sea to sea on trucks. With such advantages of position, Corinth was very early renowned for riches, and seems to have been made by nature for the capital of Greece. The numerous colonies which she sent forth, chiefly to the west and to Sicily, gave her points of attachment in many parts; and the good will, which, as a mercantile state, she carefully maintained, made her a valuable link between the various Greek tribes. The public and foreign policy of Corinth appears to have been generally remarkable for honor and justice (Herod. and Thucyd. *passim*); and the Isthmian games, which were celebrated there every other year, might have been converted into a national congress, if the Corinthians had been less peaceful and more ambitious. When the Achæan league was rallying the chief powers of Southern Greece, Corinth became its military centre; and, as the spirit of freedom was active in that confederacy, they were certain, sooner or later, to give the Romans a pretence for attacking them. The fatal blow fell on Corinth (B.C. 146), when L. Mummius, by order of the Roman

Corinth restored, as viewed from the Acrocorinthus.

senate, barbarously destroyed that beautiful town (Cicero, *Verr.* i, 21), eminent even in Greece for painting, sculpture, and all working in metal and pottery; and, as the territory was given over to the Sicyonians (Strabo, l. c.), we must infer that the whole population was sold into slavery.

The Corinth of which we read in the New Testament was quite a new city, having been rebuilt and established as a Roman colony, and *peopled with freedmen from Rome* (Pausanias and Strabo, *u. s.*) by the dictator Cæsar a little before his assassination. Although the soil was too rocky to be fertile, and the territory very limited, Corinth again became a great and wealthy city in a short time, especially as the Roman proconsuls made it the seat of government (Acts xviii) for *Southern* Greece, which was now called the province of Achaia. In earlier times Corinth had been celebrated for the great wealth of its temple of Venus, which had a gainful traffic of a most dishonorable kind with the numerous merchants resident there —supplying them with harlots under the forms of religion (hence κορινθιάζεσθαι = *scortari*, see Schotti *Adagia Gr.* p. 568). The same phenomena, no doubt, reappeared in the later and Christian age. The little which is said in the New Test. seems to indicate a wealthy and luxurious community, prone to impurity of morals; nevertheless, all Greece was so contaminated that we may easily overcharge the accusation against Corinth. We find Gallio, brother of the philosopher Seneca, exercising the functions of proconsul here during the apostle Paul's first residence at Corinth, in the reign of Claudius. This residence continued for a year and six months, and the circumstances which occurred during the course of it are related at some length (Acts xviii, 1-18). The apostle had recently passed through Macedonia. He came to Corinth from Athens; shortly after his arrival Silas and Timotheus came from Macedonia and rejoined him; and about this time the two epistles to the Thessalonians were written (probably A.D. 49 and 50). It was at Corinth that the apostle first became acquainted with Aquila and Priscilla, and shortly after his departure Apollos came to this city from Ephesus (Acts xviii, 27). Corinth was a place of great mental activity, as well as of commercial and manufacturing enterprise. Its wealth was so celebrated as to be proverbial; so were the vice and profligacy of its inhabitants. The worship of Venus here was attended with shameful licentiousness. All these points are indirectly illustrated by passages in the two epistles to the Corinthians, which



Map.

were written (probably A.D. 54), the first during Paul's stay at Ephesus, the second from Macedonia, shortly before the second visit to Corinth, which is briefly stated (Acts xx, 3) to have lasted three months. See CORINTHIANS (EPISTLES TO). During this visit (probably A.D. 55) the epistle to the Romans was written. From the three epistles last mentioned, compared with Acts xxiv, 17, we gather that Paul was much occupied at this time with a collection for the poor Christians at Jerusalem. It has been well observed that the great number of Latin names of persons mentioned in the epistle to the Romans is in harmony with what we know of the colonial origin of a large part of the population of Corinth. According to Philo (*Opp.* ii, 587), it was extensively colonized by Jews. From Acts xviii we may conclude that there were many Jewish converts in the Corinthian church, though it would appear (1 Cor. xii, 2) that the Gentiles predominated. On the other hand, it is evident from the whole tenor of both epistles that the Judaizing element was very strong at Corinth. Party spirit also was extremely prevalent, the names of Paul, Peter, and Apollos being used as the watchwords of restless factions. Among the eminent Christians who lived at Corinth were Stephanas (1 Cor. i, 16; xvi, 15, 17), Crispus (Acts xviii, 8; 1 Cor. i, 14), Caius (Rom. xvi, 23; 1 Cor. i, 14), and Erastus (Rom. xvi, 23; 2 Tim. iv, 20). The epistle of Clement to the Corinthians is among the most interesting of the post-apostolic writings. The Corinthian church is remarkable in the epistles of Paul by the variety of its spiritual gifts, that seem for the time to have eclipsed or superseded the office of the elder or bishop, which in most churches became from the beginning so prominent. Very soon, however, this peculiarity was lost, and the bishops of Corinth take a place co-ordinate to those of other capital cities. One of them, Dionysius, appears to have exercised great influence over many and distant churches in the latter part of the second century (Eusebius, *Hist. Eccles.* iv, 23). In the year 268 of the Christian era the city was burned by the Goths, and in 525 it was destroyed by an earthquake. During the Middle Ages Corinth shared the fate of many of the cities of Greece in being wrested from the emperors of Constantinople and possessed by a succession of adventurers, and at length formed a part of the duchy of Athens, ruled first by the French, then by the Arragonese kings of Sicily, and finally by the Accaioli, a family of Florence, from whom it was taken by Mohammed II in 1460. During a war between the Venetians and the Turks, it was captured by the former in 1687, but was recovered by the Turks in 1715, and held by them until the period of the Greek revolution, when it became the seat of the new government, although taken and retaken more than once during the war. Corinth is still an episcopal see. The cathedral church of St. Nicholas, "a very mean place for such an ecclesiastical dignity," used in Turkish times to be in the Acrocorinthus. The city has now shrunk to a wretched village, on the old site, and bearing the old name, which, however, is often corrupted into *Gortho* (see Hassel, *Handbuch der neuest Erdbeschreib.* III, i, 673 sq.).

Pausanias, in describing the antiquities of Corinth as they existed in his day, distinguishes clearly between those which belonged to the old Greek city and those which were of Roman origin. Two relics of Roman work are still to be seen, one a heap of brick-work which may have been part of the baths erected by Hadrian, the other the remains of an amphitheatre

Plan of Corinth.

A. Acrocorinthus. C. Lechæum.
B. Corinth. I, I. Long Walls.

Coins of Corinth.

8 ,)' . ;D,*--62*62' 6--625* ? *2,. ' 1-' 5/60 6,1-.% 6-' ?1-*' 2,*-*. , 25' 6-*' ,)*' -; 2.' 1 ' ,)*' 62> *2,' 4-**9' ,*?=/* ' ,)*' I`1/0' >1/; ?2.' 8) >)')6+*' /119*0' 0182' 12' ,)*' - .*' ,)*' =-1.=*- , ' 620' ,)*' 0*.1/6, 12' 1 ' ,81' \ 2' 6>, ' ,)- **h' .; >>*.. +*' 1- 2,) .%J' ',)*', ? *' 1 ' &)*/*- .' + . ,' 2' S S',8*/+*' >1/; ?2.' 8-*' .,620 25T' D* 1-*' R ' ,)* ' 8*-*' -*0 ; >*0' ,1' +*T 620' ; -,)*-' 2^ A ; - ')6.' +*- ' -*>*2,/ ' D**2' 2 / >,*0' D ' 62' *6-,)^ _ ; 69*% ,' .' D*/ *+*0' ,)6, ' ,) .' ,*?=/*' .' ,)*' 1/0*.,' 1 ' 8) >)' 0 2.' 6-*' /* ,' 2' 4-***%' ()*-*' 6-*' 6/.1' 0 ., 2>', -6>*.' 1 ' ,)*' 1. 012 ; ? ' 1-' .62>, ; 6- ' 1 ' *=^ , ; 2*' ,)*' .>*2*' 1 ' ,)*' .,) ? 62' 56 ? *. ' -1 ?' 8) >)' 6 ; / D1--18.' .1 ?*' 1 ') .' ?1.,' ., - 9 25' ?65*- ' 2' ' 1-% 620' 1,)*-' *= ../*.% **' & ! ()*' 1 ; 2,6 2' 1 ' * -*2* ' ;// 1 ' .8**,' 620' >/*6-' 86,*- J' 6.' , ' .' 0*.>- D*0' D ' ,-6D1 ' .' ., // ,1' D*' .**2' 2' ,)*' >-1>1C - 2,) ; . ' 6.' 8*// 6.' ,)*' 1 ; 2,6 2.' 2' ,)*' /18*-' > , ' 1 ' 8) >)' , ' 86.' . ; ==1.*0' D ') ?' 620' 6 ; .62 6.' , 1' D*' ,)*' .1 ; ->*% ()*' 86//.' 12' ,)*' >-1>1- 2,) ; .' 8*-*' 2' =6-, ' *-*>, *0' D ' ,)*' *2*, 62. ' 8) 1')*/0' 1- 2,)' 1-' , 8*2^ , C +*' *6-.' 2' ,)*' ,)' >*2, ; - % () .' > , ' 620' , .' 2* 5) D1--) 6+*' D**2' 0*.>- D*0' D ' ? 62 ', -6+*//*-. ' D ; ,' 8*' ? ; . ,' *.=*> 6// ' -* *-' ,1' *69* .' BV1-*6 ' ' KKRCN ' M 12012 ' QN X ' 620') .' % ' =% NRK' M 12012 ' Q SXT' ; -, ; . ' % *' ' S ' M41,)6 ' Q NC QNKXT' /6-9 ' % 1' =% KCS ' M 12012 ' /. QX% **' 7.1' 6 ; / ' 5 26 + !' ' SI N._ %T 1,,' " !' ' ' ' !T' 12 D*6-*' 620' : 18.12 ' $!' ,6V' >)% L %% ()*-*' 6->' 1 ; -' 4*-? 62' ? 1215-6=) .' 12' ,)*' .; Da*>, ' 7 //>9*2. ' 5 ' + ' % = Uk' ' ' 4 ' 6% 1 ' ' M -*^ ? *2 ' T 6/.1' 2' */- >) .' !' , % ! ' K ' ._ %XT ! &6/>) ' & 4 ' ' MB*26 ' 4NXT' & 65^ 2*-' 5 ' ' % ' M 6-? .,% QK XT' 6 - ,) ' ' # ' % ' M *-/ 2 ' Q X% 1-' 6' ; //*/ ; > 06, 12' 1 ' ,)*' /; %, 1-E ' 620' ,1=15-6=) ' 1 ' ,)*' > , ' .**' ? ,) .' ' ' !' !' .% +T 1- 2,) ; . ' ,,1 ' .% + %T ? ,)' . ' % **' ' !

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(: ' ' ,)*' /6, *. ; 0*+*/1=*0' 620' ,)*' ? 1. , ' 1-26 ? *2,6/ 1 ' ,)*' ,)-**' 1-0*-.' 1 ' 4-**9' 6->) ^ , *>, ; -*% ()*' >1/; ? 2' M_% + %X' .' 6D1 ; ' , *2' 0 6 ? *. *-. ' 2' /; 5), ' 620' .' /; , *O% ()*' >6= , 6/ .' 1+*-' 6' 0 6 ? *, *-' 1 ' ,)*' >1/; ? 2' 2') * 5), ') 6. ' , 81' -18. ' 1 ' - >)/ C>6-+*0' /*6+*. ' 1 ' 6>62,) ; . ' 1/ +*' 1-' 1,)*-' =/62, ' -1 ? ' 6D1+*' 8) >)' -1/ 1 ; , ' +1/ ; , *. ' . ; -? 1 ; 2, *0' D ' /*6+*. ' 620' >-182*0' D ' 6' ? 1 ; /0 25 ' >6//*0' ,)*' 6D6>; .% ()*' D6.*' .' - >)/ ' ? 1 ; /0*0% ()*' 1- 2,) 62' 1-0*-' 86.' /6-5*/ ' 2,-10 ; >*0' 2' ,)*' *26 ..62>*' 6->) , *>, ; -* ' D1,)' 2' *>^ >/*. 6., >6/ 620' > + / D ; /0 25.% **' ' $!

1- 2,) 62. ' ' > / ' ' . ! % ()* , *., ? 12 ' 1 ')- ., 62' 62, _ ; , ' .' ; // 620' ; 262 ? 1 ; ' 2' 6.>- D 25',) .' 2.= -*0' =-10 ; >, 12' , 1',) *' =*2' 1 ',)*' 6=1., /*' 6 ; / M 6-02*- .' 1' + ' +1/% '% !' " !:' .** 6/.1' : * 0*2-* >) ' ' % ' ' ! ' ' ! % ! ' =% c T >)1, , ' D ' ' 7 !' -!' = ' KNS ' KNR' ._ %X% *' *L, *-26/ *+ 0*2>*.' M /*? ' 1? % ' ! >)% ' QT' 1/ >6-= ' " !' >)% T 526, ' '6% "!' >)% KT' -*26A ; . ' VV>*-% ' ' RT' + ' K ' NT' ,)*' 265% ' 5 ' =% S ' *0% 1/ T /*? % /*L% " % " ! ' NNT' (*-, ; //% ' ' >)% NNX 6-*' *L, -* ? */ ' 0 ., 2>, ' 620' 8 ,)' ,) .' ,)*' 2, *-26/ *+ 0*2>*' 6- . 25' -1?' 6// ; . 12. ' ; 20*. 52*0' >1 2> 0*2>*. I' . , A0*' 620' , 12*' 1 ' ,) 1 ; 5), ' ; // '6>>1-0.' M. **' 6+ 0.12 ' ! ' K N' . %X%

K% ( ) *' *= ../*' . **? .' , 1') 6+*' D**2' 1>>6. 12*0' =6-, / ' D ' .1? *' 2, *// 5*2>*' -*>* +*0' D ' ,)*' 6=1., /*' >12>*-2^ 25',)*' 1- 2,) 62' >) ; ->)' -1?',)*' 01?*., >.' 1 ') 6+*' D**2' 1>>6. 12*0' =6-, / ' D ' 62' *= ../*' 8) >)' ,)*' 1- 2,) 62.' ,)*? ^ .*/+*.') 60' 600-*..*0', 1' ,)*' 6=1../*' 6.9 25' 60+ >*' 620' 2., -; >, 12' 12' .*+*-6/ =1 2, .' M+ ' X ' 620' 8) >)' =-1D^ 6D/ ' 86.' >12+* *0', 1') ?' D ' ,*=) 626. ' 1-, ; 26, ; . 620' >) 6 >; .' ML+ ' X% 7=1/ 1. ' 6/.1 ' 8) 1' . ; >>**0*0' ,)*' 6=1../*' 6, ' 1- 2,) ' D ; , ' 8) 1' . **? .' , 1') 6+*' D**2' 8 ,)') ?' 6, ' ,)*' , ?*',) .' *= ../*' 86.' 8- .,*2' ML+ ' KX' ?6 ') 6+*' 5 +*2') ?' 2 1-?6, 12' 1 ' ,)*' .,6, 7' 1 ' ,) 25.' 6?125',)*')- ., 62.' 2',) 6, ' > , % -1?' ,)*.*' .1 ; ->*.' ,)*' 6=1., /*') 60' D*>1?*' 6>_ ; 6 2, *0' 8 ,)' ,)*' =6 2 ; /' 6>, ' ,) 6, ' . 2>*') *') 60' /*, ' 1- 2,) ' M >, . ' L+ ' QX' ,)*' >) ; ->)' 2' ,) 6, ' =/6>*') 60' . ; 29' 2,1' 6' .,6, *' 1 ' 5-*6, ' >1--; =, 12' 620' *--1-% 2*'=- ? *' .1 ; ->*' 1 ' ,) .' *+ / ., 6, *' 1 ' ,) 25. ' 620' 2' ,. */ ' 62' *+ / 1 ' 20' , 1' 2 *- 1-' ? 65^ 2 , ; 0*' 86.' ,)*' *L . , *2>*' 1 ' .>) . ? .' 1-' =6-, ' 0 + . 12. ' 2' ,)*' >) ; ->)% ' +*- ' 12*' 1 ' 1 ; J' 6 ; / , */ / .' ,)*? ' ' .6 ,)' '6?' 1 ' 6 ; / ' 620' ' 1 ' =1//1. ' 620' ' 1 ' *=)6. ' 620' ' 1 ')- ., J' M ' KX% ( ) .')6.' /*0' , 1' ,)*' >12>/ ; ^ . 12' ,)6, ' 1 ; -' 5-*6, ' =6-, *. ') 60' 6- . *2' 2' ,)*' >) ; ->) ' 8) >)' D16., *0' 1 ' 6 ; / ' =1//1. ' *, *-' 620')- . ' 6. ' ,)* -' -*. =*>, +*') *60. % ' 8) 6, ' =*>; / 6- , *. ' 1 ' . *2^ , ? *2, ' ,)*. *' =6-, *. ' ? 6 ') ?*' 620' 6 ; . 62 6.' , 1' D*' ,)*' .1 ; ->*% ()*' 86//.' 12' ,)*' >-1>1- 2,) ; .' 8*-*' 2' =6-, ' *-*>, *0' D ' ,)*' *2*, 62. ' 8) 1')*/0' 1- 2,)' 1-' , 8*2^ , C +*' *6-.' 2' ,)*' ,)' >*2, ; - % () .' > , ' 620' , .' 2* 5) D1--) 6+*' D**2' 0*.>- D*0' D ' ? 62 ', -6+*//*-. ' D ; , ' 8*' ? ; . ,' *.=*> 6// ' -* *-' ,1' *69* .' BV1-*6 ' ' KKRCN ' M 12012 ' Q SXT' ; -, ; . ' % *' ' S ' M41,)6 ' Q NC QNKXT' /6-9 ' % 1' =% KCS ' M 12012 ' /. QX% **' 7.1' 6 ; / ' 5 26 + !' ' SI N._ %T 1,,' " !' ' ' ' !T' 12 D*6-*' 620' : 18.12 ' $!' ,6V' >)% L %% ()*-*' 6->' 1 ; -' 4*-? 62' ? 1215-6=) .' 12' ,)*' .; Da*>, ' 7 //>9*2. ' 5 ' + ' % = Uk' ' ' 4 ' 6% 1 ' ' M -*^ ? *2 ' T 6/.1' 2' */- >) .' !' , % ! ' K ' ._ %XT ! &6/>) ' & 4 ' ' MB*26 ' 4NXT' & 65^ 2*-' 5 ' ' % ' M 6-? .,% QK XT' 6 - ,) ' ' # ' % ' M *-/ 2 ' Q X% 1-' 6' ; //*/ ; > 06, 12' 1 ' ,)*' /; %, 1-E ' 620' ,1=15-6=) ' 1 ' ,)*' > , ' .**' ? ,) .' ' ' !' !' .% +T 1- 2,) ; . ' ,,1 ' .% + %T ? ,)' . ' % **' ' !

1- 2 ,) 62' M 1=, 71>X' 62' 2) 6D ,62, ' M >, . ' L+ ' QT' K 1-% + ' X 1 ' ,)*' > , ' 1 ' 1- 2,) ' M_% + %X%

(: ' ' ,)*' /6, *. ; 0*+*/1=*0' 620' ,)*' ? 1. , ' 1-26 ? *2,6/ 1 ' ,)*' ,)-**' 1-0*-.' 1 ' 4-**9' 6->) ^ , *>, ; -*% ()*' >1/; ? 2' M_% + %X' .' 6D1 ; ' , *2' 0 6 ? *. *-. ' 2' /; 5), ' 620' .' /; , *O% ()*' >6= , 6/ .' 1+*-' 6' 0 6 ? *, *-' 1 ' ,)*' >1/; ? 2' 2') * 5), ') 6. ' , 81' -18. ' 1 ' - >)/ C>6-+*0' /*6+*. ' 1 ' 6>62,) ; . ' 1/ +*' 1-' 1,)*-' =/62, ' -1 ? ' 6D1+*' 8) >)' -1/ 1 ; , ' +1/ ; , *. ' . ; -? 1 ; 2, *0' D ' /*6+*. ' 620' >-182*0' D ' 6' ? 1 ; /0 25 ' >6//*0' ,)*' 6D6>; .% ()*' D6.*' .' - >)/ ' ? 1 ; /0*0% ()*' 1- 2,) 62' 1-0*-' 86.' /6-5*/ ' 2,-10 ; >*0' 2' ,)*' *26 ..62>*' 6->) , *>, ; -* ' D1,)' 2' *>^ >/*. 6., >6/ 620' > + / D ; /0 25.% **' ' $!

1- 2,) 62. ' ' > / ' ' . ! % ()* , *., ? 12 ' 1 ')- ., 62' 62, _ ; , ' .' ; // 620' ; 262 ? 1 ; ' 2' 6.>- D 25',) .' 2.= -*0' =-10 ; >, 12' , 1',) *' =*2' 1 ',)*' 6=1., /*' 6 ; / M 6-02*- .' 1' + ' +1/% '% !' " !:' .** 6/.1' : * 0*2-* >) ' ' % ' ' ! ' ' ! % ! ' =% c T >)1, , ' D ' ' 7 !' -!' = ' KNS ' KNR' ._ %X% *' *L, *-26/ *+ 0*2>*.' M /*? ' 1 ? % ' ! >)% ' QT' 1/ >6-= ' " !' >)% T 526, ' '6% "!' >)% KT' -*26A ; . ' VV>*-% ' ' RT' + ' K ' NT' ,)*' 265% ' 5 ' =% S ' *0% 1/ T /*? % /*L% " % " ! ' NNT' (*-, ; //% ' ' >)% NNX 6-*' *L, -* ? */ ' 0 ., 2>, ' 620' 8 ,)' ,) .' ,)*' 2, *-26/ *+ 0*2>*' 6- . 25' -1?' 6// ; . 12. ' ; 20*. 52*0' >1 2> 0*2>*. I' . , A0*' 620' , 12*' 1 ' ,) 1 ; 5), ' ; // '6>>1-0.' M. **' 6+ 0.12 ' ! ' K N' . %X%

K% ( ) *' *= ../*' . **? .' , 1') 6+*' D**2' 1>>6. 12*0' =6-, / ' D ' .1? *' 2, *// 5*2>*' -*>* +*0' D ' ,)*' 6=1., /*' >12>*-2^ 25',)*' 1- 2,) 62' >) ; ->)' -1?',)*' 01?*., >.' 1 ') 6+*' D**2' 1>>6. 12*0' =6-, / ' D ' 62' *= ../*' 8) >)' ,)*' 1- 2,) 62.' ,)*? ^ .*/+*.') 60' 600-*..*0', 1' ,)*' 6=1../*' 6.9 25' 60+ >*' 620' 2., -; >, 12' 12' .*+*-6/ =1 2, .' M+ ' X ' 620' 8) >)' =-1D^ 6D/ ' 86.' >12+* *0', 1') ?' D ' ,*=) 626. ' 1-, ; 26, ; . 620' >) 6 >; .' ML+ ' X% 7=1/ 1. ' 6/.1 ' 8) 1' . ; >>**0*0' ,)*' 6=1../*' 6, ' 1- 2,) ' D ; , ' 8) 1' . **? .' , 1') 6+*' D**2' 8 ,)') ?' 6, ' ,)*' , ?*',) .' *= ../*' 86.' 8- .,*2' ML+ ' KX' ?6 ') 6+*' 5 +*2') ?' 2 1-?6, 12' 1 ' ,)*' .,6, 7' 1 ' ,) 25.' 6?125',)*')- ., 62.' 2',) 6, ' > , % -1?' ,)*.*' .1 ; ->*.' ,)*' 6=1., /*') 60' D*>1?*' 6>_ ; 6 2, *0' 8 ,)' ,)*' =6 2 ; /' 6>, ' ,) 6, ' . 2>*') *') 60' /*, ' 1- 2,) ' M >, . ' L+ ' QX' ,)*' >) ; ->)' 2' ,) 6, ' =/6>*') 60' . ; 29' 2,1' 6' .,6, *' 1 ' 5-*6, ' >1--; =, 12' 620' *--1-% 2*'=- ? *' .1 ; ->*' 1 ' ,) .' *+ / ., 6, *' 1 ' ,) 25. ' 620' 2' ,. */ ' 62' *+ / 1 ' 20' , 1' 2 *- 1-' ? 65^ 2 , ; 0*' 86.' ,)*' *L . , *2>*' 1 ' .>) . ? .' 1-' =6-, ' 0 + . 12. ' 2' ,)*' >) ; ->)% ' +*- ' 12*' 1 ' 1 ; J' 6 ; / , */ / .' ,)*? ' ' .6 ,)' '6?' 1 ' 6 ; / ' 620' ' 1 ' =1//1. ' 620' ' 1 ' *=)6. ' 620' ' 1 ')- ., J' M ' KX% ( ) .')6.' /*0' , 1' ,)*' >12>/ ; ^ . 12' ,)6, ' 1 ; -' 5-*6, ' =6-, *. ') 60' 6- . *2' 2' ,)*' >) ; ->) ' 8) >)' D16., *0' 1 ' 6 ; / ' =1//1. ' *, *-' 620')- . ' 6. ' ,)* -' -*. =*>, +*') *60. % ' 8) 6, ' =*>; / 6- , *. ' 1 ' . *2^ , ? *2, ' ,)*. *' =6-, *. ' ? 6 ') ?*' 620' 6 ; . 62 6.' , 1' D*' ,)*' .1 ; ->*% ()*' 86//.' 12' ,)*' >-1>1- 2,) ; .' 8*-*' 2' =6-, ' *-*>, *0' D ' ,)*' *2*, 62. ' 8) 1')*/0' 1- 2,)' 1-' , 8*2^ , C +*' *6-.' 2' ,)*' ,)' >*2, ; - % () .' > , ' 620' , .' 2* 5) D1--) 6+*' D**2' 0*.>- D*0' D ' ? 62 ', -6+*//*-. ' D ; , ' 8*' ? ; . ,' *.=*> 6// ' -* *-' ,1' *69* .' BV1-*6 ' ' KKRCN ' M 12012 ' Q SXT' ; -, ; . ' % *' ' S ' M41,)6 ' Q NC QNKXT' /6-9 ' % 1' =% KCS ' M 12012 ' /. QX% **' 7.1' 6 ; / ' 5 26 + !' ' SI N._ %T 1,,' " !' ' ' ' !T' 12 D*6-*' 620' : 18.12 ' $!' ,6V' >)% L %% ()*-*' 6->' 1 ; -' 4*-? 62' ? 1215-6=) .' 12' ,)*' .; Da*>, ' 7 //>9*2. ' 5 ' + ' % = Uk' ' ' 4 ' 6% 1 ' ' M -*^ ? *2 ' T 6/.1' 2' */- >) .' !' , % ! ' K ' ._ %XT ! &6/>) ' & 4 ' ' MB*26 ' 4NXT' & 65^ 2*-' 5 ' ' % ' M 6-? .,% QK XT' 6 - ,) ' ' # ' % ' M *-/ 2 ' Q X% 1-' 6' ; //*/ ; > 06, 12' 1 ' ,)*' /; %, 1-E ' 620' ,1=15-6=) ' 1 ' ,)*' > , ' .**' ? ,) .' ' ' !' !' .% +T 1- 2,) ; . ' ,,1 ' .% + %T ? ,)' . ' % **' ' !

22, ' 1 ',) *' >) ; ->) I' ,' ,/AA.' ?1?*2,1 ; .' =*- 10 'D*^ 1-*' =6-, *.')60' D*>1?*' >12.1/ 06,*0 '620')60'0 ., 2>,^ / ' 8 ,)0-" 82' -1?' >1? ? ;2 12' 8 ,)' 12*' 621,) *-' ',) *' 6=1../*' 8- ,*.'! 620' 2' ,) *' 1 ; ,.*,' 1 ',) *' *= ../*' M>)% C + ' KX' 8*')6+*') .' 21D/*' 620' ?=6.. 12*0' =-1,*.,' 656 2.,' ,) .' 1 ;- 1/0' -*20 25' 1 ' ,) *' -1D*' 1 ')- .,% ( ) .' .= - ,'1 '0 + . 12' 6==*6-. ' D ',) *' 5110' =-1+ 0*2>*' 1 ' 410',1') 6+*' *+*2, ; 6// ' */0*0',1') .' 6=1.,1/ >' -*^ D ; 9*' 6.' ,' .' 21, >*6D/*' ,) 6,' /*?*2,'1 ' 1?*' 2') .' *= ../*' ,1',) .'>) ; ->) ' M>)% X' 6// ; 0*.',1',) *.*' *+ /.' 2.' /125' =6., I620' 6.' D ; ,' ./ 5),' >1? =6-*0' D' ,)1.*' 8) >)' *L .,*0' 2') .' 182' , ?*%' ' **' ' : ' ' ' $ ' ' ' 3! *. 0*.' ,) *' .>) . ?.' 620' ,) *' *--12*1 ; .' 1= 2 12.' 8) >)' D60' 2+60*0',) *' >) ; ->) ' 6,' 1- 2,) ' ,) *' 6=1.,/*')60' /*6-2*0',) 6,' ?62 ' ? ?1-6/ 620' 0 .1-0*-/ ' =-6>^ , >*.' 8*-*' ,1/*-6,*0' 6?125',) *? ' 620' 8*-*' 2' .1?*' >6.*./*' 0* *20*0' D ',) *? %' >122*>, 12' 1 '6' 5-1../ ' 2>*.,; 1 ; .' >)6-6>,*-')60' D**2' 1-?*0' D ' 12*' 1 ',) *' ?*?D*-. '620' 5/1- *0' 2'D ') .'D-*,) -*2' M+ ' KXT' /68^ . ; ,.' D* 1-*') *6,) *2' A ; 05*.' 8*-*' 2.. , ; ,*0' D ' 12*')- ., 62' 656 2.,' 621,) *-' M+ ' XT' / >*2, 1 ; .' 20 ; /^ 5*2>*' 86.' 21,' .1' -?/ '0*21 ; 2>*0' 620' .1' >6-* ; // ' 6+1 0*0' 6.' ,) *' =; - , ' 1 ')- ., 62 , '-*_ ; -*0' M+ ' RC K XT' ,) *' =; D/ >' ?**, 25.' 1 ',) *' D-*,) -*2' 8*-*' D-1 ; 5), ' 2,1' 0 .-*=; ,*' D ' ,) *' 81?*2' 6==*6- 25' 2',) *?' ; 2^ +* /*0' ML ' NC X' 620' 8*-*' 0 . , ; -D*0' D ' ,) *' >12 ; .' *0' 620'0 .1-0*-/ ' ?622*-' 2' 8) >)',) *' =*-.12.' =1..*.. 25' .= - , ; 6/ 5 ,*' >)1.*' ,1' *L*-> .*',) *?' ML CL +XT 620' 2' 2*' ,) *' 0 6(-6, ' 8) >)' 8*-*' 0*. 52*0' ,1' D*' .>*2*.' 1 ' /1+*' 620' ; 2 12' D*>6?*' 1>>6. 12.' 1-' 5-*6, *-' >12^ ,*2, 12' ,) -1 ; 5)',) *' .*/ .) 2*. ' 1 %',) *' 8*6/,) *-' ?*?^ D*-.%' 8) 1' 2., *60' 1 ' .) 6- 25' 2' 6' >1? ?12' ?*6/ 8 ,)' ,) *' =11-*-' D-1 ; 5), ' *6>) ') .' 182' =6., ' 620' =6-, 119' 1 ', 'D ') ?.*/ '1 ,*2', 1' *L>*.. ' 8) /*') .' 2**0 ' D-1), ^ *-' 86.' /*. ', ,1' 6..' ML ' K CN X' ( ) *' A ; 05?*2,' 1 ',) *' 6=1../*') 60' 6/.1' D**2' .1/ > ,*0' D ',) *' 1- 2,) 62.' >12^ >*-2 25' ,) *' >1?=6-6, +*' 60+62,65*.' 1 ',) *' ?6-- *?>*' 620' ,) *' >*/ D6,*' .,6,*' M+ ' C X' 6.' 8*// 6.' 6==6-*2, ^ / ',) *' 0 ; , ' 1 ')- ., 62.' 2' -*/6, 12' , 1',) *' ; .*' 1-' 110' 1 ' ?*6, ' 8) >)') 60' D**2' 1 /,*-*0' ,1' 01/.' M+ ' C NX%' 1-',) *' >1--*>, 12' 1 ',) *.*' *--1-.',) *' -*?*^ 0 25' 1 ',) *.*' 0 .1-0*-.' 620' ,) *' .1/ ; , 12' 1 ',) *.*' 01 ; D, .' ,) .' *= ../*' 86.' 8- ,,*2' D ',) *' 6=1../* N%' ( ) *' *= ../*' >12. .,' 1 ' 1 ; -'=6-, .%' ( ) *' -.,' M C D%' 600*0 ' .,' ,) 6, ',) *' 6=1../*') 60' -*6// ' 2',) .' *= ../*' .' 0*. 52*0' ,1' -*>/6 ?',) *' 1- 2,) 62.' -1?' .>) .?6, >' >12, *2, 12.' ,) *' .*>120' M+C+ X' .' 0 -*>, *0' 656 2.,' ,) *' ? ?1-6/ , *.' 1 ',) *' 1- 2,) 62.' ,) *' ,) -0' M+ CL +X' >12,6 2.' -*=/ *.' ,1' ,) *' _ ; *- *.' 600-*..*0' ,1' 6 ; / D ' ,) *' 1- 2,) 62.' 620' ,- > , ; -*.' ; =12' ,) *' 0 .1-0*-.' 8) >)' =-*+6 /*0' 2',) * -' 8 1-.) =' 620',) *' 1 ; -,)' ML+C' L+ X' >12,6 2.' 62' */6D1-6,*' 0* *2>*' 1 ' ,) *')- ., 62' 01>,- 2*' 1 ',) *' -*. ; --*>, 12' 1//18*0' 2',) *' >/1.*' 1 ' ,) *' *= ../*' D ' .1?*' 5*2*-6/ 2.,-; >, 12. ' 2, ?6, 12. ' 620' 5-**, 25. % ( ) *' 6=1../*' 1=*2.' 8 ,) ') .' ; , ; 6/ .6/ ; ,6, 12' 620' 8 ,) ' 62' *L=-*.. 12' 1 0,) 629 ; /2*..' 1-',) * -' 5*2*-6/ ..,6, *' 1 ')- ., 62' =-15-*..' M>)% ' CRX%' : *' ,) *2' 6, ' 12>*' 6=6..*.' 12', 1',) 7' /6?*2, 6D/*' 0 + . 12.' ,) *-*' 8*-*' 6?125' ,) *?' 620' 2> 0*2, 6// ' A ; ., *.') .' 182' >120 ; >, ' 620' ?10*' 1 '=-*6>) 25' M>)% ' T' +' SX' >12>/ ; 0 25' 8 ,) ' 6' 21, >*' 1 ',) *' ? .. 12' 1 ' (?1,) ' 620' 1 '62' 2, *20*0' 6 ; ,) 1-, 6, + *' + . , '12') .' 182' =6-, 'M>) ' + ' CK X%' ( ) *' 6=1../*' 2*L, ' 0*6/.' 8 ,) ',) *' >6.*' 1 ' 2>*.',) 6, ') 60' ,69*2' =/6>*' 6?125' ,) *? ' 620') 60' =-1+19*0' 21' >*2^ . ; -*' M>)% ' CQX' 21, > 25' 6.') *' =6..*.' .1?*' =-*+ 1 ; .' -*?6-9.') *') 60' ?60*' ; =12' 21, '9**= 25' >1?=62 ' 8 ,) ' 1-2 >6, 1-.' M>)% + ' RC QX%' : *' ,) *2' >1?, 2*2, .' 12' ,) *' *+ / =<6>, >*' 1 '/ , 56, 12' D* 1-*') *6,) *2' , - D ; 26/.' M>)% + ' CQX' 620' 656 2' -*+*-, .' ,1' ,) *' =/65 ; *C.=1, ' 2' 1^ - 2,) 62' / *' 1-2 >6, 12' 620' ; 2>/*622*..' M>)% + ' RCK X%' ( ) *' /6. ' . ; DA*>, ' 26, ; -6// '=6+*.' ,) *' 86 ' 1-') .' 62^ .8*-.', 1',) * -' 2_ ; - *.' 6D1 ; .' ?6-- 65*' M>)% + ' CK X' 6) 0' 6D1 ; ' ,) *' >*/ D6> ' 1 '+ -5 2.' 620' 8 018.' M>) ' + ' K C X%' ( ) *' 6=1.,/ ' 2*L, ' ?69*.' 6', -62. , 12', 1',) *' . ; DA*>, ' 1 ',) *' /68 ; /2*..' 1 '*6, 25',) 25.' .6>- >*0', 1' 01/.' 620')- ., 62' -**01?' 5*2*-6// 'M>)% + X' 8) >) /*60. ' 21, ' ; 226, ; -6// ', 1' 6' 0 5-*.. 12' 12',) *' ?622*-' 2' 8) >)') *' 86+*0') .' 6=1.,1/ >' =- + /*5*.' 620' =*- 1-?^ *0') .' 6=1.,1/ >' 0 ; , *.' M>)% LX%' : *',) *2' -*+*-, .', 1' 620' >12>/ ; 0*.',) *' . ; DA*>, ' 1 ',) *' ; .*' 1 ',) 25.' 1 *-*0', 1' 01/.' M>) % Nk7L ' X' 620' =6..*.' 1286-0', 1' -*=-1+*') .' >12^ +*-, .' 1-',) *_ -' D*) 6+ 1-' 2',) *' 6..*?D/ *.' 1 ',) *' >) ; ->) ' D1,) ' 2' -*.=*>, ' ,1' 81?*2' =-1=) *. 25' 620' =-6 25' 8 ,) ' ; 2>1+*-*0') *60.' M>) % L ' KC SX' 620' 6/.1' ,) * -' 5-*6, ' --*5 ; /6- , *.' 2' ,) *' >*/*D-6, 12' 1 ',) *' 1-0 .' ; ==*-' M>) % L ' CN X%' ( ) *2' 1//18' ; // 62002 2 ; , *' 2.,-; >, 12.' 12',) *' *L*-> .*' 1 '.=-, ; 6/ 5 ,.' M>) % L C' L +X' 2' 8) >)' .' 2>/ ; 0*0',) *' 21D/*' =62*5 - >' 1 ' >) 6-^ , ' M>) % L X' 620' ; -,) *-' 6' 0* *2>*' 1 ',) *' 01>,- 2*' 1 ',) *' -*. ; --*>, 12' 1 ',) *' 0*60' 6D1 ; ' 8) >)' 01 ; D, .' 620' 0 >; /, *.' 6==*6-', 1') 6+*' 6- .*2' 2',) .' ; 2) 6== / ' 0 ^ + 0*0' >) ; ->) ' M>) % L+X%' ( ) *' *= ../*' >/1.*.' 8 ,) ' .1?*' 0 -*>, 12.' >12>*-2 25',) *' >12, - D ; , 12.' 1-',) *' .6 2, .' 6, ' B*-; .6/*?' M>) % L+ ' 7X' D- *' 21, >*.' 1 ') ' 12>*.,; 1 ; .' >)6-6>, *-')60' D**2' 1-?*0' D ' 12*' 1 ',) *' ?*?D*-. '620' 5/1- *0' 2'D ') .'D-*,) -*2' M+ ' KXT' /68^ . ; ,.' D* 1-*') *6,) *2' A ; 05*.' 8*-*' 2.. , ; ,*0' D ' 12*')- ., 62' 656 2.,' 621,) *-' M+ ' XT' / >*2, 1 ; .' 20 ; /^ 5*2>*' 86.' 21,' .1' -?/ '0*21 ; 2>*0' 620' .1' >6-* ; // ' 6+1 0*0' 6.' ,) *' =; - , ' 1 ')- ., 62 , '-*_ ; -*0' M+ ' RC K XT' ,) *' =; D/ >' ?**, 25.' 1 ',) *' D-*,) -*2' 8*-*' D-1 ; 5), ' 2,1' 0 .-*=; ,*' D ' ,) *' 81?*2' 6==*6- 25' 2',) *?' ; 2^ +* /*0' ML ' NC X' 620' 8*-*' 0 . , ; -D*0' D ' ,) *' >12 ; .' *0' 620'0 .1-0*-/ ' ?622*-' 2' 8) >)',) *' =*-.12.' =1..*.. 25' .= - , ; 6/ 5 ,*' >)1.*' ,1' *L*-> .*',) *?' ML CL +XT 620' 2' 2*' ,) *' 0 6(-6, ' 8) >)' 8*-*' 0*. 52*0' ,1' D*' .>*2*.' 1 ' /1+*' 620' ; 2 12' D*>6?*' 1>>6. 12.' 1-' 5-*6, *-' >12^ ,*2, 12' ,) -1 ; 5)',) *' .*/ .) 2*. ' 1 %',) *' 8*6/,) *-' ?*?^ D*-.%' 8) 1' 2., *60' 1 ' .) 6- 25' 2' 6' >1? ?12' ?*6/ 8 ,)' ,) *' =11-*-' D-1 ; 5), ' *6>) ') .' 182' =6., ' 620' =6-, 119' 1 ', 'D ') ?.*/ '1 ,*2', 1' *L>*.. ' 8) /*') .' 2**0 ' D-1), ^ *-' 86.' /*. ', ,1' 6..' ML ' K CN X' ( ) *' A ; 05?*2,' 1 ',) *' 6=1../*') 60' 6/.1' D**2' .1/ > ,*0' D ',) *' 1- 2,) 62.' >12^ >*-2 25' ,) *' >1?=6-6, +*' 60+62,65*.' 1 ',) *' ?6-- *?>*' 620' ,) *' >*/ D6,*' .,6,*' M+ ' C X' 6.' 8*// 6.' 6==6-*2, ^ / ',) *' 0 ; , ' 1 ')- ., 62.' 2' -*/6, 12' , 1',) *' ; .*' 1-' 110' 1 ' ?*6, ' 8) >)') 60' D**2' 1 /,*-*0' ,1' 01/.' M+ ' C NX%' 1-',) *' >1--*>, 12' 1 ',) *.*' *--1-.',) *' -*?*^ 0 25' 1 ',) *.*' 0 .1-0*-.' 620' ,) *' .1/ ; , 12' 1 ',) *.*' 01 ; D, .' ,) .' *= ../*' 86.' 8- ,,*2' D ',) *' 6=1../* N%' ( ) *' *= ../*' >12. .,' 1 ' 1 ; -'=6-, .%' ( ) *' -.,' M C D%' 600*0 ' .,' ,) 6, ',) *' 6=1../*') 60' -*6// ' 2',) .' *= ../*' .' 0*. 52*0' ,1' -*>/6 ?',) *' 1- 2,) 62.' -1?' .>) .?6, >' >12, *2, 12.' ,) *' .*>120' M+C+ X' .' 0 -*>, *0' 656 2.,' ,) *' ? ?1-6/ , *.' 1 ',) *' 1- 2,) 62.' ,) *' ,) -0' M+ CL +X' >12,6 2.' -*=/ *.' ,1' ,) *' _ ; *- *.' 600-*..*0' ,1' 6 ; / D ' ,) *' 1- 2,) 62.' 620' ,- > , ; -*.' ; =12' ,) *' 0 .1-0*-.' 8) >)' =-*+6 /*0' 2',) * -' 8 1-.) =' 620',) *' 1 ; -,)' ML+C' L+ X' >12,6 2.' 62' */6D1-6,*' 0* *2>*' 1 ' ,) *')- ., 62' 01>,- 2*' 1 ',) *' -*. ; --*>, 12' 1//18*0' 2',) *' >/1.*' 1 ' ,) *' *= ../*' D ' .1?*' 5*2*-6/ 2.,-; >, 12. ' 2, ?6, 12. ' 620' 5-**, 25. % ( ) *' 6=1../*' 1=*2.' 8 ,) ') .' ; , ; 6/ .6/ ; ,6, 12' 620' 8 ,) ' 62' *L=-*.. 12' 1 0,) 629 ; /2*..' 1-',) * -' 5*2*-6/ ..,6, *' 1 ')- ., 62' =-15-*..' M>)% ' CRX%' : *' ,) *2' 6, ' 12>*' 6=6..*.' 12', 1',) 7' /6?*2, 6D/*' 0 + . 12.' ,) *-*' 8*-*' 6?125' ,) *?' 620' 2> 0*2, 6// ' A ; ., *.') .' 182' >120 ; >, ' 620' ?10*' 1 '=-*6>) 25' M>)% ' T' +' SX' >12>/ ; 0 25' 8 ,) ' 6' 21, >*' 1 ',) *' ? .. 12' 1 ' (?1,) ' 620' 1 '62' 2, *20*0' 6 ; ,) 1-, 6, + *' + . , '12') .' 182' =6-, 'M>) ' + ' CK X%' ( ) *' 6=1../*' 2*L, ' 0*6/.' 8 ,) ',) *' >6.*' 1 ' 2>*.',) 6, ') 60' ,69*2' =/6>*' 6?125' ,) *? ' 620') 60' =-1+19*0' 21' >*2^ . ; -*' M>)% ' CQX' 21, > 25' 6.') *' =6..*.' .1?*' =-*+ 1 ; .' -*?6-9.') *') 60' ?60*' ; =12' 21, '9**= 25' >1?=62 ' 8 ,) ' 1-2 >6, 1-.' M>)% + ' RC QX%' : *' ,) *2' >1?, 2*2, .' 12' ,) *' *+ / =<6>, >*' 1 '/ , 56, 12' D* 1-*') *6,) *2' , - D ; 26/.' M>)% + ' CQX' 620' 656 2' -*+*-, .' ,1' ,) *' =/65 ; *C.=1, ' 2' 1^ - 2,) 62' / *' 1-2 >6, 12' 620' ; 2>/*622*..' M>)% + ' RCK X%' ( ) *' /6. ' . ; DA*>, ' 26, ; -6// '=6+*.' ,) *' 86 ' 1-') .' 62^ .8*-.', 1',) * -' 2_ ; - *.' 6D1 ; .' ?6-- 65*' M>)% + ' CK X' 6) 0' 6D1 ; ' ,) *' >*/ D6> ' 1 '+ -5 2.' 620' 8 018.' M>) ' + ' K C X%' ( ) *' 6=1../*' 2*L, ' ?69*.' 6', -62. , 12', 1',) *' . ; DA*>, ' 1 ',) *' /68 ; /2*..' 1 '*6, 25',) 25.' .6>- >*0', 1' 01/.' 620')- ., 62' -**01?' 5*2*-6// 'M>)% + X' 8) >) /*60. ' 21, ' ; 226, ; -6// ', 1' 6' 0 5-*.. 12' 12',) *' ?622*-' 2' 8) >)') *' 86+*0') .' 6=1.,1/ >' =- + /*5*.' 620' =*- 1-?^ *0') .' 6=1.,1/ >' 0 ; , *.' M>)% LX%' : *',) *2' -*+*-, .', 1' 620' >12>/ ; 0*.',) *' . ; DA*>, ' 1 ',) *' ; .*' 1 ',) 25.' 1 *-*0', 1' 01/.' M>) % Nk7L ' X' 620' =6..*.' 1286-0', 1' -*=-1+*') .' >12^ +*-, .' 1-',) *_ -' D*) 6+ 1-' 2',) *' 6..*?D/ *.' 1 ',) *' >) ; ->) ' D1,) ' 2' -*.=*>, ' ,1' 81?*2' =-1=) *. 25' 620' =-6 25' 8 ,) ' ; 2>1+*-*0') *60.' M>) % L ' KC SX' 620' 6/.1' ,) * -' 5-*6, ' --*5 ; /6- , *.' 2' ,) *' >*/*D-6, 12' 1 ',) *' 1-0 .' ; ==*-' M>) % L ' CN X%' ( ) *2' 1//18' ; // 62002 2 ; , *' 2.,-; >, 12.' 12',) *' *L*-> .*' 1 '.=-, ; 6/ 5 ,.' M>) % L C' L +X' 2' 8) >)' .' 2>/ ; 0*0',) *' 21D/*' =62*5 - >' 1 ' >) 6-^ , ' M>) % L X' 620' ; -,) *-' 6' 0* *2>*' 1 ',) *' 01>,- 2*' 1 ',) *' -*. ; --*>, 12' 1 ',) *' 0*60' 6D1 ; ' 8) >)' 01 ; D, .' 620' 0 >; /, *.' 6==*6-', 1') 6+*' 6- .*2' 2',) .' ; 2) 6== / ' 0 ^ + 0*0' >) ; ->) ' M>) % L+X%' ( ) *' *= ../*' >/1.*.' 8 ,) ' .1?*' 0 -*>, 12.' >12>*-2 25',) *' >12, - D ; , 12.' 1-',) *' .6 2, .' 6, ' B*-; .6/*?' M>) % L+ ' 7X' D- *' 21, >*.' 1 ') ' 12>*.,; 1 ; .' >)6-6>, *-')60' D**2' 1-?*0' D ' 12*' 1 ',) *' ?*?D*-. '620' 5/1- *0' 2'D ') .'D-*,) -*2' M+ ' KXT' /68^ . ; ,.' D* 1-*') *6,) *2' A ; 05*.' 8*-*' 2.. , ; ,*0' D ' 12*')- ., 62' 656 2.,' 621,) *-' M+ ' XT' / >*2, 1 ; .' 20 ; /^ 5*2>*' 86.' 21,' .1' -?/ '0*21 ; 2>*0' 620' .1' >6-* ; // ' 6+1 0*0' 6.' ,) *' =; - , ' 1 ')- ., 62 , '-*_ ; -*0' M+ ' RC K XT' ,) *' =; D/ >' ?**, 25.' 1 ',) *' D-*,) -*2' 8*-*' D-1 ; 5), ' 2,1' 0 .-*=; ,*' D ' ,) *' 81?*2' 6==*6- 25' 2',) *?' ; 2^ +* /*0' ML ' NC X' 620' 8*-*' 0 . , ; -D*0' D ' ,) *' >12 ; .' *0' 620'0 .1-0*-/ ' ?622*-' 2' 8) >)',) *' =*-.12.' =1..*.. 25' .= - , ; 6/ 5 ,*' >)1.*' ,1' *L*-> .*',) *?' ML CL +XT 620' 2' 2*' ,) *' 0 6(-6, ' 8) >)' 8*-*' 0*. 52*0' ,1' D*' .>*2*.' 1 ' /1+*' 620' ; 2 12' D*>6?*' 1>>6. 12.' 1-' 5-*6, *-' >12^ ,*2, 12' ,) -1 ; 5)',) *' .*/ .) 2*. ' 1 %',) *' 8*6/,) *-' ?*?^ D*-.%' 8) 1' 2., *60' 1 ' .) 6- 25' 2' 6' >1? ?12' ?*6/ 8 ,)' ,) *' =11-*-' D-1 ; 5), ' *6>) ') .' 182' =6., ' 620' =6-, 119' 1 ', 'D ') ?.*/ '1 ,*2', 1' *L>*.. ' 8) /*') .' 2**0 ' D-1), ^ *-' 86.' /*. ', ,1' 6..' ML ' K CN X' ( ) *' A ; 05?*2,' 1 ',) *' 6=1../*') 60' 6/.1' D**2' .1/ > ,*0' D ',) *' 1- 2,) 62.' >12^ >*-2 25' ,) *' >1?=6-6, +*' 60+62,65*.' 1 ',) *' ?6-- *?>*' 620' ,) *' >*/ D6,*' .,6,*' M+ ' C X' 6.' 8*// 6.' 6==6-*2, ^ / ',) *' 0 ; , ' 1 ')- ., 62.' 2' -*/6, 12' , 1',) *' ; .*' 1-' 110' 1 ' ?*6, ' 8) >)') 60' D**2' 1 /,*-*0' ,1' 01/.' M+ ' C NX%' 1-',) *' >1--*>, 12' 1 ',) *.*' *--1-.',) *' -*?*^ 0 25' 1 ',) *.*' 0 .1-0*-.' 620' ,) *' .1/ ; , 12' 1 ',) *.*' 01 ; D, .' ,) .' *= ../*' 86.' 8- ,,*2' D ',) *' 6=1../* N%' ( ) *' *= ../*' >12. .,' 1 ' 1 ; -'=6-, .%' ( ) *' -.,' M C D%' 600*0 ' .,' ,) 6, ',) *' 6=1../*') 60' -*6// ' 2',) .' *= ../*' .' 0*. 52*0' ,1' -*>/6 ?',) *' 1- 2,) 62.' -1?' .>) .?6, >' >12, *2, 12.' ,) *' .*>120' M+C+ X' .' 0 -*>, *0' 656 2.,' ,) *' ? ?1-6/ , *.' 1 ',) *' 1- 2,) 62.' ,) *' ,) -0' M+ CL +X' >12,6 2.' -*=/ *.' ,1' ,) *' _ ; *- *.' 600-*..*0' ,1' 6 ; / D ' ,) *' 1- 2,) 62.' 620' ,- > , ; -*.' ; =12' ,) *' 0 .1-0*-.' 8) >)' =-*+6 /*0' 2',) * -' 8 1-.) =' 620',) *' 1 ; -,)' ML+C' L+ X' >12,6 2.' 62' */6D1-6,*' 0* *2>*' 1 ' ,) *')- ., 62' 01>,- 2*' 1 ',) *' -*. ; --*>, 12' 1//18*0' 2',) *' >/1.*' 1 ' ,) *' *= ../*' D ' .1?*' 5*2*-6/ 2.,-; >, 12. ' 2, ?6, 12. ' 620' 5-**, 25. %

4-**>*' M>)6=' L+ ' ST' >,.' L L ' K X' 620' D* 1-*' ,)*' >;/? 26, 2]T>' 6>,' 1 ' ?1DD 25' M8)>)' >6221,' 2' 62 ' >6.*' D*' -* *--*0',1' 2' >)6=' L+ ' NK' . 2>*' ,)*' 6=1../*' 86.' ., // 2' . 6 '>)6=' L+ ' R' 620')*' ?*2, 12.',) .' 2> 0*2,' 2' D .' 2*L,'/*,.,*-' 6.' 6' .=*> 6/= *>*' 1 '2*8 . 'K 1-% 'QX',)6,' 12/ ' .*-+*0',1' *L=*0 ,*') .'=/62' M >,.' dd ' T' >1?=' L L ' KRX% ** ' () .' 1= 2 12' .' ;-,)*-'+*- *0' D ',)*' 1//18 25' M 1 2> 0*2>*.d \>)6=% ' ' 1.,)*2*. J')*-*' 86.' 6' " '620',)*-* 1-*' 0 *-*2,' -1?',)*' =-*. 0*2,' 1',)*' . 26515;*' 6,' 1-^ 2,) ' >,.' L+ ' H')6=' ' C ST' ' T' ' CS' 6;/)60' A;.' .*2,' (?1,) ',1' ,)*?' 620' 0*. 52*0' + . ,^ 25',)*?') ?.*/ '.)1-,/ 'M >,.' L L 'K 'KKT' LL ' 'KXT' >)6=% d 'NK')*')60'.1?*', ?*=-*+ 1;./ 'D**2'+ 1/*2,C h '1==1.*0'> ! EU*F 8 6,' =)*.;.'M >,.' L L 'RXT' >)6=' L+ ' ')*')60' + . ,*0' 46/6, 6' 21,' +*- '/125' D* 1-*' M >,.' L+ 'KNXT' >)6=' L+ ' C ')*' 86.' 6D1;,' ,1' .*,' 1;,' 1-' <6>*012 6' 620',)*2>*' ,1' 1- 2,) '8)*-*')*' 0*. 52*0',1' .=*20',)*' >1? 25' 8 2,*-' M >,.' LL ' CNXT' >)6=' L+ ' Q')*' ., // *L=*>,*0',1' ..6 ' I 8' 6,' =)*.;.', // *2,*>1.,'8) >)' .,6 ' 86.' =-1/125*0', // ,)*';=-16-' 6D1;,' 626'M >,.' L L 'KK KNXT' >)6=' L+ ' ')*' 6 ,*-86-0.' 0*. 52*0',1' + . ,'B*-;.6/*?' M >,. L L ' K X' \>) 7%' L+ ' K' =1//1.' 86.' 6,') .', ?*' 2',)*' +>2 ,E7' 1 ' 6;/ 'D;,' 86.' 21,' 6D1;,',1' -*+ . ,' 1- 2,)' A).,' *,' >,.' L L ' H' T' >)6=' L+ ' R' 6;/ 86.' .;-^ -1;20*0' D ',)*' >);->)*.' 1 ' . 6 ' 2' ,)*' >6= ,6/ 1' 8) >)' _; /6' 620' - .> /6' 8*-*' 218' .*,,/*0' M >,.' L Q ' Q R K X% 26// ',)*' % 'M.1' 6-'6.' 1 ' 62 ' 6;,)1- , X' 65-**.' 8 ,)'6//',) .' M>1?=%)6=' L+ X' *L>*=,' 6.' ,1' (?1,) ' 8)1' 86.',)*2' 12') .' 86 ',1' 1- 2,)'M>)6=' + ' T' L+ ' X' \ >) 1-' -1?' K' 1-% + ' 'I Q' ,' 01*.' 21,' 2*>*..6- / ' 1//18' ,)6,' (?1,) ' M*+*2' .;==1. 25') ?',1' D1',)*-*' 6//;0*'0',1X' 0 0' 21,' + . ,' 1- 2,)' , // 6 ,*-86-0.h' 620' 6/.1' *L>*=,' 6.',1' ,)*' 06,*' 6) / == ' M,)*' D*.,'>1= *.' -*60' =)*.;.X' 62' *--1-' 1 ',-60 , 12' 6==6-*2,/ '6- . 25' -1?',)*' 6>,',)6, 6;/ 86.'01;D,/*..' *L=*>, 25',1' =6..',)-1;5)' M ,/=L ' 8',)6,'> , 'M >,.' LL 'SX% **' O '#!' M 1?=% 12 D'6-*' 620' : 18 .12 .' '6% ' '$!' 'NNX% ()*' 06,*' 6.. 52*0',) .' *= ../*' D ',)*' 1-*51^ 25'=6-, >;/6-.' .',)*' .-= 25' 1 ' % % % ()*' D*6-*;.' 8*-*' =-1D6D/ 'M6>>1-0 25',1',)*' >1? ?12' .;D.>- =, 12X' .,*=)626.' 1-,;26,;.' 620' >)6 >;.' 8)1')60' D**2' -*>*2,/ '.*2',1',)*' 6=1../*' 620' 8)1' 2',)*' >12>/;. 12' 1 ',) .' *= ../*'M>)6='L+ ' X'6-*' *.=*> 6// '>1? ?*20*0' ,1',)*')121-6D/*' -*56-0' 1 ',)*' >);->)' 1 ' 1- 2,)% 1-' .**' D*/18% ',-*6, .*.' 12' .=*> 6/=1 2,.' 8*' ?6 '26?*',)*' 1//18 25' M 2' 6, 2X' ,)1.*' 1 ' 6;.,' 1=' ,)*' 6//*5*0' /1.,' *= ../*' M -5*2,% S X' 12' ,)*' .>) .?.' 1 ',)*' 1- 2,) 62');->)' 1-.>)*;.' M:6 2' KKX' <1.)*' ?' M:*/?.,% KSX' >)1256-0' M:6 2' QNX' ,- 256' I," ' ! 'Q ' .%X' 12' /*60 25' 6D1;,' 6' 8 * J' #;.,1-=' M 1.,% S KX' & ,.,*' M ,*D' SR X' 12' 1,)*-' 26, 126/ 6//;. 12.' /*6- ;.' M =.% Q X' >)/ *5*-' M:*/?.,% NRX' & 1//*' M =.% N X' **' + $!

(: ' '>/ ' ' ' f' W' & *')6+*I'.**2' 6D1+*',)6,' 8)*2' 8-, 25') .' -.,'*= .,/*',1' ,)*' 1- 2,) 62.' 6;/ *L=*>,*0' .)1-,/ ',1' + . ',)*?'12/ '12*' 1'8) >)' 620')60' 20**0' 1-?*0' 6' 0*,6 /*0'=/62' 1 ',)*' A1;-2* % ;,' 8*' ?6 '.6 */ ' 2 *-' -1?' K' 1-% ' S S' KN',)6, 6;/)60' 21,' D**2' 6,' 1- 2,)' D*,8**2',)*' 8-, 25' 1 ',)*' -.,' 620' .*>120' *= ../*. ' .1',)6,' 8*' ? :,.'=/6>*') .' .*>120' *= ../*' +*- ' .112' 6 ,*-',)*' 1' ;.>)' 6' .>*2*' 12') 6' ..>120' >1? 25' M **' *= ../*' =-1D6D/ '12') .'6-- +6/' 6,') / == % ()*' =/6>*' 8)*2>*' ,' 86.' 8-,,*2' 86.' >/*6-/ ' 21,' =)*.;.' M.**' >)6=' 'QX' D;,' <6>*012 6' M>)6=' L+ ' T' + ' T' L' KX' 8),)*.',)*' 6=1../*' 8*2,'D '8 6 '1 '(-16.'M>)6=' ' KX' +.,' 6,*-' 86, 25' 6' .)1-,', ?*' 2',)*' /6,,*-' =/6>*' 1-',)*' -*,;-2' 1 ' (;.' M>)6=' ' NX% ()*' 6, >62' < %',)*' D;/9' 1 '/6,*-' < %' 620',)*' 1/0' -%+*-. 12' =1. ,+*^ / '6..;?*' /==' 6.',)*' *L6>,'=/6>*' 8)*2>*' ,'%86.' 8-,,*2' ,),6,',)*')*6-*-.' 8*-*' (,;.' 620' .' 6..1> ^ 6,*.' M ;9*' HX' .'6==6-*2,/ '.;D.,8 , 6,*0' D '>)6='+ ' KNT' L' N' %

()*' 1//18 25' >1 2> 0*2>*.' 8 // .*-+*',1' *.,6D/.)' ,).' 06,*d >)6=' ' ' (?1,) 'M8)1')60' 218' -*A1 2*0' 6;/ D' 86' 1' 1- 2,)' ' 1-% L+ ' X' 86.' 2' 6;/.'>1?=62 'M >,.' LL' XT' >)6=' 'Q' 6;/)60' /6,*^ / '*,>6=*0' 0*6,)' 6,' =)*.;.' M >,.' L L ' N XT' >)6=' ' S')*' D60' 1- 5 26// ' 2,*20*0',1' 51',)-1;5)' 1-^ 2,)',1' <6>*012 6' 620'-*,;-=',)-1;5)' 1- 2,)',1' B;C 0.*6' D;,';=12'-*>* =,' 1',)*' 2 1-?6, 12' 8)>)'>6//*0' 1-,)') .' -.,' *= .,/*')*' D60' .1' 6-' 6/,*-*0') .' =/62' M>)6=' ' T' ' 1-% + ' Q RX' 6.',1' 0*,*-? 2*',1' 1-*51' ,)*' -.,' 1 ',)*.*' + . ,.' ,1' 1- 2,)' 620',1' ?69*' ,)*' .*>120' 6' /125*-' 12*' M ' 1-% L+ ' X' 620')*' 86.';/,^ ?6,*/ '>1?=*//*0',1' =6..' ,)-1;5)' <6>*012 6',1' 1-^ 2,)' 620' -*,;-2' ,)-1;5)' <6>*012 6',1' B*-;.6/*?' M >,*' d d ' CNXT' >)6=' ' K N' 12') .' 86',1' <6>*01^ 2 6'. 2>*' 8-, 25',)*' -.,' *= ../*')0')60',1;>)*0' 6,' (-16.'M6.';.;6/' >,.' L+ ' T' LL 'SX' D;,'0 0' 21,'..6 12' 6>>1;2,'1 '(,;..' 6D.*2>*' 8)1' 6 ,*-86-0.' ?*,') ?' 2' <6>*012 6' 8 ,)' 2,*// 5*2>*' 1',)*' 5110' * *>,.' 1') .' 1-?*-'/*,,*-' M>)6='+ ' C XT' >)6='+ ' T' L' K' ')*' 86.' 218' 2' <6>*012 6' M >,.' LL' KXT' >)6='+ ' S SC Q KK KN',) .'/*,,*-' 86.' .*2,' DE' (,;.' M>1?=6-*' % 8' M >,*' LL' XT' >)6='+ ' T' L' K' 76;/ 86.' >1//*>, 25' ;20.' 1-',)*' >);->)' 6,' B*-;.6/*?' M >,.' dd ' SX' 620')60')*6-0' 1',)*' 1- 2,) 62.'-*60 2*..',1' >12,- D;,*' 6' *6-' .2>*' =-1D6D/ 'D ' =1//1.' 8)1')60' 218' -*,;-2*0',1' =)*.;.' M >,.' L L ' '>1?=6-*0' 8,)' ' 1-% L+ ' KX% 26// ',)*' % '*L6>,/ ',6/^ / *.' 8 ,)',)*.*' =6-,>;/6-.' T' >1?=%)6='+ ' Q' KK% M **' 12 D*6-*' 620' : 18 .12 .' ' '6% ' '$ ' ' 'R %X

K% -1?' K' 1-% ' T' L ' T' L ' 'K' ?62 ' D6-* 2 *--*0',)6,' D* 1-*' 8-, 25',) .' *= ../*' 6;/)60',>*' + . ,*0' 1- 2,)' 620',)6,' 12*' 1',)*' + . ,.')60' D**2' 6 ,*-',)*' **>120' 1',)*.*' + . ,.')6.' D**2' ?1.',=/6;. D/ ' 6.. 52*0',1',)*' 6=1../*.',)-**' *6-..',6 '6,' =)*.;.% 1')-A7.1.,1?' 620') .' 1//18*-.' >;?*2 ;.' 620' ()*'(1=) /6>,' 620' 2'-*>*2,', ?*.' < ;//*-' ID8' ' ' !' 6. /' QN X' 25*-' I5 2(- %'=% '._% & * *(/*-' I " !'=% KNRX' 620',)*' ?6A1- ,' 1' ?10*?*>-,^ >.% /.)6;.*2'601=,.' 6',, // ?1-*' >1?=/ >6,*0',)*1-' I ' +' K'._77 ?'*0 X% & *')6+*' .**2' 6D1+*'),6,',) .' + . ,'0 0' 21,',69*' =/6>*' D*,8**2',)*' ,81' *= .^ ,/*.' 620' 6.' ,' >6221,' D*' 6.. 52*0',1' ,)*' 6=1../*.',)-**' *6-..',6 '6,' =)*.;. *6..' 52*0',1',)*' 6=1../*.',)-**' *6-..',6 '6,' =)*.;.% 1')-A7.1.,1?' 620') .' 1//18*-.' >;?*2 ;.' 620' ()*'(1=) /6>,' 620' 2'-*>*2,', ?*.' < ;//*-' ID8' ' ' !' 6. /' QN X' 25*-' I5 2(- %'=% '._% & * *(/*-' I " !'=% KNRX' 620',)*' ?6A1- ,' 1' ?10*?*>-,^ >.% /.)6;.*2'601=,.' 6',, // ?1-*' >1?=/ >6,*0',)*1-' I ' +' K'._77 ?'*0 X% & *')6+*' .**2' 6D1+*'),6,',) .' + . ,'0 0' 21,',69*' =/6>*' D*,8**2',)*' ,81' *= .^ /6D1-.' 6-*' >12 2*0'0';- 25',)*' 8)1/*' ,?*' 2' _:.,. 12' ,1' =)*.;.' M.**' >,.' L L ' KK' >1?=6-*0' 8,)' LL' N X% 1-' .' ,) .') =1,)*.. ' 2*>*..6- T' ,)*1=6..65*.'),6,'.**?',1' ?=/ '62' 2,*20*0',) -0'+ . ,' 8)*2' >6-*^ ;// '*L6? 2*0' ?*-*/ '.=*69'1 '6',) -0' '+- % ' ,d , +' >)6='L ' '01' '.,6,*',81' 6>,;6/=- 1-' + . ,.,' 6.' >12,*20*0' D ' / 1-0' ' 2'/1>% T .**' / 1-2*.' 2' '2*8' *0% +' KRX',1' + . ',)*?'12/ '12*' 1' 8) >)')60')*-*,1 1-*' D**2' .;>>*.. ;/ M >,.' L+ ; ' T' >1?=% K' 1-% ' XT' 620' 2' / 9*' ?622*-' ,)*' .*>120' >1? 25' ,1',)*?' 2')*6+ 2*..J' 620') ; ?D/ 25 J' 2.,*60' 1 '0*=^ -*>6, 25' 6' .*>120' .;>)' .>*2*' . ?=/ ' 2, ?6,*.',)*=1.^ . D / ' 1 ' .;>)' 6' .>*2*' 12') 6' ..>120' >1? 25' M **' *= ../*' =-1D6D/ '12') .'6-- +6/' 6,') / == % ()*' =/6>*' 8)*2>*' ,' 86.' 8-,,*2' 86.' >/*6-/ ' 21,' =)*.;.' M.**' >)6=' 'QX' D;,' <6>*012 6' M>)6='+ ' T' + ' T' L' KX' 8),)*.',)*' 6=1../*' 8*2,'D '8 6 '1 '(-16.'M>)6=' ' KX' +.,' 6,*-' 86, 25' 6' .)1-,', ?*' 2',)*' /6,,*-' =/6>*' 1-',)*' -*,;-2' 1 ' (;.' M>)6=' ' NX% ()*' 6, >62' < %',)*' D;/9' 1 '/6,*-' < %' 620',)*' 1/0' -%+*-. 12' =1. ,+*^ / '6..;?*' /==' 6.',)*' *L6>,'=/6>*' 8)*2>*' ,'%86.' 8-,,*2' ,),6,',)*')*6-*-.' 8*-*' (,;.' 620' .' 6..1> ^ 6,*.' M ;9*' HX' .'6==6-*2,/ '.;D.,8 , 6,*0' D '>)6='+ ' KNT' L' N' %

()*' 1//18 25' >1 2> 0*2>*.' 8 // .*-+*',1' *.,6D/.)' ,).' 06,*d >)6=' ' ' (?1,) 'M8)1')60' 218' -*A1 2*0' 6;/ D' 86' 1' 1- 2,)' ' 1-% L+ ' X' 86.' 2' 6;/.'>1?=62 'M >,.' LL' XT' >)6=' 'Q' 6;/)60'/6,*^ / '*,>6=*0' 0*6,)' 6,' =)*.;.' M >,.' L L ' N XT' >)6=' ' S')*' D60' 1- 5 26// ' 2,*20*0',1' 51',)-1;5)' 1-^ 2,)',1' <6>*012 6' 620'-*,;-=',)-1;5)' 1- 2,)',1' B;C 0.*6' D;,';=12'-*>* =,' 1',)*' 2 1-?6, 12' 8)>)'>6//*0' 1-,)') .' -.,' *= .,/*')*' D60' .1' 6-' 6/,*-*0') .' =/62' M>)6=' ' T' ' 1-% + ' Q RX' 6.',1' 0*,*-? 2*',1' 1-*51' ,)*' -.,' 1 ',)*.*' + . ,.' ,1' 1- 2,)' 620',1' ?69*' ,)*' .*>120' 6' /125*-' 12*' M ' 1-% L+ ' X' 620')*' 86.';/,^ ?6,*/ '>1?=*//*0',1' =6..' ,)-1;5)' <6>*012 6',1' 1-^ 2,)' 620' -*,;-2' ,)-1;5)' <6>*012 6',1' B*-;.6/*?' M >,*' d d ' CNXT' >)6=' ' K N' 12') .' 86',1' <6>*01^ 2 6'. 2>*' 8-, 25',)*' -.,' *= ../*')0')60',1;>)*0' 6,' (-16.'M6.';.;6/' >,.' L+ ' T' LL 'SX' D;,'0 0' 21,'..6 12' 6>>1;2,'1 '(,;..' 6D.*2>*' 8)1' 6 ,*-86-0.' ?*,') ?' 2' <6>*012 6' 8 ,)' 2,*// 5*2>*' 1',)*' 5110' * *>,.' 1') .' 1-?*-'/*,,*-' M>)6='+ ' C XT' >)6='+ ' T' L' K' ')*' 86.' 218' 2' <6>*012 6' M >,.' LL' KXT' >)6='+ ' S SC Q KK KN',) .'/*,,*-' 86.' .*2,' DE' (,;.' M>1?=6-*' % 8' M >,*' LL' XT' >)6='+ ' T' L' K' 76;/ 86.' >1//*>, 25' ;20.' 1-',)*' >);->)' 6,' B*-;.6/*?' M >,.' dd ' SX' 620')60')*6-0' 1',)*' 1- 2,) 62.'-*60 2*..',1' >12,- D;,*' 6' *6-' .2>*' =-1D6D/ 'D ' =1//1.' 8)1')60' 218' -*,;-2*0',1' =)*.;.' M >,.' L L ' '>1?=6-*0' 8,)' ' 1-% L+ ' KX% 26// ',)*' % '*L6>,/ ',6/^ / *.' 8 ,)',)*.*' =6-,>;/6-.' T' >1?=%)6='+ ' Q' KK% M **' 12 D*6-*' 620' : 18 .12 .' ' '6% ' '$ ' ' 'R %X

K% -1?' K' 1-% ' T' L ' T' L ' 'K' ?62 ' D6-* 2 *--*0',)6,' D* 1-*' 8-, 25',) .' *= ../*' 6;/)60',>*' + . ,*0' 1- 2,)' 620',)6,' 12*' 1',)*' + . ,.')60' D**2' 6 ,*-',)*' **>120' 1',)*.*' + . ,.')6.' D**2' ?1.',=/6;. D/ ' 6..

=/*,12'& 'M 2,% R'._%'N'+1/.%Q+1XT 1//1>97' '>;?' V' %'.>6,1-.'M:*-D1-2%' S ' B*2% S K'Q+1XT ;25*'' % 2 'M ,*-6D% S S' ,1XT ,*;6-,' 'M 251/0.,60,' S Q' ,1XT &* ,->)' - 'M =.% S R S ' ,1XT 1;,C' [*2' 'M 1/12% SN' 1/%XT% *-*[' ' %%%' ' 'M 6-> 2% SNK' 1/%XT >/6,*-'6 % 'M L12% SNN' ,1XT &6206/2.' =6-6=)-6.*' M 2' 62.)' 1^ =*2)65*2' S Q' ,1XT 6/?*-12'' % 'M 2' L%%%!' L +XT 1>>* ;.' M 2' ,%%((8(1' -* ,)6;=, 'M:6/% SRS' ,1XT I *-?622' N + ' M(-% 6%)% CQ' N' +1/.' ,1XT 1>9*' 7 'M 120% NN' ,1XT *22 5*-'6 'MU;-% R' Q+1XT I 6;?56-,*2'& 'M:6/% S ',1XT I<1.)* ?' M*0% & 20)* ?X'6 + 'M /*2.D% SN' K'+0/.% ,1XT *?/*-' %" ' '620' S' K'+1/.%Q+1XT <1/0*2)6;*-'6 + 'M:6?D% 'Q+1XT >);/[' ; '!' !') 'M:6/% Q C K'+1/.' 2' Q+1XT U6>)C' 6-6'>0% 1/D1-,)'& +!' M41,,% QS' K'+1/.%Q+1X7' ,1--' 7 'M(;D 25% QQ' ,1XT 41=*-,'& +!' M =H% QQ' Q+1XT <1-;.'6 + !' M >=[% R'Q+1XT & -,D'n 8!' !';' !' !') 'M$/? QK 'Q+1XT 1,,' & 'M4;,, 25' QKS' Q+1XT /6,,' N ' M(;D% QK Q+1XT 1,) 62' 'M O 2D% QKQ Q+1XT !7 //-1,)' 'M =[% QNN' Q+1T ,-62./%D'& % % /*L620*-' O 2D% QN CQ' K'+1/.% K?1XT I ,>9C *-,' 'M =[% QNSC 'K'+1/.%Q+1XT B65*-'6 J + !' M(;D% QN 'Q+1XT 4% CCCCC'6 % 'M 120% Q K' K?1XT I ,62/* '7 1'*,>% M 120% Q ' QSK' QS 'K'+1/.%Q+1XT :105*'6 % 'M % % Q CS ' K'+1/.% K?1XT <6>-' 'M -* D% Q CS '7' +1/.%Q+1XT . 620*-' 'M ,;,,5% Q ' Q Q' K'+1/.%Q+1XT 1D*-,.12' 'M 12012' Q R QS ' Q+1XT I *620*-'& 'M 2' .'-" !' N 1' >O% * .>)/65' *-/2' Q R'Q+1XT / 25' ' M ,*D% QS 'Q+=X% **' > / ! 2',D*' 8/1/*1',)*' '*=../*'6/12*% 6?=.12' D %!'% !' ' !' M 12012' S'Q+1XT <6-,E(' ' 'M(5;-% ' SN' ,1T SQ' QR' 1/%XT :6?1'- 'M 2' ;>)* '$% ' 'KXT:;.' 6 % 'M 2' 1' 'QNXT 1+ //12;.' 'M C' ,*?D% S 'Q+1XT -6*0*2;.' 'M 2' L%%%!' 6./% SN' 1DXT 20-*6.' M -62> 1-,' Q Q+1XT <6,)*. ;. M =[%' R' 1/%XT ,*;6-,' 'M 251/.,% R' ,1XT <1-,12'6 % ' M 120% RS'Q+1XT < /*'6 % 'MB*2% S 'Q+1XT 6/0*. ;.' 1?? *2,6- 'M 2' =62.)'8 ,)1;',06,*' 1-' =/6>*XT -*//' '\12'>).% CL'L+h' M 6>1+% SN 'Q+1XT ;-5*..' 'M 12012' S R' 1/%XT 5/, 11,' !'# " !' M 62,6D% SS ' ?.,% S ' =.% S R' ,1XT >)?0' %" 'M:6?D% SR ' SRS' ' ,1XT :;D>-/2'6 % 'M(;D% SRRXT I 1C 2/25.' 1? -,% M 2' ;,>)' 1-,' K ,1XT I 9*-./11,' N 'M * 0*2' ' ,1XT 62' (/' N + M ?.,*-0% N' ,1XT I<1.)* ?'6 + 'M /,% 620' /*2.D% ' ,1XT >1/6 ';" ' M =[% ' ,1XT *6->*' %" 'M 2' XT 6)/' 9 %" 'M 1=*2)% R' ,1XT ,- 256' 6 M -62*,% Q CR' ,1XT -6;.*' & 'M -62>1 % RK' Q+1' +1/% XT' 6/>9*26*-' $" ' M*0% &6g.*2C D -5)' ?.,% Q '._%XT :* 0*2-* >/' ' M<6-/X;-5' QK QKQ' K'+1/.%Q+1XT (1//* ' %" ' M 120% QK 'Q+1XT * /1' & 'M 12012' Q Q' Q+1XT ;-5*-'6 + !' M -/625% Q R' Q+1X% 2',)*' '*=../*% :*.);.;.'6 % ' M:>/?.,% Q Q+1XT I 12 25.' 'M 2' ;,>)' ?.,% ?1-62,' D -0.'1',)6,'5*2;6'H-> 21'01;D,' 1;20'12',)1' Q'*2/6-5*0'$,-*>),' K ,1XT OO';' ' M *?51' Q Q+1XT *62'& 2 'M *?51' Q ' Q+1XT 1 26-0.'' % 'M(-% 60' /% Q R' Q+1XT -,[.C' 7 ?? *-/25' 'M =.% QKN' Q+1XT -,[.C' >)*' ' 'M =.% QK 'Q+1XT I >)6-/25' 12C' 'M 1=*2)% Q 'Q+1XT (;-2D;//' - ' M 120% Q RX% **' > / ! A (: ' / #/' '>/ ' ' ' + < ! ()*-*' 6->',81'.;>)'/*,,*-.'*L,62,' 2',)*' -^ ?*2 62' /625;65*a',)*' -.,' .' -" '6% ' " ' " ' ' " ' &% 1(J' 620',)*' .*>120' 6% ' ' " ' &% " !1(()*'8*-*' *+ 0*2,/'D6.*0';=12',)*' *6-/'D*/*',)6,' ,)*' 6=1./,*')60' 8-.,,*2',1',)*.*' >12+*-,.'?1-*',)62' ,8 >*% ()*-'.=;-.1;.2*..')6.'D**2'.)182'D' 6-=[1+' I16% ' ' % (%" 1' *,>% =.% SX' 620' $//?62' I " 'D "!' QKN'+X% ()*'1-5 26/ -?*2 62' 8,)'6',-62./6,12'8 //'D*' 1;_0' 2' ;>)*-'&' !'? = 'M=% NC S X' ,'86.'6/.1' *0,*0'D' 29'M:*0*/D% QK X% ()*.*'*= ../*.'6-*',-62./6,*0' 2,1' -6D>' 6,^ 2'620' 25/.)'2' &),12.'& " '5 'M ' Q CS X% ()*-*' 6-*'6/.1' '- '6% ' ' ' " ' " P' *L,62,',)*' .*>120'1' 8)>)'6,'/*6.,' .' =-1D6D/' 6=1> 7=)6/% **' ' /' 9 ! 2' 25/.)'+*-.12'1',)*?'*L .,' 2' &69*.'&% '@ " !' **' > / '>$% 9 (8! 1-;,)';.'M 1= VN1>X'62' -6D 62'12*'1':*-10.' D10 C5;6-0*5-*6,/',-;..,*0'D')?',// 6--*.,*0'1', 2 1-?6,12'D' 6D6,;.'1'D*25' D-D*0'D' //6*;.' ,1'9//).'?6.,*-'8)>)'>)*'>12*..*0'12',1-,;-*'620' 86.'.*2,'D' 6,;?2;.',1' 1?*' 1-'=;2.)?*2,'MB1^ .*=);.'& !'L+'N'K'T (6-' 'KR'NX% 1-?6>' $ '6'D.)1='620'9 25'1'<;2^ .,*-'H2' -*/620'86.'D1-2' % %QN % :*' 86.',)*'6;^ ,)1-'1-'>1//*>,1-'1',)*' ' ' 1'6'81-9',)6, 0*,6/.',)*'-1?6 >>.'1'M)*'<'/*.62'9 25.'6'>1='1' 38)>)'2',)*'-.)'/625;65*'6>>1-0 25',1'<11-*'># 9 ' ' E'86.'.**2'2' ?*-'>9'6.'/6,*'6.' K' :*'.=*2,'2*6-/')'.'8)1/*/*'2',)*'0;,*.'1'-*/5 12' 620'=;-.;,.'1'/,*-6,;-*'1;20 25'2;?*-1;.'.>)11/.% ;,'D* 25'9 25')*' 86N 1->*0',1' 5),% *1-*')' -.,'620'12/'*2565*?*2,')*'?60*')'.'8 //'6..*?^ D/*0')'.'D.)1=.'26?*0')'.';>>*..1-'56+*',)*?'5110' 60+>*'.6 0')*'81;/0'0*' 2'D6,,/*'8*2,' 2,1' ,'620' 0*0% M 1-?1-62,% ()*-*'6->',81' :*D-*8'81-0.',);.' ,-62./6,*0' 2'1;-'+*-.12% M **' 1>)6-,';' !/!' K'._%X % >" "W',)6,'8)>)' ' ,.*/' ':' *=,% /-6=/0 (,%;/5% 1' -% 620')6/0' "=' " :'1>>;--25'12/'2' *+%L' T *;,% L+' X' 2'>1?212'8,)',)>7.;6/4-**9'+*-.12') % 1' .'>12.0*-*0',1')6+*'-* *-*2>*',1'06-,25'-;.)25'1-' .,11=25'/9*'6'6/>12T 620 6>>1-0 25/A7')6.'D**2' 6^ -1;./'6==/*0',1',)*'*65/*',)*'A*-6/>12',)*'5622*,' ,)*'5-*6,'5;//'620',)*'>1-?1-62,% ()*'=6..65*.' 8)*-*','1>>;-.'12/'2 1-?',.',)6,',86.'62'; 2>/*62' D-0'620'6..1>6,*',8,)',)*'5;//%J ,.'6==6-*2,'4-**9'26?*' ',)1;5)'21,>*0' D'.*+*-6/6;,)1-.'.'21,'6/86.'-* *--*0',1',)*'.6?*' 5*2;.'.1?*'?69 25',' 6'?21-'5;//'1,)*-.'6'0+*-% ;+*-',)29.'4*.2*-'-5),'2'>12.0*-25',',1'0*21,*' 6'5;//'620',>*-,6 2/'?5),'D*'6==/*0'8,)'=-1=-*^ ,',1',)*'D/6>9CD6>9*0'5;//'1-',1',)*'5/6;>1;.'1'),;, 6/,)1;5)'D-0.'1'.;>)'=18*-;/8 25'620'?6-2*+ "=' 6-*.=-*60'1+*-'6'5-*6,'=6-,'1',)*'8>-0' ,'01*.' 21,'6==*6-',)6,''92182'6',)*'*L,-*?,'1',)*'<*0^ ,*--62*62',)*'8*-*.;>*2,/'>1?212',1')6+*' D**2'>/*6-/'20>6,*0'D'>,)*-',)*':*D-*8'1-2-**9' 26?*.'1-',1'6+*'?*-,*0'D*25'21,>*0'2',)*'/7>.6' =-1)D,12' 1,)',)*'6D1+*'6->'2'5*2*-6/21-,)*-2' -*.0*2,.'D*25'-6-*/'.**2'+*2'.1'/18'6.',)*'6'1' .>6A7'620',)*'.=*>*.'218'>6//*0' *.,-.'>6,6-6>' ,*.J .'*L>/;.+*/'->,>'&,)'-*56-0',1',)*'>1-^ 1-62,'D-0.'1',)6,'5*2;6'H-> 21'01;D,'1;20'12',)1' >16.,.'1'6/*.,2*'8)*-*')5)'>/.'*L,*20',1')1' .*6C.)1-*'.;>)'1-'*L6?=/*'6.',)1' % .'D;,'6//',)*'.=*>*.'0+*'620'./01?'*+*-' -;.,)'/25';=12',)*'-'=-*',)1;5)',)6,'6D,'6)6.7 D**2'>/6?*0'1-',)*?'D'>1?2*,6,1-.'8)1',)6+*' ?L*0';=',)*'26,,-6/')..,1'1'>1-?1-62,.'38,)' ,)6,'1',)*'.;/6J'1-'56-,2*,7'8)>)'-*6// '06-,.' -1?'5-*6,'*/*+6,12.'2,1',)*'6',1'>6,>)',.'=-*' -.25',1',)*'.;-6>*'.1?*,?*.'2*6-/')6/'6'?2;,*

after the plunge. But the gannet (solan goose) rarely comes further south than the British Channel, and does not appear to have been noticed in the Mediterranean. It is true that several other marine birds of the North frequent the Levant, but none of them can entirely claim Aristotle and Oppian's characters of "cataractes;" for, though the wide throat and rather large head of the dwarf cormorant may be adduced, that bird exceeds in stature the required size of a small hawk, and fishes, it may be repeated, swimming and diving, not by darting down on the wing, and is not sufficiently numerous or important to have required the attention of the sacred legislator.

Thus reduced to make a choice where the objections are less and the probabilities stronger, we conclude the *shalak* to have been a species of "tern," considered to be identical with the *Sterna Caspica*, so called because it is found about the Caspian Sea; but it is equally common to the Polar, Baltic, and Black Seas, and, if truly the same, is not only abundant for several months in the year on the coast of Palestine, but frequents the lakes and pools far inland, flying across the deserts to the Euphrates, and to the Persian and Red Seas, and proceeding up the Nile. It is the largest of the tern or sea-swallow genus, being about the weight of a pigeon, and near two feet in length, having a large black-naped head, powerful, pointed crimson bill, a white and grey body, with forked tail, and wings greatly exceeding the tips of the tail; the feet are very small, weak, and but slightly webbed, so that

Caspian Tern.

it swims perhaps only accidentally, but with sufficient power on land to spring up and to rise from level ground. It flies with immense velocity, darting along the surface of the sea to snap at mollusca or small fishes, or wheeling through the air in pursuit of insects; and in calm weather, after rising to a great height, it drops perpendicularly down to near the surface of the water, but never alights except on land; and it is at all times disposed to utter a kind of laughing scream. This tern nestles in high cliffs, sometimes at a very considerable distance from the sea. (See the *Penny Cyclopædia*, s. v. Tern.)—Kitto, s. v. Salach.

2. קָאַת (*kaath'*), rendered "cormorant" in our version in Isa. xxxiv, 11; Zeph. ii, 14, is elsewhere translated "PELICAN," q. v.

Greater Cormorant (*Phalacrocorax Carbo*).—The bird in front is in full plumage, that behind in its Spring dress.

The cormorant belongs to the natural order of the *Pelicanidæ* of Linnæus, and the species have the characteristic habit of watching on high cliffs, and, on perceiving a fish in the water, of darting down like an arrow and seizing its prey. The "greater cormorant," however, more frequently shoots along in a line nearly close to the surface of the water, or, sitting on the wave, dives after the prey. It is trained to fish for man's use in China. It is common on the coasts of Syria and Palestine; Rauwolff saw numbers of them along the sea-washed crags of Acre, which he mistook for sea-eagles. The cormorant is a widely-diffused genus, and is found in almost every country in the world. (See the *Penny Cyclopædia*, s. v. Pelicanidæ.) The large kind weighs about seven pounds, and is nearly of the same size as the goose; it lives upon fish, and has a long, straight, and compressed bill, with the upper mandible hooked at the point, to confine the prey with the greater security; its head and neck are of a sooty blackness, more resembling in figure those of the goose than of the gull. Its distinguishing character, however, consists in its toes being united by membranes, and by the middle toe being notched like a saw, to assist it in holding its fishy prey. On the approach of winter these birds are seen dispersed along the seashore, and ascending the mouths of rivers; they are remarkably voracious, and have such a quick digestion that the appetite appears insatiable. They build their nests on the highest parts of the cliffs that overhang the sea; the female usually lays three or four eggs about the size of those of a goose, and of a pale green color. See BIRD.

Corn. There are several words thus translated in the English version of the Scriptures, in which it is used in the proper sense of *grain* of any kind, and never in the American application of maize or "Indian corn" (*Zea mays* of Linn.), which it is generally thought was anciently unknown. In 1817, Parmentier (*Nouveau Dictionnaire d'Hist. Naturelle*, vol. xviii), founding on the silence of Varro, Columella, Pliny, and the other agricultural and botanical writers of classical antiquity, concluded that maize was unknown till the discovery of America; and in 1834 Meyer asserted that "nothing in botanical geography is more certain than the New-World derivation of maize" (quoted by Duchartre in Orbigny's *Dict. d'Hist. Natur.*). But since then, in the magnificent monograph (*Hist. Naturelle du Maïs*, 1836), M. Bonafous, the director of the Royal Garden of Agriculture at Turin, has shown that it is figured in a Chinese botanical work as old as the middle of the sixteenth century—a time when the discoveries of Columbus could scarcely have penetrated to the Celestial Empire; and, what is more conclusive, in 1819 M. Rifaud discovered under the head of a mummy at Thebes not only grains, but leaves of Indian corn. Nor is it at all impossible that the ζειά of Homer and Theophrastus may include the plant in question. The wide diffusion of this corn through the Indian archipelago, and on the Indian continent itself, is in favor of the hypothesis which claims it as a native of the Old World; and if it was known to the Egyptians, nothing could be more natural than its early introduction into Palestine.—Fairbairn, s. v. See CEREALS.

1. The word דָּגָן, *dagan'* (from its *increase*), which is rendered "grain," "corn," and sometimes "wheat" in the Auth. Vers., is the most general of the Hebrew terms representing "corn," and is more comprehensive than any word in our language, seeing that it probably includes not only all the proper cereals, but also various kinds of pulse and seeds of plants, which we never comprehend under the name of "corn," or even of "grain." It may therefore be taken to represent all the commodities which we describe by the different words corn, grain, seeds, pease, beans. Among other places in which this word occurs, see

4*2%LL- 'KQCN T ;?%L+ 'K T *2,'LL+ ' T 6?% ' K'*,>% **' &$!

K% ()*-*' .' 621,)*-' 81-0'7N'" 'M%*% 81' 8)>)'0*21,*.' 62 '9 20'1'>/*62.*0' >1?',',)6,' .'>1-2' =;- *0' -1?',)*' >)6 '620' ,' 1-' ;.*' M4*2%L/ 'N C' RT -1+%L 'KST B*-% +' T B1*/ 'K X% ()*'.6?*' 81-0' .'?1-*'-6-*/ ';.*0',1'0*.>-D*'>1-,' 2'6'5-18 25' .,6,*'M .6% L+' NX% ,'*/.*8)*-*' . 52 *.',)*' 1=*2' `7 */0.J'1-'>1;2,- % **') !

N% ()*'81-0' " ("' 'I + 1'%*%5-.,X'8)>)' .'.1?*, ?*.'-*20*-*0'>1 2'0*21,*.' 2'6'5*2*-6/ .*2.*' '=-1+ . 12.J' 1-' '+ >,;6/. J' 620' D ' >12.*_;*2>*' ``>1? J'6.',)*'=- 2> =6/6-, >/*' 2'6//=-1+ . 12.'M4*2% L/ ' 'K'K T L10% + ' T *)% L'NK' *,>%X% **' $!

% ()*'4-**9' '>1--*.=120.',1',)*' -.,',81'1' ,)*'6D1+*' :*D-*8'81-0.'1-'8)>)' ,'1 ,*2' .,620.' 2' ,)*' *=,% M<6,,' ' KT ;9*' ' T B1)2'L 'K T >,.'+ 'K'*,>%X% **'> 'I '>1?X%

()*' 17*-' +1-0.'1>>6. 126// ',-62./6,*0' >1?J' 2',)*' D/*' 6-*' " N'MB1D' LL + 'SX'J11% A

(P M .6% LLL 'K X'1-' 100*-J' MB1D' + ' XT' A7 ' 1 C' ->(UM 1;,%L+ ' NX'*/.*8)*-*' " + =D 'P'

J ' M *;,% L+ 'RT .6% L+ ' X'[]((' >1? J' 6.'1,*2' */.*8)>-*' 'MB1)2' L 'K X'6' (] (M 1 '62 '9 20'6.'>/.* +)*-*' 620'I % 'M<6,,'L ' X' 6' >1?C >/0 J'6.'*/.*8)*-*' D*. 0*.'9 20-*0'1-'0 ^ *-*2,' ,*-?.' -*20*-*0' 'D*6,*2' >1-2 J' ',620 25' >1-2 J' *6-.'1'>1-2 J')*6='1'>1? J' >1-2' 5-1;20 G' *,>% ' . 25/*' *6-' .' 2 .1 ' " " (+:' =1;20*0' 8)*6, J' %+ "(MK 6?%L+ ' RT -1+%LL+ L KKX% ()*' ?1.,'>1?? 12' 9 20.' 1 '>1-2' 8*-*' " ' 262 ' 2 "(:' ' (/DD ' "(:' % 'M T %' L10% L'NK'620' .6% LL+ 'K ' [*9% +'R ,>)1.JX' M1-' 2'=/;-% 1-?

" ((8' 620' ' " S' 16,.' 6-*' ?*2^ , 12*0' 12/ ' D ' -6DD 2 >6/ 8-,*-%e% ()*' 01;D, ;/ 81-0' D' '-*20*-*0' =- 2> =6/ J' 6.'62' * X0C ,)*,'1'8)*6,' 2',)*' % 1' .6% LL+ 'K ' .'=-1D^ 6D/ '21,'0 ., 2>, +*' 1 '62 '.=*> *.' 1 '5-6 2' M.**' 4*.>C 2 ;.' Q% %X% ()*'0 *-*2,'=-10;>,.'>1? 25';20*-',)*' 0*21? 26, 12' 1'>1-2' 6->' 21, >*0' ;20*-' ,)*' ;.;6/)*60.' 6.' 8 # ' " ' ' *,>%T ,)* -' >;/,;-*' ;20*-' $ $ g,)* -'=-*=6-6, 12';20*-'8 ' ' ' *,>%

1-6' >-1=.'6-*' ., // -*>912*0'6,',8>2/ C 1/0' 8)6,' 86.' .182'620' 8*-*' 62> *2,/ ' ?;>)' ?1-*' ' *+*2' >6-.' 12' 12*' .,6/9' M4*2% L/ ' KKX' .' 21' ;2;.;6/ =)*^ 21?*212' 2' 5 =,' 6,' ,) .' 06 % ()*' ?62 C*6-*0' .,6/9' .' 6/.1'>1?? 12' 2',)*' 8)*6,'1 ' 6/*., 2*'620' ,' .'1 '>1;-.*'1',)*'D*6-0*0'9 20% (>*' ')*6='1'8)*6,' .*,'6D1;,'8 ,)'/ / *.'M8) >)'=-1D6D/ '5-*8' 2',)*' */0' ,15*,)*-' 8 ,)' ,X ?6 '6//;0*',1'6';.,1?'1'.1'0*>1-6,^ 25',)*'.)*6+*.'M 62,'+ 'KX% &)*6,'M.**'K 6?% +' R' 86.' .?*62,',1' ?=/ ',)6,',)*' 8*// 86.'.1';.*0% -1?' 1/^ 1?12.',?*' MK)-12% ' ' X' ' *% 6.' 65- >;/,;-*' D*>6?*' 0*+*/1=*0';20*-'6'.*,,/*0' 51+*-2?*2,' 6/*.^ ,2*' 86.' 6' >1-2C*L=1-, 25' >1;2,- ' 620')*-' 5-6 2.' +T*-*' /6-5*/ ',7%9*2' D ')*-'>1?? *-> 6/ 2* 5) D1-' (-1' M [*9% LL+ ' T >1?=' ?1.'+ ' X% ' /*2,A71 >1?' 86.' =6-,' 1 'B6>1/L.' D/*.. 25' M4*2% LL+ ' KQT >1?=% .6% L+' NX% ()*' .,1-*C);.*.I' ?*2, 12*0' K)-12% LLL 'KQ'6.' D; /,'D ' : *[*9 6)'8*-*' =*-)6=.' // >12.*_;*2>*' 1',/ 1')6+1>' ?60*' D ',)*' .. - 62' 6-? *.'M>1?=% K 25.' L L'KRXT 8 ,)1;',.;>)'=-1,*>^ ,12',)*' >1;2,-E ' 2' ,' *L)6;.,*0' ..6,*' 81;/0')6+*' D**2' 6,',)*' ?*-> ' 1 ',)*' 0*.*-,' ?6-6;0*-.% 4-6 2' >-1=.' 8*-*' / 6D/*' ,1' *-1 12 ' ` ? /0*8' ' 620

" %" (' `D/6.,25'M.**' ' 25.' + 'N X' 6.' 8*// 6.'1 '>1;-.*',1' -*' D '6>>0*2,' 1-' ?6/>*' M L10% LL 'ST B;05% L+' X% 1?*' 5110'5*2*-6/ -*^ ?6-9.'8 // D*' 1;20' 2' 66/.>);,[' & " ! !' 6 !P' M ?',)'.% X% **' % $ #!

1-26- .,.',)*'0.>=/*.'1'()*101-*' 1-2)*-,'>-' 11-2)*-,'.*>-*,6-'1',)*' ,6,*.'1':1//620'M ' R X% :*' 8-1,*' 656 2.',)*' :1-662 .,.',)*' ;,)*-62.'620' 6/+ 2 .,. ' :*' ?6 2,6 2*0',)6,'*+*- '-*/ 5 1;.'>1?CI' ?;2 12' 2**0*0'-* 1-?6, 12'D;',)*' .6 0' 21'12*')60' 6' - 5),',1' *2565*' 2' ,' 8 ,)1;,'6' ? .. 12' .;==1-,*0' D' ? -6>/*% :*' 86.'6/.1'1'1= 2 12',)6,'>122*>, 12'8 ,)' ,)*' + . D/*');->)'1')- .,' 86.' 21,'*..*2, 6/ ,1' *L^ =*- ?*2,6/)- ., 62 , % -? 2 ;.' 86.' 0 -*>,*0',1' -* ;,*',)*' 8- , 25.' 1' 11-2)*-,' 656 2.,' =-*0*., 26^ , 12'620' 2' .,;0 25',)*'3.;DA*>,' 86.'/*0',1' 6D62012' ,)6,' 01>,- 2*% ()*' >1?=/*,*' 811-2)*-1',)*-' 8*-*' >1//*>,*0' 6,' ?.,*-06?' 2' 4N'MN' +1/.% 1/ X% **' <1.)* ?' " "' # ' ' T 6 B*' ' 9 '.% % 11-2)6-,'620',)*' 6-,>/*' 4' ? !

1-2*/ ;.'M 1=7d 1' 6,% N 8f ()*'>*2^ ,;-12' 1',)'.' 26?*'8)1.*').,1->' 1>>;-.' 2' >,.' L' ?1.,'=-1D6D/ 'D*/125*0',1',)*' N '6' 21D/*' 620' 0., 25;.)*0' 6? /'6,' 1?*% :*' .' -*>912*0' D' B;/62',)*' =1.,6,*' 6.' 12*' 1',)*' *8'=*-.12.'1' 9 ' 8)1' *?D-6>*0')-.,62, % :.' .,6, 12' 2' .1>*, '8 // 6==*6-';=12' >12. 0*- 25',)6,',)*' 1?62' .1/0 *-.' 8*-*' 0 + 0*0' 2,1'/*5 12.'*6>)'/*5 12' 2,1',*2' >1)1-,.'*6>)'>1)1-,' 2,1',)-**' D620.'620' *6>)'D120' 2,1',81'>*2,;-*.' 1-');20-*0.' 620',)6,' 1-2*/;.' 86.' 6'>1?? 620*-I71'12*' 1',)*.*' >*2,;-*.' I) D*/125 25',1',)*' 'D620'.1'>6//*0' -1?' ,.'>12..,25')*/'1',6/ 62'.1/0*-.'1-?*0'1;'1' 12*' 1',)*' .L'>1)1-,.'5-62,*0',1',)*'=-1>;-6,1-.' 1' B;06*6' +*' 1'8)>)'>1)1-,.'8*-*' .,6, 12*0'6,' 6*.6^ -*6',)*';.;6/-*. 0*2>*' 1',)*'=-1>;-6,1-.'MB6)2'# "=' " '& " ' 'K '& *2' QK X% **' $L !

()*' '% '1' 1-2*/;.'D* 1-*').' 2,*-^ +*8'8,)' *,*-')6.'D**2',)*'.;DA*>,'1'?;>)'0*D6,*% 2',)*' 12*' .0*' ,' >12,*20*0',)6,')*' 86.'8)6,' >6//*0'6'% ' '" ' 1-'6'4*2,/*'8)1')6+ 25' -*21;2>*0' 01/6,-'620' 81-./ == 25',)*',-;*' 410' .;D?,,*0',1',)*' .*+*2'M.;==1.*0X=-*>*=,.' 1'd16)' -* .*2,*0',)*' 26515;*'620'1 *-*0' .6>- >*.' D' ,)*')620.'1',)*=-*.,.'D;,'21,')6+ 25'-*>* +*0'>-^ >;?> .12'86.' 21,'-*>912*0' 6?125',)*' B78.% 2' .;==1-,'1',)' 1= 2 12',' .'=/*60*0',)6,' 1-2*/;.' % % '- ';I['M6'?62' *6- 25' 410X'+*-% K',)*' ;.;6/ 6==*//6, 12',' .' 6//*5*0' 1-'6'=-1.*/ ,*' 1',)*' 56,* I6.' 2'>)6=' L ' S' KS'620'*/.*8)*-*T ,)6,')1' =-6 *0' 6,',)*' ;.;6/ B*8 .)')1;-.' 1'=-6 *-'ML'N XT),)6,')*' -*60',)*' /0' (*.,6?*2,'D*>6;.* *,*-'-* *-,') ?',1',)1'=-1=)*,.'ML' NXT 620',)6,')*' 56+*' ?;>)I' 6/?.',1',)*' D '" =*1=/*' ML'K'KKX% 2',)*' 1,)*-' .0*' ' .' 62.8*-*0',)6,',)*' =)-6.*.' 1 % ' '620',)*' . ?/6-' =)-6.*.' ;d6VN,,>620' I% a' 6-*' ;.*0' -*.=*>, 25' 62 '=*-.12.' ?D;*0' 8 ,)' -*+*-^ *2>*' ,186-0.' 410'ML'N T ;9*' ' T 'K T 1/% ' KKT *+% L' QXT ,)6,')*' .' ..A0*0'D' *,*-'0dd17 C' d1>M6' ?62' 1'621,)*-' -6>*' 1-' 26, 12X'8,)' 8)1?' , 86. ' 1-' 6' B*8',1' 6..1>6,*'8)*-*6.',)*' /68' ',1' 1-* 52*-.' 6' =*-=*,;6/-*. 0*2>*' 6?125',)*' B*8.'=-1+ 0*0',)* '81;/0' -*21;2>*' 01/6,-'620'6DC' ,6 2 -1?'D/110'M *+%L+ ' NX'620'*+*2' >1?^ ?620*0',)*'B*8.',1'/1+*',)*?'M *+%L L'NN'N X T,)6,' ,)*' ? 25/*0' 8,)',)*' B*8.' 2',)*' . 26515;*' >,' L + ' X'620' 2'=- +6,*/ *'M ;9*' + 'NXT,)6,')62' 1-^ 2*/;.'D**2'6'=-1.*/ ,*'1',)*'56,*') .'>12+*-. 12',17')- ., 62, '81;/0'21,')6+*' 1>>6. 12*0' .1' ?;>)' .;-^ =-.*',1',)*'B*8 .)')- ., 62.'M >,.'L' X' 21-'81;/0' ,)*' ,)6,'8*-*' 1',)*' > ->;?> . 12J')6+*' >12,*20*0' 8,)' *,*-'.1'?;>' '12') .'6>>1; 'ML 'KXT,)6,')*' :*L=-*../'>/6..*0'6?125',)*' 4*2,/*'DE'B6?*.'ML+' X' 620'D ' *,*-') ?.*/ ')*2'>/6?25',)*')121-

1 ')6+ 25' -.,' =-*6>)*0',1',) *' 4*2, /*.' ML+' XT' ,)6,' ,) *' -*?6-9' 1 ',) *' 1==1. 25' =6-, ' 6,' B*-; .6/*?' 8)*2' >12+ 2>*0 ' ,) *2')6,)' 410' 6/.1',1',) *' 4*2, /*.' 5-62,^ *0' % ' ' ^' 81;/0')6+*' D**2' 26==/ >6D/*' ;=12',) *' +*- '=- 2> =/*.' 1 ',)1.*' 8)1' 6..*-,',)6,' 1-^ 2*/ ;.' 86.' 6' =-1.*/ ,*' . 2>*' ,)* '6-5;*' -*?2*2,' 1 ' 8)1? ' <6 ?12 0*.' 60? ,.' 6' . 2>*-*' =-1.*/ ,*' '" ' ' ' ' ' !' ()*' 1,)*-' 6-5; ?*2,. ' 0*- +*0' -1?',)* l' 1 .>-+62>*' 1 ',) *' B*8 .)')1;-.' 1 '=-6 *-' D ' 1-2*^ / ;.' 620') .' 6>_;6 2,62>*' 8 ,)',) *' /0' (*.,6?*2,' 6-*' 6// -*.1/+6D/*' 2,1' 6' + *8' 1 ') .' -*/ 5 1;.' =1. , 12' 8) >)' 8 // .)1-,/ ' D*' .,6,*O' ()*' .,-125*.,' 1DA*>, 12' 656 2.,',) *' .;==1., 12',)6,' 1-2*/ ;.' 86.' 6' =-1.*/ ,*' 1 ',) *' 56,*' 6- .*.' -1?' ,) *' +*- ' -*6.126D/*' 01;D,' 8)*,)*-' 62 ' .;>)' 0 ., 2>, 12' *L .,*0' 2' ,) *' , ?*' 1 ' ,) *' 6=1.,/*.' M.*** (1?/ 2*' 6 ' '-" !' ' KSS' ._%%' -% 6-02*-')6.' -*?6-9*0',)6,' ,) *' 21, 12' 1 ' ,81' .1-,.' 1 '=-1.*/ ,*.' .' 21,' ,1' D*' 1;20' 2' 62 ')- .^ , 62' 8- ,*-' D* 1-*' EE ' '" >*2,;- ' M 1- 8' + ' SKKX% **' 6/.1' B*22 25. .' D '" & 4 ' MD9% ' >) ' NX% ()*' 6-5; ?*2,.' 12' ,) *' 1,)*-' . 0*' 6-*' 6D/ ' .,6,*0' D ' (182.*20' I " !' 7!' - ' 21,*' 2' /1>%X% **' + # ! % 2' ,) *' 8)1/*' ,) *' =1. , 12' 1 ' 1-^ 2*/ ;.' 8 ,)' -*56-0',1' -*/ 5 12' 6==*6-.',1')6+*' D**2' 2' ,)6,' >/6..' 1 '=*-.12.' 0*.>- D*0' D ' D .)1=' (1?/ 2*' >12. ., 25' 1 '4*2, /*.' 8)1')60' .1' 6-' D*2* ,*0' D ',) *' -' >12,6>,' 8 ,)',) *' B*8 .)' =*1=/*' 6.',1')6+*' D*>1?*' >12^ + 2>*0',)6,',) *' -.' 86.',) *' ,-;*' -*/ 5 12' 8)1' >12.*^ _;*2,/ ' 81-.) ==60',) *' ,-;*' 410' 8*-*' 6>_;6 2,*0' 8 ,)',) *' >- =,;-*.' 1 ',) *' /0' (*.,6?*2,' ?1.,' =-1D^ 6D/ ' 2' ,) *' 4-**9',-62./6, 12' 620' 1D.*-+*0' .*+*-6/' B*8 .)' >;.,1?.' 6.' ;-' 2.,62>*' ,) *' -'/ 1;-.' 1 '=-6 *-' 1-' 62 ,) 25' */.*' ,)6,' 0 0' 21,' 2+1/+*' 62' 6>,' 1 '.=*> 6/ =-1 *-. 12 ( ) .' >/6..' 1 '=*-.12.' .***?.' -* *--*0',1' 2' >,.' L ' S' 8)*-*' ,)* ' 6-*' =/6 2/ ' 0 ., 25; .)*0' -1?' ,/ *' B*8 .' ,)1;5)' >*-,6 2/ ' ? 25/*0' 8 ,)',)*?% (1',)*' .6?*' >/6..' .',1' D*' -* *--*0' 6206>* .',-*6.;-*-' M >,.' + 'K '*,>%XT' 620' 2' *6-/ *-', ?*.',) *' ? 08 +*.' 1 ' 5 =,' M L10% T X' 6)6D' MB1.) ' + ' K X' ;,) ' -6;26)',) *' B*D;.,>' MK' 6?% LL + ' Q' *,>%X',) *' =*-^ .12.' ?*2, 12*0' ' 25.' + ' ' K' N' 66?62' MK' 2%T.' + ' S X% **' 6/.1' B1.*=);.' & 4!' L + ' 'K' 620') .' 6>>1;2,' 1 ' /*L620*-',) *' 4-*6,' 51 25' 2,1',) *' (*?=/*' 620' 1 *- 25' .6>- >*',1' 410' 6>>1-0 25',1',) *' 0 -*>, 12' 1 ',) *') 5)C=- *.,' I 'L 'Q' XT' 1 ' 2, 1C >);.%,) *' 4-*6,' I 'L ' N' N' X' 620' 1 ' ,1/*? ' / /60*/=);.' I 'L 'K ' *,>%X% $20*-',) *' 2/;^ *2>*' 1 ' 7)*.*' 6>,.' 620' 6-5; ?*2,.' 8*' -*56-0' 1-2*^ / ;.' 6.')6+ 25' D**2' .*/*>,*0' 1 ' 410',1' A*>1?1',) *7-.VC' '(' ' " ' ? ! : .' >)6-6>,*-' 6==*6-.' .; ,*0' 6.' ? ;>)' 6.' =1.. D/*' ,1' 6D6,*' ,) *' =-*A;0 >*.' 1 ',) *' B*8 .)' >12+*-,.' 656 2.,' 8)6,' 6==*6-*0' ,1' ,) *?' .1' 5-*6,' 62' 221+6, 12% ,' .' 8*// 1D.*-+*0' D ' ()*1=) C $>,),) 6,' 1-2*/ ;.',)1;5)' 2*',) *-' 6' B*8' 21-' 6')- .^ , 62 ' / +*0') *' 1 ;' 5110')- ., 62% :*' 86.' = 2 /;*2>*0' D ' .=12,62*1;.' -*+*-*2>*',1' 410% :*' =-6>, >6// ' 1D*A *0' ,) *' -*.,-6 2,.' 1 ' -*/ 5 12' 1-')* 3 *6-*0' 410' 620',) .' /6,,*-' =6-,' 1 ',) *' 0*.>- =, 12' .' *L,*20*0',1' 6//) .' 6? / '1-')1;.*)1/0' M+*-' KX% :*' 86.' / D*-6/' 2' 6/?.',1',) *' B*8 .)' =*1=/*' 8)>)' .)18^ *0') .' -*.=*>,' 1-',) *?' 620') *' =-6 *0',1' 410' 6/^ 86 . J' 6,' 6// ,) *')1;-.' 1 '=-6 *-' 1D.*-+*0' D ',) *' B*8^ .)' 26, 12% ;>)' = *, ' 1D*0 *2>*' 6 ,) ' 620' >)6- , ' =-*=6-*0') ?' 1-' .;=*- 1-' 6,,6 2?*2,.' 620' D*2* ,.' 620' .*>;-*0',1') ?',) * -' D*.,18?*2,' M .6% LL+' RT' ' KNT' <6,,' L ' KT' ;9*' + ' T' B1)2' + ' X% ' .' =1. , 12' 2' >1?2620' 6,' 6*.6-*6' 01;D,/*..' D-1;5),') ?' 2,1' >12,6>,' 8 ,)' 2,*// 5*2,' B*8 .' -1?' 8)1?')* /*6-2 0' ,) *' ,-;,) .' -*.=*>, 25' ,) *' <*.. 6)' 620') *' .** ?.',1') 6+*' D**2' =-*=6-*0' D ' 6' =*-.126/ 9218/*05*' 1 ',) *' *L,*-26/ 6>,.' 1 ')- ., 62 , ' ,1' 8*/>1?*' ,) *' ?*..65*' 1 ' *,*-' 6.' 1 '0 + 2*' 6;,)1- , % ()*' -*?6-96D/*' > ->; ?.,62>*.' ;20*-' 8) >)' ,) *' D*2* ,' 1 ',) *' 4 1 7/' 8*-*' >12 *--*0' ;=12') ?' 6-*' ,11' =/6 2/ '620' 1-> D/ '-*/6,*0' 2' >,.' L' ,1' -*_;-*' ? ;>)' >1? ?*2, 'M.*** 6/* '6 1' =-1=' K' >)% KT *?* *-' " + !' 4 '._%T *620*-' ' ' - 1' =% SR' ._%X% &) /*' 2' =-6 *-' 6,' ,) *' 2 2,)') 1;-' 1 ',) *' 06 ')*' D*) */0' 2' 869 25' + . 12' 62' 625*/ 1 ' 410' 8)1' 0*>/6-*0',)6,') .' =-6 *-.' 620' 6/?.')60' >1?*' ;=' 1-' 6' ?*?1-6/ D* 1-*' 410 J' 620' 0 -*>,*0',) ?' ,1' .*20',1' B1==6' 1-' *,*-' 8)1' 86.',) *2' 6D 0 25' 6,' ,) *')1;.*' 1 '12*' ?12' 6',622*-%J 1-2*/ ;.' .*2,' 6>>1-0 25/ 'T 620' 8)*2') .' ?*..*25*-')60' 2*6-/X' -*6>)*0',)6,'=/6>*' *,*-' 86.' =-*=6-*0' D ',) *' . ?D1/^ >6/'-*+*/6, 12.' 1 '6' 211206 '*>.,6. ' 1-',-62>*' ,1';2^ 0*-.,620',)6,' 21,) 25' 8) >)' 410')60' >/*62.*0' 86.',1' D*' -*56-0*0'6.' >1? ?12' 1-';2>/*62% ' ,,1' .%+% ()*' *+*2,',119'=/6>*' 6D1;,' *=,*?D*-' % %' NK' M.**' "!' ! 5 !' Q ' =% RRC X% ' 2') .' 6-- + 25 6,',)*')1;.*' 1' 1-2*/ ;.' 620' 8) /*')*' 86.' *L=/6 2 25' ,1',)*?',) *' + . 12' 8) >)') *')60' .**2' 2' -* *-*2>*',1',) .' ? .. 12',) *' : 1/ ' 4)1..' */ 12',) *' 4*2, /*.' =-*.^ *2,' 620',) ;.' 62, > =6,*0',) *' -*=/ ' ,1',) *' ;*., 12' 8) >)' ? 5),' ., /')6+*' =-1+*0' 6' 0 >;/,' 12*' 1-',) *' 6=1./*' 8)*,)*-',) *' ' &*-*' ,1' D*' D6=, [*0!6.' ? ' 2,1',) *')- ., 62');->)% ()*' 8*-*' .1' D6=, [*0' 620',);.' 1-2*/ ;.' D*>6?*',) *' -.,C -;,' 1',) *' 4*2^ , /*' 81-/0',1')- .,' =;D/ >/ ' -*>152 .*0' 6.' .;>)% (-60, 12')6.' D**2' D;. ' 8 ,)') .' / *' 620' 6>,.% >^ >1-0 25',1' B*-1?*' I !' D ! ' =% N X')*' D; /,' 6')- ., 62' >);->)' 6,' F.6-*6' D;,'/6,*-',-60 , 12' ?69*.') ?' D .)1='1' >6?620 1.' M >6?620- 6' HX' 620' 6.>- D*.' ,1') ?',) *' 81-9 25' 1 '6' 5-*6,' ? -6>/*' I" !' ? ! KRX%J7' ? ,) ' .% +% ()*-*' 6-*' ?1215-6=).' 12' ,) *') .,1- ' 1 ' 1-2*^ / ;.' 2' 4*-?62' D ' 20*-' M 6.*/' QN X' -;?2 6>)*-' M -*?% QKR',-62./% 0 2D;-5)' QNRX' 2' 6, 2' D ' 6^ ./ IL%%!' =% QX' 2' 25/.)' D ' +62.' I$ % !' ; ! ' N RXT' 6/.1' 2' 6, 2' 12') .' >)6-6>,*-' D ' *>),' M Z .% X' *;>-/ 2' M /,1- % NSXT' 12' *,*-.' + . 12' D ' *A7. 25' M<6-D% X' 25*.,- ?' M ;20% XT' 12',) *' *;. 12' 1 ',) *' = - ,' D ' 41*,[*' M ;D*>% KXT' 12') .' D6=,. ?' D ' ,) *' .6?*' M D% NXT' 12') .' =-6 ^ *-.' D ' < >)6>/.' M 2',) *' ; ' ; !' + ' S R' .,%X' 12' *,*-.' .*-?12' 2' 25/ .)' D ' (6A01-' M 12012' S RX% 6/.1' -;?? 6>)*-' ' ' ' 'M 0 2D% QNR' K?1XT' D '$!' !' =- /' QS % 1-2*/ ;.' D .)1=' 1' 1?*' .;>>**0*0' 6D 62;.' 2',)6,' .**' B;2*' ' % %' K % 1?*' 1',) *>/*-5 '620' =*1=/*' 1' 1?*' 21,' 6==-1+ 25' 1',) *' */*>, 12' 1' 1-^ 2*/ ;.' D*>6;.*' 1') .' >12,-1+*-.' 8 ,)' 1+6, 62;.' 6D1;',) *' % !',1' 8)1?' 1-2*/ ;.' 86.' 0 .=1.*0',1') *' /*2 *2,' >)1.*' 1+6, 62;.' D .)1=' 620',)-** ,6/ 62' D .)1=.' 1-06 2*0') ?') *',) *-* 1-*' 86.',) *' -.,' 62, ^ =1=*% 2' >,1D*-' K ' 1-2*/ ;.')6+ 25' >12+*2*0' 6' 2;?*-1;.' >1;2>/ 6,' 1?*' >12. ., 25' 1'. L, 'D .)1=.' 620' 6' 2;?D*-' 1 '=-*.D ,*-.' 620' 0*6>12.',) *' >12 -?^ *0') .' */*>, 12% :*' 0 0' 21,' *2A1 ') .')121-/125' 1-') *' 86.' D62 .)*0' D ',) *' *?=*-1-' 46//;.',1' + ,6' *>C >) 6' 8)*-*') *' 0 *0' M1-' 6>>1-0 25',1' .1?*' 6>>1;2,.' .:' *-*0' ?6-, -01?X' *=,*?D*-' 'K K' (*2'1' A =C - 62 .' /*,,*-.' 6-*' 0 -*>,*0',1' 1-2*/ ;.' ()*-*' 6-,.' ,81' 5*2;2*' /*,',*-.' 1' 1-2*/ ;.',1' =- 62' ., // =-*^ .*-+*0' 6?125' A7=- 62 .' *= .,/*.!' ,) *' 6-*' ,) *' 1-, C' . L,)' 620' 1-, C* 5/ ,)' M*0% D*-,) ;-X% * 0*',) -*' 1-2*/ ;.' 8-1,*' 6' /125' /*,,*-',1' 6D 62;.' >12>*-2 25' ,) *' >)6-6>,*-' 620' >120;>,' 1' 1+6, 62' >12. 0*-6D/*' *L,-6>,.' -1?' 8) >)' ;.*D ;.')6.' =-*.*2,*0' I# ! 6 !' D9% + ' >)6=' L/ X% ' 6-02*-' " !' ' ' _ %T 6+*' # ' !' 'Q T & *,[*-' ;% & */,*') " #* !' 'Q R% 1-2*/ ;.' 5- ==6% **C 1 == % 1-2*/ ;.' 6' 6= 0*' : . ' ' *' >*' 3' 6' /*6-2*0' 1?62' 6,)1/>' >1?^ ?*2,6,1-' 86.' D1?' 2' SS' 6,' 1>D1/,' 2' ,) *' 0 1>*.*' 1' *5*' *2,*-*0',) *' 1-0*-' 1 'B*.;,.' 620' D*>6?*' =-1^ *..1-' 1 ' :*D-*8'6,' 1;+6 2'8)*-*') *' 56+*' *L*5*, >6/ /*>,;-*.' 1-',8*2, ' *6-.% :*' 86.',) *2' ?60*' =-1 *..^ 1-'6,' 1?*' 8)*-*') *' 0 *0' <6->)' K SN % :*' 8-1,*' >1?*2,6- *.' 12' 6//,) *' D119.' 1 ' >- =,;-*' *L>*=,'B1D' 620',) *' .6/?.' 8) >)' 6-*' 2' 5-*6,' *.,**?' ?1-*')18C

+-' -1?',)*' - >)' ?6,*- 6/' 2',)*' 1-?' 1 '> ,6, 12.' -1?',)*' 6,)*-.',)62' -1?'62 '>- , >6/ .9 //'1 ') .'182% ()*' >1? ?*2,6- *.' 12',)*' *2,6,*;>)' 620',)*' 6;/ 21' = .,/*.' 6-*' >1? ?12/ ' -*56-0*0' 6.',)*' D*.,% ()*' 8*-*' =;D/ .)*0' 6,' 2,8*-=' S ' M ' +1/.% 1/%X' 6,' *2 >*' N M '+1/.% 1/%X' 620'6,' 12.'MD*.,*0 , 12' QNQ '+1/.% ,1X% ' & *,[*-' ;%& >/,>') " 1 ! $' S %

1-2*/ ; . ' / 6 . ' % %' 6' 125-*56, 126/' ? 2^ .,*-' 86.' D1-2' 2' 1?*-.' % %'B;/ ' N ' R % : *' 5-60;6,*0' 6,' 6/*' 2' Q N% 2' Q S' 6 ,*-' D* 25' / ^ >*2.*0',1'=-*6>) ')*' 86.'6==1 2,*0'65*2,'1 ',)*' ?*-^ >62' 16-0' 1 ' 1? ? .. 12*-.' 1-' 1-* 52' < .. 12.% 2',)*' .=- 25'1 ' Q ')*' .,6-,*0'12'6' ? .. 126- ',1;-',1',)*' -**9.'620')*-19**. '620',)*2',1' *8' -/*62. ' 8)*-*')*' -*?6 2*0' ;2, /' =-/ K' Q Q' 8)*2')*' -*^ ,;-2*0',1' 1.,12'+ . , 25',)*' 20 62' < .. 12' 12') .' 86 % : *'86.'1-06 2*0'>1//*5 6,*'=6.,1-' 1 '(6D*-26>/*' >);->)' 2' 6/*?'B;/ 'K Q R' 2' >,% QKS')*' -*^ . 52*0' 620' *2,*-*0' ;=12') .' 0;, *.'6.'.*>-*,6- '1 ',)*' ?*- >62' 0;>6, 12' 1> *, % 2' >,% QN ')*' 86.' */*>,*0' .*>-*,6- '1 ',)*' ?*- >62' 16-0' 1 ' 1?? .^ . 12*-.' 1-' 1-* 52' < .. 12.% : *' 0 *0' *D% K QNK% : *' =;D/ .)*0' .*+*-6/' 1>>6. 126/' .*-?12.' 620' ;.* ;/ ,-6>,.% ' =-65;*'& 1' 'SNN' 086-0.' ' ' 'M 1.,% QN K?1X%

1?*-% ()*'81-0.',);.',-62./6,*0' 2'1;-'+*-. 12' 1',)*' D/*'6-*',)*' 1//18 25a

% / *G "E. 52 *.' =-1=*-/ ' 6' % " ' 6.' ' %'MK')-12% LL+ ' T' U*=)% ' ST' SX7')*2>*' 62' '=-1=*-/ ' *L,*- 1-'6.'1'6')1;.*'MB1D' RX'1 '6'.,-**,'M -1+% + 'QXT' 6/.1'2,*- 1-'6.'1'6'-11' M -1+% LL 'RT' LL+ 'K X'1 '6'>1;-,'M [*9% L/ 'K X'1 ' 6'>, 'MK')-12% N L+ 'K X% ,' .'=;,'?*,6=)1-'>6// ' % 1-' 6' % ' 1-' >) * ' 1 ',)*' =*1=/*' M ' 6?% L + 'NQT' B;05% d d 'K T' .6% L L ' NX%' ()*' 6DD-*+ 6,*0' 1-? % 2' 1>>;-.' -1+% + 'QT' U*>)% L + ' %

K% =-1=*-/ ' ,)*' " ',)*2' < :)*2>*' 5*2*-6// '6' 1'62 ,) 25'M*.=*> 6// '6 =1 2,'1 ',)*' >1?=6..'6.'12',)*' >6.,'. 0*' % *6.,86V0' ``,)*' 1;-'>1-2*-.J',620 25' 1-',)*' 8)1/*' *L,*2,X'1-' -*5 12'6.'1 ',)*' 6>*' % '1 *+% L ' XT' 1'>1;2C ,-A7M ' (*)' L 'KK' % *% +6- 1;.' '1 ',)*' =-1? .*0'/620'6//1,,*0',1',)*' .-6*/ ,*.T .1'1('1' < 16D J' B*-% L/+ ' ' % *% ,)6, S' 620' 2',)*' =/;-6/' 1[] ' \/,*-6// ' ,)*' 1 ' < 16D J ;?% LL+ ' ',)*' " ' " 8! *>1206-/ ' ,' 0*^ 21,*.',)*' %' 1'62 ,) 25'6.'1'6' */0'M *+% L L 'RT' LL 'KKX'1 ',)*' .6>-*0',6D/*' M L10% LL+ 'KST' A>LL+ ' NX' 1 '6' >1;>)' 1-' 0 +62 ',)*' =/6>*' 1 ')121-' M ?1.' 'KX% ()*' >1?*-.'1 ',)*')*60'620'D*6-0J' M *+% L L 'K T' LL ' X' 8*-*' 01;D,/*.',)*' *L,-*? , *.' 1 ',)*')6 -' 620' 8) .9*-.' -;22 25' 6-1;20',)*' *6-.' 8)>)',)*' B*8.' 8*-*' 1-D 00*2',1';>;,'1-' .)6+*' 1 ' -1;20' / 9*',)*' %% ' = + ' M? .,-62./6,*0' ;,C Y21.,'>1-2*-.J'B*-% L 'KST' LL+ 'KNT' L/ L 'NKX' 1',)*')*6,)*2' 620',)*' 62> *2,' -6D.' 1',)*' 0*.*-,'M :*-10' 'QX% //;.,-6, 12.'%1',) .' 6.) 12' 6-*., // *L,62,T' 20**0' <-% .D;-2'M 2') .'& ' =% K X'.**?.' ,1')6+*' 0*2, *0' .1?*' 5;-*.'12',)*' 5 =, 62' ?12^ ;?*2,.'8 ,)',)*'62> *2,' : ,, .*.'12*'1',)*'+*-' ,-D*.')*-*' 6//;0*0' ,1' 620' 8)1' 6->' *L) D ,*0' 6.' 8*6-25')*/?*,.'1-' .9;//C>6=.'1'6'=*>;/6-' 1-?' .1'6.',1'/*6+*' *L=1.*0',) .' =*>;/6-' 26, 126/' D605*% ()*' 6==*6-',1')6+*')60'6') 0*1;.' >;.,1?' 1' .)6+ 25' 6' ._;6-*

I / ,, ,1' 6-C/10*.%

=/6>*'A;.,'6D1+*',)*' *6-'/*6+ 25',)*')6-' 12',)*' .0*' 1',)*' 6>*' 620',)*' 8) .9*-.' 8) >)';25'0182' 2' 6' =/6 ,*0'/1>9% 7

N% +'NN' %"('6' 'M6.'*/.*8)*-*'1 ,*2X' .';.*0' 2' .6% L ' KT' [*9% + ' ',1'*L=-*..' ',)*' 1;-'>1-^ 2*-.'1';,)*'*6-,) J'1-',)*' 8)1/*'/620% h-N'+ " %"('6' " '1-'. 0*'M6.'1 ,*2' */.*^ 8)*-*X'1>>;-.' 2' K 25.'L ' 2' .=*69 25'1',)*' 1==1. ,*'=6-,.'1',)*' (*?=/*% + 'M/ ,*-6// ' ' '1-' *2,X' 62' .=19*2'1',)*'*L,*-26/'*L,-*? , *.'1',)*',6D*-^ 26>/*'M L10% LL+ 'K T' LLL+ 'KRX' 620',)*' 2,*-26/'3' 12*.'1'6'>1;-,'M [*9% L/ 'KK' L/+ 'K 'KKXT' 6/.1'1'6' D*20'1-' ,;-2 25J'1'6' 86//'>12+*2, 126// '6==/ *0' 6==6-*2,/ ',1',)*' 2,*-**>, 12'1',)*' 2,*-26/'86// '1' B*-;.6/*?'.9 -, 25' <1;2,' U 12' 12',)*' *6.,'8 ,)',)*' >12, 2;6, 12'1',),6,'12',)*' 21-,)*-2'D-18',186-0.',)*' (*?=/*'MK')-12% LL+ 'RT' *)% 'R'K K 'KSX% ' 9 20-*0' 1-?'1>>;-.' 2',)*'/6.,'>/6;.*'1' [*9% L/ 'KK' 8)*-*' .1?*'-*20*-' =4

S% % ('M/,*-6// '6' % ';.;6// '6' , ?*J' 1-' 2.,62>*X' .=19*2'1',)*' 1;-'>1-2*-.'1',)*' .6>-*0' 6-9'M L10% LL+ 'KX'620'1',)1'D-6[*2'/6+*-'M ' 25.' + 'N X%

% ('M/,*-6// '6' "1-'. 0*'6.'1,*2'*/.*^ 8)*-*X'.=19*2'1'*,)*-'*L,-*?, '1'*6>)'. 0*'1',)*' 6/,6-'1'2>*2.*'M %L10% LLL' T' LLL+ 'K X%

Q% + "(' 62' 'M6.'*/.*8)*-*' ;.;6// X' .=19*2'1',)*' 1;-'>1-2*-.'1',)*'.6?*'M L10% LL+ ' X%

R% / "(' .=19*2'1',)1' >1-2*-.J'1',)*'6/,6-' MU*>)% L ' XT' 5% 1',)*' ' '1'6 =6/6>*' I .6% >L/ + ' K' ',)6,'1;-'06;5),*-.'?6 'D*'6.'>1-2*-^ .,12*.JX' 2*/'.>;/=,;-*0' 2'6//;.12'=-1D6D/ ',1',)1' '1-'>1/;?2.'-*=-*.*2, 25' *?6/*' 5;-*.'.1' >1?12' 2' 5 =, 62'6->) ,*>,;-*'M,)1'=1 2,'1'>1?^ =6-.12'/XO25' 2',)*'./*20*-2*.=' 620',6//2*..'>1?D 2*0' 8,)'*/*562>*'>1?=% 62,'+' T' + 'QX%

% ()*' 4-**9' 81-0' ' .52 *.' =-1=*-/ ' 62' '*,)*-'*L,*- 1-'6.'8)*2' .,-**,.' ?**,' 1-? 25' 6' 4 '1-'=/6>*'1'=;D/*-*.1-,'M<6,,'+' XZ21-' 2^ ,*- 1-'6' 06-9'-*>*..'=;,' 1-' 'M >,.' LL+ 'KSX% '()*' ,X;-' '1',)*'*6-,)J'0*21,*',)*'8)1/*'/620' 1-'81-/0'6.' 2' 1% '6D1+*'M *+% + ' T' ;6-,*-.J' dd'QX% 2' ,)*')*60'1',)*'>1?*-J'.**' . $4' (d 'D*/18%

% ()*' (1'1',)*'5-*6,'.)**,' 2' *,*-.'+^ .12'M >,.'F ' T' L ' X'-*=-*.*2,'6'0 *-*2,'81-0' 2' ,)*'1-5 26/'62 W' 8)>)'6.'*/.*8)*-*' ;.;6// ',)*' .52 >6, 12' '11" !P

()*' 1-'`>1-2*-7' % *%1',)*/ */0'86. 21,'6//18*0'M >+% L L 'RX',1'D*' 8)1// '-*6=*0% ()1' /68'56+*'6'-5),',1',)*'=11-',1'>6-- '1'8)6,'86.'.1' /*,'620',)'.'86.'6'=6-,'1',)*'?6 2,*262>*' -1?',)*' .1/,1'8)>)',)6,'>/6..'8*-*' *2,,/*0% ? /6-/ ',)1' 5/*62 25'1' */0.'620' -;,C,-**.'620',)*',69 25'1' 6'.)*6'6>0*2,6// '/*,'12',)*'5-1;20'8*-*'.*>;-*0' ,1',)*'=11-'620',)*'.,-625*-'D '/68'MLL 'KK' *;,% LL+ 'RCK X' **' & ! ()*.**?',1';.' 6?0',)*'.)6-=/'0* 2*0'/*56/-5),.'1'8)>)'6/12*' > + [6, 12' .'>152 [62,'/11.*'620' 260*_;6,*'=-1+^ .12.'1-',)1'-*/*'1',)1'=11-% ;'>;.,1?'6=0'>1?^ ?12'/68')60'=-1D6D/ '*2.;-*0',)*-'1D.*-+62>*'MB1D' LL+ ' X'=-*+1;.7',1',)*'<1.6>'*26>,?*2,'620' >12, 2;*0'1-'6'/125'D;,'20* 2,*', ?*',1'5+*'=-6>^ ,>6/'1->*',1',)*'.,6,;,*% 1-'8*-*',)*'I=11-',1' 8)1?'6==*-,6 2*0',)*'-5),',)*'+65;*'>/6..'1'.;C *-*=' 8)1?'8*';20*-.,620'D',)*',*-?% 2',)*' =-2>=/*.'1',)1'<1.6>'=1/,A2'+*-A':*D-*8'6?/' D60'6')1/0'12'6'>*-,6 2' L*0'*.,6,*'620'>1;/0'D'21' 1-0 26-'620'>6.;6/'>6/6?,'D* 8)1// 'D*556-*0% :*2>*',' 20 5*2,'?*?D*-.')60',)*'>/6 ?.'1'9 20-*0' 12',)*'>1?*-.'*,>%'1',)*' */0'8)>)C',)*-/620*0' D-*,)-*2'-*6=*0% ? /6-/ ',)*'.,-625*-'86.'6'-*>^ 152 .*0'0*=*20*2,'`8,)2',)'56,*.I'D* 25' .'*L^ =-*..+*'0*,>-=, 12'6.'.)6- 25 7)1;5)'21,'D'62' ,*'1'D/110',)*'01?*.,>'>/6 ?% ()*-*'86.',);.'6' ;-,)*-'.*>;-,'1-',)*'?6 2,*262>*'1',)*'-5),'2',..

R

0* 2 ,*' 620' 6.>*-,6 26D/*' >)6-6>,*-% * ,)*-' 01' 8*' 0 .>1+*-' 2' ,)*' *6-/ *-' =*- 10' 1 ' ,)*' : *D-*8' =1/ , ' >/1.*/ '0*,6 /*0' 6.' ,.' .1> 6/ *6,; -*.' 6-*' 62 '5*2*-6/ ,-6>*.' 1 '65-6- 62'0 .,-*..' 620',)*' ;2.6 *' >120 , 12' 1 ' ,)*' >1; 2,- ' 8) >)' -*. ; /,.' -1?' , ' .;>) ' 1-' 2.,62>*' 6.' .' =-1+*0' D ' ,)*' D620 ,, ' 1 ',)*' : *-10 62' =*- 10% 6+ 0 ' 6' =1=; /6-' /*60*-' M ' 6?% L+ ' N T' LL ' X' >1 ; /0' 12/ ' ? ; ., *-' -1?' 1 ; -' ,1' . L') ; 20-*0' ? *2' 1 ; ,' 1 '6// B ; 06) ' ,)1 ; 5)' *+*- '12*' ,)6, ' 86.' 2' 0 .,-*.. ' 2' 0*D, ' 620' *+*- '12*' ,)6, ' 86.' 0 .>12,*2,*0 '>6?*' ,1') ?' M ' 6?% LL 'KT' LL+ NX% ;-,)*' -' ,)*' /68 ' 2' 6+1-' 1' 1 ' ,)*' *+ ,*. ' 8)1')60' ,)*? .*/+*.' 6' . ? /6-' >/6 ?' 12' ,)*' =-10 ;>*' 1 ' ,)*' /620' D ; ,' 21' =1..*.. 12' 2' ..' .1 /' -71 ; /0' .*>;-*' ,)* -' 2 /; *2>*' 6.' *L=1 ; 20*-.' ,*6>)^ *-.' 620' 2' =6-, '60? 2 .,-6,1-.' 1 ',)*' /68 ' 2' 6+1-' 1' .;>)' 6' >/6 ?% 2' ,)*' /6,*-' =*- 10' 1 ',)*' =-1=)*,.',)* -' >12.,62,' >1?=/6 2,.' >12>*-2 25' ,)*' 0* -6 ; 0 25' 1 ' ,)*' =11-' M .6 ' F ' KT' ?1.' + ' T' + ' SX' .** ?' ,1' .)18' ,)6, ' .;>)' /68 .')60' /1.' ,)* -' =-6>, >6/ 1->*% M 'D*.*' ,81' =6..65*. ' .=*69 25' 1 ' ',69 25' D ; -0*2.' 1 ' 8)*6, ' -1?' ,)*' =11- ' 620' 1 ' I.*// 25' ,)*' -* ;.*' 1 ' ,)* 8)*6, ' ' *' =*-)6=.' ,)*' 5/*62 25. ' .**?' ,1' =1 2,' ,1' .1?*' .=*, 6/ *+6. 12' 1 ',)*')6-+*.' /68 .%X , /' /6,*-' ;20*-' ,)*' >- D*.' ? 2 ;,*' /*5 ./6, 12' L*0' 12*. L, *,)' 6.' ,)*' =1-, 12' 1 '6' */0' 8) >)' 86.' ,1' D*' /* ,' 1-' ,)*' /*56/' >1-2*- ' D ; ,' =-1+ 0*0' 6/.1' M8) >)' .**?.')6-0/ ' >12. .,*2,*,)6, ' ,81' */0.' .)1 ; /0' 21, ' D*' .1' A1 2*0' 6.' ,1' /*6+*' 12*' >1?*-' 12/ ' 8)*-*' ,81' .)1 ; /0' 6 -/ 'D*' -*>9^ 12*0% ()*' =-1=1-, 12' D* 25' ,) ; .' L*0' 6/' ,)*' 5-6 2' ? %7) ,' D*' -*6=*0' 620' *21 ; 5)' ,1' .6, . ' ,)*' -*5 ; /6, 12' .; D.*_ ; *2,/ ' .*=6-6,*0' -1?' ,)*' 8)1/*' >-1=% ()' `>1-2*-' 86.' / 9*' ,)*' 5/*62 25' , ,)7 ,**% *-,6 2' -; ,C,-**.' *% 5 2 ; ,.' =1? *5-626,*.' 620' 1/ +*.' 8*-*' 0**? *0' / 6D/*' ,1' ,)*' /68 ' 1 ',)*' >1-2*-% <6 ?12C 0*.' 20**0' /6 .' 0182' ,)*' =- 2> =/*' > V (g' % % 1' >6=% ' X' ,)6, ' 8)6, *+*-' >-1M' 1-' 5-18 ,)' .' ,' 1-' 110' .' 9*=, ' 620' 56,)*-*0' 6/' 6, '12>*' 620' >6-- *0' 2,1' ,.1-*' ./' 6D/*' ,1' ,)6, '/68 % ' 4*2, /*')1/0 25' /620' 2' 6/*., 2*' 86.' 21, '0**?*0' / 6D/*' ,1' ,)*' 1D/ 56, 12% .' -*56-0.' B*8.' 62' *+6. 12' .**?.' ,1')6+*' D**2' .62>, 12*0' 6.' 1//18.' &)6, *+*-' */0' 86.' >12.*>-6, *0' ,1' ,)*' (*?=/*' 620' ,.' .*-+ >*.' 86.')*/0' 1L*?AX, ' -1?' ,)*' >/6 ?' 1' ,)*' =11-' 62' 182*-' ? 5), ' ,) ; .' >12.*>-6, *' ,' 8) /*' ,)*' >-1=' 86.' 12' , ' 620' ,)*2' -*0**?' ,' 8)*2' 2' ,)*' .)*6 ' ,1') .' 182' ; .*% ()' ; .' ,)*' =11-' 81 ; /0' /1.*' ,)*' - 5) ,' ,1' ,)*' `>1-2*-% ()' -*? 20.' ; .' 1 ' ,)*' 1-D62' M<6-9' + ' X% 1-' ; -^ ,)*-' 2 1-?6, 12' .**' $ ' ()*' ,-*6, .*' "1' 2')*' < .)26 ' ?6 ' / 9*8 .*' D*' >12. ; /, *0' *.=*^ > 6// ' >)6=% ' K' N' ' ' ST' ' + ' T' 6/.1' ,)*' 6D1+*C _ ; 1, *0' ,-*6, .*' 1 ' <6 ?12 0*.J' M ? ,)' .% +%X% **' % !

()*' 4 ' M2.. ' !PH 7X' 1 ' B*-; .6/*?' .=19*2' 1 ' 2' K' 25.' L + ' NT' K')-12% LL+ ' RT' B*-% LLL ' NQ' 86.' 12' ,)*' %&% . 0*' 1 ' ,)*' 62> *2, ' >// ' 2' B1.*=) ; . .' .*>120' 86// J' 620' D*, 8**2' ,)*' =-*. *2, ' . ,*.' 1 ' 6/+6- '620' ,)*' 6?6.>; .' 46, *% M *>' ,-125 .' # ' '6 % ' '" ' ? % 1' ==*20 L' ' =% X' **' ($!

4 ' MI7K ' A d' B1D' LLL+ ' ST' .6% LL+ ' T' *=, ' 620' % ()% U% E 8 8+V6>X' 6' _ ; 1 2' 1-' D/1>9' 1 '5-*6, ' ?=1-, 62>*' 2' D 20 25' ,15*,)*-' ,)*' . 0*.' 1 ' 6' D ; /0 25% M 2' .6% >L/ + ' K' .**' 1% R 6D1+*%X' 1?*' 1 ',)*' >1-2*-C., 12*.' 2',)*' 62> *2, ' 81-9' 1 ' ,)*' ,*?=/*' 1 ; 206, 12.' 6-*' '1-' R' **, ' /125 ' 620' B' **, ' ,) >9' M 1D 2.12 ' 5 ' "I E ' KKX% 1-2*-^ .,12*.' 6-*' ; . ; 6// ' /6 0' . 0*867.' 620' *2086 .' 6/, *-C 26,6/ ' .1' ,)6, ' ,)*' *20' 1 '12*' 6==*6-.' 6D1+*' 1-' D*/18' ,)*' . 0*C 6>*' 1 ' ,)*' 2*L, % ' 2*++*)' ,)*' >1-2*-.' 6-* 3.1?*, ?*.' 1-?*0' 1 '12*' 625 ; /6-' .,12*' M 6A76-0' 7 9 "1' K X' ()*' >1--*.=120 25' *L=-*.. 12')*60' 1 ' ,)*' >1?*-J' M-AN' // d X' 2' .6% >L+ ' KK' .' D ' .1?*' ;20*-%O,110' ,1' ?*62' ,)*' >1= 25' 1-' - 05*' >1 52' 1 '+62,65* J' % *% ,==.,12*' 1 '6' D ; /0 25' T' D ; ,' 6.' 2' 62 ' =6-,' 6' >1-21-C.,121' ? ; .,' 1 '2*>*.. , ' D*' 1 '5-*6, ' ?^ =1-,62>*' ,)*' =)-6.*' >1?*-C.,12*J' .' .1?*, ?*.' ; .*0' ,1' 0*21,*' 62 '=- 2> =6/ =*-.12' 6.' ,)*' =- 2>*.' 1 ' 5 =, ' M .6% L/L ' NX' 620' .' ,) ; .' 6==/ *0' ,1' 1 ; -' 1-0' 8)1')6+ 25' D**2' 12>*' -*A*>,*0' 86.' 6 ,*-86-0' .*, ') ' ,)*') 5)*.,')121-' M<6,, ' LL ' KT' .**' 4-1, ; .' 12' .6% >L+ T' >1?=% : 6-?*-' ," ! ' N SX% ()*' . ?D1/>6/ , ,/*' 1 ' >D * ' >1-2*-C.,12*J' M /R15)% 8' 6' 6/.1' 6==/ *0' ,1')- .,' 2' =)% ' K ' 620' ' *,% 'Q S' 8)>)' /6.,' =6..65*' .' 6' _ ; 1,6, 12' -1?' .6% LL+ ' S' 8)*-*' ,)*' *=, ')6.' ,)*' .6?*' 81-0.% ()*' >1-2*-^ .,12*J' 1-')6/ C ; 20*-/ 25' D ; ,,-*.. ' =-1=*-/ ' ?69, .' 21' =6-, ' EE1 * 1' -1?' 8)>)' , ' .'0 ., 25 ; .)*0' 2' B*-% $' ST' ,)1 ; 5)' 6.' ,)*' *0 >*' -*.,' ,)*-*12' , ' ?6 'D*' .1' >6//*0% 1?*, ?*.' ,' 0*21,*.' ,)1.*' ?6.^ . +*' ./6D.' 8)>)' D* 25' =/6>*0' ,18 6-0.' ,)*' D1,,1?' 1' 62 ' 86// '.*-+*' ,1' D 20' ,)*' 81-9' ,15*,)*-' 6.' 2' .6% LL+ ' S% ' ,)*.*' ,)*-*' 8*-*' 1 ,*2' ,81' /6 *-.' 8 ,)1 ; ,' >*?*2, '1-' ?1-,6-' M /11? */0' 5 !' $ %! 12' =)% ' K X%)- .,' .' >6//*0' 6' >1-2*-C.,12*' J' M %X' 2' -* *-*2>*' ,1') .' D* 25' ,)*' 1 ; 206, 12' 1 ' ,)*)- ., 62' 6 ,)' M =)% ' K#X T' MK%X' 2' -* *-*2>*' ,1' ,)* ?=1-,62>*' 620' >12.=>; 1, .2*..' 1 ' ,)*' =/6>*')*' 1>>; ^ =*.' M ' *,% ' SXT' 620' MN%X' ' >*' ?*2' 1 ,*2' .,; ?D/*' 656 2.,' 6' =-1A*>, 25' >1-2*-C.,12*')- .,' .' ,)*-* 1-*' .1' >6//*0' D*>6 ; .*') .' 51.=*/ 8 // D*' ,)*' >6 ; .*' 1 '65^ 5-6+6, *0' >120*?26, 12' ,1' ,)1.*' 8)1' -*A*>,' ,' M <6,, ' LL ' X% **' $ 4 ! ()*' =-1=)*,' MU*>)% L' X' .=*69 25' 1 'B ; 06) '6 ,*-' ,)*' -*, ; -2' -1?' ,)*' *L /*' .6 .' '1 ; ,' 1 ') ?' >6?*' \% *% .)6// >1?*H 1-,)',)*' '\% *%7-2> h '1 ; ,' 1 ') ?' ,)*' 26 /TJ' =-1D6D/ ' -* *-- 25' ; /, ?6, */ ' ,1' C,)*' >1-2*-C.,12*' J' ,)*' <*.. 6)%

1?*-; . ' ' / ' $ ' :1 3' 6' 4*-?62' 0 + 2*' 86.' D1?' 2' -62>12 6' Q' 620' 86.' *0 ; >6, *0' ; 20*-' .' ; 2>/*' 12-60' & ?= 26% 2' ')*' 86.' ?60*' =-1 *..1-' 6, ' -629 1-, C12C,)*C 0*-' 620' *>>/*. C' 6., >6/ . ; =*- 2, *20*2, % : *' 6 0*0' 20-*6' 2' ,)*' =-*=^ 6-6, 12' 1 ',)*' 1-? ; /6' 1 ' 12>1-0*M.**' 3' 620' 8-1, *' .*+*-6/ 81-9.' 2' D/ >6/ / , *-6, ; -*' 620' ,)*1/15 ' 218' 1 ' / ,, /*' 6>>1 ; 2, % : *' 0 *0' =- / R% ' */C >) 1-' 06?' ' 6 ' ' N %

1-2*, ' =-1=*-/ ' " %" ('M=-1D% -1?' ,1' " ' " 1 8 ,)' -* *-*2>*' ,1' ,)*' >/*6-2*.' 1 ' .1 ; 20' >1?=% .6% L+ 'SX' 4-% 6, % " 1 6' /1 ; 0C.1 ; 20 25' 2., -; ?*2, ' ?60*' 1 ' ,)*')1?' 1 '6' -6?' 1-' 1 '6' >)6?1 .' M.1?*, ?*.' 1 '62' 1LX' 620' ; .*0' D ' ,)*' 62> *2, ' : *D-*8.' 1-' . 526/.' 1-' 6221 ; 2> 25' ,)*' A ; D /**J' M *+% LL+ 'RX' 1-' =-1>/6 ? 25',)*' 2*8' *6-' M <.)26 '5 +' # " "f '620' +X' 1-',)*' =; -=1.*' 1 ' 86-' MB*-% +' RT' >1?=% B1D' LLL L' K X' 6.' 8*// 6.' 1-' ,)*' .*2, 2*/.' =/6>*0' 6, ' ,)*' 86, >)C, 18*-.' ,1' 5 +*' 21, >*' 1 ',)*' 6==-16>)' 1 '62' *2*? 'M [*9% LLL ' X% $" % " ' 5*2*-6/ ' -*20*-*0' 2',)*' % ' ;-; ?=*, J' D ; ,' >1-2*, J' .' ; .*0' 2' ')-12% L+ 'KQT' K)-12% L+ ' T' .6% L>+ 'ST' : 1. % + 'Q% 1?*, J' .' 6/.1' *?C7 =/1 *0' 2' K' 6?% + ' ' 1-' # F' 1 6' ?; . >6/ 2., -; ?*2, ' 1-' -6, , /* ' 8) >)' 56+*' 6' , 29/ 25' .1 ; 20' 12' D* 25' " + ' M ; .*0' 2' * =, ' 2' , / *' 81-.) =' 3 1 ' . ' T' .**' & /9 2.12 ' 'NKN' ._ %X% 26// ' 2' 62% ' ' ' 1-' ,)*')6/0% M620' : *D% X , *-= C ` /AH' * -*8 '6' " 'M6.' */.*8)*-*' -*20*-*0X' 1-' . ?=/*' , ; D% - *2,6/ .>)1/6-.' 1-' ,)*' ?1., '=6-, '>12. 0*-' ,)*' " 1' % " '620' ,)*' + ' , 1' D*' 12*' 620' ,)*' .6?*' ?; . >6/ 2^ .,-; ?*2, T' D ; , '.1?*' D/ >6/ >-, >.' -*56-0' ,)*' " %" ' 620' ,)*' + "(M 2+6- 6D/ ' -*20*-*0 , -; ?=*, J' 2' ,)*' % %X' 6.' D*/125 25' , 1' ,)*' .=*> *.' 1 ' ,)*' + 1' ,)*' 5*2*-6/ , *--6' 1-' 6')1-2' MB1*/ - // ' 2' =-* 6>*' , 1' <*20*/..1)2 .'+*-. 12' 1 ' ,)*' .6/? .X% 8D) 2' 0 ., 25 ; .)*.' + ' ' ,)*')1-2' 1-' >-119*0' , -; ?=*, J' -1?' " " "1' ., -6 5), ' , -; ?=*, ' 62' 2., -; ?*2, ' 6' > ; D , ' 2' /*25,)')1//18' ,)-1 ; 5)1 ; , ' 620' 6, ' ,)*' /6-5*-' *L, -*? , ' .1' .)6=*0' 6.' , 1' -*.*? /*' , D*' ?1 ; ,)' 1' 6' .)1-, ' D // J' I1& " ' L>+% ' % X' D ; , ' ,)*' 5*2*-6// ' -*>*' +*0' 1= 2 12' .' ,)6, ' + (' 0*. 526, *.' ,)*' >-119*0

)1-2 ' 620' " % ' ,)1' /125' 620' .,-6 5),' 12*% (/ *' '=-1=*-/ ' 0*21,*.' 6' .)- // 8 20' ? / ,6-A' 2.,-;'? *2,'1 '8110'218' ?1../ ' .;=*-.*0*0' D ',)*' ! , 86.' D/182' 8 ,)'6' ?1;,/ C= *>*' 620' +6- *0' 2' . [*' 620' ,12*' M< *-.*22* .' 2 ' 2 (8' ()*' .1;20.' *? ,,*0' -1?' ,)*' >1-2*,' 2' ?10*-2' , ?*.' 6-*' *L>**0^ 25/ ')6-.) ' 6/,)1;5)' ,)* ' =-10;>*' 7' .1/*?2' * *>,% **' $!

2> *2,'MB1?*,.d 6' -1?' /*->;/62*; ?1' /P -1?' 6/?*,%

I` ()>' . /+*-',-; ?=*,.' 8) >)' <1^ .*.' 86.' >)6-5*0',1' ;-2 .)' 1-',)*' .-6*/ ,*.' 8*-*' ,1' D*' ;.*0' 1-',)*' 1//18 25'=;-=1.*.d 1-',)*' >6// 25',1^ 5*,)*-' 1 ',)*' 6..*?D/ ' 1-' ,)*' A1;-2* 25' 1 ',)*' >6?=.' 1-' .1;20 25',)*' 6/6-?' 1 ' 86-' 620' 1-' >*/*C D(6, 25',)*' .6>- >*.' 12' *., +/.' 620' 2*8' ?112.' M ;?% d' C X% ()1'0 + 2*' >1? ?620',)-1;5)' <1.*.' 86.' -*.,- >,*0',1',81',-; ?=*,.' 12/ ' 620',)*.*' 8*-*',1' D*' .1;20*0' D ',)*' .12.' 1 ' 6-12',)*' 621 2,*0'=- *.,.' 1 ',)*' .62>,;6-A' 620' 21,' D ' /6 ?*2% ,' 81;/0' .**?')18*+*-',)6,'6,'6'/6,*-'=*- 10'62' ?=-*.. 12'=-*+6 /^ *0',)6,' ` 8) /*',)*',-; ?=*,.' 8*-*' . % 1-*0',1'D*' .1;20^ *0'12/ 'D ',)*'=- *.,.' " ',)*' .62>, 6-EI',)* ' ?5),' D*' ;.*0'D '1,)*-. '21,'1 ',)*'=- *.,)110' " ',)*' .6^ >-*0'*0 >*'M 12-60' 9*2 .'& 24 '2 " 1'=6-% ' .**% + ' I 6>*-01,;?' >;?' 2.,-;?*2, .' =.1-;?IX% 2',)*' 65*' 1 ' 1/1?12',)*' I. /+*-',-;?=*,.' 8*-*' 2^ >-*6.*0' 2' 2;?D*-',1' K ' MK')-12% + ' KXT' 620' 20*^ =*20*2,/ '1 ',)*' 1DA*>,.' 1-' 8) >)',)* ')60' D**2' -.,' 2,-10;>*0',)* ' 8*-*' 218' *?=/1 *0' 2',)*' 1->)*.,-6' 1 ',)*' (*?=/*6.'62'6>>1?=62 ?*2,',1'.125.'1 ',)629.^ 5 + 25'620'=-6 .*%

1 *-' 7.*0' .1?*, ?*.' 1-',)*' `*6-' 1 'B;^ D /**' >1?=% *+% LL+' N'/1 '8 ,)'LL+ KQ'N X'5*2*-6// ' 0*21,*.',)*' 2.,,;,12' 1 'B;D /**'7 D;,' 2' .1?*' 2.,62>*.',' .' .=19*2' 1 '6.' 6' ?;. >6/' 2^ .,-;?*2,'-*.*?D/ 25' 2' ,.' 1DA*>,' '21,' 2' ,.' .)6=*' ,)*'+ '620',)*' + %" ' 4*.*2 ;.'=-121;2>*.' " ' ,1' D*' `62' 121?6,1C=1*, >' 81-0' * " '1-'6' A1 ;/.1;20'620')*2>*' 6==/ *0',1',)*' .1;20' 1 '6',-;?^ =*,'. 526/' / 9*' M`6/6-? ' ;?% L' XT' 620' -% <129' .' 1 ' 1= 2 12',)6,'`,)*' 81-0' # ' 12/ '62' *=,)*,' I 1'=% '6' 21,*X% , /' ,' .' 0 >;/,' ,1' 0 +*.,' '1 ',)*' ?*62 25' 1 '6' .1;20 25' 2.,-;^ ?*2,' 2',)*' 1//18 25' 2.,62>*.d ` & )*2',)*',-;?=*,' MD (72X' .1;20*,)' /125',)* ' .)6// >1?1' ;=' ,1',)*' ?1;2,'M L10% L L' NXT' ` 20' ,' .)6// >1?*' ,1' =6.' ,)6,' 8)*2',)* ' ?69*' 6' /125' D/6.,' 8 ,)' ,)*' -6? .')1-2' M7 !77' B1.);6' + ' XT' ` 20' /*,' .*+*2 =- *.,.' D*6-'.*+*2',-;?=*,.' 1 '-6?.' )1-2.' M % 7 7' B1.)'+ 'SX' ` **' ($!

'()*' .1;20 25' 1 ',)*' >1?*,'M7NI ' 7 = X' 86.' ,)*' 0 .,25;.) 25' - ,;6/ *6,;-*' 1 ',)*' *.,+6/ 6=^ =1 2,*0' D ' <1.*.',1' D*')*/0' 12',)*' -.,' 06 ' 1 ',)*' .*+*2,)' ?D2,D';20*-',)*' 0*21? 26, 12' 1 ' `6' 06 ' 1 ' D/18 25',-;?=*,.' M: 7/ ' 0 ' ;?% LL L' X' 1-' `6' ?*?1-6/1 'D/18 25'1',-;?=*,.I' M27. 7 ' LL 'K XT' 620',)6,'-,*' .'., //' 1D.*-+*0' D ',)*' B*8.' 2',)*-' >*/*D-6, 12' 1 ',)*' .6?*' *., +6/' 8) >)',)*' 218' >6/' `,)*' 06 '1 '?*?1-6/'M!M(7 + ' /7.1 I *8' *6- M B B / OHL X% ` 1?*' >1? ?*2,6,1-.' .6 .' 1.*2?;//*-' `)6+*' ?60*' ,) .' *., +6/ -* *-',1' ,)*' X' 8)*2>*' ,' .' .1?*, ?*.' >6//*0' D ',)*' B*8.' ',)*' 20 25' 1 ' .66>

M=2 TC' ;,' ,' .' ?1-*' =-1D6D/*' ,)6,',)* 26?*' 1 ',)*' *., +6/' .' 0*- +*0' -1?',)*' ; .;6/ 9 20' 1 ',-;?=*,.' M-6? .')1-2.X',)*2' 2' ;.*' 620',)6,',)*' 1D^ A*>,'1 ',)*' *., +6/' 86.',)*' >*/*D-6, 12' 1 ',)*' 2*8' *6-' 620',)*' *L)1-,6, 12',1',)629.5 + 25.' 1-',)*' D/*.. 25.' *L=*- *2>*0' 2',)*' *6-' A;.,' 2 .)*0% ()*' ;.*' 1 '>1-^ 2*,.' D ',)*' =- *.,.' 2' 6/' ,)*' > ,*.' 1 ',)*' /620' 21,' 2' B*-;.6/*?' 12/ ' M8)*-*',81' . /+*-',-;?=*,.' 8*-*' 600^ *0' 8) /*',)*' *+ ,*.' >)62,*0',)1' Q .,' .6/?X' 86.' 6' .;,6D/*' ?*62.' 1-',)6,' 1DA*>,' ID ' +1% ' 1% NN ' 12' *+% LL ' K X%

/,)1;5)',)*' *., +6/' 1 ',)*' -.,' 06 ' 1 ',)1' .*+^ *2,)'?12,)' .'0*21? 26,*0' D ',)*' < .)26' ` *8' *6- ' 620' 21,8 ,).,620 25',)6,' ,' 86.' 1D.*-+*0' 6.' .;>)'D ' ,)*' : *D-*8.' 2' ,)*' 65*' 1 ',)*' .*>120',*?=/*',)*-*' .' 21' -*6.12'8)6,*+*-',1' D*/ *+*',)6,' ,')60' .;>)'6'26?*' 1-' >)6-6>,*-' 2',)*', ?*.' 1 ' <1.*.% ()*' *2,6,*;>)' L*.',)*' +*-26/*_; 21L'M,)*'=*- 10' 1 ',)*' 2.,,;, 12' 1 ',)*' 6..1+*-X 6.',)*' >1? ?*2>*?*2,' 1 ',)*' B*8 .)' *6-T D;,' 1-' ?1-*',)62',8*2, ' >*2,;- *.',)*' B*8.')6+*' 06,*0',)* -' 2*8' A *6-' -1?',)*' 6;,;?26/*_; ^ 21L' 8) >)',69*.'=/6>*' 6D1;,'G *.*6.12'8)*2',)*_*.^ ,+6/' 1 ',)*' 06 ' 1 '.1;20 25',)*' >1-2*,' .')*/0% 6D^ D 2 >6/,-60 ,12' -*=-*.*2,.',) .' *., +6/' 6.',)*' 622 ^ +*-.6- '1 ',)*' >-*6, 12' 1 ',)*' 81-/0 'D;,',)*' .,6,*?*2,' -*>*+*.' 21' 0 -*>,' .;==1-,' -1?' >- =,;-*% 2',)*' >12,-6- ' <1.*.' *L=-*../ ' 0*>/6-*.',)6,',)*' ?12,)' & ' M,)*' ?112' 1 ',)*' .=- 25X' .' ,1' D*' -*56-0*0' D ' ,)*' : *D-*8.' 6.' ,)*' -.,' ?12,)' 1 ',)*' *6-a' `() ' ?12,)' .)6// D*' ;2,1' 1;',)*' D*5 22 25' 1 ?12,).T .',.)6// D*',)*' -.,' M 7X' ?12,)' 1 ',)*' *O-' ,1' 1;' M L 7A9 'KX' M<;9' 2 1' =% Q' "8' *>' F f 1

()*' 2,*2, 12' 1 ',)1' 6==1 2,?*2,' 1 ',)*' *., +6/' 1 ',)*' .1;20 25' 1 ',)*' >1-2M7, '6.' 8*// 6.',)*' 0;,*.' 1 ',)*' .6>-*7' 2.,,;, 12' 6==*6-',1' D*' .*,' 1-,)' 2',)*' 81-0.' 1 ',)*' =-1=)*,'` 1;20',)*' >1-2*,' M c 77X' 2' U 12' .62>, ',)*' 6.,'=-1>/6 ?',)*' .1/*?2'6..*?D/ 'MB1*/ ' SX% 5-**6D/ ',1',)*' 1-0*-' =' 8) >)',) .' =6..65*' -;2.',)*' 2.,,;, 12' 1 '`,)*' *., +6/' 1 '.1;20^ 25',)*' >1?*,'.**?.' ,1' D*',)*' =-*/;0*' 620' =-*=6-6^ ,12' 1-',)*' 68 ;/06 '1 '6,12*?*2,% ()*' 0 + 2*' >1?^ ?620' 1-',)6,' 6.,' .' >122*>,*0' 8 ,)',)6,' 1-' ',' 06 ' 1 '.1;20 25',)1' >1-2*,' D ',)*' >12A;2>, +*' =6-,>/*' (M + ' 12' ,)*' ,*2,)' 06 ' 1 ',) .' .*+*2,)' ?12,)' .',)*' 06 '1 '6,12*?*2,'M *+% LL 'K X% :*-*' M/9*8 .*X;2,*.',)*' *., +6/' `1 ',)*' 06 '1 '.1;20^ 25',)*' >1?*,'8 ,)',)*' .1/*?2, '1 ',)*' 06 '1 '6,12*^ ?*2,'=-*> .*/ '6.',)*' .6?*' =6-,>/*' >122*>,.',)*' ` *.^ ,+6/' 1 ',6D*-26>/*.' 8 ,)',)*' 1D.*-+62>*' 1 ',)*' >*-*^ ?12 6/ 1 ' `,)*' -;,' 1 ',)*' 606-C,-**',)*' =6/?' D-62>)*. ' *,>% M *+% LL 'N C X% ()*' 81-0' `.1/^ *?2' 6..*?D/ 'M ("TKGAX' 2',)*' *+*-.*' -1?'B1*/_;1,*0' 6D1+*' 6==/ *.',1',)*' *., +6/' I* 5),)' 06 ' 1 ' .1/*?2' 6..*?D/ M-77 ' `= #=X' M *+% LL ' 4X',)*' >/1. 25' -,*' 1 ',)*' *., +*' > />/*' 1 '- 'M.**' <6-9.' ' ' 'KR CKX%

. 0.',)*' ;.*' 1 ',)*' >1?*,' 12',)*' *., +6/' 1 ' `D/18 25',)*',-;?=*,. ' ' .' 6/.1' .1;20*0' 2',)D'. 26^ 515;*' 6,',)*' >/1.*' 1 ',)*' .*-+ >*' 1-',)*' 06 '1 '6,12*^ ?*2,' 620' 6?125',)*' B*8.' 8)1' 601=,',)*' -,;6/' 1 ',)*' $ %" '12',)*' .*+*2,)' 06X17 1 ',)*' *6.,' 1 ',6D^ *-26>/*.' 92182' D ',)*' =1.,CD D/ >6/' 0*21? 6,12' 1 ' ',)*' 4-*6,' : 1.6226)' M26I ' 2.,; 2X%J ' ? ,)' Q% +% 3 *S%O $ / !

, 1-2)*-,' 1-' 11-2)*-,% *>' !

1? >*' M4-% -1=8+,' ' ' (G' 6')1- [12,6/ ?1;/0*0' =-1A*>,12' >-182 25',)*' 625/*' 1 '6' D; /0 25h' 1-' 62 ' 1 ' ,' =6-,.' +6- 25' 8 ,)',)*' 0 *-*2,' 1-0*-.' 620' =*- 10.' 1 '6->),*>,;-*% 2',)*' *6-/ ' 41,)>',)*' >1-2 >*' >12. .,*0' 1 '6' >1-D /C,6D/1' M % +%X% 6,*-' 6' 0**=')1//18 ' 8 ,)'6'. ?=/*' ?1;/0 25'M6.,-656/X' D*/18' 620' 12*' 1-' ?1-*' ?1;/0 25.' 6D1+*' I' 620' 8 ,)' /18*-.

62 ?6/.' 1-' 625*/.'- >)/ ' >6-+*0' 2' ,)*')1//18 ' >12., ^ ,;,*0',)*' =-*01? 262,' *6,;-*' & ,)',)*' *26 ..62>*' ,)*' >/6.. >6/ >1-2 >*' -*,;-2*O%

? 6%' d

1-126' % 1? >.%

a

1-126' M 6,%X' ,)*' /18*-' ?*?D*-' 1 ' 6' >/6.. >6/ >1-2 >*' ()*)1- [12,6/ ;20*-' .;- 6>*' 1 ' ,' .' >6//*0' ,)*' !' 25/ .)' *>>/*. 6., >6/ 8- ,*-.' 1 ,*2')6+*' 6==/ *0' ,)*' ,*-26' >1-126' ,1' ,)*' .*? > ->;/6-' 6=. .' 1 ' 6' >)1 -%

1-126, ' M %X' '6'26?*' 1 ',)*' 62> *2,'>/*-5A ' .;=^ =1.*0' ,1')6+*' D**2' 5 +*2' ,1' ,)*?' 2' >12.* ;*2>*' 1 ' ,)* -' .)6+*2' >-182.% ;' 25)6?' 620' 1,)*-.')6+*' .)182',)6,',)*',12.;-*' 6.' ;.*0' D ',)*' 1?62 .,. ' 0 0' 21,'*L .,'6,',)*', ?*' 1 ',)*' 2,-10;>, 12' 1 ',) .' *= ,)*,% ()*>;.,1?' 86.' ,1' >;,',)*)6 -',1' 6' ?10*-6,*' 0*5-**' . ?=/ ' 1-' ,)*' .69*' 1 ' 0*>*2,' 6==*6-62>*' 620' *.=*P 06 / ' ,1' 6+1 0' >12 1-? , ' ,1',)*' *L ., 25' 6.) 12' 1 ' 8*6- 25'/125') 6 -% ,%B*-1?*' .6 .',)6,' 212*' D ;',)*' =- *.,.' 1 ' . .' 620' *-6= .')6+*' ,)6+*2' >-182.% ()*,*-?' ' ? 5),' D*' 5 +*2' ,1',)*' >/*-5A 11;,' 1 '-*^ .=*>,',1',)* -' 1 >*' 620' >)6-6>,*-' 8) >)')*-*')*0' 2' 5-*6,')121-% ,' 86.' >;.,1?6- ' 2' 600-*.. 25' D .)^ 1=.' ,1' ;.*' .1?*', ,/*' 1 '-*.=*>,' .;>)' 6.'% ' 1' 620'% ' ' 620',)*' 6//;. 12' ?6 ' D*' ,1' ,)*' =18*-' 1 ',)*' 62)*0- ?' 62' 2>-*6.*' 1 '.*+*-, ' 3' 1 ',)7 -' =- *.,/E' 0-*..' 1-' ,' ?6 ' D*' >12. 0*-*0' 6.' 6' ?*,6=)1- >6/ *L=-*.. 12 ' 0*21, 25',)*')121-' 620' 0 5C 2 , '1 ',)*' *= .>1=6/ 1-0*-J' M 6--6-' .% ' 25)6?' , !' 6 ! + ' +' % 7

M %X' ' , ,/*' ,-60 , 126// ' 5 +*2' ,1' 1;-' ?6-, -. ' ' *+*-;. ' *+*- 62;. ' 6-=1=)1-;. ' 620' >,1- 2;. ' .1' 26?*0' D*>6;.*' ,' .' .6 0' ,)* ' 8*-*' 9 //*0' 2' N ' D ')6+ 25' ' 8 ,)' .)6-=' 26 /.' =-*..*0' 2,1',)*' -')*60.% ' >);->)' *-*>,*0' 6,' 1?*' 2',)*' -')121-' .' ?*2, 12*0' D ' =1=*' 4-*51- ' ' 620' ., //*L .,.% ()*' 6-*' >1? ?*?1-6,*0' 2',)*') ;->)' 1 ' 1?*' 12' 1+% QT ,)*' >,.' 1 ',)* -' ?6-, -01?' 6-*' .=;- 1;.% *' &*,C [*-' ;% &*/,*') "!= ! ' QQ %

I 1.=1-6/' I % ' .>% 8' ,)*' / 2*2' >/1,)' 8) >)' .' .=-*60' 1+*-' ,)*' . ?D1/.' 6 ,*-' >1? ?;2 12% ,' .' .1' >6//*0' -1?' D* 25' 1- 5 26// ' 2,*20*0' ,1' -*=^ -*.*2',)*' .)**,' 2' 8) >)' 1;-' 1-0 .' D10 ' I % 8' 86.' 8-6==*0' 6 ,*-' 0*6,)% ,' .' 1 '/ 2*2' 8 ,)' -* *-*2>*' ,1' ;9*' LL/ ' N% - 5 26// ' ,' 86.' .1'/6-5*' 6.' ,1' >1+*-' ,)*')1.,'620',)*' 8 2*')*2>*',)*' 26?*% ' M f T-1+XT D;,' 2' ,/*' < 00/*' 5*.' ,'->*+*0' ,.' =-*.*2,' .?6//*-' . [*% ,' 86.' -*,6 2*0' D ',)*' 25/ .)' * 1-?*-.% '' : *-[15'5 26 "!' ' NT' & *,[*-';% & */,*') "!= !' 'QQ %

(% % 2' 6//' 65*.' 6?125',)*' .-6*/ ,*.' '" ' 86.',)*' >1?7?12*.,' 1-?' V1 'D10 / ' >)6., .*?*2,'92182' 2' > + /' 1 *2>*.' M *;,% dd ' KX' >% 5% 2' >6.*.' 1 '6', ,*6?' 1 '0 *-*2,' .1-,.' 1 ' D*6.,.' M % >%,)*' 0- +*-' 6.' 8*//' 6.',)*' =*-.12' .,, 25' 2' ,)*' 86512X' 1-, ' D/18.' 8*-*' 2 / >,*0' M< .)26 ' " ! + ' NX%' **' 8 ! ()*' 0*/ 2_;*2,'=-1D6D/

<10*-2' 5 =, 62' 6., 2601%

-*>* +*0',)*' .,-19*.' -1?' 6' .,>9' M>1?=% -1+% L ' N 6' -10' 1 ' .>1-= 12.J' .' 26?*0' 2' ' 25.' L ' ' K' B -12% L ' ' * ,)*-' 6',)1-2 ' 921,, ' .,6 ' \>1?=' +- ' 2' . 01-% , ! + ' K QT ,)125.' 1 ' 1L) 0*' 6->' ?*2, 12*0' 2' *+% L L ' K ' 6.' T D;,' .** 4*.*C 2 ;.' -+ ! =% KN h' 1-' 12*' .1,' 8 ,)' =1 2,*0' =-1A*>, 12.' \4*.*2% - " $! =% Kh' =-1D6D/ ' 62' ;2;.;6/ .*+*- , X' 2' 6' =-1.,-6,*' 6,, ,;0*' M21,' 12' ,)*' .1/*.' 1 ',)*' **,' 6.' 2',)*' ?10*?' 6.,' -+ *;L ' ' RQX' 620' 2',)*' =-*.^ *2>*' 1 ',)*' A;05*' M>1?=% & /9 2.12' ' T 1.*// 2A ' N' =% K XT D;,' 21,' 1+*-' 1-, ' .,- =*.' M *;,% LL+ KX% ()*/6,*-' B*8 .)' 2 / >, 12' M.**',)*' < .)26' = "8 86.' *L*>;,*0' D ' ?*62.' 1 ' 6' ,8 .,*0' /*6,)*-' ,)125' M8) =X' 620',)*' D/18.' 21,' *L>**0 25',) -, C' 2 2*' 2' 2;?D*-' > "' ' T >1?=6-*' B1.*=);. I' & ! + ' Q ' K T' K' 1-% L ' K X ' 8*-*' 0*6/,' D ',)*' 1 >*-' 1 'A;., >*' M! 72X ;=12',)*' >;/=- , ' 8) 1' .,110' D*2,' 1-^ 86-0' MB V6' "' ' KX% ()*' >6.*.' 2' 8) >)' ,) .' =;2^ .)?*2,' 86.' 6==/ *0' 8*-*' .1?*, ?*.' .;>)' 6.' 8*-*' 0**?*0' 6' >6= ,6/ 1 *2>*' D ',)*' 1.6 >' /68' " ' *.=% X% ()6,'.>1;-5 25' 86.'6/.1' 2' +15;*' 2',)*' . 26515;*' 6==*6-.' -1?',)*' *8' (*.,% M<6,,' L ' ' LL ' N X' 8)*-*',)*-*' .**?.',1' D*' 62' 6//;. 12',1',)*' ,)-** 1/0' .*2,*2>*',)6,'=-*+6 /*0' 2',)6,'*>>/*. 6., >6/ >1;-,' M 5), 11,'# ! ! ' = ' NNKXT ',)*' (6/?; /C .,.' 6-*' 21,' 65-**0' 8)*,)*-' 1-, ' D/18.' >1;/0' D*' 2^ />,*0' 2' 62 ' >6.*' $ " ! ' ; ' **' 14 ' >1;-5 25' .' ?*2, 12*0' M >,.' + ' X' 6.' 6' =*26/, ' 2' ,)*' =18*-' 1 ',)*' 62)*0- ?' 62' 2>-*6.*' 1 '.*+*-, ' D* 25' *?=/1 *0' 2' 2.,62>*.' 1 '-*=*6,*0' 1 *2>*' >$ = " ! ' L ' T .**' & *20,' -8 ' " ' ' -/625*2' < ;' **' □ ' ' $20*-' ,)*' - 62' -;/*' >)6.^ ,.*?*2,' 8 ,)',)*' /6.)' 1>>;.-.' 6.' 6' 1-?' 1',1-,;-*' MK <6>>% + ' T >1?=% B;+*26/' L ' T >*-1' ! SNX% ** (' ()*' 1?62' .>1;-5 25' M7=6 d 1 -' % ((8' 8 ,)',)125.' 86.' 2/>,*0' 12' B*.;.' D* 1-*' >-;> /L 12' M<6,,' LL L ' A4' B1)2' L L X' 620' 12' ,)*' 6=1.,/*.' 6.' 6' > + / =*26/, ' M >,.' L+ ' KK' N XT D;,' 1?62' >, [*2.'>1;/0' 12/ ' D*' D*6,*2' 8 ,)' -10.' I ' >*-1' N ! + ' SST' >1?=%O >,.' LL K X% ()6,',)..' =;2.)?*2,'?5),' D*' >6-- *0',1' 6' 6^ ,6/*L,*2,'.'*+ 0*2,' M >*-1' N ! + ' T /;,1' %%! ' KQXT ,' 86.' 5*2*-6// ' 6==/ *0' 8 ,)' *6- ;/.*+*-, ' D ',)*' 1?62' 51+*-21-.' MB1.*=);. ' ' + ' ' NX% ** 1

K%) .>6/ 2A;-*.'>1?? ,,*0' ;=12' 6' -** .-6*/,*' 8*-*' ,1' D*' 6+*25*0' D ' -*,6/ 6, 12' ;=12',)*' 6;,)1-' M L10% LL ' KN' ._% T *+% LL + ' R' ._% ** 5 4 %

N% ' 1-* 52' >1-=1-6/ 2/>, 12.' 8*' ?6 ')*-*' *2;^ ?*-6,*' ,)*' 1//18 25d M %X 6-, 6/ 0>)1,1? ' 1-' ,)*' >;,, 25' 1 '1',)*' 21.*' 620' *6-.' 6/.1' 1 ',)*')620.' 1-' 12*' 1 ',)*?' 8) >)' .=*> *.' 1 '=;2 .)?*2,' 86.' 1 ,*2' =-6>, .*0' 6?125',)*' /6,*-' B*8 . ' D ;',>) * / ' 2' ;,^ ;1;,' , ?*.' MB1.*=);. ' N ' N ' Q X% ' . ? /6-' ?6 ? 25' 1 ',)*',1*.' 1>>;-.' 6?125',)*' 62662, .)' 2^ >0*2,.' MB;05% ' X% 2' 5 =,'.;>)' ?;, /6, 12.' 8*-*' .62>, 12*0' D ' /6 8 T 620' ,' 86.' ;., 6// ' ,)*' ?*?D*-',)-1;5)' 8) >)',)*' 1 *2>*')60' D**2' >1?? ,,*0',)6,' 86.'>;,' 1 'M *O% >% ' QXT ,)*' 60;/,*-*..' ?;.,'*L^ = 6,*')*-' ?*' D ',)*' /1..' 1 ',)*' 21.*' M.1' 6.' ,1' .=1 /)*-' >1;2,*262>*X' 6' =*26/, ' ,1' 8) >)' [*9% LL ' K ' .' ;.;6// '-* *--*0' 6' =6..65*')18*+*-' ,)6,'-6,)*-'-*^ /6,*.',1' 6D /12 62' ;.65*% M 2',)*' *-. 62' >;.,1?' .** d*21=)12' & ! ' R NT ;-, ;.' + ' S' ST + ' ' % 2' 6//;. 12',1' 0>)1,1? ' 1>>;-.' 2',)* *) .,;2' 2.>-=, 12T .** 68/2.12.' *L=/626, 12' =% R' %X 2' >6=, +*.' 2' 86-' .;>)' 0. 5;-6, 12.' 8*-*' 620' ., // 6-*' M ;..*55*-' 5 ' ' NQX' ?1.,' ->9/*../ ' =*-=*^ ,-6,*0% MK%X /20 25' M %7H% 86.' 6')6/06*62' MB*-% ' T K' 25.' LL+ ' X' 620' 62> *2,' *-. 62' =;2.)?*2, M: *-101,;.' + ' QX% ** 4 ' ,' ., // =-*+6 /.' 2' *-. 6' 38 ,)'-*56-0',1' =-2>*.' 8)1' 6-*' .1?*, ?*.',);.' 0*=-+*0' 1 ' 6// =-1.=*>,',)*' .;>>*.. 12T + . 12' .' 21,' *2, -*/ ' 1D/,*-6,*0' D ',)*' =-1>*.:' *?=/1 *0' 2' .;>)' >6.*.' M)6-0 2 ' + ' K NT 1.*2?#//*-' !

K ' ._ ' 6' 0 *-*2,' ,-*6,? *2,' .' ? *2, 12*0' D ' -1>1^ = ; . ' 2')1,% ! SN' =% N&X' ( )*' *L, 2>, 12' 1 ',)*' * *.' 6' =-6>, >*' -* _ ;*2,' 2' *-. 6 M ,*. 6. ' ! SX' .' 26? *0' 2' B ; 05% L+ ' K ' 6.' 6' = *>*' 1 ') / ., 2*' D6-D6- ,X7' 2' ' 6? % L ' K' ,)*' .6? *' 6,-1> , '6==*6-.' ,1')6+*' 1D,6 2*0' 8 ,)',)*' ? ? 12 ,.* % ' & 2*-' ' C% **' + $ ' !

1 - = 1 - 6 , 1 2 ' > ' : / $ ' > 4' $ 3' 62' 6..1> 6, 12' 1-' *>>/*. 6., >6&' =; -=1.*.' .62>, 12*0' D ' ,)*' .,6,*' 620' -*>152 .*0' 6.' 6' > + / =*-^ .12' I % 8! ? 125',)*' ; . ; 6/ - 5) ,.' 1 '>1-=1-6, 12.' 6-*' ,)1. * ,1' 6>_ ; -*' =-1=*-, ' ,1' >12, -6>,' 1D/ 56, 12.' 620' 0*D,. ' ,1' . ;*' 620' D*' .; *0% ( )* -' /*56/ ..6, ; . ' ? 6 ' D*' -*5 ; /6, *0' > ,)*-' D ' 5*2*-6/ /68 .' 6==/ 25' ,1' 6// 3>1-=1-6, 12.' 1 '6' >*-,6 2' >/6.. '1-' D ' .=*> 6/ /68 .' 5 +*2' 1-' ,)*' D*21/ ,' 1 ' 12*' >1-=1-6, 12' 12/ % ' & *, [*-' ;% >/,*') " = ! ' QQ %

1 - = . *' 3* "E *)% A ' N ' 6' 1' 6. -*20*-*0' 2' B ; 05% L & ' Q ' R ' *//. *8)*-*' D10 TJ' % (% 1' K' 25.' L L ' N ' .6% LLL+ ' S ' 6' P' 1-' D10 J' \ ; . ; 6// ' 0*60h ' 6.' */. *8)*-*' -*20*-*0T < 6-9' + ' KR ' 6' 0*60' 'D10 J' 1-' '>6-> 6.* J' 6.' */. *8)*-*' -*20*-*0X ' ,)*' 0*60' D10 ' 1 '6') ; ? 62' D* 25 ' 5**' !

1 - = ; . ' 6 ,) 1 / >1 - ; ? ' I ' " ' " 81' 1 - ? *-/ ' ,)*' >1//*>, +*' 26? *' 1 ' ,)*' 1? 62' 6,) 1 / >' .,6,*.' 1 ' 4*-? 62 ' 6.' >12, -60 .,25 ; .)*0' -1 ? ' ,)*' % '6 N ' M_% +%X' 1 ' ,)*' -1, *.,62, ' ..6, *.% ,' 86.' 21, ' ; 2, / 6 ,*-' ,)*' ,-*6, '1 ' & *.,=) 6/ 6 ' 8)*-*^ 2' ,)*' =1=*')60 ' D ' .*,,/ 25 ' .1' ,1' .6 ' ,)*' - 5) ,.' 1 /X1,)' =6-, *. ' 1 > 6/GE' -*>152 .*0' ,)*' -' *L .,*2>*' ,)6, ' ,)*' *L=-*.. 12' % ' " >6? *' 2,1' 5*2*-6/ ; .*% (>,' ,)*' >12 *0*-6, 12')60' *L .,*0' D* 1-*' ,)*' % ' 6 1' 6.' .' =-1+*0' D ' ,)*')6-? 12 1 ; .' 6>, 12' 1 ' ,)*' 1? 62' 6,) 1 / >' .,6,*.' 6', ,)*' *;' 1 ' ;^ -*? D*-5' 620' ,)*' 0*> . 12.' 1 ',)*' 12 *0*-6, 12' 1 ' 6, C' .D12' M IK X% ( )*' */*>, 1-' 1 ' < 6 *2>*' 86.' ,)*' -*. ^ 0*2,' 1 ',)*' % ' " 1' 8) >)' 5*2*-6// ')*/0' ,.' =-1>**0 25.' 2' 6' >12+*2,' 1 ',)6,' > , ' 2' 8) >)',)*' 0 *,')6==*2*0' ,1' ?**,% ( )*' 6D1/ , 12' 1 ',)*' 4*-? 62' ? = -*' 2' Q S' /*0' ,1',)*' *L, 2>, 12' 1 ',)*' % ' 6 1' 620' 6.' 6' >12.*_ ; *2>*' 1 ',)6,' 1 ',)*' % ' " % ' **' 6D*-' 6 % " ' $ =' / 1' 8) 1 ' 2' +1/% / ' =% KN ' 5 +*.' 6' >1? =/*,*' / . ,' 1 ',)*' ..6, *.' >12. , ; , 25',)*' % ' " :' (1 ? -1- " '$ A " ! I E 620' / $ ' > 4 4 $ <%

1 - = ; . ') - ., G' I ' ' " 81' 6' *., +6/' 2., ^ , ; , *0' 2',) *' 1? 62') ; ->)' 2') 121-' 1 ',)*' >12.*>-6, *0') 1 . ' 620' 1 ', -62. ; D., 62, 6, 12% ,' 18*.' ,.' 1 - 5 2' ,1' 6' 2 ; 2' 1 ')5*' 26? *0' B ; / 626% 2' KQ ' 8) /*' /119^ 25' 6, ',)*' ;// ? 112' .) *' .6 0' .)*' .68' 6' 56=' 2' ,.' 1-D' 620' D ' 6' -*+*/6, 12' -1 ?') *6+*2 ' /*6-2*0' ,)6, ' ,)*' ? 112' -*=-*.*2, *0' ,)*')- ., 62') ; ->) ' 620' ,)*' 56=' ,)*' 862, ' 1 ' 6' >*-,6 2' *., +6/ ' ,)6, ' 1 ' ,)*' 601-6, 12' 1 ',)*' D10 ' 1 ')- .,' 2' ,)1' >12.*>-6, *0') 1 ., ' 8) >)' .)*' 86.' ,1' D*5 2' ,1' >*/*D-6, *' 620' ,1' 6221 ; 2>*' ,1',)1' 81-/0% ; -,)*-' 2' KS ' 8) /*' 6' =- *.,' 6, ' 1/.*26 ' 8) 1' 0 0' 21,' D*/ *+*' 2' ,-62. ; D., 62, 6, 12 ' 86.' 51 25' ,)-1 ; 5) ',)*' >*-* ? 12 ' 1 ' D*2*0 >, 12' ,' .' .6 0' 0-1=.' 1 ' D/110' */ / 12') .' . ; -=/ >*' 620' 8) *2') *' *20*6+1-*0' ,1' >12>*6/ ,)*? ' 2',)*' 1/0.' 1 ') .' 56- ? *2, ',)* ' 1- ? *0' D/110 ' ? 65*.' 1 ',)*') 1 . ,G ' D/110 ' . ; -=/ >*' .', // .6 0' ,1' D*' .) 182' 6, ' + ,6' >>>) 6% $-D62' ' =; D^ / .)*0' 2',)*' .6 ? *' *6-' 6' D ; / / ' 2' 8) >)') *' 6==1 2, *0' ,)*' ( ) ; -.06 '1 ',)*' 8**9' 6 ,*-' *2, *>1.' 1-',)*' >*/*^ D-6, 12' 1 ',)*' *6.,' 1 ' 1-=; .')- ., ',)-1 ; 5) 1 ; ,')- .^ ,*201 ? ' 620' = 8 ? .*0' 6D.1/ ; , 12' 1-' 6' =*- 10' 1 ' -1 ?' 1-, ' ,1' 12*' ; 20-*0' 06 .' ,1' ,)*' =*2 ,*2,' 8) 1' ,119' =6-, ' 2' ,% ,' 86.' 6 ,*-86-0. ' 2*5/*>, *0' D ; , ' 86.' -*^ *. , 6D/ .)*0' D ' /*? *2, ' 620' . 2>*' ,)6, ' , ? *' ,)*' *. I' , +6/')6.' D**2' 1D.*-+*0' 6.' 12*' 1 ',)*' ? 1.,' ? =1-, 62, ' 2' ,)*' 1? ,' ( )*' ? 1.,' ? =1-, 62, ' 2' ,)*' =6-' 6' D ; / / ' 2' 8) >)') *' 6==1 2, *0' ,)*' ( ) ; -.06 '1 ',)*' 8**9' 6 ,*-' *2, *>1.' 1-',)*' >*/*^ D-6, 12' 1 ',)*' *6.,' 1 ' 1-=; .')- ., ',)-1 ; 5) 1 ; ,')- .^ ,*201 ? ' 620' = 8 ? .*0' 6D.1/ ; , 12' 1-' 6' =*- 10' 1 ' -1 ?' 1-, ' ,1' 12*' ; 20-*0' 06 .' ,1' ,)*' =*2 ,*2,' 8) 1' ,119' =6-, ' 2' ,% ,' 86.' 6 ,*-86-0. ' 2*5/*>, *0' D ; , ' 86.' -*^ *. , 6D/ .)*0' D ' /*? *2, ' 620' . 2>*' ,)6, ' , ? *' ,)*' *. I' , +6/')6.' D**2' 1D.*-+*0' 6.' 12*' 1 ',)*' ? 1.,' ? =1-, 62, ' 2' ,)*' 1? .)') ; ->)% =/*20 0' =-1>*.. 12.' 1-?' 6' =6-, ' 1 ' ,% ( )*' >) /0-*2' D*/125 25' ,1' ,)*' >) 1 -' 8 ,)' /65. ' 620' ,) 1' =- *.,.' 8 ,)' / 5) ,*0', 6=*-. ' ? 1+*' ,)-1 ; 5)

,)*' .,-**,.' 2' -12,' 1 ' ,)*' =- *.,' 8) 1' >6-- *.' ,)*') 1.,' 2' 6' =-*> 1 ; .' D1L ' 8) >-*% ,' >62' D1' .**2' ; 20*-' 6' >621= ') */0' D ' 1 ; -' /6 ? *2' 1 ' -629% ' >-180' 1 ' >1? ? 12' =*1=/*' >/1.*.' ,)*' =-1>*.,7 12% ' ;>9 ' ' ! ' .% + %T //P' 1 ,, ' ' ' 5 1' D9% ' >)% + T *5* ' # ! ' ! ' " ! ' & " ' 620' -* *-*2>*.' ,)*-*' 620' 1-' ,)*' 1? .)' + *8 ' ; ,/*-' @ ' '@ 1' ,-*6, .*' L %

1 - =; .' 1>,- 26* ' ,)1' 26? *' 5 +*2' ,1' >*-,6 2' >1//*>, 12.' 1 ' 8 - , 25.' 8) >)' &*-* 2,*20*0' ,1')6+*' 6 ; ,)1 - , ' 2',)*' -1,*.,62,' >) ; ->)*.' 1 ' 4*-? 62 ' ( )1' ? 1.,' ? =1-,62, ' 1 ',)*.*' >1//*>, 12.' 6->' ,)*' 1 1/18 25a % % ' " %% 1' 6/.1' >6//*0' $ ' 1-' BV AC' ' M=; D/ .)*0' 2' S ' 1/% 620' 1 ,*2X% ,' >12, 6 2^ *0' ,)*' ,)-**' 5*2*-6/ . ? D1/.' M,)*' =1.,1/ >' >.*62' 620' ,) 626. 62X',)*' 12 *.. 12' 1 ' ; 5. D ; -5' M,)*V2-6C' (8' 620' ,)*' =1/15 ' 620' < *62>),) 12 .' ' 1' 6 ' , 1' 620' %!' ' !' ; A' !' ,' 86.' >12. 0*-*0' 6.' >- =, 1C 6/+ 2 .,>' 620' + 1/*2, / ' 0*21 ; 2>*0' DE')*' - 51-1 ; .' ; ,)-*62.% ( )*' /*>, 1-' 1 ' 6L12 ' 2' SR',)-*6, *2*0' 8 ,)' 0*=1. , 12' 6// 8) 1' -* ; . *0' ,1' ,*6>)' 2' 6>>1-062>*' 8 ,)' ' D ; , ' . ; D. *_ ; *2, / ' ,) . ' 0*>-**' 86.' -*=*6/*0 ' 620' 6' 2 ; ? D*-' 1 ' 0* *20*-.' 1 ',)*' 81-9' 8*-*' ,- *0' 620' ?=- .12*0% K% ( )*' % ' ' ' ')60' ,)*' .6? *' >12^ ,*2, .' 6.' ,)*' =-*>*0 25' 12*% N% ( )*' % ' ' ' 'M -; . . 62X' 6/.1' >6//*0' 5 % ' ;' J 1' 86.' =; D/ .)*0' 2' S ' 620' 0 -*>, *0' 656 2. ,' ,)*' . 620- 62' *--1-.% ' 0*>-**' 1 ' ,)*' =- 2>*' 2' 4 ' =-*.>- D*0' ,' 6.' 6' -; /*' 1 ' 6 ,)' 1-' 6// , ? *.' ,1' 71? *' 3 620' 0*>/6-*0' ,)6, ' 212*' 8) 1' -* ; .*0' ,1' 6>>*=, ' ,' .) 1 ; /0' -*>* +*' 1 *57

1 - = ; . I + 625*/ >S - ; ? ' I ' ' " ' 6 =' > / X' 1 - ? *-/ ' ,)*' >1//*>, +*' 26? *' 1 ' ,)*' *+625*/ >6/' ..6, *.' 1 ' 4*-? 62 % ( )*' -.' /*65 ; *' 86.' ? 60*' D*^ ,8**2' 6L12E' 620' : *..*' 2' KQ% ,)*-' *+625*/ >6/' ..6, *.' 1//18*0' 620' 6, ' ,)*' -1, *.,6, 12' 1 ' = -*.' 2' SKR ',)*' %1 ' 6 ' 86.' 1-562 [*0% 2',)1' ; -*? D*-5' -*/ 5 1 ; .' =*6>*' 2' NK' ,' *2, *-*0' 6.' ; >)' 2' -*/6, 12' 8 ,)',)*' % ' " ' M_% +%X% ( )*') *60C_ ; 6-, *-.' 1 ',)*' /6, ,*-' 8 *-*' 2' ,)*' */*>, 1-' 1 ' <6 *2>*' 8) /*' 6L12 ' .,110' 6, ',)*') *60' 1 ',)*' *+62^ 5*/ >6/' .,6, *.% ,' ,)*' >/1.*' 1 ',)*' . L, **2,)' >*2, ; - ' -*0*- >' ' */*>, 1-' 1 ',)*' 6/6, 26, *') 6+ 25' D*>1? *' -1, *.,62, ' D*>6? *') *60' 1 ',)*' % ' 6 ' D ; , ' 6 , *-' D*') 60' /1., ' 6// ') .' .,6, *.' 2' ,)*' ( ) -, ' >6-.7' & 6-' 8*0*2' ,119' ,)*' /*60' 8) >)' 86. ') 18*+*-' -*^ .,1-*0' ,1' 6L12 ' D ',)*' *,' 1 ' S N% ,' -' ,)*' */*>^ ,1-6/) 1 ; .*' 1 ' 6L12 ') 60' D*>1? *' 1? 62 .,' ,)*' /*60' 1 ',)*' % ' (6 ' 86.' >/6 ? *0' D ' .*+*-6/' 1,) *-' -1, *.,62, ' ..6, *.' ! *,' ,' -*? 6 2*0' 26// ' 8 ,)' 6L12 ' ,' D* 25 ') 18*+*-' .,=; /6, *0' ,)6, ' ,)*' *2+1 ' 1 ' 6L12 '.) 1 ; /0' -*>* +*') .' 2.,-; >, 12 ' 21, ' -12' ,)*' */*>, 1-' D ; ,' -1? ' ,)*' >1//*5*' 1 ' ,)*' =- + ' >1; 2= / 6, ' -*.0*2% ( )*' % ' 6 ' *20*0' 8 ,)' ,)*' 0 ..1/ ; , M ' 1 ',)*' 4*-? 62' *? = -*' 2' Q S% ' : *-[15' 5 =6 2 %!' ' ST' ; /18 ' 2 " ' "!' !' N ' ' %!' 6 !' M R X%

1 - = ; . ' B ; - . ' 621? > ' 6' >1//*>, 12' 1 ' ,)*' .1 ; ->*.' 1 ' ,)1') ; ->)' /68' 1 ' ,)*' 1? 62' 6,) 1 / >') ; ->) ' >12. ., 25' 1 ' 1/0' >6212. ' -*.1/ ; , 1 /.' 1 ' >1 ; 2^ > /. ' 0*>-**.' 1 ' =1=*.' 620' 8 - , 25.' 1 ') ; ->)' 6,) *-.% ( )*' >1//*>, 12' 5-60 ; 6// ' 6-1.*' -1? ',)*' 0*. -*' ,1') 6+*' V1-' ,)*' 0*> . 12' 1 ' *>>/*. 6., >6/' >6.*.' 6' /68CD119' 1 ' *_ ; 6// ' 5*2*-6/' 6 ; ,) 1 - , ' 6.' ,)*' % ' D ' ' =1 .*.. *0' 2' ,)*' =-1+ 2>*' 1 ' > + / ' /*5 .,6, 12% ,.' >1? =12*2, ' =6-,.' 8*-*' 1- 5 26// ' >1? h ; /*0' 2' .,- >,' ?^ ,6, 12' 1 ',)*' % ' D ' ! ' % ' ! ' 4*2*-6// ' -*>152 .*0' 6.' =6-,.' 1 ',)*' % ' D ' 1' 620' >12.,, ; , 25' 8) 6, ' .' >6//*0' ,)*' % ' D ' 1' 6-*' ,)*' ' ? ' M X',)*' 0*>-*, 6/.' 1 ' 4-*51-E' d' M KN X' 3 ,)*' ' $ ' 1 ' 12 6>*' I ' M K QX' 620' ,)1' ' M N NX% .=; , *0' .',)*' 6; ,) 1 -, ' 1 ',)*' ,81' >1//*>, 12.' 1 ' 6 ' 1 ' =1=*' B1) 2' d d ' M N X' 620' 1 ' ,)*' 6 g' ' M Q X%

4*2*-6// '-*A*>,*0'6-3'218',)*' ' '% ' ' 1 '>6-^ ,69*2' -1?',)*' $ ' ' ,69*2' -1?',)*' $ ' ' ' 1 '>6-^ 0 26/ 0 ' .,' 1$ '& (18'620',)*' ' &% 'D1,)'1'8) >)'8*-*'2',)*'*6-/*-'*0 , 12.' 1 ',)*' % 'D ' 5 +*2'6.'62'6==*20 L',1 ,)*' ' ' !' ()*' .6?*' .',)*' >6.*' 8 ,)' ,)*' D ' D ' 620' 8 ,)' ,)*' $ % '1 ' *,*-' <6,/*8.'1 ' 12.%' I %' -" '@ ' ' ' " ' ! ' ()*' 26?*' % 'D ' '86.'*6-/ '5 +*2',1',)*' ' ? ' '0 ., 2>, 12' -1?',)*' % 'D ' !' ;',-1?',)*' ,**2,)'>*2,;- ',D*>6?*'>;.,1?6- ',1' 6==/ ',)*' 26?*',1',)*' >1//*>, 12' 1 ',)*' /68CD119.' 6D1+*' *2; ?*-6,*0% - 2,*0'*0 , 12.'1 ',)*' >1//*>, 12' 8 ,)',)*',/*'1 ' % 'D ' '01'21,'1>>;-D*^ 1-*',)*'. L,**2,)'>*2,;- % ?125',),1.*' 8)1'6-*' ?1.,'21,*0' 1-'.=*20 25'>- , >6/'/6D1-'12',)*'*0 , 25' 1 ',)*' % 'D ' '6-*' 2,)12 ' >?1>D6->.' M*0% 6- . ' C K'8 ,)1;,' 1'620' 6- . ' S 'N +1/.% 1/%' 8 ,)'% C 8' 8)1'>1?=/*,*0' ,)*' 20* 2 ,*' -* *-*2>*.' 2' ,)*')*60 25.' 1 ',)*' ' 'D ' ?1-*' 6>>;-6,*' .,6,*?*2,.')6-/*.' ;?1;//2' 1-'M6.')1' >6//*0') ?.*/'8 ,)'6'B76, 2'26?*X' 6-% <1/26*,:'M ^ 12.' ,1'620' '1DX'8)1'0*. 526,*0',)*'.*+^ *-6/=6..65*.'1',)*' 'M8 ,)',)*'*L>*=, 12'1' ,)*' 8 8 ,)'21,*.' *' 12,*'1-' 12, ,:'M 2,8% SRC ' '+1/.%Q+1X'8)1' -1?'1/0*-',2=- 2,*0'>1/^ /*>, 12.'600*0' 2' =6-, >;/6-' 2',)*'0*>-*,6/.'1'4-*5^ 1- 'd',)*'% ' S'8)>)'60'D**2'.;==-*..*0' D ' 6 ?;20'1' *226 1-,*' ,)*' ' 5 M %'+%X'8)1.*'81-9'M 1?*' QK'S'+1/.% 1/%X .'6',;?C' 2 C=1 2,'1',)*').,1- '1',)*' % :',)*'D-1,)*-.' -62 1.' 620' *--*' ,)1;' 8)1.*' + 026D/1' 21,*.' 8*-*';.*0'D ' 1' */*, *-' 2').'*0 , 12'M 6- . ' SQ T' 656 2' =[% SR '620' T' 620' (;- 2 ' S K'+1/.% 1/%A' B;.,;.' :*22 25' 1) ?*-' M:6//*' ' 'K'+1/.% ,1XT' *?% ;0% >),*-'M * =[% QNNC QNR '+1/% 2'K'=6-,.' ,1X'8)1'/* ,'1;'6//',)*'6==*20 L*.')6+ 25' 21'/*56/ 6;,)1- , % 1-' ;//*-' 2 1-?6, 12' 12',2*' >1?=12*2,' =6-,.' 1',)*' % 'D ' 1'620' 1-',)*-'/*56/ 6;,)1- , '.**'6-, >/*' ' 8M=%'Q'._%X% **'6/.1' & *,[*-';%&>/,*')" = !' 'QQS%

3 1-=;.'B;-.' + / .'I ' ' ' 8!' **' ($!

1--*>, -*.' 1?62 '6'>125-*56, 12'1'>6-0 ^ 26/.'620' 1?62',)*1/15 62.'1',), C +*' ?*?GX>-.' 6==1 2,*0'D '=1=*' ;.' ',1'-*+.*',)*' '? A' 'M.**' % '* ' 8!' ?125',)*' +*'>6-^ 0 26/.'8)1'D*/125*0',1',)*'>1//*5*'86.':;51' 12>1?C =652;'M.;D.*_;*2,/ '=1=*'4-*51-E7 d X%' ()*'81-9' 86.'>1?=/*,*0'0;-25',)*'=12, >6,*'1'4-*51-'d ' 8)1'1-0*-*0',/*'>1?=/*-.',1' 20*L'6//',)6,')60'D**2' >1//*>,*0'8 ,)'-*56-0',1',)*'0*>-*,;?'D ',)*'>12^ 5-*56, 12'6_0'DXJ1,)*-.',1' 2+,*'6//6,)1/>'6>60^ *?*.',1'>1-1=*-6,*' 2',)*'81-9'1'-*+.12'620',1')6+*'6//',)*'1-?*-'*0, 12.'1',)*' '>1?=6-*0% 4-*51-'.62>, 12*0',)*'81-9'B;/' ' Q%'&*,[*-' ;%&>/,*')" = !' 'QR%

1--10 '% '6'=-1?2*2,'8-,*-'1',)*'6^ , 126/.,>'.0)11/'86.'D1-2'6,'U;->)'B;/'N ' K% :*'86.'60?,,*0',1',)*'?2.,7 2' S1'>12, 2;*0').',)*1/15>6/.,;0*.' 2' *=.>'620':6//*'8)*-*'*.^ =*>6//'*?/*-'M%+%X')60'5-*6,'2/;*2>*';=12')?' 620'86.'2' QS'6==1 2,*0'=-1*..1-'1'*,)>.'620'26,^ ;-6/68'6,',)*'5A?26.;?'1'U;->)% ()*.'=1., 12')*'-*,6 2*0',2,/'/.'0*6,)% *=,% RN% :.'=-2>^ =6/'81-9.'6-*' " " ' ' " I'+1/.% -629 % 620' *=.% Q CQN' ;//'D;,'+1 '0 ;.*'620'6D1;20^ 25' 2' 81-,)/*..' ?6,,*-X' ; " ' 31' ? "!' '* !' !' " !' ; 'M:6//*' RK'K'+1/.%X' " !' & /' !' ? % +'M& 2,*-,);-' QS'K' +1/.%X' N "' '? ' ' ' !' !' !' $ ' M */2' QQX'620',)*'=*-10>6/;' '/ ';' =' ' ' ' ' ' "' ' ' !'5 ('M Q 2;?^ D*-.'& 2,*-,);-' Q C R T',81'2;?D*-.'6==*6-*0' 6,*-').'0*6,)' ;20*-',)*'26?*'1'7 ' ; 8 *-*-'2 2 + 1'+' S T':*-[15'5 6 =' +"%

1--;=, 12'M=-1=''.1?*'1-?'1'/:$' " + "'E' $ I%$aI 8' () .',*-?'.';.*0'2' >-=,;-*',1'.52 ',)*'=;,-*6>, 12'1'0*60'D10*.'M .6/?'L+' X',)*' D/*?.)*.'8)>)'-*20*-*0'62'62?6/;2 ,' 1-'.6>- >* M *+% LL 'K X'.2;/2>/26, 12.')6D,.'620'=-6>^ ,>*.'8)>)'0* /*'620'-;2'?*2'M 1?% + 'K T K* ^ 1,*-'$' K RX'*+*-/6., 25'-;2'M46/6,% + 'QX'?*2'2' ,)*-'?1-,6/'620'?=*-*>,'.,6,*'M' 1-% L+' K X $ ' `/ $/ 'M2H2=G62C7F2' *=,'1=1>' -1+' <1*-L, '+% -% <1*-70N' ;/5% ' 81'6') // 2',)*'2*5)D1-)110'1'B*-;.6/*?'8)*-*' 1/1?12')60'*.,6D/.)*0',)*'81-.)='1',)*' ??12,.)'0*, ' < />1?'8)>)'B1.6)'1+*-,)-18'MK' 25.'LL ' NX' (-60, 12'6..52.',)*'/1>6/, '1',)*' <1;2,'1' ^ *2>*J',1%,)*'*?2*2>*' ??*0 6,*/'.1;,)'1',)*'<,% 1' /+*.'M.**' 6->/6 ' ' '" ' ? '6 1'=% S' ._%T ,62/* ' '=% Q '21,*X% **'($! 1--;=, >1/.*'6'.*>, 1'<121 7 .,*.'8)1',6;5),'),6,',)*' D10'1')-.,' D* 1-*',)*'-*.;--*>, 12' 86.' >1--;=, D/*% **' /'# 'T ! 1,*[' ! **' ' -! 1-,)1/, '62'*? 2*2,' ;,)*-62');->)').,1-62'86.'D1-2'6,' ;-5' 2',)*'./620'1' *?*-2' *2?6-9'B62% ,)' SNK% : .',;0*.'>1?? *2>*0'6,' >)/*.8 5'8*-*'>12, 2;*0'2',)*';2+*-. ,*.'1' 1.^ ,1>9'B*26' *=.>'620'&,,*2D*-5% 2' SSK')*' D*^ >6?*'=-1*..1-'1'4-**9'6,' 1.,1>9'8)*-*')*' 86.' ?60*' % % : *' 86.'6,*-86-0.'>6//*0',1',)*'=-1 *.^ .1-.)='1',)*1/15'6,' */ /X',)*'0;9*'1'1/.,*2C' 41,,1-='620'2' SSS D*>6?*'+>*(>)62>*//1-'1',)6, ;2+*-.,% :*'0*0'<6->)'N'M1-' =-/ ,,X' SR ' :.'=-2>=6/'81-9.'6-*' '% % ' % ' " 1' MB*2% SS ',1T' /*2% SQRXT ' !' ' =' 'M/D% '/% SRQT';D*>' N',1XT' 4 2' '& =;' 'M /' Q'*,>%XT # !' !' 7!'-!'M.=.% SR X'*,>% **' == 25' 1'-" A' 'M =.% V '=% ' .,_%XT ' '!E!E'E E # ! " ": >)-0*9)'M'=% NXT :*-[15'5 =6 + %!+' 'NK% 1-+* ' #'1'6'>*/*D-6,*0'?126.,*-'2*6-: 1L,*-'2'4*-?62 % ()*'*2*0>,2*.'1' 1-D*'OM % X' 2' >6-0'M -62>*X'.*2,'1;,'2'Q S'6'>1/12',1' 1;20'6'>12+*2,'2',)*'1-*.,.'1'1// 25*2'D;,',)*' ?129.'-*?1+*0'2'QKK',1'6'?1-*')*6/,)'-*5 12'8)*-*' ,)*'*..6D/.)*0" * ' 1-' 1-+* % d1;,')*' 1;.'*2018*0',)*?'8,)'2;?*-1;.'=1..*..12.'620' =-+/*5*.'620')'*L6?=/*'86.'1//18*0'D'?62' 1,)*-'=-2>*.'620'/6A7?*2'.1',)6,'1-+* '.112'D*>6?*' ,)*-*>)*.,'1'6//',)*'4*-?62'>12+*2,.% ()*'6DD1,' 1D,6 2*0'6'+1>*'2',)*'0*,.'620'86.'6?*26D/*'12/' ,1',)*'=6=6/6;,)1-, % ()*'.>)11/'1',)*'>12+*2,'86.')5)/'/1;-.)25'0;-25',)*'R,)'620',)*'>*/*D-6,*0'?*2'8)='=-1>**0*0'-1?' 1-+* '86.' 2.56-'M%+%X',)*'6=1./*'1',)*' >620^ 26+62.',)*/*6-2*0'6.>)6.;'6OD*-.;.'M%+%X' ,% 06/D*-,'6->)D.)1='1'<650*D;-5'620'?62'6->)^ D.)1='1' -*?*2'620';6?D;-5% ',)*'=*-10'1' ,.'5-*6,*.,'=-1.=*-,',)*'>12+*2,')60',8*2,C1;-' ,)*1/15>6/'=-1*..1-.'620',./D-6-'86.'>*/*D-6,*0' 1-',.'/6-5*'2;?D*-'1'>/6..>6/'?62;.>-=,% ();.' ,)*'-.,'+*'D119.'1'(6>,;.'8)>)'8*-*'>1?12/' -*56-0*0'6./1.,'8*-*'1;20'2'1-+* % $2 1-,;26,*^ /',)'.*L_;.,*'/D-6-'86.'0*.,-1>0'2',)*'()-, *6-.'& 6-% 2' R'1-+* '86.'*-*>,*0'2,1'6'D.)^ 1=->'D;,'.*>;/6-[*0'2'Q '620'A1 2*0'2'Q ',1' &*.,=)6/6'620'2'Q ',1'-;..6% ` **' & 5620' ? "!' !'& ') 'M:0L,*-'Q RXT'620') " ' ? " " 4 'M =[% Q XT >);?622'N " ' ' " ' * 'M41,,% QNRXT &*,[*-';!'&*//*') " = !' 'QRQ%

1-+2;.' #'M=-1=*-/ ' 3'12*'1' ,)*'4*-?62' *1-?*-.'86.'D1?'6,'& 6-D;-5' 2'

>1. NJL & " :

: *' D*>6 ?*' 6' ?129 '620' 6.' .;>)' -*. 0*0' 1-' 6', ?*' 2' ,)*' >12+*2,.' 1 ' 0065.)6;.*2' 620' 1>>;?')';')6+^ 25' *?D-6>*0',)*' 01>,- 2*' 1 ' ;,)*-' 86.' *L=*//*0' 2' KN% :*',)*2' 8*2,',1' & ,,*2D*-5' 620',)*2>*',1' <6-D;-5' 2' KS' 620' /6 0',)*' 1;206, 12' 1 ',)*' ;2 ^ +*-.,'),)*-*% :*' 86.'=-*.*2,'6,',)*',81' . 210.' 1 ' 6,,*2.*2 ' '620' < /20*2 ' '620' ?60*')?.*/' +*-' ';.* ;/,1',)*' >6;.*' D ') '=-*6>) 25.' 8-, 25.' 620',-6+*/.↑D;',)*' 0;9*' -')' ')6+ 25' -*,;-2*0' ,1',)*' 1?62');->)' 1-+ 2;.' 86.',69*2' 620')*/0' 6' =-.12*-'6,' 6/*2D*-5' 2' R% :*' 0*0' 2' :621+*-' 2' N% ':.'=-2> =6/' 81-9' .',)*' ' % (! **' 6- 25' ' ('M:622% RX' $)/)1?' $ 1' !& 'M' G '8% " %" " '6 'M41,,25*2' Q NX' :*-[15' 5 =6 "(8%! ' SS

1.'M' <6>>% d 'KNX% **' 11.

1.6?'M 8A0 '=-1D% 1-' :>D% ='6' 1' .12' 1' /?106?'620' 6,)*-' 1' 00' 62>*.,1-.' 1')-.,'620'0*.>*2062,.' 1' 6+0' 2',)*'=-+6,*'/2*' D* 1-* 6/;,)*/M ;9*' 'KQX' % %62,*' QQ% :*.' 21,' ?*2, 12*0' 2',)*' /0' (*.,6?*2,% **' & N 4 <&F: ' ' 3!

1.2'(' '6'/*6-2*0'=-*/6,*' 1',)*');->)'1' 25/620'86.'D1?'6,' 1-8>)' 1+% N R % 2' SK')*' D*>6?*'6'=-*D*206-'1' ;-)6?'2' SKQ'-*>,1-'1' -62>*=',/'2' SN'?6.,*-'1' *,*-C)1;.*'620'2' S' 0*62'1' *,*-D1-1;5)% ()*' ;-,62.'0*=-+*0')?'1').'=-*'*-?.2,.'0;-25',)*' 1?7128*6/,)'620'*+*2' 8*2,',)*''?5,)'1' ?=*6>)25')?'12'6'>)6-5*'1'D*^ 25' 2>/2*0',1'=1=*-'% M 1-',)*'>)6-5*.' .'**' :119' 6 !';%" ' +' QK% :*' 86.'6>_;,,*0'1'6//',)*.*'>)6-5*.'620',)62'-*,-*0',1' -62>*'8)*-*')*' -*?6 2*0';2,/,)*'-*.,1-6, 12'1')6-/*.' 8)1'-6 .*0')?',1',)*'.**'1' ;-)6?' %K SSR'8)>)'1 >*')*' //*0'8,)'*?2*2/>)6-,'620'[*6/% :*'0*0'2' S K% ?125')'8-,25.'6-*'&'# ' '+' ' '"'# 1' $ % ';=;D/.)*0'8,)')' S N% :.'8)1/*' 81-9.'62'>1//*>,*0'2',)*' '& = " ' -" 'M L 1-0' Q NC N' '+1/.% Q+1X%

1.?1.' !'620')'.D-1,)*-' ! < $ '1' -6D 6'/+*0'2',)*' N0'>*2,;-A7' 620'=-6>,>*0'?*0^ > 2*' 6,' 5*6' 2' /> 6% ()*' 51+*-21-' .6.'>1?^ ?620*0',)6,',)* ' 8,)',)*.-',)-**' 1,)*-' D-1,)*-.' .)1;/0'.6>- >*',1',)*')*6,)*2'0*,*.'620'6.',)*' '-*^ ;.*0'.1',1'01'>1??620*0',)*.-')*60.',1'D*'>;',1 ' 2' N N% ()*' 6-*')121-*0'6.'?6-, -.'620'6.'.=*> 6/ =6,-12.'1'=) .>62.'620'0-;55..,% ()*'6-'>1?^ ?*?1-6,*0'2',)*' 1?62');->)'12',)*'K,)' *=,% ' &*,[*-',%&*/,*') " = 'R KT & '$ ' M *=,%',1?%L

1.?6.'620' 6? 622.'< '62'1-0*-' 1'92 5),.'.=-,;6/' 1;20*0'2',)*' ,)'>*2,;-EI'8)1' 601=,*0',)*'-;/*'1' ,% *2*0>,%' ()*'0*+1,*0',)*?^ .*/+*.'*.=*>6// ',1',)*'>6-*'1',)*'=/5-?.'51 25',1' 6/*.,2*% ()*'8*-*'0*..-1 *0'D',)*'%(;-9.'.112' 6 ,*-',)*-'1-562 [6, 12%

1.?6.' 20>1=/*;.,*.'M% *% ' 9 8'62' 5E=,62'?129'/+25'=-1D6D/'6D1;,',)*' ? 00/*'1',)*'S,)'>*2,;- % :*'+.,*0'6.'6'?*->)62,' 5A=,' 20 6'620'1,)*-' 6.,*-2'>1;2,-*.'620'8-1,*' 6'81-9'*2,,/*0'O%)*'-1(-1 =67>-'2'8)>)')*' ;20*-,119',1'.;D.,.;,*' 1-',)*'=6562'5*15-6=)'1' ',)*' 62>*2,.'6'2*8')-.,62'.. .*?'1'5*15-6=)E' D6.*0';=12'6//'9 20.'1'0*/;.12.% : .'81-9'.'>12^ ,6 2*0'2',)*'.*>120'+1/;?*'1'<12,6;>12.' 2 '% '?'M 6-.' X%

1.?1512 'M-1?' ',)*' '620' 8'.,-->,/',)*'.>*2>*'1',)*'1-52'1',)*' *6-,)% ()*',*-?'.'6==/*0'6/.1',)*'+6-1;.',)*1^ -*.'1',)*'1-?6,12'1',)*'?6,*-6/';2+*-.*% '8*' *L>*=,',)*'>1.?1512'1',)*'20 62.'M8)>)'.'1-',)*' ?1.,'=6-,'*L,-6+6562,'620'*+*2'?12.,-1;.'6/,)12;.' ?=/*-. .,*?T .*** -'& // 6?': 6? /,12.'& '5 " '+1/%+X' ,)*'*6-/*.,'=-1 62*'>1.?1512'*L,62,'.',)6,'1':*. 10' M2',)*' -.,'=6-,'1')'-" '+*-' SC KX'8)>)' .'0*/+*-*0'2'+*-.*'620'8)>)'.*-+*0'6.',)*'5-1;20^ 81-9'1-',)*'+6-1;.'=) .>6/.=*>;/6,12.'1'?1.,'/6,*' 4-**9'=)/1.1=)*-.% 8 0*/'-1?',)*'21, 12' 1' :1?*-'I1 D'L+'K RX'8)>)' .'6/.1'=1*,>'620' -*=-*.*2,*0',)*'?1-*'=1=;/6-'+*8'1',)*'4-**9.'12' ,).';DA*>,% ()*' -.,'=-1.*'>1.?1512*.'6?125')*6^ ,)*2'8-,*-.'8*-*',)1.*'1',)*'*6-/'12>')/1.1^ =)*-.'1'8)1?'()6/*.' 26L ?*2*.' 26L ?620*-' 620' 26L651-6.'8*-*',)*'?1.,'>*/*D-6,*0% ()*',)*^ 1-*.'1',)*'62>*2,.'12',).';DA*>,'?6 'D*'-*0;>*0' ,1',)-**'1' 1-',)1.*'1'?10*-2.'.**' '% 1-',)* + *8'1' + 0'M2'). % 8'.**' ! % ()6,'8)>)'-*=-*.*2,.',)*'81-/0'6.'*,*-26/'2' 1-?'6.'8*// 6.'.;D.,62>*% >*//;.' ;>62';.'12*'1' ,)*'?1.,'62>*2,'=)/1.1=)*-.'8)1'.;==1.*0',)*'81-/0' ,1')6+*'*L.,*0'-1?'*,*-2, % - .,1,/*'6==*6-.',1')6+*'*?D-6>*0',)*'.6?*'01>,-2*% :.',)*1-'.',)6, 21,'12/',)*')*6+*2'620'*6-,)'D;,'6/.1'62?6,*'620' 262?6,*'D*25.'2'5*2*-6/'8*-*'8,)1;,'D*5 22 25% :.'1=2 12'-*.,*0'12',)*'D*/*'*>,'1'6'>6;.*'*_;6// '*,*-^ 26/'.;>)'6.',)*' +2*' =-,'8)>)'D*25'6,'12>*' =18*-'620'6>,12'>1;/0'21,'-*?6 2'0/*% *,')1'60^ ?.,,*0',)6,'6'.=-.;6/.:D.,62>*'86.',)*'>6;.*'1',)* ;2+*-.*'1'.,.'?1,12'620'.,'1-?% :*'.6.'=1.^ ,+*/''2')*'6/*.,'=-','I 8'2>1-=1-*6/'?7?1+6D/*' 20+.D/*',)* ?1+*-'1'6//,)25.% >>1-0 25',1')?',)*'2+*-.*' .'/*..'6'>-*6,12',)62'62'*?626,12'1',)*' *,% /6,1'.6.',)*'1-'(=*';2,*0'-1?'*,*-2,'8,)' >)625*6D/*'?6,,*-% ()*'1//18*-.'1',)'.'=)1/1=*-' D1,)'0*+*/1=*0'620'0.,1-,*0',)'0*6% ?? 12;.'6' 0.>=/*'1'-1>/;.',6;5),'2',)*',)'>*2,;-'6,'/* *L620-6',)*'>1C*,*-2,'1'410'620',)*';2+*-.*% *+*-6/62>*2,'=)/1.1=)*-.'M6.'6/.1'?10*?.X)6+= 512*';-,)*-'620',6;5),',)6,',)*';2+*-.*.'12*'8,)' *,%',)'1=212'8*'d*21=)62*.'6-?*2^ 0*.'<*/..;.'U*21'1'/*6'620',)*'<*56->'.*>,% 'K()*',)*1-'8)>)'>1//02.0*-.',)*'1',)*' ;2+*-.*'*,*-26/'D;,'21,',' '86.',)*'=-*+6/25' 12*'6?125',)*'62>*2,.'8)1'..,6-,25'-1?',)*'=-2^ >=/*',)6,'1;,'1'21,)25'21,)25'>1;/0'D*'?60*'>1;/0' 21,'60?,',)*'>-*6,12'1'?6,,*-'E*,'0'21,'D*/*+*'),)6,',)*'81-/0')60'6/86.'D**2'2',.'=-*.*2,'.,6,% ()*'=-1-'.,6,*'1',)*'81-/0'.;D A*>,',1'6'>12..62,';>^ >*..12'1';2>*-,62'?1+*?*2,.'8)>)'>)62>*'6,*-^ 86-0.'?60*'-*5;/6-',)*'>6//0'" ! ()*')?2C >62.'6D /12 62.'620'6/.1',)*' 5 =, 62.'.**?',1')6+*'60)*-*0',1',)'.',)*1-J'M:*20% ;>9'*% +%X% ()*')6/0?62'>1.?1512'6>>1-0 25',1' *-1.;.' 8)*2'0+*..*0'1'6//*51-'.**?.',1'-*.1/+*',*/'2>7 ,).d.,)6,'06-92*..'620'86,*-'*L.,*0'-1?'*,*-2,↑),)6,'*/;.'0+0*0',)*')?0'?6..'620'56+*'D-,)',1' >-*6,12↑,)6,',)*')?62'?20'.'62'*?626,12'-1?' ,)*'0+2*'26,;-*% ()*'>1.?1512'1',)*'62>*2,' *-.62.'.'+*-A'>/;?.% ()*'),-10;>*',81'*,*-26/ =-2>=/*.',)*'12*'5110'>6//*0',1',)*'1,)*-' *+/'>6//*0'-(82-6&↑620',)*'?69*',)*.*',81'=-2^ >=/*.'>12,*20'8,)'*6>)'1,)*-'2',)*'>-*6,17%620'51+^ *-2?*2,'1',)*'81-/0% 6>)'6.')'.=-1+2>*'8)>)')*.,-+*.',1'*2/6-5*'620' " ',)*'?*06,1-',1' ?10*-6,*',)*%-'>12,*2,12.% ()'.'.',)*'?1.,'26-, ^ >6/=/62',)6,')6.CD**2'0*+.*0',1'6>>1;2,'1-',)*'*L^ ..*2>*'1'*+/'620')6.',)*'=-*,*2.12.',1'6'=)/^ 1.1=)>6/D6..% ()*'5=,62'>1.?1512'6>>1-0 25' ,,X',)*'6>>1;2,'5+*2'1','D'/;,6->)'.**?.',1'D*6-' 6'.,-125'-*.*?D/62>*',1',/*')1*2>62'6.'0*,6/*'D' 62>)12 6,)1% >>1-0 25',1',)*'5=,62'6>*=;2,'),)*-*'86.'62'*,*-26/*>)61.'620'62'*,*-26/*.=-,';2,*0' 8,)',8)1.*'65*2>'6,'6..;6--625*0',)*'0.>1-062,' ?6,*-6/.'620'=-10;>*0',)*'+.D/*..,*?'1',)*';2^ +*-.*% ()*'>1.?1512'1',)*' 1-,)*-2'26,12.'6.'

=- 2> =/*' =- 1-' ,1' ,)*' 1-?6, 12' 1 ' ,)*' 81-/0 ( )*' -=) >' -65 ? *2, .' .,6,*' *+*- ,) 25', ,1') 6+*' *L .,*0' 2' 410 '620', ,1' =-1>**0' -1 ?') ?J' M & 6, .12 ' . + -*6^ , 12X ( )*' 62> *2, '=1*,0 ' 8) 1') 6+*' D620*0' 0182', 1' ; .' ,)*' 1/0' ? ,)1/15 >6/ , -60 , 12. ' -*=-*.*2, ' ,)*' ; 2 C 0 *-.*' 6.' .=- 25 25' -1 ?' >)61.' 8 ,)1 ; ' ,)*' 6.. .,62>*' 1 ' ,)*' * , : *. 10' * 52.' ,) 6, ') 61.' 86.' ,)*' =6-^ *2, ' 1 ' -*D ; .' 620' 5), ' -1 ?' 8)1.*' ; 2 12' .=-625' ,)*' -' M VN7A =X 620',)*' 6 : *' ; -,) *-' -*/6, *.')18' ,)*' .9 '620',)*' .,6-.' 8*-*' .*=6-6, *0' -1 ?' ,)*' *6-,) ' *,> ()& ' . .,*?' 1 ' 6,1 ?.' .' ? ;>)' ?1-*' 6?1 ; . *;> ==; ' 620' *?1>-, ;.' 1 ' D0*-6' 8*-*' ,' 2+*2, ^ 1-. ()*' 6,1 ?. ' 1-' 20 + . D/*' =6-, >/*. ' .6 0',)*\ 7' *L . ,*0' -1 ?' *, *-2 , ' ?1+ 25' 6, ') 6[6-0 ' 620' =-10 ;^ > 25' D ' ,)* -' >12. .62, ' ?**, 25' 6' +6- *, ' 1 ' . ; D^ . ,62>*. ,*-') 6+ 25' 5 +*2' - . *' ,1' 62' ?'?*2.*' +6^ - *, ' 1 ' >1?D 26, 12. ' ,)* ' =-10 ; >*0',)*' =-*. *2, ' 1-^ 562 [6, 12' 1 ' D10 *. ( ) . ' . ,*?' 1 ' >1. ?1512 ' 86. ' ,) 6, ' 1 ' = >; -; . ' 6. ' 0*. >- D*0' D ' ; >-*, ; . ' *?1 >^ - , ; . ' 6,, - D ; , *0' , 1' 6,1?. ' 1-?' 620' . [*! = >; -; . ' 600*0' 8* 5), , < 62 ' 1,) *-' . ,.*?. ') 6+*' *L . ,*0 ' 8) >)' ? ; . ,' D*' >/6. .*0' ; 20*-' ,) . ' 0 + . 12 & *' 12/ ' ?*2, 12',) 6, ' 1 ',)*' , 1 >. ' 8) 1' 60? , ,*0', 81' =- 2> ^ =/*. ' 410' 620' ?6, ,*- ' ' 2', /*' 6D. , -6>, ' D1,)' >1-=1-*6/ ' 1-',)* ' 0 0' 21, '60? , '. = - , ; 6/ D* 25. ( )*' -. , '86. ' 6>, +*' ,)*' .*>120' =6.. +* N ( )*' ,) -0',)*1- ' 1 ' >1. ?1512 ' 6, ,- D ; , *. ' ,)*' 1- 5 2' 1 ',)*' 81-/0', 1' 6' 5-*6, '. = - , ; 6/ >6 ; .*' 1-' -*6^ , 1- ( ) . ' .' ,)7' 01>, - 2*' 1 ',)*' .6>-*0' >- =, ; -*. ' 2' 8)>)' , ' . ', 6 ; 5), ' 8 ,)',)*' 5-*6, *. ' , . ?=/ > , ' 620' D*6 ; , * -1 ?' , .' D* 25' ?1-*' 1-' /*. , ')*/0' D ' ,)*' ,-; . >62. ' < 65 ' -; 0. '620' -6) ? 2. ' , ' 8 1 ; /0' .**?' , 1')6+*' 1 ; 20' , .' 8 6 '6. I' 6', -60 , 12' -1-, ' ,)*' I*5 12. ' 2' 8)>)' , '86. ' =1. .*. .*0' 6. ' 6' 0 + 2*' -*+*/6, 12 2^ 6L651-6. ' 86. ' ,)*' -. , ' 8) 1', 6 ; 5), ' , '6?125',) */0' D ' ,)*' 620' , ' 86. ' , 1' .1?*' *L, *2, ' 601=, *0' D ' ,)*' 1-?62. ' 21, 8 ,) . , 620 25',)*' * D-, . ' 1 ' ; >-*, ; . ' , 1' *. , 6D/ .)' ,)*' 01>, - 2*' 1 ' = >; -; . J' M ; >9X ' /7- 4110 ') 18^ *+*- ' . 1 ') 6, ') . ' + *8' 86. ' 6-' -1 ?' 5*2*-6/6?125' *+*2',)*' ?1. ' , >; /, +6, *0' 26, 12. ' 1 ' 62, _ ; , ' 1- 2C 01*0' ; 2 _ ; *. , 12*0' D ' *6-/ ')- . , 62' 8 - , *-. ' I*$ "' ' 7 '= K X+' *>' #! < 4 ' 1-',)*' D/ >6/ 6>>1 ; 2, ' 1 ' ,)*' ' " ' *. =*> 6// ' 6. ' >12, 6 2*0' 2',)*' -. , ' >)6=, *-' 1 ',)*' /119' 1 ' 4*2*. ( )*' 1//18 25' . ' 6' >/1. *' , -62. /6, 12' 1 ',)*' -. , ' M /1) . , >X >-' 5*2*-6/ 6>>1 ; 2, ' 1 ',)*' >-*6, 12' 6. ' 5 +*2' D ' < *. *. ' M 4*2 ' C ' NX **' & ! 3 ; -. ' 410' >-*6, *0' . ,)*')*6+*2. ' 220',)*' *6-,) ') . ; ',)*' '" 866 86. , *' 620')6+*' \M6' . >*2*' 1 ' ? 2 h ' 620' 06-92>\H. ' \86. h' ; =12' \,)* 6>*' 1 ',)*' 6D . ' 8) /*',)*' = - . ' 1 ' 410' \86. h' D-110 25' ; =12' \,)* 6>*' 1 ',)*' 86, *-. ( )*2' 410', 6 0 ' `` *' \,)*-* D*' / 5), /J' 620' \,)*-* 86. ' / 5), ' 620' 410' .68' ,)*' / 5), ' ,)6, ' \, ' 866 5110 .1' 410' 0 + 0*0' D*, 8**2' ,)*' / 5), ' 620',)*' 06-92*. 6' 620' 410' >6//*0' ,)*' / 5), ' # ') ' ; ' ,)*' 06-92*. ') *>6//*0' * ' ( ) ; ' \,)*2 86. ' +*2 25' 620' \,)*-* 86. ' ?1-2 25 ' \, / * -*, 06
 ()*2' 410' .6 0 ' *' \,)*-* D*' 6' -?6?*2, ' 2',)*' 2 06, ' 1 ',)*' 86, *-. ' 620' /*, ' \, h' D*' 6' 0 + 0*-' D*, 8**2' \,) . h' 86, *-. ' \D*18', h' 6. ' .1' \,) Mh' 86, *-. ' \6D1+*' . h' .1' 410' ?60*' ,)*' -?6?*2, ' 620' 0 + 0*0' D*, 8**2' ,)*' 86, *-. ' ,) 6, ' \6-* ; 20*-^ 2*6,)' 6. ' , 1' ,)*' -?2?=, ' 620',)*' 86, *-. ' ,) 6, ' \6-* 1+*-)*60' 6. ' , 1' , /*' -?6?*2, 1' 1-' , ' 86. ' 6>>1-0 25/ a 620' 410' >6//*0' ,)*' -?6?*2, ' % r ( ) ; ' \,)*-* 86. ' *+*2 25' 620' \, / * * 86. ' ?1-2 25 ' \,) * .*>120' 06
 ()*2' 410' .6 0 ' *' ,)*' 86, *-. ' ; 20*-2*6,)' ,)*')*6+*2. ' D*' 56,) *-' 25' 1',)*' 86, *-. ')*' >6//*0' + 1' .1' 410' .68' , /' 6, ' \ , ' 86. h' 5110 B (*2' 410' .6 0 ' *' ,)*' *6-,) ' , =-1 ; ' , / *' .=-1 ; ' \W5-2. .* h ' , *' =/62, ' \W622 ; 6/. Xh' . **0 25', **0 ') * . ; .(,-**' \W1' 8110 ' . ,*?Xh' D*6- 25' -; ' 6 .*-' , ' 9 20' , ' 2 8/ >/ ' \CCh' , ' . **0' ; =12' ,)*' *6-,) TJ' 620' , ' 86. ' 6>>1-0 25/ 1 ; -' ,)*' *6-,) ' . =-1 ; ' , *0' ,) *' . =-1 ; ' , ' ,)*' =/62, ' . **0 25', **0' 6 *-' , ' 9 20' 620', / N ' , -**' D*2 25' -; ' , ' 2' 8) >)' \ . h' , ' , ' . **0' 6 .*-' , ' 9 20 a' .1' 410' .68' ,) 6, ' \ , ' 86. h' 5-L O ( ) ; ' \,) *-*h' 86. ' +*+2 25' 620' \,) *-*h' 86. ' ?1-2 25 ' \, / ; h' ,) -0' 06
 ()*2' 410' .6 0 ' B7, ' \,) * *h' D*' / 5), ' , ' 2',) *' -?6?*2, ' 1 ' , D*') *6+*2. ' , 1' 0 + 0*' D*, 8**2',)*' 06 ' 220',)*' 2 5/ , 1' 620' /*',)*?' D*' 1-' . 52. '620' 1-' .*6.12. '620' 1-06 . '620' *6-. 1 *+*2 /*',)*?' D*' 1-' / 5), ' 2',)*' -?6?*2, 1 ',)*')*6+*2. ' , 1' 5 +*' / 5), ' ; =12',)*' *6-,) aJ' 620' , ' 86. ' 6>>1-0 25/ 1 .1' 410' ?60*',)*' , 81' 5-*6, ' / 5), ' , ' ,)*' 5-*6, *-' / 5), ' \W. ; 2Xh' , 1' -; /*' ,)*' 06 '620',)*' . A6//*-' / 5), ' \W?112Xh' , 1' -; /*' ,)*' 2 5), ' ' 6/. 1' ,)*' . , 6-. a' 620' 410' 6==1 2, *0' ,)*?' 2' ,)*' -?6?*2, 1 ',)*')*6+*2. ' , 1' 5 +*' / 5), ' ; =12',)*' *6-,) '620', 1' - ; /*' 1+*-' ,)*' 06 '620' 1+*-' ,)*' 2 5/ , 1' 0 + 0*' D*, 8**2',)*' / 5), ' 620',)*' 06-92*. ' 1' 4 ; 0' .68' ,) 6, ' \ ' 866 H 5110 ( ) ; ' \,)*-*h' 866 *+*2 25' 620' \,)*-*h' 866 2 ; -= 25 ' \,)*h' 1 ; -,) ' 06 .( ) *2' 410' .6 0 ' -h*' ,) *' 86, *-. ' . 86-?' \8 ,) h' ,)*' 68622' 1 ' ,)*' / + 25' >-*6, ; -*' 210' /*',)*' D -0' ' ; =12',)*' *6-,) ' ' ; =12',)*' 6>*' 1 ' ,)*' -?6?*2, 1 ',)*')*6+*2. aJ' .1' 410' >-> ' 6, *0' 5-*6, ' \. *6Ch ? 12. *-. ' 620' *+* ' / + 25' >- 6, ; -*' ,) 6, ' -*' >-*=. ' \8 ,) h' 8/0>)', / *' 86, *-. ' . 8622*0' 6 . *-' . .C9 20T 6/. 1' **+- 8 25*0' D -0' 6 , *-' , ' 9 20T .1' 410' .68' ,) 6, ' \ , ' 8 ; P0h 5110a' 620' 410' D/*. .*0',)*?' .6 25' *' -' ; ,/' 620' ? ; /^ , =/ ' 620' //',)*' 86, *-. ' 2',)*' .*6. T 620' /*',)*' D -0' ? ; /, ^ =/ ' 12',)*' *6-,) J' ( ) ; . ' \,)*-*h' 86. ' +*2 25' 620' \,)*2h' 86. ' ?1-2 25 ' \,) *h' ,)' 06 ()*2' 410' .6 0 ' *' ,)*' *6-,)' D- 25' 1-,)' , -*' / + 25' >-*6, ; -*' 6 , *-' . ' 9 20 ' D*6 . ' \W/6-5*' _ ; 60- ; =*0 . Xh' 620' -*\ C , /*' \W.) 1-, C/*55*0' 62 ? /Y!Mh' 620' \W*+*- 1,)*-Xh' / + 25' \,) 25h' 1 ',)*' *6-,) ' 6 , *-' . ' 9 20T J' 620' , ' 86. ' 6>>1-0 25/ T 1-' 410' ?60*',)*' / + 25' \,) 25h' 1 ',)*' *6-,)' 6 , *-' . ' 9 20 ' 620',)*' D*6. ' 6 , *-' . ' 9 20 ' 620' *+*- ' -*=, /*' 1 ',)*' 5-1, 20' 6 , *-' . ' 9 20 a' .1' 410' .68' ,) 6, ' \ , ' 86. h' 5110 ( ) *2' 410' .6 0 ' *' ; . ' ?69*' ' 2' 1 ; -' ?65*' 6>>1-0 25' .1' 1 ; -' / 9*2*. ' \W,)*' *L6>', -* /*>, 12' 1 ',)*' 0 + 2*' \?*2, 6/h' / 2*6?*2, . Xh T 620' /*, ' ?')6+*' 01? 2 12' 1+*-',)*' .)' 1 ',)*' > 7 6 ' 620' 1+*-',)*' D -0' 1 ',)N ')*6+*2. ' 620' 1+*-',) G D*6. ' 6 /' 1+*-' 6/' ,)*' *6-,) ' 620' 1+*-' *+*- ' -*=, /*' ,) 6, ' >-**=. ' ; =12',)*' *6-,) . 1' 410' >-*6, *0' ?629 20' 2') . ' \182h' ?65*' 2',)*' ?65*' 1 ' 410' >-*6, *0') ? ' \ *, h' ?6/*' 620' *--6/*')*' >-*6, *0',)*?a' 620' 410' D/*. ' *0',)*?' 8)*2' 410' .6 0', 1',)*?' *' -' . ' / 620' ? ; /, =/ ' 620' //,)*' *6-,) ' 620' . ; D0 ; *' . T 620') 6+*' 01? 2^ 12' 1+*-',)*' .)' 1 ',)*' .*6' 620' 1+*-',)*' D -0' 1 ',)*')*6+*2. ' 620' 1+*-' *+*- / + 25' \,) 25h' 1 ',)*' *6-,) ' 620' 1+*-' *+*=. ' 1-' 410' .6 0 ' 1C ') 6+*' 5 +*2', 1' 1 ; ' *+*- ' =/62, ' **0 25' **0' 8) >)' \ . h' ; =12' \, / ; h' 6>*' 1 ' 6/) *' *6-,) ' 620' *+*- ' , -*** 2' 8) >)' \ . h' ,)*' ; ' 1 ' 6', -**' . **0 25' . **0' 1' 1 ; ' . / 6// D*' 1-' 110' 6/. 1', 1' *+*- ' / + 25' \,) 25h' 1 ',)*' *6-,) ' 620', 1' *+*- ' D -0' 1 ',)*')*6+*2. ' 620', 1' *+*- ' \,) 25h' *-*' = 25' ; =12',)*' *6-,)' 2' 8) >)' *L . h' 6/ + 25' >-*6, ; -*' *+*2h' *+* '5-**2' =/62, 1-' 110%J' 20' , '86. ' 6>>1-0 25/ T 1-' 410' .68' *+*- ' \,) 25h' ,) 6, ') *') 60' ?60*' 620' /1C \ ' <l6.h +* ' 5110a' ,) ; ' \,)*-*h' 86. ' *+*2 25' 620' \,)*-*h' 86. ' ?1-2 25 ' ' , >'. L,) 06
 18' 8*-*' 2 .) *0',)*')*6+*2. ' 620',)*' *6-,) ' 620' 6/. ,)*' -6-? \1 ' . , 6-. h T 1-' 410' 2 .) *0' 12',)*' .*+*2,) ' 02 ') . ' 81-9/ 8) >)') *') 60' ?60*' 620' \,) *-* 1-*h' >*6. *0' 12',)*' .*+*2,) ' 06 ' -1 ?' 6/. ') . ' 81-9/ 8) >)' / *') 60' ?60*h ()*2' 410' D/*. .*0' " '-*. , *0Xh' -1 ?' 6/. ') . ' 81-9/ 8) >)' 410' >-*6, *0' 2' ?69 25h

 ()*' . , 6, *?*2, . ' >12, 6 2*0' 2',) . ' =6. .65*' 6->',) 1 ; 5), ' D ' 6' >*-, 6 2' >/6. . ' 1 ' . *? C 2 0*/ =) /1.1=) *-' , 1' D*' 2' >12 / >, ' !8 ,)',)*' >12>/ ; . 12. ' 1 ' -/ ' .> *2>*' * .=*^ > 6// ' 6. , -121? ' 620' 5*1/15 Y & *' 6-*' . ; -*') 18^ *+*- ' ,) 6, ' ,)*' 81-9. ' 620' &1-0' 1 ' 410' >62' 2*+*-' D*' 1,) *-8 . *' ,) 62C 2') 6-?12 ' 620' ' 62 ' >12 / >, ' 6=^ =*6-. ' , ' ? ; . , ' D*' 2' >12. *_ ; *2>*' 1 ',)*' ; 2.9 // ; /2*. . ' 1-' *--12*1 ; . ' . , *?' 1 ',)*' *L=1 ; 20*-. ' * ,)*-' 1 ',)*' D119' 1 ' 26, ; -*' 1-' 1 ' -*+*/6, 12 ()*' 0 >; /, ' >12^ . . ,.' 2',)*' 6//*5*0' >12, -60 >, 12' D*, 8**2',)*' *'" = ' 2, *-=-*, 6, 12J' 1 ',)*' . 6>-*0' -*>1-0' 620',)*' '1-'" '*L=1. , 12' 1 ',)*' 6>, . 2',) . ' 6. ' 2' 6//' . ? /6-' 2. , 62>*. ' 1 ' 6==6-*2, ' 0 . >-*=62>E7' , ' . ' 21' 0 . =6-65*?*2, ' 1 ' =) /1/15 ' ,) 6, ' , ' . ' 1D/ 5*0', 1' ?10 ' =-*+ 1 ; . ' 2, *-=-*, 6, 12. ' 12' 6>>1 ; 2, ' 1 ' 2*8' / 5), ' -1 ?' >1//6, *-6/ D-62>)*' *1=1 ; 20*-. ' * ,)*' 1',)*' >1 ; -. *') 6. ' 6/86 . ' D*** 2' = ; -. ; *0' *5 2',)*' +*- >6^ , 12' 1 ' =-1=)*> ' 8) *-*') . , 1- 7) 6. ' 2*>*. . 6- / ' >1?*' 2' 6. ' 6' . ; ==/*?*2, 6- ' 6 0' 2' L 25' 6' 0* 2 , *' ?*62^ 25', 1' 8) 6, ' D* 1-*' 8I6. ' 06-9' 620' 5*2*-6/ ( ) . ' , ' , -; * ' 81 ; /0' 21, ' D1' 6//186D/*' ' , D*' . >- =, ; -6/ . , 6, *^ ?*2, . ' 2' _ ; *. , 12' 8I*-> *L=/ > , ' 620' 2' 0*, 6 / ' 1-' ' ,)* ' 8*-*' >1 ; >) *0' 2',)*' =-*> . *', *-? . ' 1 ' ?10*-2' . > ^ *2>*' T D ; , ' , ' 6' /*5 , ?6, *' ?*,)10' 1 ' 2, *-=-*, 6, 12' 2',)*' >6. *' 1 ' . ; >)' D- * ' 620' =1=; /6-' =)-6. *1/15 ' 6. ' 8*' 1 , *2' 20' 2',)*' D/*' 12' . ; D A*>, . ' 60+*-, *0', 1' 1-' >1//6, *-6/ =; -=1. *. h ' , ' . ' ,)*-* 1-*' 12/ ' 2**>. . 6-X7 , 1' .)18' ,) 6, ') *' *. . *2, 6/ ' 2*62 25' 1',)*' 626/15 *. ' 1 ' ,)*' ' = 4 ' 1 ' 62' ; 2. > *2, >' =*1=/*' .) 1 ; /0' 21, ' >12 / >, ' ' , ' , ' ' ' , ' ' 8 ,)',)*' >12>/ ; . 12. ' 1 ' /6, *' . > *2, >' 2+*. , 56, 1-. h' **' ? / ! ( ) *-*' 6-*' ,) -**' =- 2> =6/ ?10*' 2' 8) >)' ,) . ' 60^ A ; . , ? *2, ') 6. ' D**2' 6, , *?=, *0' 8 ,)' -*56-0' , 1' <1^ . *. . ' 6>>1 ; 2, ' 1 ',)*' >-*6, 12h M X' 1?*' -*56-0' >) 6=^ , *-' ' 1 ' 4*2*. ' . ' 6. ' 6' 5*2*-6/ . , 6, *?*2, ' 1 ',)*' 1- 5^ 26/ 1-?6, 12' 1 ' 6// >-*6, *0',) 25. ' 2>/; 0 25',) 6, ' 1 ' ?62' 6. ' 6' -6>*' 7,) *' . *+*-6/ +6- *, *. ' . >6, , *-*0' 1+*-

,)*' *6-,)7.' . ;- 6>*1' 620' >)6=' ' 6.' 6'0*,6 /*0'6>>1 ;2,' 1 '6' 4 '>-*6, 12'1 ',)*' 06? >'1-' : *D-*8'/ 2*^ 65*' 2' =6-, >;/6-% ,' >6221,'DS'0*2 *0',)6,',)*' 0 *-^ *2>*' 2'/625;65*'M*.=*> 6// ',)*'0 ., 2>, +*' ;.*' 1 ',)*' , ,/*.' B*)1+6)J'620' /1) ?JX'620',)*'-*.;?=, +*' 1-?' 1 ',)*'/6,,*-' >)6=,*-' .1?*8)6,' 6+1-' ,) .' + *81 D;,'12',)*'1,)*-')620' ,' .'*?=)6, >6// ' 1-D 00*2' D ',)*'01>,- 2*'1 ',)*' ;2 , '1 ',)*') ; ?62'-6>*'M620' ?62J' .' 2' D1,)' >6.*.' 6/ 9*' >6//*0' , /:X'620' 6 ,*-' 6// ,' /*6+*.' *. .*2, 6// ';2,1;>)*0',)*'=- 2> =6/'_;*., 12'1 ',)*'-*>12> /*?*2,'1 ',)*' <1.6 >'1-0*-'620'06,*'1 '>-*^ 6, 12' 8 ,)',)1.*' .;55*.,*0'D ' .> *2>*%I' !*** ! MK%X' ,)*-.' -*56-0' ,)*' .*+*-6/' 06 .J' ',)*' .>- =^ ,;-6/' 26 (6, +*' 6.' =*- 10.' 1 ' 20* 2 ,*' *L,*2,' 620' .1' 20' , ?*' *21;5)' 1-' ,)*' 6.,-121? >6/' 620' 5*1^ /15 >6/' > >/*.' -*_; -*0%' ** > ' ! ; ' ,) . ' 2^ ,*-=-*,6, 12' .' ?*,'D ',81'1DA*>, 12.d M6X' /,)1;5)' ,)*' ,*-?' # I ' 1' .' .1?*, ?*.' ; .*0' 2'6'+65 ;*' .*2.*' 1-' 6' /125*-' 1-' ./6 ,*-' =*- 10' 1 ', ?*' .;>)' 6' . 5^ 2 >6, 12')*-*' .7-D 00*2' D ',)*' 0 ., 2>,' -*>;-^ -*2>*' 1 ',)*' 0 + . 12.' 2 5),'620'?1-2 25J' .,6,*0' 2' >122*>, 12' 8 ,)' *6>)' 1-' .=6>*' 1 ',8*2, C 1;-')1;-.'620',)*' 6DD6,)' >1?*.' 2' 6.' 6' . ? /6-' .=6>*' 1 ', ?*' 6, ',)*' >/1.*' 1 ',)*' 8**9' 2' 6' .*2.*' =-1D6D/ ' .,- >,'620'/ ,*-6/' . 2>*' ,' .' ?60*' ,)*' D6. ' 1 ',)*')*D01?606/ > >/*' -*/ 5 1;./ ' 1D.*-+*0' *+*-' . 2>*% ** # ! 7'MkX'()*'*L6>,' 2;?D*-' 1 ' ' .;>)' =*- 10.' >6221,'D*' ?60*' 1;' .6, . 6>,1- / ' -1?',/ *' -*>^ 1-0.' 1 '.> *2>*d *%5%',)*'6.,-121? >6/' . .,*?'-*_; -*.' ,)*' .;2'6,',)*'1;,.*,'1 ',)*'0*? ;-5 >'=*- 10' 8)*-*6.' <1.*.' 01*.' 21,' 2,-10;>*' ,' , /! ,)*' 1;-,)' 0 '6/^ ,)1;5)'/5),')60'*L .,*0' -1?',)*' -.,'620',)*'/18^ *.,' 5*1/15 >6/' .,-6,6'*L) D ,'62 ?6/' *' 8)*-*6.' <1^ .*.' .=*69.' 1 '+*5*,6D/*.' 6.' >-*6,*0' -.,% ** & L # ! MN%X' *-)6=.*.',)*'D*.,' .1/;,12'1 ',)*'0 >;/, ' .',)6,' 8)>)' 2.*-,.' ,)*'*2, -*' 5*1/15 >6/'=*- 10'D*^ ,8**2',)*'1- 5 26/ >-*6, 12'1 '?6,*-' 2'+*-%' 1 '4*2%' '620',)*/ ,*-6/'6>>1;2,'1 ',)*'/6.,'1-'=-1=*-/ '<1^ .6 >'>-*6, 12'1 ',)*'=-*.*2,'-6>*.' 1 '/ + 25',) 25.'0*^ ,6 /*0' 2'+*-.*.' CN T ',)*' 2,*-?*0 6,*'+*-.*.'MKC X' 0*.>- D 25'%" 1' %'*A;.,' 6.',)*' 6>,.'8%'+*.' 2',)*'*>2^)6+*' 6==*6-*0',1' 6' .=*>,6,1-',)*'5-60;6/ -*.,1-6, 12' 1 '?;2062*' 1-0*-' 6 .*-',)*' 5-620' >6,6>/A.?',)6,' >/1.*0',)*'5*1/15 >6/ =*- 10'620' .8*=,'1 ',)*',*--*.^ ,- 6/ ,- D*.',)*2' *L ., 25T 620' >)6=' ' -*.;? 25',)*' 6>>1;2,' 1-',)*'=;-=1.*'1 ';-,)*-'0*,6 /'*.=*> 6// '8 ,)' -* *-*2>*',1',)*' 1-?6, 12'1 ' +*% ** ! 1-'6' ?1-*' 5*2*-6/*L=1. , 12'1 ',)*' :*D-*8'+*8.' 12',) .' .;DA*>,' .** #! 1.?1/15 >6/ -5;?*2,' 7>*' & g * L $ ' 0 ' #! 1.?1/15 ' 8 6 f ()*' + *8.' 1 ',)*' :*^ D-*8.'12',) .' .;DA*>,'6-*' 2'6'.> *2, >'=1 2,'1 '+ *8' >12 *..*0/' ?=*- *>,'620'1D.>;-*% ()..'6- .*,'=6-,/ ' -1?',)*';/,*- 1-'1DA*>,.' 8)>)'/*0',)*?',1',)*'.;'0 ' 1 '26,;-6/.> *2>*'620'., // ?1-*' -1?'%,)*'=1*, >6/'>1/^ 1- 25'8 ,)*)>)',)* ' *L=-*..*0',)*'=1= 2 12.% ()* D119.'1'4*2*. .'B1D'620' .6/?.';==/ ',)*'?1.,'2;^ ?*-1;.'21, >*.d 1 ',)*.*',)* '/6,,*-'6-*' .,- >,/ '=1^ *, >6/ 81-9.'620',)* -'/625;65*' ?;.,'D*' ?*6.;-*0'D ',)*'/68.'1'=1*, >6/*L=-*.. 12T 2',)*' -.,'6/12*)6+* 8*'62 ',) 25'6==-16>) 25',1'6') .,1- >6/620'. .,*?^ 6, >'.,6,*?*2,'620'*+*2',) .' .'D;,'6'.9*,>) ' 62'1;,I' / 2* ' 8) >)'1;5),',1'D*' -*56-0*0'6,',)*' .6?*'0 .,62>*' -1?',)*' .6?*'=1 2,'1 '+ *8'620',)-1;5)',)*' .6?*'-*^ / 5 1;' ?*0 ;?'6.',.'6;,)1-'-*56-0*0' ,% ()*'6>,'1 ' >-*6, 12' ,.*/ '6.'-*>1-0*0' 2',)*' -.,'>)6=,*-'1 '4*2*^ . .' .' 6' .;DA*>,' D* 120'620'6D1+*' ,)*'*L=*- *2>*' 1 ' ?621') ;?62'/625;65*'0*- +*0'6.' ,'1- 5 26// '86.' -1?',)*'.*2. D/*' 620' ?6,*- 6/81-/0' 6/.' ,1' 20'62' 60*_;6,*',*-?',1'0*.>- D*',)*'6>,T 1-'1;-'81-0' '>-*^ 6,*J'620',)*':*D-*8'k6?',)1;5)'?1.,'6==-1=- 6,*',1' *L=-*..',)*' 0*6'1'62'1- 5 26/ >-*6, 12'6-*' *,'6==/ ^ >6D/*'620'?;.,'2*>*..6- / 'D*6==/ >6D/*',1'1.),*-'?10*.' 1 '>-*6, 12T 21-'01*.',)*'600 , 12'1W.;>)'*L=-*.. 12. 6.' I'1;,'1 ',) 25.',)6,'8*-*'21,J'M,H' * ' * 'K<6>% + 'KQX'1- '21,' -1?',) 25.'8)>)'6==*6-J'I* # 2' % =(%+ *N ' : *D%'L 'QX >12,- D;,*' ?;>)',1',)*' 1->*' 1' ,)*' 0*>/6-6, 12% ()*'6D.*2>*' 1 '6',*- /' 8)>)'.)6// 0*.>- D*' *L>/;.+*/ '62'1- 5 26/ >-*6, 12' .' 6' 2*>*..6^ - ' 2 -? , ' 1 '/625;65*d 6.',)*' *+*2,'1>>;--*0' D;,' 12>*',)*' >1--*.=120 25',*-?' ?;.,' 2' 1-0*-',1'D*' 60*^ _;6,*')6+*' D**2' >1 2*0' 1-',)*' 1>>6. 12'620' -*.*-+*0' 1-' ,'6/12* ' 8)>)'81;/0')6+*' D**2' ?=1.. D/*% ()*' .6?*'1D.*-+6, 12'6==/ *.',)1;5)' 2'6' ?10 *0'0*5-**' ,1',)*'0*.>- =, 12'1',)*' +6- 1;.,*'-=1>*..*.' .;D.*_;*2, ,1',)*' *L .,*2>*' 1' 1- 5 26/ ?6,,*-% <1.*.' + *8*0' ?6,,*-'620'6//,)*' 122.'1'?6,,*-' 2',)* -' -*/6, 12.' =- ?6- / ',1' 410'620'.*>1206- /E',1' ?62' 6.' ?6-0C *., 25',)*' 5/1-77' 1' 410'620'6.' 0*. 52*0' 1-',)*' ;.*' 1' ?62% 2' -*/6, 12',1',)*' 1-?*-')*' 0*.>- D*.' >-*^ 6, 12'8 ,)',)*' .=*> 6/' + *8' 1' //;.,-6, 25',)*' 0 + 2*^ 6,,- D;,*.' 1 '=18*-'51102*..'8 .01?'620'6>>1-0 25/ '),)-18.',) .' 26--6, +*' 2,1'6' 1-?*8)>)' ?=-*..*.' ,)*'-*60*-'8 ,)',)*'.*2.*'1',)*'.*'6,,- D;,*.% 2'-*/6^ ,12',1',)*'/6,,*-'D*'.*/*>,.'D.'?6,*-I 6/.'8 ,)',)*'.=*^ >6/+*8'1 '//;.,-6, 25',)*'.;D1-0 26, 12'1 '6//',)*'1-^ 0*-.'1 '?6,*- 6/',) 25.',1',)*'2*>*..,*.'620'>1? 1-,.' 1 '?62% & ,)',)*.*'1DA*>,.' 2'+*8', ';1;5),'21,',1' D*'6'?6,,*-'1 '.;-=- .*' ',)*'.?=/*'26--6, +*'1 '>-*6^ ,12'1?,.'?;>)',)6,'.>*2, >'-*.*6->)'6.'.2>*'.;=^ =/*0'620'6==*6-.'2'6'5;.*'606=,*0',1',)1.*'1DA*>,.% ()*'.;DA*>,',.*/' .',)-1;5)1;,'12*'1'6',-62.>*20*2^ ,6/ >)6-6>,*-T ,'.)1;/0'>12.*.;*2,/ 77*'.;DA*>,*0',1' ,)*'.6?*.,6206-0'1'2,*-=-*,6, 12'6.'1,)*-'=6..65*.' 1',)*' D/*'0*.>- =, +*' 1'1DA*>,.'8)>)'6-*' *2, -*/' D* 120',)*'*L=*- *2>*'1'?62'.;>)'6.',)*'06 '1 'A;05^ ?*2,',)*',,6,*.'1')*6+*2'620')*//'620',)*'-*=-*.*2,6^ ,12.'1',)*'0 + 2*'?6A*., % ()*'., /*'1'>- , > .?'6=^ =/*0',1'4*2% 'D',)*'1==12*2.'620'21,';2-*_;*2,/ 'D',)*'.;==1-,*-.'1'-*+*/6, 12' .'.;>)'6.'81;/0'D* .;D+*-. +*' 1'?62'1'.,)*'?1.,'21D/*'620'+6/;6D/*' =1-, 12.'1',)*' D/*% *>'D*/18% % 2'>1?7?12'8 ,)'6// 62> *2,' 21, 12.',)*'*6-,)' 86.'-*56-0*0'D',)*' :*D-*8.'21,' 12/'6.',)*'>*2^ ,-6/'=1 2,'71',)*';2+*-.*'D;,'6.',)*';2+*-.* ../' '*+*-'1,)*-'D10 ',)*')*6+*2.'.;2'?112'620'.,6-.' 'D*25'. D. 0'%-',1'620'6.',8*-*',)*'>1?=/*?*2,' 1',)*'*6-,)% ()*':*D-*8'/625;65*')6.'21'*L=*-.^ .12'* ; +6/*2,',1'1;-' S',)*'=)-6.*',)*')*6+^ *2.'620',)*'*6-,)J'M4*2%' T'L + ' RT L10% LLL X)6.'D**2'-*56-0*0'6.'.;>)T D;',' .' >/*6-',)6,'I ',)*')*6+*2.'8*-*'/119*0';=12'6.'6'2*>*..6-'60A;2>,' 1',)*'*6-,) ',D*'>;-,6 2'1',)*',*2,' 2'8)>)'?62' 08*//.'M .6% L/'KKX',)*'.=)*-*'6D1+*'8)>)' ,,*0',)*' .=)*-*'D*/18'M>1?=% B1D'LL ' '620' .6% L/'KKX''0*. 52*0'.1/*/' 1-'=;-=1.*.'1'D*2* >*2>*' 2',)*'*>12^ 1? '1',)*'*6-,)% ()., '6==*6-.' -1?',)*'6>>1;2,'1 ',.' >-*6, 12'620'1 >*.d ,)*'*L .,*2>*' 1',)*')*6+*2' 86.'21,'=- 1-',1'1-'>12,*?=1-62*1;.'8 ,)',)6,'D',)*' *6-,)'D;,'.;D.*_;*2,',1' ,T ,'86.'>-*6,*0'12',)*'.*>^ 120'06 'M4*2% 'SX% ()*',*-?' ;20*-'8)>)' ,' .'0*^ .>- D*0' " 'MH!=7X'.' .52 >62,'1' ,.' ' ,)6,' ,'86.' " ' '6.'6'>;-, 2'M .6% > +'KX'1+*-' ,)*'.;-6>*'1',)*'*6-,)% <1-*1+*-' ,'0*=*20*0';=12' ,)*'*6-,)T ,)60',.' 1;206, 12.J'MK 6?% LL QX'12' ,)*'*05*.'1',)*'*6-,) .'>-)*'8)*-*' ,'86.'.;==1-,*0' D',)*'?1;2,6 2.'6.' '?6.. +*'=//6-.'MB1D'LL+ ' X' .,'1 >*.'8*-*'M X',1C.;==1-,' ,)*'86,*-.'8)>)'8*-*' 6D1+*' ,'M4*2% ' T .6%>L/+ ' X'620',);.,'1' 1-?'6' ?5),'-*.*-+1 -'1'-6 2'620'.218'8)>)'8*-*',1'=11-' 1-,)',)-1;5)',' 8 2018.'M4*2% + ' T .6% LL+ ' QX' 620'011-.'M .6% LL+ 'KNX'6.',)-1;5)'1=*2*0'./;>*^ 56,*.' 1-',)*' -;>, >6, 12'1',)*'*6-,)T MKX',1'.*-+*' 6.',)*' >*/*., 6/D10 *.' 8*-*',1'D*' L*0% (P% 2' 8)>)' ,)*'>*/*., 6/D10 *.'1'8 ,)',)*')*6+*2/'D10 *.T ,)*' 8*-*' -*56-0*0'.1/*/' 6.',)*' ? 2.,*-.'1',)*'*6-,)% ()*-'1 >*.'8*-*'M X',1'5 +*/5),T MKX',1'.*=6-6,*'D*^ ,8**2'06'620'2 5),T MNX',1'D*' 1-' '6.' 2',)*'>6.*' 1 '>>/A=.*.'1-'*,)*'L,-61-0 26- '=)*21?*26T 1-'

X X6.' -*5 ; /6, 25' .**0C, ?*' 620')6-+*. , ' . ; ? ? *-' 620' 8 2, *-' 6.' 8*// 6.' -*/ 5 1 ; .' *. ., +6/. ' 620' 1-' '620' ',)*' /*25,)' 1 ',)*' 1-?*-' D* 25' 0*=*20*2, ' 12' ,)*' .22 ',)*' /6, ,* 'D* 25' *., ?6, *0' D ',)*' ?1, 12. ' D1,)' 1 ' . ; 2' 620' ?112' M4*2% ' C QX' .1' ,) 6, ' 8) /*' , ' ? 5), ' ,-; / 'D** .6 0',) 6, ',)*A!')*/0' '01? 2 12J' 1+*-',)*' *6-,)' MB1D' LLL+ 'NNX',) 6, ' 01? 2 12' 86. ' *L*-> .*0' .1/*/ ' 1-',)*' >12+*2 *2>*' 1 ',)*', *262, .' 1 '*6-,)' M .6% > + ' R' CKNX% 1' *2, -*/ ' 20**0' 86.',)*' *L . ,*2>*' 1 ')*6+*2' 620' ,)*')*6+*2/ ' D10 *.' 0*. 52*0' 1-' ,)*' *6-,) ' ,) 6, ' 8 ,)' ,)*' *6-,)' ,)* ' .)6// . ? ; /, 62*1 ; ./ '=*- .)' MK *, %') ' Xa' ,)*' >; -, 6 2' 1 ',)*' , *2, ' .) 6// D*' -1//*0' ; = ' 620' ,)*' . , 6-. ' .) 6// 1 ' 2*>*. . , ' 0-1=' 1 ' M .6% LLL + ' T' < 6, ,% dd ' KRX ' ,)* -' . ?=6,) ' 8 ,)' *6-,) .' 0*. , -; >^ , 12' D* 25' ,)*' >1 ; 2, *-=6-, ' 1 ',)*' -' A1A71 ; .' .125' 8)*2' , .' 1 ; 206, 12. ' 8*-*' /6 0' MB1D' LLL+ ' X K% ( )*' *6-,)' 86.' -*56-0*0' 2' 6', 81 1/0' 6. =*>, a 2' -*/6, 12', 1' 410 ' 6.' ,)*' ?62 *. , 6, 12' 1 ') .' 2 2 , *' 6, ^ , - D ; , *. ' T 2' -*/6, 12', 1' ?62 ' 6.' ,)*' . >*2*' 1 ') .' 6D10*% M %X ( )*' : *D-*8' >1. ?1/15 ' .' D6. *0' ; =12' ,)*' /*60^ 25' =- 2> =/*',) 6, ',) *' ; 2 +*-. *' *L . , . ' 21, ' 20*=*20*2, ^ / ' 1 ' 410 ' D ' 62 ' 2*>*. . , ' 1-' 62A ' 2) *-*2, ' =18*-' 21-' *, ' >12, *? =1-62*1 ; ./ ' 8 ,)' 4 ; 0 ' 6. ' D* 25' >1*L . , *2, ' 8 ,)') ? ' 21-' *, ' 2' 1 ==1. , 12', 1' 410 ' 6. ' 6') 1., /*' */*^ ? *2, ' D ; , ' 0*=*20*2> ' ; =12') ? ' . ; D. *_ ; *2, / ' , 1') ? ' 620' 2' . ; DA*>, 12', 1') ? % ( )*' 1=*2 25' 81-0. ' 1 ' 4*2^ *. . ' *L=-*. . ' 2' D-160', *-? . ' ,) . ' /*60 25' =- 2> =/*T') 18^ *+*-' 0 >; /, ' , ' ? 6 ' D* ' 6. ' 8*') 6+*' 6/-*60 ' 1D. *-+*0' , 1' *L=-*. . ' ,) F', -; ,)' 60*_ ; 6, */ ' 2') ; ? 62' /625 ; 65*' *, ' ,)*-*' >62' D*' 21' 01 ; D, ' ,) 6, ',)*' . ; D1-0 26, 12' 1 ' ? 6, ,*-' , 1' 410' 2' *+*- '-*. =*>, ' .' ?=/ *0' 2',) 6, ' =6. ^ . 65*' 6. ' 8*// 6. ' 2' 1,) *-' =6. . 65*. ', 11' 2 ; ? *-1 ; . ' , 1' _ ; 1, *' 8) >)' >1 ? ? *2, ' ; =12' , % ( )*' . 6 ? *' 5-*6, ' =- 2> =/*' -; 2. ' ,) -1 ; 5)' ,)*' 8) 1/*') . , 1- ' 1 ' >-*6, 12a' ? 6, ,*-' 18*0' 6// , .' 1-?. ' 620' ? 10 >6, 12. ', 1',)*' 8 // 1 ' 4 10' 2' , .*/ '0 ; // 620' 2*-, ' , '-*>* +*0' , ' -. , '+ + 25' >6^ =6>, .*. ' -1 ?' ,)*' 2 /; *2>*' 1 ',)*' = - , ' 1 ' 410' D-110^ 25' 1+*-',)*' 0**=' M4*2% ' KX' T' ,)*' =-15-*. . +*' ?=-1+*^ ? *2, . ' 2' , . ' >120 , 12' 8*-*' ,)*' 0 -*>, ' 620' ? -6>; /1 ; . ' * *>, . ' 1 ' 410 . ' 8 // T' 21' 2, *-=1. , 12' 1 ' . *>1206- ' >6 ; . *. ' . ' -*>152 . *0 ' : *' . =69*' 620' , ' 86. J' M .6% LLL ' RX' 620' ,)*' =1 2, *0' , *-. *2*. . ' 620' .) 6-=2*. . ' 8 ,)' 8) >)' ,)*' 8 - . *-' . ; ? . ' ; ='.) *' 8) 1/*' , -62. 6>, 12' 2' ,)*' ,)-**' *L=-*. . 12. ' 410' . 6 0 J' , ' 86. ' . 1 J' 410' . 68',) 6, ' , ' 86. ' 5110J ' ,) *' -. , ' 0*>/6- 25' ,)*' 0 + 2*' +1/ , 12',) *' . *>120' ,) *' ? ? *0 6, *' -*. ; /, ' ,)*' 7 ,) -0',) *' =*- *>, 2*. . ' 1 ',) *' 81-9 ') 6-? 12 [*. ' 6=, / ' 8 ,)',) *' + *8' 8) >)') *' 2, *20*0' , 1' *L=-*. . % ( ) ; . ' ,) *' *6-,)' D*>6? *' 2' ,) *' * *. ' 1 ',) *' = 1 ; . ' : *D-*8',) *' 3 . >*2*' 12' 8) >)',) *' 0 + 2*' =*- *>, 12. ' 8*-*' 0 .=/6 *0a' ,) *') *6+*2. ' M .6% L L ' X',) *' *6-,) ' M .6% LL + ' T' > + K X',) *' .*6' MB1D' LL+ ' T' .6% LLL L ' RT' + ' KKX ' ? 1 ; 2, 6 2. ' 620') //. ' -; , ; /, -**. ' 620' 6// >*06-. ' D*6. , . ' 620' 6// >6, , /*' >-**= 25',) 25. ' 620' / 25' 18/J' M .6% >L/+ 'R X' 6// 0 .=/6 *0' 12*' 1,) *' 1',) *' /*60 25' 6, , - D ; , *. ' 1 ' D . ' >) 6-6>, *-% 1' 6/. 1' 8 ,)',) *' 1-0 26- ' 1=*-6, 12. ' 1 ' 26, ; -* ' ,) *' ,) ; 20*-' 86. ') . ' +1 >*' MB1D' LLL+ 'SX',) *' / 5), 2 25. ') . ' 6--18 . ' M .6% LL+ ' X',) *' 8 27' 620' . , 1-?') . ' ?*. . *25*-. ' M .6% >L/+ 'QX',) *' *6-,)_ ; 69*' ,) *' *>/ =. *' 620' ,) *' >1?*, ' ,) *' . 52. ' 1 ') . ' =-*. *2>*' MB1*/ ' T' < 6, , ' LL + ' KRT' ; 9*' LL ' K X% *** L (: < : .7-% MK%X' ( )*' *6-,)' 86.' -*56-0*0' 2' -*/6, 12', 1' ?62 ' 620' 6>>1-0 25/ ' *6>)' 6>, ' 1 '>-*6, 12' . ' 6' =-15-*. . 12',) 6, ' . ' 8*// *L=-*. . *0' 2',) *' : *^ D-*8' /625 ; 65*' D ,) *', *-? . ' 7 6 2 0 ' M : , ' ` /d X% ( ) ; . ' 6/. 1' 8 ,)' ,) *' 1-0*-. ' 1 ' / + 25' D* 25. ' T -. , / ' =/62, . ' T . *>120/ ' .)' 620' D -0 . ' T ,) -0/ ' >6, , /*' T 620' /6. , / ' ?62%J -1?' 5110J' 2' ,)*' . *+*-6/ =6-, . ' , 1' +*- ' 5110J' 6. ' 6' 8) 1/*' M4*2% ' N X' . ; >) ' 86. ' , . ' =-15-*. . ' 2' ,) *' A ; 05 ? *2, ' 1 ',) *' ? 2 =1, *2, ' 81-9 ? 62% % -0*-' 2+1/+*. ', ? T' 6', . ; *, . . 12' 1 ' *+*2, . ' ?^ =/ *. ' 6' . ; >>*. . 12' 1 ' =*- 10. T' 620 ' 6>>1-0 25/ I ' <1. *. ' 6. . 52. ',) *' 81-9' 1 ' >-*6, 12', 1' . L' 06 . ' *6>) ') 6+ 25' , . ' . =*> >' =1-, 12 ' / 5), ', 1' a) *' -. , ',) *' -? 6 ? *2, ', 1' ,) *' . *>120 ',) *' 0- ' /620' 620' =/62, . ' , 1' ,) 1',) -0 ',) *') *6+*2/ ' D10 *.' , 1',) *' 1 ; -,) ' .) ' 620' 18/ , 1',) *' ,) ' D*6. , . ' 620' ? 62', 1',) *' . L,) % ( )*' ? 622*-' 2' 8) >)',) *. *' 6>, . ' 6-*' 0*. >- D*0' 67) 6+ 25' D**2' 012*' =-*>/ ; 0*. ' 6// 0*6' 1 ', ? *' 2' -*/6, 12', 1',) * -' =*- 1-?^ 62>*T' , ' & 6. ' ? -6>; /1 ; . ' 620' 2. , 62, 62*1 ; . a 410' . 6 0 J' 620' ,) *2' , ' 86. J' ; ' ,) *' =-15-*. . +*2*. . ' 620' >12. *_ ' , *2, / ' ,) *' 20 + 0 ; 6/ , ' 1 ' ,) *' 6>, . ' 01*. ' 2+1/+*' 62' 0*6' 1 ', ? *' 6. ' *6=. 25' D*, 8 **2',) *' >1?^ =/*, 12' 1 ' 12*' 620' ,) *' >1? ? *2>*? *2, ' 1 ' 621,) *-T' 1,) *-8 . *' ,) *' 81-9' 1 ' >-*6, 12' 81 ; /0') 6+*' -*. 1/+*0' 3 , . */ ' 2, 1' 6' . 25/*' >12, 2 ; 1 ; . ' 6>, % ( )*' =*- 10' 6. ^ . 52*0', 1' *6>) ' 20 + 0 ; 6/ 6>, ' . ' 6' 06 ' ,) *' 12/ ' =*- 10' 8) >)' -*=-*. *2, . ' ,) *' *2, -*' >*. . 6, 12' 1 ' 6' 81-9',) -1 ; 5)' ,) *' 2, *-=1. , 12' 1 ' 2 5), % ( ) 6, ' 6' 26, ; -6/ 06 ' . ' -*=^ -*. *2, *0' ; 20*-',) *' *L=-*. . 12' *+*2 25' 86. ' 620' ? 1-2^ 25' 86. J' 60 ? , . ' 8*' ,) 29 ' 1 ' 21' 01 ; D, T' ,) 06 . ' *-? ' 06 %' 6/12*' ? 6 ' . 1 ? *, ? *. ' -* *-', 1' 62' 20* 2 , *' =*^ - 10' >12, *? =1-62*1 ; . ' 8 ,)' 6' . 25/*' *+*2, T' D ; , ' 8) *2' ,) *' 20 + 0 ; 6/ *6=-, . ' 1 ' 6' 06 ' ' *+*2 25' 620' ? 1-2 25 J' 6-*' . =*> *0' 620' 8) *2' 6' . *- *. ' 1 ' . ; >) ' 06 . ' 6-*' 21^ , > *0' 2',) *' -' 2 ; ? *- >6/ 1-0*-' 21' 626/15 ' 1 ' 1 ; -' /62^ 5 ; 65*' 60 ? . ' . ' 1 ' 1 ; -' ; 20*-. , 620 25',) *' , *-? ' 2' 62 ^ ,) 25' *// . *' ,) 62' , ' / , *-6/ . *2. *% ( )*' : *D-*8. ') 60' 21' 1,) *-' ? *62. ' 1 ' *L=-*. . 25',) *' > + / 06 ' 1 ', 8*2, I C' 1 ; -') 1 ; -. ' ,) 62' 6. ' *+*2 25' ? 1-2 25J 62% +/ ' X' / ? /6-', 1',) *' 4-**9' ? * D % T' 620' 6/,) 1 ; 5)' ,) *' 6/, *-26, 12' 1 ' / 5), ' 620' 06-92*. . ' /6 ' 6, ' ,) 1' -11, ' 1 ',) *' *L=-*. . 12' >, ',) *' : *D-*8' . ' 2' ,) *' -' ; . *' 1 ' , ' 21' ? 1-*' ,) 1 ; 5), ' 1 ' ,) *. *' */*? *2, . ') 62' 01' 8) *2' 8*' ; . *' ,) *' , *-? . ' 1 " ' 1-' (" . ' 2' *6>)' >6. *' ,) *' /6=. *' 1 '6' >*-, 6 2' , ? *' 620' 21, ' ,) *' *\>7 ? *2, . ' D ' 8) >)' ,) 6, ', ? *' . ' >6/>; /6, *0' . ' 2, *20*0T' . 1' ,) 6, ' 8 ,) 1 ; ',) 1' /*6. , ' 2>12. . , *2> ' *,) *-' 1 ' /62^ 5 ; 65*' 1-' 1 ' -*6/ , ' ,) *' *L=-*. . 12' ?6 ' D*' 6==/ *0' , 1' ,) *' 06 . ' =-*+ 1 ; . ' , 1',) *' >-*6, 12' 1 ',) *' . ; 2% ') *' 6=^ =/ >6, 12' 1 ',) *' . 6 ? *' *L=-*. . 12. ', 1',) *' *+*2, . ' : D. *^ _ ; *2, ', 1',) *' >-*6, 12' 1 ',) *' . ; 2 ' 6. ' 8*// 6. ',) *' ; . *' 1 ' ,) *' 81-0' 06 J' 2',) *' 1 ; -,) ' >1? ?620? *2, ' 8 ,) 1 ; , 62 ' 20 >6, 12',) 6, ', . ' ; . *0' 2' 6' 0 *-*2, ' . *2. *' 1-' 2' 62 ' 1,) *-' ,) 62' ,) *' / , *-6/ 6>>*=, 6, 12' 1 ' 4*2% ' ' ._% ' >12 -?' ,) *' + *8' 6D1+*' . , 6, *0% ( )*' 2, *-=-*, 6^ , 12',) 6, ' *+*2 25' 620' ? 1-2 25J b' 620' . ' 1==1. *0' 21, ' 12/ ', 1',) *' 1-0*-' 2' 80 >)',) *' 81-0. ' . , 620' D ; , ', 1',) *' . *2. *' 1 ',) 1' 81-0. ' */. *8) *-*% % ( )*' : *D-*8. ',) 1 ; 5)' -*56-0 25' >-*6, 12' 6. ',) *' ? ? *0 6, *' 6>, ' 1 ' 410' 0 0' 21, ' 521-*' ,) *' *+ 0*2, ' 6>, ' ,) 6, ' *L . , 25' ? 6, *- 6/. ' 620' 2, *-? *0 6, *' 65*2> *' 8*-*' *? =/1 *0' D1,) %,) *2' 620' 2',) *' . ; D. *_ ; *2, ' 1=*-6, 12. ' 1 ' -6, ; -*% ( ) ; . ',) *' . ? =/*' 6>, ' 410' >-*6, *0' ? 62J' M4*2% ' K X ' . ' 6? =/ *0' D ' ,) *' . ; D. *_ ; *2, ' 21, >*' 1 ' ,) *' ? 6, *- 6/. ; D., 62>*' 1 ' 8) >)') . ' D10 ' 86. ' ? 60*' M4*2% ' XT' 627. 1 ' 6/. 1' 1 ',) 1' 62 ? 6/. ' M4*2% ' c T'

RX% ( )*' .*=6-6, 12' 1 ' .*6' 620' /620 ' 6,,- D2,.0' 2' 4*2% ' S' ,1' ,)*' 0 + 2*' 6,' 86.' .**2',1' 2+1/+*' ,)*' =-1>*..' 1 ' =6-, 6/ */*+6, 12.' 1 ' ,)*' *6-,) .' .; - 6>*' M .6% > + ' Q ' ,)*' ?1; 2,6 2.' 6.>*20 ' ,)*' +6//* .' 0*^ .>*20' >1?=% -1+% + ' K CKQX ' ((*' 1-?6, 12' 1 ' >/1;0.' 620' ,)*' . ;==/ '1 ' ?1 .,; -*',1' ,)*' >-*6, 12' 1 ',)*' -?6^ ?*2, ' 86.' 6 ,*-86-0.' 6,,- D;,*0',1' ,.',-;*' >6; .*' 2',)*' >12, 2;6/ -*,;-2' 1 ',)*' 86,*-.' -1?',)*' *6-,) .' .; - 6>*' M >>/% ' X% ( )*' *L .,*2>*' 1 ',)*' */*?*2,'1 '/ 5), '6.' 0 ., 2>,' -1?',)*' .; 2'WM4*2% ' N' T' B1D' LLL+ ' RX')6.' / 9*8 .*' D**2' *L=/6 2*0' 6.',)*' -*. ; /,' 1 ' 6' =) /1^ .1=) >6// '>1--*>,' + *8'6.',1',)*' 26,; -*' 1 '/ 5),T ?1-*' =-1D6D/ ')18*+*-' ,' 86.' 1;20*0' ;=12',)*' 2>1--*>,' + *8'%,)6,',)*' / 5),' 1 ',)*' ?112' 86.' 20*=*20*2,' 1 ' ,)*' .; 2%

S% & ,)' -*56-0' ,1' ,)*' *6-,) .' D10 ' ,)*' : *D-*8.' >12>* +*0' ,.' .; - 6>*',1' D*' 62' ? ?*2.*' 0 .>' .; ==1-,*0' / 9*' ,)*' /6,' -11 ' 1 ' 62' 6.,*-2')1; .*' D ' = //6-.' WB1D' L ' ST' .6% LL+ ' NX 8) >)' -*.,*0' 12' .1/ 0' 1;206, 12.' WB1D' LLL+ ' ' ST' .6% > + ' T' -1+% + ' KRXT' D;,' 8)*-*',)1.*' 1;206, 12.' 8*-*' 12' 8) >)',)*' .1>9*,.J' 1 ',)*' = //6-.' -*.,*0' 212*' >1;/0' ,*// WB1D' LLL+ ' SX% ( )*' ?1-*' =) /1.1=) >6/ + *8' 1 ',)*' *6-,)' D* 25' .; .^ =*20*0' 2' -**' .=6>*' .**?.',1' D*' ?=/ *0' 2' B1D' LL+ ' T' 21-' .',)*-*' 62 '6D.1/;,*' >12,-60 >, 12' D*,8**2',) .' 660' ,)*' 1-?*-' + *8 '6.',)*' = //6-.' 1 ',)*' *6-,) .' .; -^ 6>*' ?6 ' D*' >12>* +*0',1')6+*' D**2' 1;20*0' 12' ,)*' 0**=' D6.*.' 1 ',)*' ?1;2,6 2.' 8) >)' D6.*.' ,)*?.*/+*.' &1-*' ;2.;==1-,*0% ,)*-' =6..65*.' M .6% LL + ' KT' >LLL+ ' X' .**?',1' ?=/ ',)*' *L .,*2>*' 1 '6'+6.,' .; D^ ,*--62*1;.'1>*62T ,)*' 81-0.')18* *-' 6-*' .; .>*=, D/*' 1 ',)*' .*2.*' ,)6,',)*' *6-,)' 86.' */*+6,*0' 6D1+*' ,)*' /*+*/ 1 ',)*' .*6' M : *25.,*2D*-5 ' 2' /1>%X' 620' ,)6,',) .' .',)*' .*2.*' 2' 8) >)',)* '6-*' ,1' D*' 6>>*=,*0' 6==*6-.' -1?',)*' >12+*-.*' *L=-*.. 12' 86,*-' ;20*-' ,)*' *6-,) J' M L10 ' LL ' X ' 8) >) ' 6.' >12,-6.,*0' 8 ,)')*6+*2' 6D1+*J' 620' *6-,)' D*2*6,) J' *+ 0*2,/ ' ?^ =/ *.' ,)*' >1?=6-6, +*' */*+6, 12' 1 ',)*' ,)-**' D10 *.% *2*6,/ ',)*' *6-,) .' .; - 6>*' 86.' 2 'M ZBX ',)*' " 2' '=/6>*' (BB" N M ; ?% L+ 'N T' *; ' LLL 'KKT' B1D' L 'QX',)*')1;.*' 6==1 2,*0' 1-',)*' / + 25J' MB1D' LLL KNX' 6f '/620' 1 '06-92*..J' MB1D' L ' K X',1' 8) >)' 8*-*' 6.>- D*0' 2' =1*, >6/ /625;65*' 56,*.' M .6% LLL+ ' X' 620' D6-.' MB1D' L+ ' SX' 620' 8) >)')60' ,.' +6//* .' 1-' 0**=' =/6>*.' M -1+% L ' QX% ,' *L,*20*0' D*2*6,)' ,)*' .*6' MB1D' LL+ ' ' SX' 620' 86.',) ; .' .; ==1.*0',1' D*' >12^ ,*-? 21;.' 8 ,)' ,)*' ;==*-' 81-/0% ' ? ,)' 8+ !' .% +% 6-,)%

% ( )*' <1.6 >' .,6,*?*2,' 1 ',)*' 81-/0 .' 1-?6, 12' M4*2% X')6.' D**2' +6- 1;./ ',-*6,*0' D ' 0 *-*2,' 8-.' ,*-.' 12' ,)*' >122*>, 12' D*,8**2' .> *2>*' 620' ,)*' D/*% 9*=, >.')6+*' 0*. 526,*0',)*' <1.6 >' " % '6.' 6' ? ,) J' 1-' ?1-*' ? /0GE ',)*' .=*>;/6, 12' 1 '62' 62^ > *2,' .65*% <1.,')- ., 62.' .=*69' 1 ',' 6.' 6') .,1^ - J' 1-' 26--6, +* J' 1-' ?1-*' +65;*/ ' 6' -*>1-0%J' : ;L,6 0*' >6//.' ,' 6' =6-6D/*J' I$ 5 ' ' 1' ' 120% QS X% ,)*-.' M*% 5% ;-,[' : ;5)' < //*-X' .;55*..',)6,' ,' .' 6' + . 12TJ' 12*' ., /*.' ,' 6' =/62J' M / 6// >-' ' 120% QS X% ;',)*.*' 6-*' *+ ^ 0*2,/ ' ?*-*' 5/1..*.% ( )*' >)1 >*' .,//' / *.' D*,8**2' ,)*')6/?*- 62' 2,*-=1/6, 12' 1 ',)*' 5*1/15 >6/' 65*.' D* 1-*',)*' -.,'>-*6, +*' 1' D*5 2.' M.1' ;>9/620 ' *' ? ,)' : ,>)>1>9 ' -1 ,12' ->)O% -6,,' 4/165' 620' 1,)*-.X' 620',)*' ;+ *- 62' *L=62. 12' 1 ',)*' . L' 06 .' 2,1' 5*1/15 >6/' 65*.' M8 ,)' < //*-' <6>0126/0' // ?62' 4;;..*2' ?*' <' 6;./620' <I 6;/' 626' 620' 1,)^ *-.X%' **' #! <-% 1- .12' >(" ' ' +1' 2' 5 % ' ' '6 ' '5 1'J' 120% 620' % % QSK' =% KQ X',) 29.')*')6.' 0 .>1+*-*0' 6' 2*8' .1/;, 12' 1 ',)*' 0 >;$ ' D ' ,*-? 25',)*' -.,' >)6=,*-' 1 ' 4*2*. ' .',)*' 2.=-*0' ' 1 ' >-*6, 12 J' 620')*' 6>>1-0 25/ ' .*.,') .' 25*2; , ',1' 81-9',1' 0-68' 1;',)*' 0*? ;-5 >' =6.^ .65*' 2' 6' =6-6//*/ [*0' 1-')*? .,>)' 1-?' / 9*' : *D-*8' =1*,-' % *',) .' ./P;,' 6' ?10 >6, 12' 1 ',)*' '? ,)^ >6/',)*1- J' 6==/ *0' 2' 6' /*..' D1/0' 1-?',1',)*' .6>-*0 ,*L, ') ; ,' 6.' -*6// ' 0*.,-;>, +*' 1 ',)*') .,1- >6/ +*- , ' 1 ',)*' 01>; ?*2,' 6.' ,)*' ?1-*' =6/=6D/*' -6, 126/ ., >' + *8.% ( )*-*' .' 21' ? 00/*' 5-1;20')*-*' D*,8**2' 620' ! ( )*' /625;65*' .',11' 0*,6 /*0P,1' 60? ,',)*' 5*2*-6/ 0 .? ..6/ 1 ' ,' 6.' 6' >1.?1512 >6/ =1*?% ( )*' .6?*8 -,*-.' >1?=6- .12' 1 ',)*' ,)' .6/? '6.' D* 25' .*>, 12' D ' .*>, 12' ,)*' 06;5),*-',)*' 62, =)12*' ,)*' *>)1J' 1 ',)*' <1.6 >' =-1*?' .';,,*-/ '=-*=1.,*-1;.' 6.' ,)*' ?1.',>6.;6/ >1//6, 12' 1 ',)*' ,81' 8 /' .)18% ;,' 6' 6,6/ > ->;?.,62>*',1',) .') =1,)*. .',.),6,',)*' -.,' >)6=,*-' 1 ' 4*2*. .' /6>9.' 2*6-/ ' *+*- ' */*?*2,' 1 ' 6>^ 9218/*05*0' : *D-*8' =1*,-% 2' ' ,')6.' 2* ,)*-' ,)*' / - >6/ =-.1.10 ' 1 ',)*' .6/?. ' 21-',)*' *= >' .,-;>^ ,;-*' 1 ' B1D T' 2* ,)*-',)*' 0 ,) -6?D >' ?6->)' 1 ',)*' -1=)*,.' 21-',)*' 0 // >' >1//1;_ ;*.' 1 ',)*' 62, >/*.' 21-' *+*2',)*' 0 06>, >' >1//1>6, 12.' 1 ',)*' -1+*-D.' 620' >>/*. 6.,*.% ( )*-*' .' 21' % ' M*L>*=*;',)*' 6>> 0*2,6/ 12*' 2',)*' .,*-*1, =*0'=)-6.*' b =*//C?*//X' 21' % ' 21' ' 21'% ' 21' >/ ?6>, >' >)6-6>,*-T' 2' .)1-,' 21' 5;-6, +*' */*?*2,' 8)6,*+*-',1' 0 ., 25; .)' ,.'=)-6.*1/15 ' -1?',)*' +*-.^ *.,' =-1.*% ( )*-*' .' 21' =-1=*-' / ' M_%+%X' D6.*0' ;=12' 2,- 2. >' 62, ,)*. .' 620' . 212 ?.T' 21' -) ,)?>' ?*6.;-*' M 1?=6-*',)*' =*- *>, 12' 2' 6//',)*.*' -*.=*>,.' 1 ',)*' *6-/ *.,' -*6/ 10*' 12' -*>1-0' 4*2% +' KN' K %X 56 2' 6.' ,1' ' ,' /6>9.' ,)6,' /1 , ' ?1-6/ ,12*' ,)6,' 2*' =/6E' 1 ',)*' ?65 26, 12' ,)6,' 6D-;=,' >)625*' 1 '.;DA*>,' 620' */0' 8) >) ' *+*2' 8)*2' 1,)*-' >-,*- 6' 6 / ' .*-+*',1' 20 >6,*',)*' -)6=.1^ 0*.' 1 ',)*' : *D-*8' D6-0.% ( )*' 12/E',) 25' 6,' 6// -*^ .*?D/ 25' =1*,-' 2' ,.' 0-*..' .',)*' .,-1=) >' -*,;-2' 1 ',)*' >/6;.*' *+*2 25' 620' ?1-2 25 J' 8) >)' 6' .?=/ ' 0;*',1',)*' 2*>*..6- '.-*5;/6-, '1 ',)*')*DO1?606/*=*^ -10.'T' 620',)*' 12/ ' *6,;-*' 2' ,.' .;D.,62>*' 6// 25' ,' ,1'=1*,-' .' 6' >*-,6 2' 0 52, '620' 60+62>*' 1 ',)1;5),' 8) >)' .' 2)*-*2,' 2',)*' 2> 0*2,.',)*?.*/+*.' I 6//,)6,' >62' =-_=*-/ 'D1' .6 0' 1 ',)*' 0 >, 12' .',)6,' ,' .' -)*,1-^ >6/ 620' .;,*0',1',)*' .;DA*>,% +*2' <-% 1-.12' 6/.' ,1'=1 2,'1;,' 2' ,.' D10 ',)*' -*_;., *' 6-, .,>'>12..-;>C' ,+*2*..'1-' 2' ,.' .= - .',)*' -*' 1 '5*2 .;.' *..*2,6/,1' 6//*=1*,>' * ;. 12.% /?1..%62 ' 0*.>- =, +*' =1-, 12' 1 ',)*' /0' (*.,6?*2,' 81;/0' D*' 1;20',1' *L>**0' ,' 2' ,)*.*' -*.=*>,.' '>6-* ;// '626/ [*0% ( )*' +*- '2*L,' >)6=,*-' 1 '4*2*. .' .' ;// '6.'=1*, >6/' 8)*.)*-' 2' -*^ 56-0',1' ,.' ,1= >.' ,.' ., /*' 1-' ,.' >1?=1. , 12T 620' ,) ; .'E3',)*' .6?*' /11.*' ;2.> *2, >' =-1>*..' 8*' ? 5),' M6.' ?62 '81;/0' 6 2' 01X'-*0;>*',)*' 6>>1;2,.'1' 06? .' 7 .=*> >' 1-?6, 12' 1 ' 6' /1>6/ 0*2' 620' 1 ',)*' 1-5 2' 1 ') ; ?62' 0*=-6+ , ',1' =1*, >' /*5*20.% B; .,'>-, > <2' 1-D 0.' .;>)' 6' 0 .,1-, 12' 1 '=-.1.*',1' 6>>1?2106,*' .=*>^ ;/6, +*' =-*>12>*=, 12% **' + #! 1-' 62' 6D/1' ,-*6, .*712',)*' D*6-25.' 1 ',)*' : *D-*8' >1.?0/15 ' ;=12' ?10*-2' 6.,-121? '620' 5*1/15 '.**' ;-,[' ' " ' ' ' M 0 2D% Q S' +1/% ' >D% T' 6/.1' .*=6-6,*/ ') /6% QS XT' >1?=%B1)622.*2' ' '" =' " '& " ' '# " 'M /,% QNNX' -182*' ' 'M 120% Q X% **' #% ! 1.K N% *>' " ! 1..*,,' #' ' % '6'=-1? 2*2,' ? 2.,*-' 1 ' ,)*' ;?D*-/620' -*.D ,*-62');->)% : *' 86.' D1-2' 2' /6-*?12, ' *8' :6?=.) -*' =-/K ' R % : .' =6-*2,.' 8*-*' =.>1=6/62.' / .' 5-620 6^ ,)*-' D* 25',)*' 1;20*-' 620' 1-' ?62 'A*6-.',)*' =6.,1-' 1 ',)*' -.,' =.>1=6/>);->)' 1 ' /6-*?12,% : *' .,;0^ *0' 6,' < 0Z//*D;- ' 1//*5*' *-?12,' 620' 5-60;6,*0' 2' Q N% -1?',)*' .6?*2. ,;,12')*-*>* +*0' 2' QNR',)*' 0*5-**' 1 ' 1>,1-' 1 ' + 2, ' 8) >)' 0*5-**' 86.' 6/.1' >12 *--*0' ;=12') ?' 2' 6 ,*-' *6-.' D ' ;?^ D*-/620' 1//*5*' *2,;>9 % 112' 6 ,*-' /*6+ 25' >1/^ /*5*')*' *2565*0' 2',*6>) 25' 6' >/6.. >6/.>)11/ 2' <1-^ - .,182' %B% ,*-',81' *6-.')*' 6>>*=,*0' 6' >6//6.' =-2> =6/1' 2*' : //' >60*? ' % % '8)*-*')1,6;5),' .*+*-6/ *6-.'8)*2')*6/,)'D* 25'=11-')*-.;-2*0',1' *8' 25/620'8)*-*' .112' 6 ,*-')*' 86.' >12+*-,*0% : *' */,'0**=/ ' ?=-*..*0' 8/, ',)*' 0;, ' 1 '=-*6>) 25

,)*’ 41.=*/’620’ .112’6 ,*-’*2,*-*0’,)*’ = .>1=6/’()*1^ /15 >6/’ *? 26- ‘6,’ *8’ : 6 +*2’ -1?’,)*’.*? 26- ‘)*’ 8*2,’ ,1’ (*22*..**’ 8 ,)’ ,)*’ >1? ?*206, 12’ 620’ .62>, 12’ 1 ’ ,)*’ D .)1=’ 6.’ 6’ II/6 ‘ =-*6>)*-V’ : *-*’)*’ D*>6?*’ 6>_;6 2,*0’ 1-’ ,)*’ -.,’ , ?*’ 8 ,)’ ; ?^ D*-/620’ -*.D ,*- 62. ‘ I’=6-, > =6,*0’ 2’ ,)* -’ *L,-61-^ 0 26- ‘ -*+ +6/.’ 6,,*20*0’,)* -’ 0*/ 5), ;/’ >6?=C?**,^ 25.V’ : *’ 86.’*.=*> 6// ‘=/*6.*0’ 8 ,)’,)* -’ .;>>*..’ 2’ 8 22 25’ .1;/.’ ,1’)- .,I’ 620’ 6 ,*-’ 6’ /125’ =-6 *- ;/’ 620’)6-0’ .,-;55/*’)*’ */,’ ,’) .’ 0;, ’ ,1’ >6..’) .’ /1,’ 8 ,)’,)*?% 2’,)*’ *6-’ QKK’)*’ 86.’ 1-06 2*0’ D ’,)*’ 20*-.12’=-*.D ,*- ‘1 ’,) .’ >) ;->);’+*- ’ .;>>*.. ;// ’ 1-’.1?*’, ?*’ 2’6’>/6.. >6/’.>)11/ 2’ /9C’ ,12’ % : *’ 86.’,)*’ -.,’=-*. 0*2,’1 ’ ;?D*-/620’ 1//*5*’6,’ - 2>*,12’ %’1+*-’8)>)’)*’=-*. 0*0’ 1-’ ;.*% ;’,)*’ 5 =, 62.’ 620’,)*’ :*D-*8.’ 81-*’ 62’ *L>**0 25/’0 /*-*2,’=*1=/*I’ 620’,)*’ >/ ?6,*.’ 8) >)’ ,)*’ 2)6D ,*0’ 8*-*’ 6/.1’.1’ 0 *-*2,’6.’ ,1’ ’ 6’ 5-*6,*-’ 0 *-*2>*’ 1’ 110’ 620’ ’,)62’ ? 5),’D*’ % =-*.;==1.*0’1’>1;2,- *.’ .1’2*6-’,1’*6>)’1,)*-% ,’ .’ ,-;*’,)6,’,)*’ B*8.)’ 26, 12’ 86.’ >-60/*0’ 2’ 5 =,I’ 620’,)’>-> ;?.,62>*’?6’)6+*’)60’.1?*’ 2/;*2>*’ 12’ >*-*?12 6/ 0-*..*.’ 620’,)*’ 1-26?*2,.’1’81?*2I’ D ;,’8*’ 01’ 21,’ 20’,)6,’ 26, 12.’ > ->; ?.,62>*0’6.’,)*’ B*8.’8*-*’-*60 / ‘601=,’,)*’>1.,;?*.’1 ‘1,)*-’ 26, 12.’ *.=*> 6//A78D*2’,)*’ -’-*. 0*2>*’ 2’ 5 =,’86.’6/86 .’ -*56-0*0’D ’,)*’ 6.’ ,*?=1-6- ‘620’8’)*2’,)*’ -’ -6 ^ ?*2,’86.’1’)1?*’?62; 6>,;-* ’ .=;2’620’81+*2’D ’ ,)*’ 81?*2’ -1?’,)*’ =-10;>*’ 1’,)*’ -’ /1>9.’M L10% ddd ‘K X% & *’ 20’6/.1’,)6,’ ? ?*0 6,*/ ’6 ,*-’/*6+^ 25’ 5 =,’,)*’=- 2> =6/’6-,>/*’1 ‘0-*..’6?125’,)*’ : *^ D-*8.’86.’.1?*’6?=/*’ 811//*2’56-?*2,’ ’,1’./**=’ 2’ M L10% LL ‘K X’,W8)>)’21,) 25’. ? /6-’ .’,1’D*’.**2’ 6?125’,)*’>1.,;?*.’1 ’ 57=,

K% & ,)’ -*.=*>,’ ,1’,)*’ .;==1.*0’-*=-*.*2,6, 12’ 1 ’ D ‘62> *2,’?12;?*2,.’ 62A7’6;,)*2, >’*L6?=/*.’ >1;/0’D*’ 1;20’*+*2’1 ‘6’. 25/*’ 5;-*’ 2’,)*’ 62> *2,’ >1.,;?*’ ,’81;/0’6 1-0’?;>)’.6, . 6>, 12’6.’,*20 25’ ,1’*/;> 06,*’?62A’=6..65*.’1 *- =,;-*’8)>)’>6221, 6,’=-*.*2,’D*’8 ,)’>*-,6 2, ’*L=/6 2*0% M **’6/.1’;2^ 0*-’,)*’6-, >/*’8 !3

M1%X ’ =6 2, 25’6,’ *2’ : 6..62’ -*=-*.*2,.’,)*’ 6-^ - +6/’1’.1?*’ 1-* 52*-.’ 2’ 5 =,’620’ .’ ;==1.*0’,1’ 5;-*’,)*’6-- +6/’1’B1.*=) .’D-*,)-*2’ 2’,)6,’>1;,, % ()*’6>>*..1-*.’1’,)*’.>*2*’,)*’=) . 1521? *.’ ,’,)*’ =*-.12.’620’,)*’, ?*’,1’8)>)’,)*’=>,;-*’-*/6,*.’6-* *-,62/EI7 2’;2 .12’8 ,)’,)6,’*+*2,1’ D;,’1,)*-’>-> ;?^ .,62>*.’6-*’656 2.’,)*’21, 12% -’B% 4% & /9 2.12’ .=*69.’)*. ,6, 25/’12’,)*’.;DA*>,1’620’;2,/’.1?*’ 5-*6,*-’>*-,6 2, I’.’1D,6 2*0’8I*?6’60?’,’,)*’=1.. ^ D/*’>1--*>,2*..’1’,)*’>12A*>,;-*’ ()*’622*L*0’>;,

;==1.*0’ *=->.*2,6, 1,’1’B1.*=),’ - ,)->;’12’,)*’ 5 =^ ,62’<12;?*2,.%

.)18.’,)*’+6- *,AI’1’>1.,;?*’8)>)’,) .’.>*2*’0 .=/6 .% /I’,)*’?*2’8*6-’ .6206/.% 1?*’1’,)*?’ 6->’ >/60’ 12/’2’6’ .)1-’,;2>’1-’.) -,’8 ,)’>/1.*’./**+*.’.’=/6 0’1-’ NXT’1,)*-.’8*6-’1+*-’,) .’6’9 20’1’./**+*/*..’=/6 0’1-’ 0+*-’/?,*0%’ .’6’>1?? 12’?..,69*’ ,1’ ,6/9’1’ 7^ -*2,6/’>1.,;?*I’6.’ ’ ,’8*-*’6’ ;2 1-?’,)25’ 8)*-*6.’2’ 6>,’,)*’>1.,;?*.’1’,)*’ .6, >’26, 12.’ 0 *-’ 6-’?1-*’ -1?’12*’621,)*-’,)62’01’,)*’>1.,;?*.’ 1’,)*’0 *-*2,’26, 12.’1’ ;-1=*% ()6,’,) .’86.’6/.1’ ,)*’>6.*’62> *2,/’.’.)182’D’,)*’?12;?*2,.’2’ 8)>)’,)*’>1.,;?*.’1’ 5 =, 62.’ ..7(62.’ 6D /1% ’ -%C ’

2 62.’ *-. 62.’ <*0*.’ - 62.’620’4-**9.’0 *-’6.’ ?;>)’ -1?’12*’621,)*-’6.’01’,)*’>1.,;?*.’1 ‘,)*’?10I’ *?’ - 62.’ 5 =, 62.’ -6D.’ (;-9.’620’ *-. 62.% ,’.’,)*-* 1-*’2*6-/’;.*/*..’,1’*L6? 2*’,)*’?12;C’ ?*2,6/>1.,;?*’1’62 ‘26, 12’-*?1,*’ -1?’ 6/*., 2*’ 1-’,)*’=;-=1.*’1’6.>*-,6 2 25’,)*’>1.,;?*’1’,)*’62^ >*2,’ *D-*8.% - 6’ -6D 6’ 5 =,’620’,1’%.1?*’ *L,*2,’ .. - 6’ *-. 6I’620’ 6D /12 6’6-*’,)*’12/’ >1;2,-*.’8)*-*’?12;?*2,.’81;/0’D*’/9*/’,1’6 1-0’ 62’;.*;/’2 1-?6, 12I’D;,’ -6D 6’)6.’/* ,’21’?12;^ ?*2,6/ 5;-*.’620’ - 6’212*’1’.; >*2,/EI762> *2,’ 06,*’8)/*’,)1.*’1’ .. -6’ 6D /12 6’620’ >I.6 0*=*>,’*8’.>*2*.’1’.1> 6/’ *I’620’,’ .’/*.’1-’ 5 =,’ ,1’.;==/’2*6-/’6//’,)*’2 1-?6, 12’/9*/’,1’D*’1’ ;.*% ;’,)*’ 5 =, 62.’620’,)*’ :*D-*8.’81-*’62’ *L>**0 25/’0 /*-*2,’=*1=/*I’620’,)*’>/?6,*.’8)>)’ ,)*’2)6D ,*0’8*-*’6/.1’.1’0 *-*2,’6.’,1’ ’ 6’5-*6,*-’0 *-*2>*’1’110’620’ ’,)62’?5),’D*’ % =-*.;==1.*0’1’>1;2,-*.’.1’2*6-’,1’*6>)’1,)*-% ,’ .’,-;*’,)6,’,)*’B*8.)’26, 12’86.’>-60/*0’2’ 5 =,I’ 620’,)’>->;?.,62>*’?6’)6+*’)60’.1?*’ 2/;*2>*’ 12’>*-*?12 6/0-*..*.’620’,)*’1-26?*2,.’1’81?*2I’ D;,’8*’01’21,’ 20’,)6,’26, 12.’>->;?.,62>*0’6.’,)*’ B*8.’8*-*’-*60 / ‘601=,’,)*’>1.,;?*.’1 ‘1,)*-’26, 12.’ *.=*> 6//A78D*2’,)*’-’-*. 0*2>*’ 2’ 5 =,’86.’6/86 .’ -*56-0*0’D ’,)*’6.’,*?=1-6- ‘620’8’)*2’,)*’-’-6 ^ ?*2,’86.’1’)1?*’?62; 6>,;-* ’.=;2’620’81+*2’D ’ ,)*’81?*2’ -1?’,)*’=-10;>*’1’,)*’-’ /1>9.’M L10% ddd ‘K X% & *’ 20’6/.1’,)6,’?*’0 6,*/’6 ,*-’/*6+^ 25’ 5 =,’,)*’=- 2> =6/’6-,>/*’1 ‘0-*..’6?125’,)*’ : *^ D-*8.’86.’.1?*’6?=/*’811//*2’56-?*2,’ ’,1’./**=’ 2’ M L10% LL ‘K X’,W8)>)’21,) 25’. ? /6-’ .’,1’D*’.**2’ 6?125’,)*’>1.,;?*.’1’ 57=,

K% & ,)’ -*.=*>,’ ,1’,)*’ .;==1.*0’-*=-*.*2,6, 12’ 1 ’ D ‘62> *2,’?12;?*2,.’ 62A7’6;,)*2, >’*L6?=/*.’ >1;/0’D*’ 1;20’*+*2’1 ‘6’. 25/*’ 5;-*’ 2’,)*’ 62> *2,’ >1.,;?*’ ,’81;/0’6 1-0’?;>)’.6, . 6>, 12’6.’,*20 25’ ,1’*/;> 06,*’?62A’=6..65*.’1 *- =,;-*’8)>)’>6221, 6,’=-*.*2,’D*’8 ,)’>*-,6 2, ’*L=/6 2*0% M **’6/.1’;2^ 0*-’,)*’6-, >/*’8 !3

M1%X ’ =6 2, 25’6,’ *2’ : 6..62’ -*=-*.*2,.’,)*’ 6-^ - +6/’1’.1?*’ 1-* 52*-.’ 2’ 5 =,’620’ .’ ;==1.*0’,1’ 5;-*’,)*’6-- +6/’1’B1.*=) .’D-*,)-*2’ 2’,)6,’>1;,, % ()*’6>>*..1-*.’1’,)*’.>*2*’,)*’=) . 1521? *.’ ,’,)*’ =*-.12.’620’,)*’, ?*’,1’8)>)’,)*’=>,;-*’-*/6,*.’6-* *-,62/EI7 2’;2 .12’8 ,)’,)6,’*+*2,1’ D;,’1,)*-’>-> ;?^ .,62>*.’6-*’656 2.’,)*’21, 12% -’B% 4% & /9 2.12’ .=*69.’)*. ,6, 25/’12’,)*’.;DA*>,1’620’;2,/’.1?*’ 5-*6,*-’>*-,6 2, I’.’1D,6 2*0’8I*?6’60?’,’,)*’=1.. ^ D/*’>1--*>,2*..’1’,)*’>12A*>,;-*’ ()*’622*L*0’>;,

? 6-96D/*' > ->,; ..,62>*% < 1.*.' 0 -*>,*0',) 6,',D*' =*1I' = *' .)1;/0' 8*6-' 6' - 25*' 6,',)*')*?' 1 ',)* -' 56-?*2,.' M ; ?% d ' NQX' 620',)*' =-1D6D / , ' .',)67',) .' >1?^ ? 620' ?*-*/ ' =*-=*,;6,*0' 6' ?1-*' 62> *2,';.65*% MS%X' ( ) .' - 25*' -*6==*6-.' ? ;>)' *2/6-5*0' 2',)*' 1,)*-' 5 =, 62' .>;/=,;-*' 2' 8) >)' B*8.' 6-*' .;==1.*0' ,1' D*' -*=-*.*2,*0% ( )*.*' 6-*' 2' 6',1 ? D' 0 .>1+*-*0' D ' */[12 ' 2',)*' +6// ' 1 ' 6D' S/C < */;9' 2*6-' ( )*D*.% ( )*-*' 6-*' >6=, +*.' 1 ' 0 *-*2,' 26, 12.' 620' 6 ? 125' ,)*?' 1;-' 5;-*.' .;==1.*0',1' -*=-*.*2,' B*8.% ( )*

;==1.*0' *=+* *6,6, 12' 1 'B*8 .,)' ;=, +*.' 12',)*' 5 =, 62' < 12; ? *2,.%

.>*2*' .' ?65 2*0',1' >1? ?*?1-6,*',)*',- ; ?=).' 1 ')6-61)C *>)1' 2',)6,' 86-' 2' 8) >)',)*' B*8.' 81-*' 0* *6,*0' 6,' < *5 001' 620',)* -' 9 25' B1. 6)' ./6 2' MK')-12% LLL+' LLL+ X% I M>%X' 2',)*' 6>*' 1 '6' -1>9' 6,' *) .,;2' M % +%X' 12',)*' < *0 62' D1-0*-' 1 ',)*' 62> *2,' .. - 6',)-*-*' .' 6' -*^ ? 6-96D/*' .>;/=,;-*' -*=-*.*2, 25' 6'A ; ? D*-' 1 '>6=, +*.' ,-;25',15*,)*-' D ',)*' 2*>9' D-1;5),' D* 1-*',)*' 9 25' 620' >12_;*-1-' 8)1' .**?.',1' D*' =-121;2> 25' .*2,*2>*' ;=12',)*?% ( )*'+*2*-6D/*' 62,_;, '1',) .' .>;/=,;-*' .' ;2_;*., 126D/*' 620' -' % % H1-,*-' 86.' /*0',1' 62> ',)6,',D*' .>;/=,;-*' >1? ?*?1-6,*.',)*' .;DA;56^ , 12% 620' 0*=1-/;, 12' 1 ',)*' ,- D*.' D ')6/?62*.*-' 9 25' 1 ' ..A - 6'MK' 25.' L+ ' SX% ( )*-*6.12.' 8) >)' /*6.. 52.' >- ' ' 1' ' R' ._%X' 1-',) .' >12^ >/;. 12' 6-*' 1 '/ ,,/*' 8* 5),' 620' 21,' 81-,)' *L6? 26^ , 12% ;,',)*' . 25/*' 6>,',)6,',) 5;-*.' 6-*' 6--6 *0' 2' 6' >1.,;?*' . ? /6-',1',)*' 62> *2,' 620' =-*.*2,' 56-D' 1 ',)*' =*1=/*' 1 ' X - 6' 620' *D6212' 2>/ 2*.';.',1',) 29',)6,',)*' 5;-*.' -*6// ' 01'-*=-*.*2,',)*' >1.,;?*' 1 '26^ , 12.' 8*.' 1 ',)*' ;=)-6,*.' 2>/;0 25' =-1D6D/ ',)6,' 1 ',)*' B*8.' 620',)*' -' 2*6-' 2* 5) D1-.% ( )*' 0-*..')*-*

;==1.*0' *=-*.*2,6, 12' 1 ' 6, +*.' 1 ' ;/*., 2;' 12',)*' 5 =I' , ;2' < 12; ?*2,.%

620' *D6212% ( )*' *+ 0*2>*' 1-',)*' /6.,' M 5% KX' .' 6.' >12>/;. +*' 6.' >62' D*' 1D,6 2*0' 1-' 21,' 12/ ' .',)*-*',)*' 26?*' *?6212J' I ' D* 25' >12.,62,/ ' 2,*->)625*0' 8 ,)' X' D;',',)*' =*-.12.',) ;,' 6,, -*0' 6-*' -*=-*.*2,*0' 6.' 2)6D , 25' 6' ?1;2,6 21;.' >1;2,- ' 620' *// 257-C' ,-**.',1' ?=*0*',)*' >)6- 1,.' 1 ',)*I 5A=, 62' 2+60*-.% (D*' 0-*..*.' 6-*' . ? /6-',1' *6>)' 1,)*-' 620',) .' . ? ^ /6- , '.,-*25,)*2.',)*' =-1D6D / , ',)6,',)*' 0-*..' 1 ',)* B*8.' 86.' 21,'+*- ' 0 *-*2,' 620' ,' .' 6/.1' 1D.*-+6D/*' ,)6,' ,' .' . ? /6-',1',)*' ;// 0-*..' 1 '.1?*' 1 ',)*' 5;-*.' 2',)*' .>;/=,;-*' 6,' *) .,;2 ,)*' 5;-*.' 6-*' D*6-0*0' 620',)*' >6=' 1-')*60C0-*..' .' D1;20'-1;20' 8 ,)' 6' //*,% ( )*' 5;-*.' 6-*' 6--6 *0' 2' 6'/125' 5182 -*6>) 25',1',)*' 629/*.' 620' >12 2*0' 6-1;20',)*' 86 .,' D ' 6' 5 -0/*' 620',)*' .)1;/0*-.' 6-*' >1+*-*0' D ' 6' >6=*' 8) >)' 6=^ =*6-.',1')6+*' D**2' >1? ?12',1' .*+*-6/' 26, 12.' 1 ' . 6% ' -.,'+ *8',' 81;/0' .**?',)6,',) .' 0-*..' .' 0 *-*2,' -1?',)1.*' 6/-*60 ' 5;-*0% ;,' 2' 6//' =-1D6D / , ' ,) .' ?1-*' .=6> 1;.' -1D*' .' ?*-*/ ' 62' 1;,*-' 56-?*2,' >1+*- 25',)*' 22*-'0-*..' 8) >)' .)182' 2',)*' 5;-*.' ,)6,' .**?' ?1-*' .>62, / ' 6--6 *0% M *>',)*' 25*2 1;.' =6=*-.' D ' 6' /60 ' 12',)*' >1.,;?*.' 1 ',D*' 62> *2,' 6I' 2662 ,*.' 2',)*' D ' '$! ! ' B62% Q N '=% KR' ._%' 620,A *' >;,.' 2',)*' 1% 1-' =2/P' Q %X' ** . 4' ( ) ! N% ( )*' 2 1-?6, 12' 12',) .' .;DA*>,' ,1' D*' 1D,6 2*0' -1?' ' .' *?D10 *0 ' M %X' 2',)*' 0-*..*.' 1 ' ?129.' 620' = /5- ? .' 8) >)' ?6 '*D*',-6>*0',1' 62' 62> *2,' 06,*' 620' 8) >)' 6-*' 62' 2,*20*0' ? ,6, 12' 1 ',)*' 0-*..^ *.' .;==1.*0',1')6+*' D**2' +1?' D ',D*' -.,' 0 .> =/*.

' ;==1.*0' *=-*.*2,6, 12' 1 ' .-6*/ ,,7,)' 01;*-.' 1;' ,)*' *-^ . 62' < 12; ?*2,.%

.)182' .' 6' .) -,'1-',;2 >'>12 2*0' 6-1;20',)*' 86 .,' D ' 6' .,-6=' 1-' 5 -0/*' 8) /*' 1,)*-.')6+*' 6' /125*-' 620' /6-^ 5*-' -1D*' ;-2 .)*0' 8 ,)' 6' .=6> 1;.' >6=*' 1-')110' 620' =-1D6D/ ' 81-2' 1+*-',)*' 1,)*-% ( )*-*' .' 21' -*6.12',1',) 29',)6,',)*' 0-*..' 1 ',)*' B*8.' 86.' 2' 62 ' ?=1-,62,'-*.=*>,' 0 *-*2,' -1?',)6,' 1',)*' 1,)*-' 2)6D ,62,.' 1',)*' .6?*' 620' ? ?*0 6,*/ ' D1-0*- 25' >1;2,-*.% ,' 81;/0',)*-*' 1-*' D*' .6, . 6>^ ,1- ' 620' 81;/0' *26D/*' ;.',1' A;05*' D*,,*-' 1 ',D*' 5^ ;-*.' 8) >)')6+*' D**2' 21, >*0' ' 8*')60' -*=-*.*2,6^ , 12.' 1 ' 462662 ,*.')>*2 > 62.' - 62.' < 16D ,*.' *,>% 'D ',)*' 5E=, 62' 6-, .,.' 8)1' 8*-*' .1' *L6>,' 2' 0C>- ? 26, 25' *+*2',1'>6- >6,;-*',)*' =*>;/6-,*.' 1 ' 26, 12.% $20*-',)*' 6-, >/*' 'M=% KNX',)*-*' .' 6' .;==1.*0' 5;-*' 1 ' 6' 6266),*' 86-- 1-' -0?',) .' .1;->*% ( )*' 0-*..' D* 25' ? $,6- ' 01*.' 21,' 6 1-0' ? ;>)' -11?' 1-' >1?=6- .12' 2',)*' =-*.*2,' 2.,62>*' D;,' 8*' 6,' 12>*' -*>152 .*' 2' ,' ?1.,' 1 ',)*' 6-, >/*.' 8) >)' 1-?*0',)*' ? / ,6- '0-*..' 1 ',)*' :*D-*8.% ( )*' 622*L*0' 5;-*.')18*+*-' >12+* ' ?1-*' 2 1-?6, 12' 6.' ,)* ' 6==*6-',1' -*=-*.*2,' 2)6D ,62,.' 1 ' 6?6-6

)- ., 62' 1.,;?*.' 1 ' - *2,6/ <129.' 620' -//5- ?.% 620' 6=1.,/*.' 1 ')- .,% MK%X' ( )*' 56-D' >12+*2, 126// ' 6.. 52*0' D ' =6 2,*-.' ,1' .>- =,;-6/ >)6-6>,*-.' 8) >)' 8*-*' *_;6// ' 2,*20*0',1' *?D10 ',)*' 0-*..' 1 ',)*' 6=1.^ ,1/ >6/ =*- 10' 620' .' >1--*>,*0' 2' .1?*' 0*5-**' D ',)*' 21, 12.' 1 ' - *2,6/ >1.,;?*' 8) >)' 8 *-*' >1//*>,*0' 0;-^ 25',)*' -;.60*.% (1' A;05*' 1 ',)*' +6/;*' 1 ',)*.*' >1.,;?*.' 8*' ?;.,' >1?=6-*',)*?' -.,' 8 ,)',)*' .>62, ' ?6,*- 6/.'6/-*60 ' =-10;>*0' 620',)*2' 8 ,)',)*' ?10*-*2'>1.,;?*.' 1 ' - 67' 620' -6D 6% ( )*'-*.;/,'1 ',) .' *L6? 26, 1 '8 //=1/C' 6D/ ' D*',)6,',)*.*',-60 , 126/ 56-D.' 6-*' D ' 21' ?*62.' D60' -*? 2 .>*2>*.' 1 ' :*D-*8' >1.,;?*' 620',)6,',)*' 0-*..*.' 8) >)',)*' =6 2,*-.')6+*' 2,-10;>*0' 2,1' .>- =^ ,;-6/ .;DA*>,.' 6-*' 6-' ?1-*' 2*6-',1' >1--*>,2*..',)62' ,')6.' /6,,*-/ ' D**2' ,)*' 6.) 12',1' .;==1.*% ,' .' =*-C

62> ' 9*,>)*.'1 ' - *2,6/ 1..; ?*'D '*6-/ ' 6 2,*-. ')6=.' 6.' 2*6-/ ' 6.' =1.. D/*' 6'A; ..' ?*0 ; ?' D*,8***2' ,)*' *>>/*. 6., >6/' ,-60 , 12' 620' ,)*' =-6>, >6/' 1D.*-+6, 12%' 1' 0-*..' ?1-*' .; ,6D/*' ,1' ,)*' 0 52 , ' 1 ',)*' .;DA*>,.' >1;/0' =1.. D/ ' D*' 0*+ .*0' 620' .62>, 12*0' 6.' ,')6.' D**2' D '/125' ; ,.*'620' -*20*-*0'+*2*-6D/*' D '.>- =,; -/6/ 6..1> 6, 12.'8*' .)1;/0'D*' -*/;>,62,',1'.**' ,'*L>)625*0' 1-' ,)*' *L ., 25' - *2,6/*>1.,; ?*. '8) >)',)*' -*2>)' 6-, .,.')6+*' D*5;2' ,1' =-* *-% ; ',.) .' .' 12/ '8 ,)' -*56-0',1' = >,1- 6/ 6..1> 6, 12.'620'* *>,.'1- ' 2' 62' 2_; - ' 2,1',)*' 11.,; ?1' '81-2'D ',)*' .-6*/^ ,*.' ?10*?' .1;->*.' 1 ' 2 1-?6, 12' ? ; .,' D*' D ' 21' ?*62.'1+*-/119*0%

' ()*'+6/;*'1',)*' ', '>1.,; ?*.' 1-',)*' =;-=1.*.' 1'.>- =,;-6/ //; .,-6, 12'6- .*.' -1?',)*' 6>,' ,)6,' ,)*' 0-*.. ' / 9*',)1' ; .65*. ' 1 ',)*' =*1=/*' .' ; 2^ 0*-.,110',1'D*',)*' .6?*' 1-' 2*6-/ ',)*' .6?*' 6.',)6,' ; .*0' 2' +*- ' 62> *2,', ?*.% ; ',) .' ? ; .' D*' ; 20*-^ .,110' 8 ,)' .1?*/ ? ,6, 12.% ()*'0-*..' 1 ',)*' (; -9.' .' 0 ., 2>, +*' 620' =*>;/ 6-',1',)*?.*/+*. ' 620')6.' 21' >122*>, 12' 8 ,)',)*' 6D1- 5 26/*>1.,; ?*.' 1 '& *.,*-2' . 6% ()*'0-*..' 1 ',)*' *-. 62.')6.'6/.1'D**2' >)625*0' 6/?1.,'8 ,) 2',)*' ?*?1- ' 1 ' ?62 ',)6,' 1 ',)*' -;/ 25' (6-,6-',- D*')6+ 25' D**2' 6/?1.,' 2+6- 6D/A7601=,*0'1' .1',)6,',)*'=-*.*2,'>1.,; ?*' .'6/,15*',)*-'0 *-*2,' -1?' ,)6,'8) >)' .' 5;-*0'D ' -' ()1?6.' : *-D*-, ')6-0 2' *' -; 2' *D;)-' 620' 1,)*-'-6+*//*-.' 1 ',)*' ,)' 620' Q,)' >*2,;- *.% ; ' 8 ,)',)*' *L>*=, 12.' 1 ',)*' 1-* 52' (;-9 .)' >1.,; ?*' 620' ,.' ?10 >6, 12.' 620' 8 ,)' >*-,6 2' /1>6/*L>*=, 12.' >) * / ' 2' ?1;2,6 21;.' -*5 12.' ,' ?6 'D*' .6 0',)6,',)*-*' .' 12*'=-*+6 / 25' >1.^ ,;?*' 2' 6/*,)*' >1;2,- *.' 1 ' . 6' D*,8***2',)*' (5-.' 620' <*0 ,*--62*62' 620',)-1;5)1;,' 1-,)*-2' -> 6' -1?',)*' /*',1' <1-1>>1' 620',)*' D629.' 1 ',)*' *2*^ 56/% () .' >1.,; ?*' .' *..*2, 6// ' -6D 62' 620' 18*.' ,.' *L,*2. 12' ,1',)*' 8 0*' >12_;*..' ;20*-',)*' -.,' >6/=).T' 620' ,' .' .)-17)',)*' -6D 62. ' ,T)*/*6.,' >)625*0' 1 62> *2,' 26,-12. ' 620' 6/?1.,',)*' 12/ ' 12*' 8) >)')6.' -*?6 2*0'6.' 6' 26, 12' -1?'62> *2,', ?*. ' '),)6,',)*' 62, _; , ' 1 ',) .' >1.,; ?*' ?6 ' D*' =-1+*0%' () .' .' ;201;D,*0/ ',)*' ?1.,'62> *2,'>1.,; ?*' 1 '& *.,^ *-2' . 6T 620' 8) /*' 12*' .*,' 1 '=-11 .' 81;/0' >6-- ' ,' ;=',1' .>- =,;-6/, ?*.' 621,)*-'.*,' 1 '.,-125'=-1D6D /^ ,' .' 620' .6, . 6>,1- '626/15*.'8 //',69*',' ,D6>9',1',)*' ?1.,' -*?1,*' =*- 10.' 1 '.>- =,;-6/) .,1- ' 620' 8 //.;55*.',',)6,',)*' 0-*..' 1 ',)*' B*8.' ,)*?.*/+*.' &6.' +*-A' . ? /6-'8',)1;,'D* 25'.,- >,/ ' 0*2, >6/%

& *' ?6 ')*-*' -*?6-9'M %X' ()6,',)*' ;.65*.' 1 ',)*' -6D 62.' 2' - 6' 620' 6/*., 2*' 6-*' ?1-*' 2' 65-**^ ?*2,' 8 ,)',)1.*' 1 ' >- =,;-*',)62',)1.*' 1 '62 '1,)*-' 2)6D ,62,.' 1 ',)1.*' >1;2,- *.% MK%X' ()6,',)* -' >1.^ ,;?*',)-18.' ?1-*' / 5),' 12',)*' .>- =,;-6/ 2, ?6, 12.' 3',)62' 62 '1,)*-'218'*L ., 25'8) /*' ,'65-**.' ?1-*',)62' 62 '1,)*-'8 ,)',)*' ?6,*- 6/.' .;==/ *0'D '62, _; , '620' D ',-60 , 12% MN%X' ()6,',)*' 0-*..' 8) >)',)*' -6D 62' 56-D.' 760;6// ' .;=*-.*0*0' 2' - 6'620' 6/*., 2*' 86.' 21,',)*' .6?*' 6.',)6,') ' .>- =,;-6/, ?*.' *L>*=, 25' =*-)6=.' 6?125',)*' =*6.62,- '8)1.*' 0-*..' 6==*6-.',1')6+*',)*2'0 *-*0'/ ,,/*' -1?',)6,'1',)*' -6D 62' >12^

_;*-1-.% ()*'B*8.')60' 1-'6D1+*' +*' >*2,;- *.' >*6.*0I' ,1'D*' 2)6D ,62,.'1 ' 6/*., 2*'T620' ,' .'>*-,6 2',)6,'0;-F 25',)*' 2,*-?*0 6,*'=*- 10',)*'0-*..'1 ',)*'$==*-'>/6..^ *. ' ,)*' ? / ,6- '620',)*' ,182.=*1=/*' ')60'D*>1?*'6.^ . ? /6,*0',1',)6,'1 ',)*' 4-**9.'1 ',)*' 6.,*-2'*?= -*% -6D 6')60' ?*628)/*'D**2' ;DA*>,*0',1'21' .;>)' 2 /;^ *2>*.'620',)*'0-*..' 8) >)' ,'D-1;5),' 2,1' - 6'?6 ' D*' -*56-0*0'6.' 6' -*.,1-6, 12' 1 ',)*' ?1-*' 62> *2,' >1.^ ,;?**'-6,)*-'62' M6.' ,' 86.' 2' ?62 ' >1;2,- *.' ,)*' 2,-10;>, 12' 1 '12*'=-*+ 1;./ ' ;2921828%

' .' ,1' D*' 1D.*-+*0')18*+*-',)6,',)*-*' 6-*' ,81' +*- ' 0 *-*2,' .1-,.' 1 '0-*..*.' 6?125',)*' -6D 62.% 2%' .',)6,'1',)*' *01; 2',- D*.'620',)*' 1,)*-',)6,' 1',)*' 2)6D ,62,.'1 ',182.% ()*'0 ., 2>, 12'D*,8**2' ,)*.*' .'.*/01?'>/*6-/ ' ;20*-.,110'1-'>1--*>,/ '.,6,*0' D;,' .'1',)*';,?1.,' ?=1-,62>*' 1-',)*'=;-=1.*'1',)*' =-*.*2,'21, >*% 2.,*60',)*-* 1-*'1'.=*69 25'1',)*' -6D 62'>1.,; ?*' 6.' 12*',) 25'8*' ?;.,' -*56-0' ,' 6.' ,81',) 25. ',)*'0*.*-,'>1.,; ?*'620',)*',182'>1.,; ?*% ',)*2'1;-' + *8.'1' : *D-*8'>1.,; ?*' 8*-*' D6.*0' 12' ,)*' 6>,; 6/*>1.,; ?*' 1 ',)*' -6D 62.'8*.)1;/0')*'/*0' ,1'>12>/;0*',)6,',)*' 0*.*-,'>1.,; ?*' -*=-*.*2,*0',)6,' 8) >)I'86.' 81-2' 0;- 25',)*' =6,- 6->)6/*=*- 10'620' ;2,/',)*' .-6*/,*.')60'D**2'.1?*', ?*' .*,,/*0' 2' 6^ 2662'T620',)*',182'>1.,; ?*',)6,'8) >)' 86.' 601=,*0' -1?',)*-'2* 5)D1-.' 8)*2',)*'D*>6?*'6'.*,,/*0'=*1^ =/*%

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< 10*?' -6D' *..' 1 ',)*' *.*-,'(-D*.% %

most common outermost garment in Western Asia. This singular neglect has arisen from their information being chiefly derived from Shaw and others, who describe the costume of the Arab tribes or Moors of Northern Africa, where the outer garment is more generally the *bournoos* (fig. 3), a woollen cloak, not unlike the *abba*, but furnished with a hood, and which is sometimes strangely confounded, even by well-informed persons, with a totally different outer garment worn in the same regions, usually called the *hyke*, but which is also, according to its materials, quality, or color, distinguished by various other names; and writers have produced some confusion by not observing that these names refer to an article of raiment which under all these names is essentially the same. Regardless of these minute distinctions, this part of dress may be described as a large woollen blanket, either white or brown, and in summer a cotton sheet (usually blue or white, or both colors together). Putting one corner before over the left shoulder, the wearer brings it behind, and then under the right arm, and so over the body, throwing it behind over the left shoulder, and leaving the right arm free for action. This very picturesque mode of wearing the *hyke* is shown in fig. 2 of the accompanying cut. Another

Various Methods of Wearing the Modern Arab Mantle or *Hyke*.

mode of wearing it is shown in fig. 3. It is sometimes thrown over the head as a protection from the sun or wind (fig. 1), and calls to mind the various passages of Scripture in which persons are described as covering their heads with their mantles (2 Sam. xv, 30; 1 Kings xix, 13; Esther vi, 12). This article of dress, originally borrowed from the nomades, is known in Arabia, and extends westward to the shores of the Atlantic, being most extensively used by all classes of the population. The seat of this dress, and of the abba respectively, is indicated by the direction of their importation into Egypt. The *hykes* are imported from the west (i. e. from North Africa), and the *abbas* from Syria. The close resemblance of the above group of real costume to those in which the traditionary ecclesiastical and traditionary artistical costumes are displayed, must be obvious to the most cursory observer. It may also be noticed that the *hyke* is not without some resemblance, as to the manner in which it was worn, to the outer garment of one of the figures in the Egyptian family, supposed to represent the arrival of Joseph's brethren in Egypt (above).

(*b*) We now turn to the costumes which are seen in the towns and villages of south-western Asia.

In the Scriptures *drawers* are only mentioned in the injunction that the high-priest should wear them (Exod. xxviii, 42), which seems to show that they were not generally in use; nor have we any evidence that they ever became common. Drawers descending to the middle of the thighs were worn by the ancient Egyptians, and workmen often laid aside all the rest of their dress when occupied in their labors. As far as this part of dress was used at all by the Hebrews, it was doubtless either like this, or similar to those which are now worn in Western Asia by all, except some among the poorer peasantry, and by many of the Bedouin Arabs. They are of linen or cotton, of ample breadth, tied around the body by a running string, or band, and always worn next the skin, not over the shirt, as in Europe.

It will be asked, when the poor Israelite had pawned his outer garment "wherein he slept," what dress was left to him? The answer is probably supplied by the annexed engraving, which represents slightly

Modern Oriental Undergarment.

different garments of cotton, or woollen frocks or shirts, which often, in warm weather, form the sole dress of the Bedouin peasants, and the lower class of townspeople. To this the *abba* or *hyke* is the proper outer robe (as in fig. 1, second cut preceding), but is usually, in summer, dispensed with in the daytime, and in the ordinary pursuits and occupations of life. It is sometimes (as in the foregoing cut, fig. 2) worn without, but more usually with a girdle; and it will be seen that the shorter specimens are not unlike the dress of one of the figures (fig. 3) in the earliest of the Egyptian subjects which have been produced. The shirt worn by the superior classes is of the same shape, but of finer materials. This is shown in the accompanying figure, which represents a gentleman as just risen from bed. If we call this a shirt, the Hebrews doubtless had it — the sole dress (excepting the cloak) of the poor, and the inner robe of the rich. Such, probably, were the "sheets" (translated "shirts" in some versions), of which Samson despoiled thirty Philistines to pay the forfeit of his riddle (Judg. xiv, 13, 19). It is shown from the Talmud, indeed, that the Hebrews of later days had a shirt called חֻלְצָה, *chaluk'*, which, it would appear, was often of wool (Lightfoot, *Hor. Heb.* on Luke ix, 3), and which is described as the ordinary inner garment, the outer being the cloak or mantle. This shows that the shirt or frock was, as in modern usage, the ordinary dress of the Jews, to which a mantle (*abba*, *hyke*, or *bournoos*) was the outer covering.

Modern Oriental Undress.

The Talmud enumerates eighteen several garments which formed the clothing of the Jews from head to foot (Talm. Hieros. *Sabb.* fol. 15; Talm. Bab. *Sabb.* fol. 120), mentioning, however, two sandals, two buskins, etc. This shows, at least, one thing, that they were not more sparingly clad than the modern Orient-

als. This being the case, we may be sure that although persons of the humbler classes were content with the shirt and the mantle, the wealthier people had other robes between these two, and forming a complete dress without the mantle, which with them was probably confined to out-of-door wear, or ceremonial use. It is, of course, impossible to discriminate these precisely, but in this matter we cannot be far wrong in trusting to the analogy of existing usages.

In all the annexed figures, representing persons of

Modern Oriental Outer Garment.

the superior class, we observe the shirt covered by a striped (sometimes figured) gown or *caftan* of mingled silk and cotton. It descends to the ankles, with long sleeves, extending a few inches beyond the fingers' ends, but divided from a point a little above the wrist, so that the hand is generally exposed, though it may be concealed by the sleeve when necessary; for it is customary to cover the hands in the presence of a person of high rank. It is very common, especially in winter, for persons to sleep without removing this gown, but only unloosing the girdle by which it is bound. It is not unusual within doors to see persons without any article of dress outside this; but it is considered decidedly as an undress, and no respectable person is beheld out of doors, or receives or pays visits, without an outer covering. Hence persons clad in this alone are said to be "naked" in Scripture—that is, not in the usual complete dress; for there can be no manner of doubt that this, or something like this, is the כְּתֹנֶת, *ketho'neth*, of Scripture (Exod. xxviii, 40; Job xxx, 18; Isa. xxii, 21, etc.). A similar robe is worn by the women, as was also the case among the Israelites (2 Sam. xiii, 18, 19; Cant. v, 3). It is in the bosom of this robe that various articles are carried. See Bosom.

The girdle worn over this, around the waist, is usually a colored shawl, or long piece of figured white muslin. The girdle of the poorer classes is of coarse stuff, and often of leather, with clasps. This leathern girdle is also much used by the Arabs, and by persons of condition when equipped for a journey. It is sometimes ornamented with workings in colored worsted, or silk, or with metal studs, shells, beads, etc. Both kinds of girdles were certainly in use among the Hebrews (2 Kings i, 8; Matt. iii, 4; Mark i, 6; comp. Jer. xiii, 1). See Girdle. It seems from 2 Sam. xx, 8 (comp. fig. 1 above), that it was usual to wear a knife or poniard in the girdle. This custom is still general, and denotes not any deadly disposition, but the want of clasp-knives. Men of literary vocations replace it by an ink-horn, as was also the case among the Israelites (Ezek. ix, 2).

Over the gown is worn either the short-sleeved *gibbeh* (fig. 3), which is a long coat of woollen cloth, or the long-sleeved *benish* (fig. 2), which is also of woollen cloth, and may be worn either over or instead of the other. The *benish* is, by reason of its long sleeves (with which the hands may be covered), the robe of ceremony, and is worn in the presence of superiors and persons of rank. Over one or both of these robes may be worn the *abba*, *bournoos*, or *hyke*, in any of the modes already indicated. Aged persons often wrap up the head and shoulders with the latter, in the manner shown in fig. 4.

This same *hyke* or wrapper is usually taken by persons going on a journey, for the purpose of being used in the same manner as a protection from the sun or wind. This is shown in the annexed cut, represent-

Modern Oriental Travelling Dress.

ing a group of persons equipped for travel. The robe is here more succinct and compact, and the firm manner in which the whole dress is girded up about the loins calls to mind the passages of Scripture in which the action of "girding up the loins" for a journey is mentioned.

From this it is also seen that travellers usually wear a sword, and the manner in which it is worn is correctly shown. It would also appear that the Jews had swords for such occasional uses (Matt. xxvi, 51; Luke xxii, 36).

The necessity of baring the arm for any kind of exertion must be evident from the manner in which it is encumbered in all the dresses we have produced. This action is often mentioned in Scripture, which alone proves that the arm was in ordinary circumstances similarly encumbered by the dress. For ordinary purposes a hasty tucking up of the sleeve of the right arm suffices; but for a continued action special contrivances are necessary. These are curious, as will be seen by the cut adjoining. The full sleeves of the

Girded Sleeves of Modern Orientals.

shirt are sometimes drawn up by means of cords, which pass round each shoulder, and cross behind, where they are tied in a knot. This custom is particularly affected by servants and workmen, who have const. nt

occasion for baring the arm; but others, whose occasions are more incidental, and who are, therefore, unprovided with the necessary cords, draw up the sleeves and tie them together behind between the shoulders (fig. 2).

For the dress of females, see the article WOMAN. Certain parts of dress, also, admit of separate consideration, such as the head-dress or turban (q. v.), and the dress of the feet or sandals (q. v.).—Kitto, s. v. Dress. (See "*The Book of Costume*," ancient and modern, by a Lady, Lond. 1847; Prisse and St. John's *Oriental Album*, London, 1847; *Costumes of Turkey*, London, 1802; Lane, *Arabian Nights*, cuts; Perkins, *Residence in Persia*, plates; Ramboux, *Erinner. an. d. Pilgerfahrt nach Jerusalem*, Cöln, 1854). Compare the article DRESS.

COSTUME, SACERDOTAL. See PRIEST.

COSTUME, CLERICAL. See VESTMENTS (OF THE CLERGY).

Cote (only in the plur. אֲוִרוֹת, *averoth'*, by transposition for אֲרִוֹת, *racks* for fodder), properly *cribs;* hence *pens*, or enclosures for flocks (2 Chron. xxxii, 28, where, instead of "cotes for flocks," the original has "flocks for [the] cotes"). See SHEEP-COTE; DOVE-COTE.

Cotelerius (*Cotelier*), JOHN BAPTIST, an eminent French scholar, born at Nismes, 1627. At twelve years of age he could read the Hebrew Bible and the Greek Testament with ease. In 1649 he was elected a member of the Sorbonne. He did not receive the degree of doctor, because he refused to take orders. In 1676 he was made Greek lecturer at Paris, and retained this post, with great reputation, till his death, August 2, 1686. Most of his literary labor was spent upon the Greek fathers; and in 1672 he published the "Apostolic Fathers" (*Patres Aevi Apostolici*, Paris), of which the best edition is *Patrum qui temporibus Apostolicis floruerunt opera*, recensuit J. Clericus (Amst. 1724, 2 vols. fol.). In 1667 he was commissioned by Colbert to revise and catalogue the Greek manuscripts of the Royal Library. He was engaged in this work, conjointly with the celebrated Du Cange, for five years. In 1676 he obtained through Colbert the chair of Greek at the Royal College of Paris. In 1677 he began the publication of his *Ecclesiæ Græcæ Monumenta, e MSS. codicibus*, Gr. and Lat. (3 vols. 4to; the 3d vol. appeared two days before his death). The fourth volume of this work, for which he had collected much material, was published in 1692 by the Maurines.—See Wetzer u. Welte, *Kirchen-Lex.* ii, 905; Dupin, *Nouvelle Bibliothèque*, xviii, 186.

Cottage is employed in our version for three Hebrew words. See BOOTH.

Modern Oriental Booths or Sheds.

1. סֻכָּה, *sukkah'*, signifies a *hut* made of boughs (Isa. i, 8), and is usually elsewhere translated "*booth*." It was anciently the custom in the East, as it still is, to erect little temporary sheds, covered with leaves, straw, or turf, giving shelter from the heat by day and the cold dews at night to the watchman that kept the garden or vineyard while the fruit was ripening, which otherwise might be stolen, or destroyed by jackals. These erections, being intended only for the occasion, were of the very slightest fabric, and when the fruits were gathered were either taken down, or left to fall to pieces, or were blown down during the winter (Job xxvii, 18). See LODGE.

Modern Oriental Lodge in a Melon-patch.

2. מְלוּנָה, *melunah'* (fem. of מָלוֹן, *an inn*), signifies properly a *lodging-place*, and is associated with the booth ("cottage") in the above passage (Isa. i, 8), where it is translated "*lodge*," being probably a somewhat slighter structure, if possible, as a cucumber patch is more temporary than a vineyard. It also occurs in Isa. xxiv, 20, in the mistranslated expression "and shall be removed [i. e. shaken about] like a *cottage*," where it denotes a hanging-bed or *hammock* suspended from trees, in which travellers, and especially the watchmen in gardens, were accustomed to sleep during summer, so as to be out of the reach of wild animals. The swinging of these aptly corresponds with the staggering of a drunken man. Or it may, perhaps, more appropriately denote here those frail structures of boughs, supported by a few poles, which the Orientals use for the same purpose.

Summer Sleeping-place among the Kurdish Hills.

3. In Zeph. ii, 6, the original term is כָּרֹת, *keroth'* (literally *diggings*), i. e. *pits* for holding water, and, instead of "dwellings [and] cottages for shepherds," it should be rendered "fields full of shepherds' cisterns,"

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' 1 ' 20 6' 6/? 1 . , ' *2^ , -*/ '1 ; , ' 1 ' ,) *' ? 6-9*, ' ; , ' . , // ' ; 2, /' 6' +*- ' -*>*2,' =*- 10' ,) *' >6/ >1*H 620' >) 2, [*. ' 1 ' 20 6' 1-? *0' +*-E' *L,*2. +*' 6-, >/*. I' 1 ' >1? ? *->*' -1 ?' ,) 6, ' >1; 2,- ' ,1' ; -1=* ' 1-' ,) *' 2+*., 56, 12' 1 ' ,) *' *6-/ ') ,1- ' 1 ' >1,,12 ' 8*' 6-*' >) * /E' 20*D,*0' ,1 ,) *' *6-/ *. , ' 21, >*. ' 1 ' ,) . ' >1? ? *->*[' D* 1-*' 600 ; > 25',) *. *') 18*+*- ' 8*' ? 6 ' D- * / ' 21, >*' ,) *' =6-, >; /6-' =/62,. ' 620' >1; 2, *. ' -1?' 8) >)' >1,,12' . ' 1D,6 2*0' 20 6' =1. . *. . *. ' , 81' +*- ' 0 ., 2>, ' . =*> *. d' ? % ' " ' 1 ' D1,6^ 2 . ,. ' 1 ' 8) >)' ,) *-*' 6-*' . *+*-6/ +6- *, *. ' .1 ?*' 1 ' 8) >)') 6+*' .=-*60' 21-,) ' 620' 6/.1' 2,1' ,) *' .1 ; ,) ' 1 ' ; -1=* ' 620' 2,1' - >6' K' ? % ' 1' 1-' >1,,12C, -** ' 8) >)' . ' / ,,/*' >; /, +6,*0' 12' 6>>1; 2, ' 1 ' . ' . ? 6// =-10; >*' D ; , ' 8) >)' */0. ' 6' 2*' 9 20' 1 ' >1,,1 -' ( ) . ' ? ; . , ' 21, ' D*' >12 1 ; 20*0 ' 6. ' . ' 1 , *2' . ' 8 ,) ' ,) *' . /9C>1,,12' , -** ' 1-' ; ' " % %" 1' 8) >)' 01*. ' 21, ' */0' 6' >1,,12' , ' 1-' .= 22 25' 1,,12' -1?' ,) *. *' 9 20. ' . ' 218C>) * / ' >; /, +6,*0' 2' *2,-6/ 20 6 ' -1?' 8) *2>*' , ' . ' >6-- *0' ,1' 620' *L=1-,*0' -1?' -16>) ' , ' . ' 6/.1' /6-5*/ ' >; /, +6,*0' 2' ,) *' 0 . , - >, . ' 1 ' ,) *' 1? D6 ' -*. 0*2> ' I6.' 6/.1' 2' ,) 6, ' 1 ' < 60-6. ' D ; , ' /*. . ' 2' *2^ 56/ ' *L>*=, ' 1-') 1? *' ? 62; 6>, ; -*' 8) >)' 1 ' >1; I. *' -*^ _ ; -*. ' 6' /6-5*' . ; ==/ ' 8) *-*' . 1' /6-5*' 6' =1=; /6, 12' 6->' 6//' >/1,) *0' 2' >1,,12' ? *- >62' >1,,12' . ' 1D,6 2*0' -1?' , 81' *2, -*/ ' 0 . , 2>, ' . =*> *. T ? % ' ; " ' 1' 1' 8) >)' 0 *-*2, '+6- *, *. ' */0' ,) *' *6' ./620' $=/620' 4*1-5 62' 620' ,) *' *8C -/*62. ' >1,,12. ! 8) /* ?!' ' */0. ' ,) *' -6[/ ' *-26? D ; >1' 620' 1,) ^ *-' 1; ,) ' ? ! - >62' >1,,12. ' () *. *' . =*> *. ' 6-*' 1- 5 2^ 6/' 26, +*. ' 1 ' ? *- >6 ' ,,1' . ' +' () *' ? % ' " 1' 6' 5; -*' 1 ' 8) >)' . ' 622*L*0' . ' =-1D6D/ ,) *' .=*> *. ' 92182' ,1' ,) 1' 62> *2,. ' M **' ' =' % 1' . ' +' 41. . = ; ? X ( ) . ' . ; D . ,62>*' . ' 21' 01; D,' 0*21,*0' D ' ,) *' ,*-?' " % (M 8) *2>*' 4-') %- ' Y ! ' $ ' -1?' 62. >-' + % 8 (1 ' . ,) ' ' M 8) >)' ,) *' ' ' -*20*-. ' 5-**2J' M *=, ') %- < ! ' P8! ( ) *-*' . ' >12. 0*-6D/*' 01; D, ') 18*+*-' 8) *,) *-' ; 20*-' " "' 2' ,) *' *6-/ *-' 620' 2' ,) *%/6, *-D119. ' 1 ',) *' ' (' -*20*-*0' 2',) *' ' ' 8) , *' / 2*2 J' ' 2*' / 2*2 J' *, >' >1,,12' ? 6 ' 21, ') 6+*' D**2' 2>/ ; 0*0' 6. ' 8*//' 1,) ',) *. *' /6,, *-', *-? . ' 6-*' . 6 0' D ' 4*. *2 ; . ' ,1' D*' -1?' -11,6FQ 52 25' 1- 726// ' ? *-*' 8) , *2*. . ! ' 6' . *2. *' . 6 0' 6/.1' ,1' 2) *-*' 2',) *' 81-0' 7N ' ' ; . *0' .1 ? *, ?*.' 2., *60' 1 ' 620' .1 ? *, ?*.' , 15*,) *-' 8 ,) ' " +', 1' ? *62',) *' 6D- >' 2' [*9' LL + ' S ' '" ' ? *2, 12*0' 6.' ? =1-, *0' 2,1' (-*' -1?' 5 =, ' 620' ' 6.' -1?' - 6' 6>) ' .' 1; 20' 2', 1 ? ' >1; =/*0' 8 ,) ' M 6 : d I > (8 ' 2',) *' .*2. *' 1 ' ' =; -=/*' 620' 2*' / 2*2 J' ' O' ,) *' ? 1., ') 18 ') 20' >1. , / ' 6==6-*/ M>1 ? =' -1+' LL ' KK ' 8 ,) ' .,) ' + ' X' ( ) *' 0-*. . ' 1 ' ; > ' 5 =, 62' =- *. , . ' 6, ' 62 ' -6, *' 2' ,) * -' ? 2 . , -6, 12. ' 86. ' 8 ,) 1 ; ' , 01; D, ' 1 '/ 2*2' M : *-10' ' N X' 2' .= , *' 1 ' / 2 .' 6. . *-. 12' ML L ' ' KX' ,) 6, ' ,) * ' =-* *--*0' >1,,12' * ' >1,,12' 56-? *2, . ' 1-' ,) *' 81-.) =' 1 ' ,) *' , *? =/*. ' . ' .6 0' ,1' D*' ? *2, 12*0' 12' ,) *' 1. *, ,6' . ,12*' M & A/9 2.12 ' & 0' 6 ! ' X' ( ) *' .6 ? *' 86. ' ,) *' >6. *' 8 ,) ' ,) *' B*8 .) ' *=) 10' 620' 1,) *-' =- *. ,/ ' 6, , -*' 2' 8) >)' & ' >6221, ' . ; ==1. *' 62 ' >6-*/*. . 2*. . ' ,1') 6+*' =-*+6 /*; ') 18 *+*-' 6' B*8') 6==*2*0', 1') 6+*' 6' = *>*' 1 ' >1,,12' >/1,) ') *' =-1D6D/ ' 81; /0' 21, ' D*' 0*, *--*01D ' 62 ' .>-; I' = *' 6D1; ' ,) *' " ' 1 ' *; , ' LL ' ' -1?' 8*6-^ 25' ,) 6, ' 620' / 2*2' , 15*,) *-' ( ) *-*' . ') 18*+*-' 21' 81-0' 1-' ,) *' >1,,12' % ' M / 9*' 20 # ' 1-' /6LX' 2',) *' : *D-*8 ' 21-' 62 ' -*6.12' , 1' . ; ==1. *' ,) 6, ' ,) *-*' 86. ' 62 ' *6-/ ' 9218/*05*' 1 ',) *' 6D- >' 2' 6/*., 2*' >1') ! ( ) *' 5 ' =, 62' ? ; ? ? ' . 86, D 25. ' 6/.1 ' ? 62 ' 1 ' 8) >)' 6-*' . 6 0', 1' -*? 6 2' 6. ' 5110' 6. ' 8) *2' -*.)' -1?' ,) *' /11 ? ' 6-*' 0*> 0*0 ' 6 , *-' 2; >)' >12, -1+*-. ' 620' ? ^ 2; , *' 626/ . . ' , 1') 6+*' D**2' 1 ' / 2*2 ' 620' 21, ' >1,,12' I6 % ! ' & ' 4f 2',) *' ! ' 6 ') h ' ' QKX' ( ) *' +* 7 ' 0 / > ; /, ' 1 ' 0*> 0 25 ') 18 *+*-' .) 18. ') 18' *6. / ' *+*2' . > *2, > 1D. *-+*-. ' ? 6 ' ? . , 69*' 620' ? ; >) ' ? 1-*') 18' ? = 1. . D/*' , ' 81; /0') 6+*' D**2' 1-' 62^ > *2, ' =1=; /6-' 8 - , *-. ' , 1' 6+1 0' >12 ; . 12' +*2' 4-**9' 26, ; -6/ . , . ' .1 ? *, ?*. ' >/*6-/ ' 2>/ ; 0*' >1,,12J' ; 20*-' E ! ' ( ) *' .6 ? *' 6==*6-. ' , 1' D*' , -; *' 1 ' , ' *' , N ' 620' ,) *' 8) 1/*' >/6. . ' 1 ' 81-0. ' . 52 25' 8) , *' , *L, /*' +*5*, 6D/*' 6D- >. ' -1?' ,) *' =-1=*-' - *2, 6/' 26? *' 1-' ,) *' 6-, >/*' - % ' 1 8 ,) ' 8) >)' * ,) *-' ,) * -' /*L620- 62' 1-' 6-,) 62' 2, *->1; -. *' ? 5), ' 6? / 6- [*,) *? ' ,) *' 6, 2. ' D1--18*0' " ' >1? =/*, */ ' >; --*2, ' 2' =1*, ^ >6/' ; . *' 2' ,) *' 51/0*2' 620' .) I*-' =*- 10' 1 ' 6, 2 , ' 1-' .6 /. ' 682 25. ' * , >' 6--1' 92*8' 1 ' , -**C811/ 12' ,) 1' 6 ; ,) 1- , ' 1 ' , *. 6. ' >12, *? =1-6- ' 8 ,) ' : *-101, ; . ' ( ) *' 4-**9. ' ,) -1 ; 5) ' ,) *' >1? ? *-> 6/' >12. *_ ; *2>*. ' 1 ' /*L620*- . ' >12_ ; *. , . ' ? ; . , ') 6+*' 92182' 1 ' >1,,12' >/1,) ' 620' ?1-*' 1-' /*. . ' 1 ' ,) *' =/62, ' ?6. . ' 20**0' M6D1; , ' % ' X' . *2, ' 6. ' 6' =-*. *2, ' -1? % 5 =, ' 6' >1-./*, ' 1-26? *2, *0' 8 ,) ' 51/0' 620' , -**C811/J' I %) ' : *-10' ' X' 8) >)' / 2 ' .6 . ' 86. ' ., //*L . , ^ 25' 2') . ' , ? *' 2' 6', *? =/*' 2')10*. ' 620' ,) 6, ' ,) *' ? 2; , *2*. . ' 1 ' , . ' D-*') 60' =-1+19*0' ,) *' *L=*- ? *2, . ' 1 ' ,) *' >; - 1; . ' 1,,12' 86. ' ? 62; 6>, ; -*0' 620' 81-2' *L, *2. f7/ ' 2' 5 =, ' D ; , ' *L, 62, ' ? 12; ? *2, . ' 5 +*' 21' =-11 ' 1 ' , . ' 5-18,) ' 6. ' 2',) *' >6. *' 1 ' /6L' 2',) 6, ' >1; 2C ,- ' M & /9 2.12 ' ' %!' = ' SC NR ' 620' =/6, *' 1' N SX' 20**0 ') 60' , ' D**2' 6' 5*2*-6/' =-10 ; >, ' 8*' >1; /0' .>6->*^ / ') 6+*' ? . . *0' 20 25' .1 ? *', -6>*' 1 ' , ' 2',) *' ? 12; ^ ? *2, 6/' 0*, 6 /. ' 1 ' 62> *2, ' 5 =, 62' 6-, . ' , -60*. ' *, >' E D ; , ' *. =*> 6// ' 8) *2I / 2E' M % ' X' 6. . *-, . ' ,) 6, ' >1, ^ , 12' 86. ' ,) *2' 5, 182' 2' 5 =, ' 6' . , 6, *? *2, ' >12 -? *0' D ' B ; / ; . ' 1// ; L' M6' >*2, ; - ' /6, *-X' 8*' >62') 6-0/ ' -*^ . . ' ,) *' 2 *-*2>*' ,) 6, ' 6, ' /*6. ' 6. ' 6' >; - 1. , ' 620' 6. ' 62' *L=*- ? *2, ' .1 ?*' =/62, 6, 12. ' *L . , *0' ,) *-*' ( ) . ' .

the more likely, since we find the cotton-*tree* (*Gossypium arboreum*, less usual than, and distinct from, the cotton *plant*, *Gossyp. herbac.*) mentioned still by Pliny as the *only remarkable* tree of the adjacent Ethiopia; and since Arabia, on its other side, appears to have known cotton from time immemorial, to grow it in abundance, and in parts to be highly favorable to that product. In India, however, we have the earliest records of the use of cotton for dress, of which, including the starching of it, some curious traces are found as early as 800 B.C., in the *Institutes of Menu*; also (it is said, on the authority of Prof. Wilson) in the *Rig-Veda*, 105, v. 8. (For these and some other curious antiquities of the subject, see Royle's *Culture and Commerce of Cotton in India*, p. 117–122.)

Cotton is *now* both grown and manufactured in various parts of Syria and Palestine, and, owing probably to its being less conductive of heat, seems preferred for turbans and shirts to linen; but there is no proof that, till they came in contact with Persia, the Hebrews generally knew of it as a distinct fabric from linen, whilst the negative proof of language and the probabilities of fact offer a strong presumption that, if they obtained it at all in commerce, they confounded it with linen under the terms *shesh* or *buts*. The greater cleanliness and durability of linen probably established its superiority over cotton for sepulchral purposes in the N.-T. period, by which time the latter must have been commonly known, and thus there is no reason for assigning cotton as the material of the "linen clothes" (ὀθόνια) of which we read. (For the whole subject, see Yates's *Textrinum Antiquorum*, pt. i, chap. vi, and app. D.)—Smith, s. v. See BOTANY.

Cotton, George Edward Lynch, Anglican bishop of Calcutta and metropolitan of the Anglican dioceses of India and Ceylon, was born at Chester, England, Oct. 29, 1832. After studying at Westminster School and Trinity College, he was appointed to a mastership in Rugby School, and shortly after was elected to a fellowship at Trinity College. About 1841 he succeeded to the mastership of the fifth form, the highest but one. In 1852 he was elected head master of Marlborough College, which under his management rose to a high position among leading public schools. In 1858 he was appointed to the metropolitan see of Calcutta, where he rendered himself generally beloved. In 1863, with the full concurrence of the governor general, he officially sanctioned an innovation in the use of consecrated churches, which had often been desired, but never till then secured. Since the mutiny, several Scotch regiments have been stationed in the barracks of Upper India, and in many stations they have no churches of their own. Bishop Cotton ordered that at a convenient hour on the Sunday the Episcopal churches should be available for their worship, and that the Presbyterian clergyman should have full liberty to officiate after the rules of his own Church, to the great dissatisfaction of the High-Church party in the Church of England. In England strong measures were suggested in order to compel him to retract. But he knew that the measure was right in itself, that the law was on his side, and that his conduct was heartily approved by the Indian government and by all right-thinking men. In the same spirit, when the Marriage Bill was brought before the Legislative Council, to provide increased facilities for the marriage of Presbyterians and Nonconformists, and give to Nonconformist ministers and registrars powers which they do not possess in England itself, he gave the act his cordial approval. He was accidentally drowned while disembarking from a steamer, October 6, 1866.—*Ann. Amer. Cyclopædia for* 1866, p. 261; *Brit. Quart. Review*, Jan. 1867.

Cotton, John, an eminent Congregational minister, was born at Derby, Eng., Dec. 4, 1585. He was a student in Cambridge, became fellow of Emmanuel College, and was chosen successively head lecturer and dean. In 1612 he was settled as minister at Boston, Lincolnshire. After preaching some few years, he was silenced for nonconformity with some ceremonies which he held to be unscriptural, but after a short time he was reinstated. About 1632, to escape examination before the High Commission Court, he secreted himself in London, and thence sailed for New England, arriving in Boston Sept. 3, 1633. On Oct. 10 he was appointed preacher in the First Church. He died Dec. 23, 1652. He published *An Abstract of the Laws of New England* (1641):—*The Church's Resurrection* (1642):—*The Pouring out of the Seven Vials* (1642):—*The Way of Life* (Lond. 1641, 4to):—*Sermons on Mercy and Justice of God* (Lond. 1641, 4to);—*Exposition of the Canticles* (Lond. 1642, 8vo):—*The Covenant of Grace* (Lond. 1662, sm. 8vo):—*A practical Commentary upon the* 1*st Epistle of John* (Lond. 1656, fol.), with several minor writings.—Sprague, *Annals*, i, 25.

Cotton MSS. See PURPUREUS, CODEX.

Couch (יָצוּעַ, *yatsu'a*, something *spread*, Gen. xlix, 4; "bed," 1 Chron. v, 1; Job xvii, 13; Psa. lxiii, 6; cxxxii, 3; מִשְׁכָּב, *mishkab'*, something to *lie* upon, Job vii, 13, elsewhere "bed;" עֶרֶשׂ, *e'res*, something *erected*, Psa. vi, 6; Amos iii, 12; vi, 4; "bed," Job vii, 13; Psa. xli, 3; cxxxii, 3; Prov. vii, 16; Cant. i, 16; "bedstead," Deut. iii, 11; κλινίδιον, a *little bed*, Luke v, 19, 24; κράββατος, a *pallet*, Acts v, 15, elsewhere "bed"). Feather-beds, as among us, are unknown in the East, as indeed generally in southern climates. The poor sleep on mats or wrapped in their overclothes (Exod. xxii, 27; Deut. xxiv, 13; comp. Theocr. xviii, 19; Stobæi *Serm.* 72, p. 404: as to Ruth iii, 9; Ezek. xvi, 8, see Biel in the *Miscell. Lips. Nov.* v, 209 sq.), and, in the open air, sometimes have only a stone for a pillow (Arvieux, iii, 216; comp. Gen. ix, 21, 23; xxviii, 11). The wealthy use bolsters or mattresses (Russel, *Aleppo*, i, 195), stuffed with wool or cotton. These are not laid upon a bedstead, but on a raised portion (*divan*, q. v.) along the side of the room, which by day serves for a seat (Harmar, i, 134; ii, 71; Rosenmüller, *Morgenl.* iii, 211; vi, 14; Lorent, *Wander.* p. 32). Whether the couches of the ancient Hebrews for the sick or sleeping, which are usually termed מִטָּה, *mittah'* (Gen. xlvii, 31; 1 Sam. xix, 13; 2 Sam. iv, 7; 2 Kings i, 4), מִשְׁכָּב, *mishkab'* (Exod. xxi, 18; 2 Sam. xiii, 5; Cant. iii, 1), עֶרֶשׂ, *e'res* (Job vii, 13; Cant. i, 16; Prov. vii, 11; properly a *bedstead*, see Deut. iii, 11), were upon such a platform, is uncertain, as they appear to have been movable (1 Sam. xix, 15), and were probably used in the daytime, like sofas, for sitting down and repose (1 Sam. xxviii, 23; Ezek. xxiii, 41; Amos iii, 12; vi, 4; yet compare 2 Kings iv, 10). Costly carpets graced the houses of

Oriental Garden Bedstead.

,) *' - >)' M -1+% + ' S' ._ %T [*9% LL ' T ?1.' ' KXT ,)1.*' 8)1' /6 ' ;=12' ,)*?' >1+*-*0' ,)*?.*/+*.' 8 ,)' . ? /6-',6=*.,- '620'=/6>*0'6' .1 ,' ;-' ;20*-',)* -')*60'M ' 6?%L/L ' NX% '>621= '1-'D*0'8 ,)'6',*.,*-' .'26?*0' 2',)*' =1> =)6'MB;0 ,)'L+/' KNX'6200/.*I' 8)*-*' 6') 625 25' D*0'1-')6??1>9' .6% LL

X'.;>)'6.'86,>)*-.' 2'56-0*2.';.*0'M4*.*2 ;.' -" ' # !' =% T' >1?=% *D;)-' ; +)' =% Q% 2' ,)*' < .)26'+6- 1;.'9 20.' 1 'D*0.'1-'>1;>)*.'6-*' -* *--*0' ,1TI*' 5% ,)*' "(' I7 !' + ' X% ()* >1;>)*.')1 *$ - 8' 1-',)*. >9'26?*0' 2',)* % (% M<6,,' L ' ST' <6-9' ' T' + ' T ;9*' +' Q' L + ' KKX' M(;VV 1;d1' M ' .,)% + ' X' 620' O % ' >,.' + 'S' *,>%X' 8*-*' ?1+6D/*' M *>9*-' " ' ' KX% ' & 2*-' ' Q% ' **' 8 !

1;/12% **' ; %

1;/,*-'1>>;-.' 2' ' 6?% L ' K K '6.',)*',-62.^ /6, 12'1 '2L'M><X'62'65- >;/,;-6/ 2.,-;?*2,'-*20*-*0' */.*8)*-*' % "1 " M(M .6' ' T' < >% + ' NT' B1*/ ' X' 1-'8) >)'))18*+*-' 6'0 *-*2,' 81-0' .,620.' 2' ,)*' =6..65*' 2' ' 6?% ()*' *=,'-*20*-.' ,' ,)*' 5*2*-6/,*-?'1 > ;1 ' % 1' 2' ' 6?%' " &% "-' + ' 2',)*1,)*-'=6..65*.% ()*' : 6DD 2.' ;20*-.,620' ,',1' D*' 6' +!' ,' 86.' =-1D6D/ ',)*' 6> 25C= *>*' 1-' .)1*' 1 '6' =/1;5)' 626/151;.' ,1' 1;-' >1;/,*-' 6.' ,' 86.' 1 ' -12 ' 8 ,)' 62' *05*',)6,'-*_; -*0' .)6-=*2 25' 620' 86.' *6. / ',-62. 1-?*0' 2,1' 6' .81-0% ;>)' 62' 6==*2065*',1',)*' =/1;5)')18*+*-' .' 21,'218' 2' ;.*' 2',)*' 6.,'\.** $ $;'D;,' 81;/0'D*' 5-*6,/' 2**0*0' 2' ?=-1+*0' >;/, +6, 12' >12. 0*- 25',)*' -6 /' .,-;>,;-*' 1',)*' =/1;5)' ..*/',)*' =1 2,'D* 25';.;6// ' 12/' 1' 8110'M.**' & /9 2.12.' & ' 6 % ' ' X% **' + $ '!

1;2> /'.',)*' -*20*- 25'5 +*2'D '1;-',-62./6,1-.' >) * /',1',81' 4-**9'81-0.%

% ;=V 1;d 1+'M6' & ' ' 1(8.52 *.' 6' ' 1 '=*-.12.' 1-' *L*>;, 25' 62 ' *2,*-=-.*' M<6,,' L ' X' 6'.*2.*'*/.*8)*-*'>1+*-*0'D ',)*';.;6/ ,-62./6, 12' >1;2.*/TJ' 6/.1'6' ' 1-'6..*?D/ '1 ' =*-.12.'0;/ '>12+*2*0% 2' >,.' LL+' K' ,' .'.=19*2' 1 ' '% *'=*-.12.'8)1'.6,' 2'=;D/ >',-6/.'+',)*' 51+*-21-'1 '6'=-1+ 2>*' >6//*0'6/.1' 2'M ;*^ ,12 ;.' ,S% NNX 1-' 'M 6?=-0% N !'& 'X !' SX' 2',)*' -*5;/6-' =-1>12.;/6-' >12+*2,;.%J' ()./6.,' 86.'6' ..6,*0'?**, 25'1',)*' :1?62' >,[*2.'1'6' =-1+ 2>*' 2',)*' >) * ',182' 1-',)*' =;-=1.*' 1',- 25' >6;.*.' -1?'6?125' 8)1?',)*' =-1>12.;/ .*/*>,*0'6' 2;?D*-',1',- ',)*' >6.*.' 2'0.=:,*') ?.*/'=-*. 0 25' P+*-',)*' -' 6>, 12% -1?',)*' 2..62>*' 2' _;*., 12' .1?*,) 25'626/151;.'6==*6-.',1')6+*' 1D,6 2*0';20*-' ,)*' =-1>;-6,1-.) =' 1 'B;0.*6'M.**' ? ,) .' ' ' ' & !' .% % 12+*2,;.X% **' ' 'T + $! K% ;+6D=,1+' M6' ' " 8.52 *.' 6'?6/ 6..*?D/ '1-' 6..,6,*0'?**, 25'1',)*' :1?62' >, [

+6/ 0¶ ,*-',)*' ,D'>*2,;- ',)*'/18*-'>/*-5 '620',)*'/6 , ' 8*-*' *2, -*/ ' *L>/;0*0' -1?',)*' >1;2> /.' 620' D .)1=.' 12/ '60? ,,*0¶ ()*' 2;?D*-' 1 'D .)1=.' 56,)^ *-*0' 6,',)*' 5-*6,*.,'1 ',)*' >1;2> /.' >12.,,;,*0' D;,' 6' .?6// =1-, 12' 1 ',)*' *2, -*' *= .>1=6,*' 1 ',)*' 81-/0¶ ()*' 1*>;?*2 >6/ >1;2> /.' 8) >)' 6-*' 5*2*-6// '60? ,^ ,*0' ,1' D*6-',)6,' , ,/*' ?1.,'A;.,/ ' 8*-*' -6,)*-' 4-**9' ,)62' 5*2*-6/ >1;2> /.¶ 2',)*' .,- >,'620' =-1=*-'.*2.*' 1 ',)*',*-?',)*-* 1-*'21' 1*>;?*2 >6/ >1;2> /')6.'*+*-' D**2')*/0¶ ()*-*'6-*'.*+*2'>1;2> /.'60? ,,*0'D 'D1,)',)*I4-**9' 620' 6, 2'>);->)*.'6.'1*>;?*2 >6/¶ ()*' 1?62' 6,)^ 1/>.' 600' ,8*/+*' ,1',)*' 2;?D*-' ?69 25' 2 2*,**2' 26?*0' 2,)*' 1//18 25'/ .,¶ 1-'0*,6 /.'6.',1',)*' 01^ 25.' 1',)*' >1;2> /.' .**' ,)*' .*=6-6,*' 6-, >/*.' ;20*-' *6>)', ,/*' 2',) .' >/1=6*0 6' 3 ¶ ()*%. 210' 1 '6=1.,/*.' 2'B*-;.6/*?' M >,.' L+X% K¶ ()*' -.,' 1;2> /' 1 ' >*')*/0' NK ' % %',1' 6..*-,' ?6 ' *--' 620' .1?*, ?*.')6+*' *--*0' *+*2' 2',) 25.' 1 ',)*' >1;2> /.' 8) >)' 6-*' .;=^ =1. , 12',1',)*' 1= 2 12.'1 ' - ;.¶ N' ()*' -.,' 1;2> / 1 ' 12.,62, 21=/*' >12+19*0';20*-',)*' *?=*-1-' ()*1^ 01. 6.',)*' 4-*6,'MNQ ' % %X',1'0*,*-? 2*',)*' 6,)1/>' 01>,- 2*'-*56-0 25',)*' : 1/ '4)1.,¶ ' ()*' -.,' 1;2^ >/1 ' =)*.;.'>12+*2*0';20*-'()*101. ;.',)*' 1;25*-' M N ' % %X',1'>120*?2',)*' *.,1- 62')*-*. ¶ ()*' 1;2> / 1 ')6/>*012' ;20*-',)*' ?=*-1-' <*-> 62' M ' % %X'8)>)'6..*-,*0',)*' 01>,- 2*' 1',)*' ;2 12' 1',)*' 0 + 2*' 8 ,)',)*'); ?62' 26,;-*' 2')- .,'620' >120*?2*0',)*')*-*. *.'1 ' ;. >)*.'620',)*' <121=) C . ,*.¶ S¶ ()*'.*>120' 1;2> /1 ' 12.,62, 21=/*';20*-C B;., 2 62' M N % %X'8)>)'>120*?2*0',)*'01>,- 2*.' 1 ' - 5*2' - ;.' <6>*012 ;.' 620' 1,)*-.¶ ¶ ()*',) -0' 1;2> /1 ' 12.,62, 21=/*'>12+19*0';20*-',)*' *?=*-1-' 12.,62, 2*' 15126,;.'MSQ ' % %X' 1-',)*' >120*?26, 12'1',)*' <121,)*/.*')*-*. ¶ Q¶ ()*'.*5*I %120' 1;2> /1 ' >*')*/0' 2',)*'-* 52'1',)*'*?=-*..' -*2*' 620')*-'.12' 12.,62, 2*'M Q ' % %X',1'*.,6D/.)' ,)*'81-.)='1 ' ?65*.¶ 56 2.,',) .' >1;2> /)6-/*^ ?652*' >12+*2*0'6' >1;2,*-'. 210'6,' -629 1-',' M R %X!X¶ R¶ ()*' 1;-,)' 1;2>$'1 ' 12.,62, 21=/*' ;2^ 0*-' 6./;.'620' 0- 62'MQSR' % %X',)*'=- 2> =6/D;.^ 2*..'1 '8)>)'86.',)*'0*=1. , 12'1 ')1, ;.'8)1')60' 2,-;0*') ?.*/' 2,1',)*' .**' 1' 12.,62, 21=/*' ;2^ 1>>;=62,¶ ¶ ()*' -.,' 6,*-62' 1;2> /)*/0' 2' 1?*' ;20*-',)*' *?=*-1-' :*2-' '620' >12+19*0'D ',)*' =1=*' 6/ L,;.' 'M KN' % %X',1'.*,,/*',)*'0 .=:,.*'12' 2+*., ,;-*'M_¶ +%X¶ ' ()*'.*>120' 6,*-62' 1;2> /' ;20*-',)*' *?=*-1-' 12-60' '620' =1=*' 221>*2,' ' M NR' % %X'>120*?2*0',)*'--1-.'1 ' -21/0'1 ' -*.> 6' 620'1,)*-.¶ K¶ ()*',)-0' 6,*-62' 1;2> /'>12+*2*0' D ' =1=*' /*L620*-' 'M R' % %X' 2',)*'-* 52'1 ' -*0*- >9' '1 '4*-?62 '>120*?2*0',)*' *--1-.'620' ?=*, *.J'1',)*'& 6/0*2.*.'620' /D 5*2.*.¶ N¶ ()*' 1;-,)' 6,*-62' 1;2> /')*/0';20*-'2002*,' 'M K % %X'6?125'1,)*-' ?6,,*-.' 6..*-,*0'620'>12 -?*0',)*'015?6'1 ',-62.;D.,62, 6, 12'620'2*>*.. , ' 1-',)*'-* 1-?6, 12' 1 '6D;.*.' 620',)*'*L, -=6, 12' 1 ')*-*. % ¶ ()*' -.,'1*>;?*2 >6/ . 210'1 ' 12')*/0'0;- 25',-1+*-. ¶ ()*' '-*+ +*0',)*' .=*>,6>/*' 1',)*' 1?62',)*'=12, >6,*'1 '221>*2,' 'M K ' % X')60'1-',.' 1DA*>,',)*'=-1?1, 12'1 ',)*' -;.60*.',)*'-*..,1-6, 12' 1 '*>>/*. 6.,>6/ 0 .> =/ 2*' *,>¶ ¶ ()*'.*>120'1*>;^ ?*2 >6/ . 210'1 ' 12'86.')*/0'06- 25',)*'=12, >6,*' 1 '4-*51-'d'M K ' % %X' ,.'=- 2> =6/1DA*>,'86.',)*' -*;2 12'1 ',)*'4-**9'620' 6, 2'>);->)*.' S¶ ()*' E210'1 ' *22*' 2'46;/' ;20*-' /*?*2.' 'M N % %X'86.'>12+19*0',1'.;==-*..',)*' 2 5),.'(*?^ =/6-.' *,>' ¶ ()*' 1;2> /1 ' 12.,62>*' 1 ')*' >12.^ +19*0'6,',)*'-*_;*.,'1 ',)*'*?=*-1-' 5 .?;20' ' % %'620'.6,' 1-' 1;-' *6-.¶ ,'6..*-,*0',)*'6;,)1-^ , '1'62'1*>;?*2 >6/>1;2> /1+*-',)*'=1=*' 620'>12^ 0*?2*0',)*'01>,-2*.'1'B1)2' :;..'620'B*-1?*' 1' -65;*' Q¶ ()*' 1;2> /1 ' 6.*/86.'>12+19*0'D ' =1=*'<6-,2' N ' % ¶ ,'.6,' 1-'2*6-/ ',*2' /*6-.' 620'=;-=1.*0',1'2,-10;>*'I6-*1-?6, 12'2',)*'0 .> ^ =/2*'620'*+*2',)*'>12..,;, 12'1',)*' 1?62' 6,)1/>');->)¶ /6>,.'=6..*0'2',) .'>1;2> /'6 ,*-',')60 D**2' 1-?6// '0 ..1/+*0'D ',)*'=1=*'6-*'-*56-0*0'D ',)*' 1?62' 6,)1/>');->)'6.'2;//620'+1 0¶ R¶ ()*'>*/*D-6,*0' 1;2>$'1 '(-*2,')*/0' C SN' % ¶ ', 86.'1=*2*0'D ' 6;/ '620'D-1;5),',1'6'>/1.*' ;20*-',)*'=12, >6,*'1 ' 6;/ ¶ ()*');->)'1 ' 25/620'># ' ' "' ' 1'=,¶ X'.=*69.'1 ',)1.*' . L'>1;2> /.'8)>)'8*-*' 6//18*0'620'-*>* +*0'1 '6// ?*2 J' + [%' >*' % ¶ NK T 12.,62, 21=/*' % ¶ NQ T =)*.;.' % ¶ N T)6/>*012' % ¶ T 12.,62, 21=/*' % ¶ NT 12.,62, 21=/*' % ¶ SQ' M.*-*' & !' !" '" 5 ' >,¶ QS '6-,¶ +X¶ ()*' & ' '5 ' M6-,¶ LL X'0*>/6-*',)6,' '5*2*-6/ >1;2> /.' ?6 '21,'D*' 56,)*-*0',15*,)*-'8 ,)1;',)*'>1? ?620?*2,'620'8 // 1 '=- 2>*.¶ 20'8)*2',)*'D*'56,)*-*0',15*,)*-'M1-7 6.?;>)'6.',)*'D*'62'6..*?D/'1 '?*2'8)*-*1'6//D1' 21,'51+*-2*0'8 ,)',)*' = -,'620' 1-0'1 '410X',)*' K¶ ()*' -.,' 1;2> /1 ' >*')*/0' NK ' % %',1'6..*-,'?6 ' *--' 620' .1?*, ?*.')6+*' *--*0' *+*2' 2',) 25.' ,)*' 6,)1/>'01>,-2*'-*.=*>,25',)*' 12'1 '410'2'1=^ =1. , 12',1',)*'1= 2 12.'1 ' - ;.¶ N' ()*' -.,' 1;2> / 1 ' 12.,62, 21=/*' >12+19*0';20*-',)*' *?=*-1-' <*-> 62' M ' % %X'8)>)'6..*-,*0',)*'01>,-2*' 1',)*' ;2 12' 1',)*' 0 + 2*' 8 ,)',)*'); ?62' 26,;-*' 2')- .,'620' >120*?2*0',)*')*-*. *.'1 ' ;. >)*.'620',)*' <121=) C . ,*.¶ S¶ ()*'.*>120' 1;2> /1 ' 12.,62, 21=/*';20*-C B;., 2 62' M N % %X'8)>)'>120*?2*0',)*'01>,-2*.' 1',)*' ;2 12' 1 ' - 5*2' - ;.' <6>*012 ;.' 620' 1,)*-.¶ ¶ ()*',) -0' 1;2> /1 ' 12.,62, 21=/*' >12+19*0';20*-',)*' *?=*-1-' 12.,62, 2*' 15126,;.'MSQ ' % %X' 1-',)*' >120*?26, 12'1',)*' <121,)*/.*')*-*. ¶ Q¶ ()*'.*5*I %120' 1;2> /1 ' >*')*/0' 2',)*'-* 52'1 ',)*'*?=-*..' -*2*' 620')*-'.12' 12.,62, 2*'M Q ' % %X',1'*.,6D/.)' ,)*'81-.)='1 ' ?65*.¶ 56 2.,',) .' >1;2> /)6-/*^ ?652*' >12+*2*0'6' >1;2,*-'. 210'6,' -629 1-',' M R %X!X¶ R¶ ()*' 1;-,)' 1;2>$'1 ' 12.,62, 21=/*' ;2^ 0*-' 6./;.'620' 0- 62'MQSR' % %X',)*'=- 2> =6/D;.^ 2*..'1 '8)>)'86.',)*'0*=1. , 12'1 ')1, ;.'8)1')60' 2,-;0*') ?.*/' 2,1',)*'.**' 1' 12.,62, 21=/*' ;2^ 1>>;=62,¶ ¶ ()*' -.,' 6,*-62' 1;2> /)*/0' 2' 1?*' ;20*-',)*' *?=*-1-' :*2-' '620' >12+19*0'D ',)*' =1=*' 6/ L,;.' 'M KN' % %X',1'.*,,/*',)*'0 .=:,.*'12' 2+*., ,;-*'M_¶ +%X¶ ' ()*'.*>120' 6,*-62' 1;2> /' ;20*-',)*' *?=*-1-' 12-60' '620' =1=*' 221>*2,' ' M NR' % %X'>120*?2*0',)*'--1-.'1 ' -21/0'1 ' -*.> 6' 620'1,)*-.¶ K¶ ()*',)-0' 6,*-62' 1;2> /'>12+*2*0' D ' =1=*' /*L620*-' 'M R' % %X' 2',)*'-* 52'1 ' -*0*- >9' '1 '4*-?62 '>120*?2*0',)*' *--1-.'620' ?=*, *.J'1',)*'& 6/0*2.*.'620' /D 5*2.*.¶ N¶ ()*' 1;-,)' 6,*-62' 1;2> /')*/0';20*-'2002*,' 'M K % %X'6?125'1,)*-' ?6,,*-.' 6..*-,*0'620'>12 -?*0',)*'015?6'1 ',-62.;D.,62, 6, 12'620'2*>*.. , ' 1-',)*'-* 1-?6, 12' 1 '6D;.*.' 620',)*'*L, -=6, 12' 1 ')*-*. % ¶ ()*' -.,'1*>;?*2 >6/ . 210'1 ' 12')*/0'0;- 25',-1+*-. ¶ ()*' '-*+ +*0',)*' .=*>,6>/*' 1',)*' 1?62',)*'=12, >6,*'1 '221>*2,' 'M K ' % X')60'1-',.' 1DA*>,',)*'=-1?1, 12'1 ',)*' -;.60*.',)*'-*..,1-6, 12' 1 '*>>/*. 6.,>6/ 0 .> =/ 2*' *,>¶ ¶ ()*'.*>120'1*>;^ ?*2 >6/ . 210'1 ' 12')*/0'06- 25',)*'=12, >6,*' 1 '4-*51-'d'M K ' % %X' ,.'=- 2> =6/1DA*>,'86.',)*' -*;2 12'1 ',)*'4-**9'620' 6, 2'>);->)*.' S¶ ()*' E210'1 ' *22*' 2'46;/' ;20*-' /*?*2.' 'M N % %X'86.'>12+19*0',1'.;==-*..',)*' 2 5),.'(*?^ =/6-.' *,>' ¶ ()*' 1;2> /1 ' 12.,62>*' 1 ')*' >12.^ +19*0'6,',)*'-*_;*.,'1 ',)*'*?=*-1-' 5 .?;20' ' % %'620'.6,' 1-' 1;-' *6-.¶ ,'6..*-,*0',)*'6;,)1-^ , '1'62'1*>;?*2 >6/>1;2> /1+*-',)*'=1=*' 620'>12^ 0*?2*0',)*'01>,-2*.'1'B1)2' :;..'620'B*-1?*' 1' -65;*' Q¶ ()*' 1;2> /1 ' 6.*/86.'>12+19*0'D ' =1=*'<6-,2' N ' % ¶ ,'.6,' 1-'2*6-/ ',*2' /*6-.' 620'=;-=1.*0',1'2,-10;>*'I6-*1-?6, 12'2',)*'0 .> ^ =/2*'620'*+*2',)*'>12..,;, 12'1',)*' 1?62' 6,)1/>');->)¶ /6>,.'=6..*0'2',) .'>1;2> /'6 ,*-',')60 D**2' 1-?6// '0 ..1/+*0'D ',)*'=1=*'6-*'-*56-0*0'D ',)*' 1?62' 6,)1/>');->)'6.'2;//620'+1 0¶ R¶ ()*'>*/*D-6,*0' 1;2>$'1 '(-*2,')*/0' C SN' % ¶ ', 86.'1=*2*0'D ' 6;/ '620'D-1;5),',1'6'>/1.*' ;20*-',)*'=12, >6,*'1 ' 6;/ ¶ ()*');->)'1 ' 25/620'># ' ' "' ' 1'=,¶ X'.=*69.'1 ',)1.*' . L'>1;2> /.'8)>)'8*-*' 6//18*0'620'-*>* +*0'1 '6// ?*2 J' + [%' >*' % ¶ NK T 12.,62, 21=/*' % ¶ NQ T =)*.;.' % ¶ N T)6/>*012' % ¶ T 12.,62, 21=/*' % ¶ NT 12.,62, 21=/*' % ¶ SQ' M.*-*' & !' !" '" 5 ' >,¶ QS '6-,¶ +X¶ ()*' & ' '5 ' M6-,¶ LL X'0*>/6-*',)6,' '5*2*-6/ >1;2> /.' ?6 '21,'D*' 56,)*-*0',15*,)*-'8 ,)1;',)*'>1? ?620?*2,'620'8 // 1 '=- 2>*.¶ 20'8)*2',)*'D*'56,)*-*0',15*,)*-'M1-7 6.?;>)'6.',)*'D*'62'6..*?D/'1 '?*2'8)*-*1'6//D1' 21,'51+*-2*0'8 ,)',)*' = -,'620' 1-0'1 '410X',)*' K¶ ()*' -.,' 1;2> /1 ' >*')*/0' NK ' % %',1'6..*-,'?6 ' *--' 620' .1?*, ?*.')6+*' *--*0' *+*2' 2',) 25.' ,)*' 6,)1/>'01>,-2*'-*.=*>,25',)*' 12'1 '410'2'1=^ =1. , 12',1',)*'1= 2 12.'1 ' - ;.¶ N' ()*' -.,' 1;2> /

620' * ,)*-'=-*. 0*0'1+*-',)*?' 2'=* 712'1-'D '>1?? .^ . 12*-.'† 620',)*') ;6/-6,)>6, 12'1 ',)*' 0*> . 12.' 86.' 6/.1' /* ,' ,1' ,)*' *?=*-1-% ;',%,)*' 4-**9') ;->)' 65-**.' 8 ,)',)*' 6, 2% 2' 6.>- D 25'6D.1/;,*' " M ' ,1',)*' 0*> . 12.' 1 ',-;/ '>*>;?*2 >6/>1;2> /.% 4-*5^ 1- '1 ' 6[62[;.'M8)1'86.'=-*. 0*2,' 1-'6', ?*' 1 ',)*' .*>120' 1.>;?>2 >6' >1;2> /%' .=*69.' .,-125/ ' 1 ',)*' *+ /.' ,1' 8)>)' .;>)' 6..*?D/ *.' 6-*' / 6D/*a' 6?' 2^ >/ 2*0',1'6+1 0' >12+*2, 12.'1 'D .)1=.† '2*+*-'92*8' 12*',)6,'0 0'21,'>1?*',1' 6'D60'*20' 620'>-*6,*' ?1-* 0 .1-0*-.',)62' ,' 6,,*?=,*0',1'-*>, % I '-*?6-96^ D/*' + *8'1 ',)*' 6;,)1- , '1'>1;2> /.' 86.',)6,'1' >1^ /6.'1' /6?*25 .'M %'+%X' + [%',)6,',)*E ' 2') .' 1= 2 12' >1;/0' >/6 ?' -*56-0' 1-',)*' -' -*.1/;, 12.' 12/ ',)*' ?*?D*-. 8*-*' -*6// 'D*/ *+*-.' 620' ',)* ' 8*-*' ?1-*' >12>*-2*0' 1-',)*' .6/+6, 12' 1 '.1;/.',)62' 1-'.*>;/6-' 2,*-*.,.%I' : .' 7 *8 ' 12' 5*2*-6/ >1;2> /.' 8*-*' ;// ' .*,' 1-,)' 2'6'/ ,,/*' 81-9' *2, ,/*0' ' % ' ' ' 1'8) >)' >12. .,.' 1 ',)-**' /*,,*-.' 600-*..*0' 2' ' 1-' ',1' 6' =-1 *..1-' 6,',)*' 6- .' $2 +*-. , ' M=- 2,*0'6==6-*2,/ '6,' *226' 2' QKX% :*' 21,'12/ ' =/6>*.',)*' 6;,)1- , '1 '5*2*-6/ >1;2> /.' 1+*-',)*' 6;^ ,)1- , '1 ',)*' =1=*.' D;,)*' 6;,)1- , '1 ',)*' D/* 1+*-',)*' 6;,)1- , '1 ',)*' >1;2> /.% :*' 01;D,.' 8)*,)^ *-' 6,' 7 K ,)*' 1-?*-' 1*>;?*2 >6/ >1;2> /.' ,)*' : 1/ ' = -',-*6// '=-*. 0*0'6.',)*' : 1/ ' = -',' 81;/0' 21,' 6.. .,' ?*2' =;-.; 25'. *>;/6-' 6 ?.% :*' 0*2 *.',)6,'6' >1;2> />1?=1.*0'1 '.;>)' ?*2'-*=-*.*2,.',)*') ;->)' 620' 6..*-,.',)6,' 410' 6/12*' 9218.' 8)1' 6-*') .' =*1=/*' 620' 8)*-*',)*' : 1/ ' 4)1.;'08*//.'620',)6,',)*-*' ?6 ' D*' ,?*.' 8)*2',)*') ;->)' >62' 12/ 'D*' 1;20' 2' 12*' . 25/*' 81?62' M?' '% ' '%1 ' ' 8!' ,*-',)*' /6=.*' 1 '1+*-'N ' *6-.' ,)*' =1=*' 2' QS '. 52 *0') .' =;-=1.*',1' .;? ?12' 62^ 1,)*-' 1*>;?*2 >6/ >1;2* ' '>1;-.*' 212*' D;,' 1^ ?62 .',D .)1=.' & // 6,,*20',%' I %' '>1;2> /.')6+*' D**2',11'2;?*-1;.',1'D*' ?*2, 12*0')*-*' 2' 0*,6 /% ()*' ?1.,' ?=1-,62,' 1' ,)*?'6-*'?*2, 12*0' ;20*-',)*' 26?*.' 1',)*' =/6>*.' 6, 8)>)',)*E')6+*' D**2')*/0' M*% 5% LC/6C)6=*//*' 1?= *52*X% .,.'6-*'5 +*2' 2' ?1.,'1',)*' D119.'12')-.,62'62, _;,*.'620'2' 62012' !' ' ! % ()*' ?1.,' ?=1-,62,'>1//*>, 12.'1'1',)*' 6>,.'1',)*' >1;2> /.'6-*' 2 ;.' ' ? 'M 1/152*' 4 S' '+1/.' 1/%T S Q' '+1/.' 1/T 6-.' SNQ'R'+1/.% 1/%XT ,)*.6?*'*0,*0'D' 6DD'620' 1..6-,'M 6-.' S '.%' '+1/.%'8,)' .;==/*?*2,'D' 6/;[*' SNQ' +1/% 1/%XT :6-01;2' ' ' ' *,>% M 6-.' '.%' K'+1/.' 1/%XT 1/*,'M *2>*' KQ'KN' +1/.% ,1'8,)' .;==/*?*2,'D' <62. ' QC K' '+1/.% 51 25'0182',1',)*' *6-' K XT' <62. ' $!' ! ' ' % !' 'M /1-*2>*' RCRQ'N' +1/.% 1/%X% ()*'6DD'<52*'=-1=1.*.'6'>1?=/*,*'>1//*>, 12' 2'Q' +1/.% ()*-*'6-*'.=*> 6/ >1//*>, 12.'1',)*' 6>,.' 1'26, 126/620'=-1+ 2> 6/ >1;2> /.'† *% 5% 1-' -62>*' -?120'M 6-.' SKRX' 6' 620*' M 6-.' SSSXT 1-' =7?' 5; --*'M<60-0' Q XT 1-'4*-?62 % 2,*-?' M<62[' NN C N' ' +1/.%X% '?62;6/.').,1-*.',X' >1;2>/.'*,>%',)* 1//18 25'6-*',)*'?1.,' ?=1-,62,a' &6/>)') " " 'M *=.% RXT 4-*-' 6% ' '? ' 'M ;D/2' QKQ' +1XT 62^ 012' ' ' 'M 120% Q S' K?1XT *+*-^ 05*' 3 1' ' ' $!'$'&% 1' ' ' >, !' S KCQK'K'+1/.% 1/%XT :*/*' " " 'M -* D;-5' Q '._%' '+1/.% +1 ' ' ;2 2.)*0X% **'6/.1'4 DD12' ' ' '@ '>)6=% d d T 6-02*-' + 1' + ' SNT // 1,,' ' ' 5 ('D9% '>)% T *--6-.' ' ; " 1 .% % 12>/;?T >)6 '# (' '" ' " ' " " ' +1/% 'g S T B6?*.' % ' $ % '@ " ' ' ' " ' " "' '5 'M 120% SQQ' +1XT 1*" '5 '@ ' ' " ' 1'*,>% M 120' SQR' ,1XT -182*', ' " (-" = '& -,% d d T 6/?*-', ' " ' " "' ' T -6?=' - 2' " + ' % '=% T *5<'&2 "2 ' + ' S% 3 $ '> ! *>' 4 (& (%

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xxiii, 12; 1 Chron. xxxiii, 5; Ps. xcii, 13, etc. See TABERNACLE; TEMPLE. The same word is very often employed for the enclosures of the "villages" of Palestine, and under the form of *Hazer* or *Hazor* (q. v.) frequently occurs in the names of places in the A. V. See VILLAGE. It also designates the court of a prison (Neh. iii, 25; Jer. xxxii, 2, etc.), of a private house (2 Sam. xvii, 18), and of a palace (2 Kings xx, 4; Esth. i, 5, etc.). In Isa. xxxiv, 19, "court for owls," the cognate חָצִיר, *chatsir'*, is found. 2. In 2 Chron. iv, 9, and vi, 13, however, a different word is employed, apparently, for the above sacred places —*oratria*, עֲזָרָה, *azarah'*, from a root of similar meaning. This word also occurs in Ezek. xliii, 14, 17, 20; xlv, 19 (A. V. "settle"), but apparently with reference to the ledge or offset of the altar (q. v.) 3. In Amos vii, 13, where the Hebrew word is בַּיִת, *beyth*, a "house," our translators, anxious to use a term applicable specially to a king's residence, have put "court." 4. In the Apocrypha *αὐλή* is rendered "court" with respect to the Temple (1 Esdr. ix, 1; 1 Macc. iv, 38; ix, 54), or the palace (1 Macc. xi, 46), which latter is expressed also (1 Macc. xiii, 40) by a periphrasis (*τὰ περὶ ἡμῶν*). 5. In the N. T. the word *αὐλή* designates such an open court (as it is once rendered, Rev. xi, 2, referring to the temple; elsewhere "hall" or "palace"); and *βασίλεια*, a *palace*, is once (Luke vii, 25) rendered "kings' courts." See PALACE.

The term תָּוֶךְ, *ta'vek* (fully תּוֹךְ חַבַּיִת, *middle of the house*, 1 Sam. iv, 6), also designates in Hebrew the quadrangular area in Eastern houses, denominated in the New Testament *τὸ μέσον*, the centre or "midst" (Luke v, 19). This court is sometimes paved with marble of various kinds, and in the centre there is usually a fountain, if the situation of the place admits of it. The court is generally surrounded on all sides, but sometimes only on one side, with a cloister or covered walk, called מוּסָךְ, *musak'*, over which, if the house have more than one story, is a gallery of the same dimensions, supported by columns. Large companies were received into the court on particular occasions (Esth. i, 5; Luke v, 19). At such times, a large veil of thick cloth was extended by ropes over the whole of the court, in order to exclude the heat of the sun. This veil or curtain of the area may be that termed in the New Testament *στέγη*, covering, or "roof" (Mark ii, 4; Luke vii, 6). See HOUSE.

Court-yard of an Oriental House.

COURT, JUDICIAL. Among the Jews, besides the Sanhedrim (q. v.), or great "council" (q. v.), there were lesser courts (*συνέδρια*, Matt. x, 17; Mark xiii, 9), of which there were two at Jerusalem, and one in each town of Palestine. The constitution of these courts is a doubtful point. According to Talmudical writers, the number of judges was twenty-three in places where there was a population of 120, and three where the population fell below that number (Mishna, *Sanhedr.* i, 6). Josephus, however, gives a different account; he states (*Ant.* iv, 8, 14) that the court, as constituted by Moses (Deut. xvi, 18), consisted of seven judges, each of whom had two Levites as assessors; accordingly, in the reform which he carried out in Galilee, he appointed seven judges for the trial of minor offences (*War*, ii, 20, 5). The statement of Josephus is generally accepted as correct; but it should be noticed that these courts were not always in existence. They may have been instituted by himself on what he conceived to be the true Mosaic model; a supposition which is rendered probable by his farther institution of a council of Seventy, which served as a court for capital offences, altogether independent of the Sanhedrim at Jerusalem (*Life*, 14; *War*, ii, 20, 5). The existence of local courts, however constituted, is clearly implied in the passages quoted from the N. T.; and perhaps the *judgment* (Matt. v, 21) applies to them. See MARKET. Under the Roman government there was a provincial court (*συμβούλιον*, Acts xxv, 12), a kind of jury or privy council, consisting of a certain number of assessors (*consiliarii*, Sueton. *Tib.* 33, 55), who assisted the procurators in the administration of justice and other public matters.—Smith, s. v. Council. See JUDGE.

COURT, ROYAL. The natives of the East have ever been remarkable for a more reverential estimation of the state and dignity of a king than has usually prevailed among other people, and to this fact the language of Scripture bears ample testimony. Although on some special occasions we read of the Jewish monarchs sitting in the gate with their people (2 Sam. xix, 8; Jer. xxxviii, 7), and the prophets appear to have had easy access to them (1 Kings xx, 13; 2 Chron. xxv, 15), yet it is abundantly evident that regal state was, in general, fully maintained, with only that admixture of occasional intercourse and familiarity which may be noticed by every traveller at the present day in the East. Hence it was accounted the height of human felicity to be admitted into that splendid circle which surrounded the person of the sovereign, and they seem to have considered it a good omen if any one was so fortunate as to behold the face of the king (Prov. xxix, 26); whence the expression of seeing God (Matt. v, 8) is to be understood as the enjoyment of the highest possible happiness, such as his favor and protection, especially in the life to come. In reference to this custom, the angel Gabriel replied to Zacharias that he was Gabriel that stood in the presence of God; thus intimating that he was in a state of high favor and trust (Luke i, 19). Hence to "stand before the king" is a phrase which intended the same as to be occupied in his service, and to perform some duty for him (Gen. xli, 46; 1 Sam. xxii, 6, 7), and imported the most eminent and dignified station at court. This illustrates the statement of Christ respecting children, "In heaven their angels do always behold the face of my Father which is in heaven" (Matt. xviii, 1–10), an allusion to the custom of Oriental courts, where the great men, those who are highest in office and favor, are most frequently in the prince's palace and presence (Esth. i, 14; 1 Kings x, 8; xii, 6; 2 Kings xxv, 19). In like

2622*-' ,)*' >12,*2, 12.' 6?125' ,)*' 6=1..,/*.' 1-' ,)*' >) * ' =1. ' 12' ;20*-')- .,' .)18.' ,)6,' ,)* ' ? .,119' ,)*' .= - ,;6/ 26,;-*'1 ') .' < 25012ff' ,)*' -*_;*.,'1 ',)*' ?1,)*-' 1 'B6?*.' 620'B1)27',)6,')*-' .12.' ? 5),',.,')*' 12*' 12') .'- 5),')620 '620',)*' 1,)*-' 12') .'/* ,' 2') .' 9 2501?' M<6,,' LL ' K CKNX' *+ 0*2,/ '6//;0*.' ,1',)*' >;.,1?' 8) >)' ,)*2' 1D,6 2*0' 2',)*' >1;-,.' 1 '=- 2>*.' 8)*-*' ,81' 1 ',)*' 21D/*.,' 620' ?1.,' 0 52 *0' =*-.12C 65*.' 8*-*' -*.=*>, +*/ ' .*6,*0 ' 12*' 12' *6>)' . 0*' 2*L,' ,)*' .1+*-* 52') ?.*/ ' ,);.' *2A1 25',)*' ?1.,'*? 2*2,' =/6>*.' 1 ' 0 52 , ' M ' 25.' ' RT' .6% L/+ ' RT' : *D% ' N7% **' L1%

1 ;-,' '62' *? 2*2,' -*2>)' -1,*.,62,' 0 + 2*' 86.' D1?' 2' SRS' 6,' //*2*;+*C0*C *-5' M6>^ >1-0 25',1'71,)*-.' 6,' 6' (1;-' 0 5;*.X' 2' +6-6 . ' ,*-',)*' -*+1>6, 12' 1 ',)*' 0 >,' 1 ' 62,*.' 2' SQ ' ,)*' -*2>)' -1,*.,62,') ;->)' 86.' 2' 0625*-' 1 ' .*/ C 0*],-;>, =2' ,)-1;5)' 626, > .?% $20*-' ,)*.*' > -^ >;?.,62>*. ' 1;-,' 2' ,)*' . 210.' 1 ' */=)A26.' 2' S 620' 1 ' 625;*01>' 2' '/6 0',)*' 1;206, 12' 1-' 62' *>>/*. 6.,>6/ >12., ,:, 12' D6.*0' ;=12',)*' 1/0' 0 .> =/ 2*' 1 ',)*' -*2>)') ;->)% 2' .1' 01 25',)*' ?*,' 5-*6,' 1==1. , 12' 620I'*+*2' *2>1;2,*-*0' =*-.126/ =*-/' *,') .' 81-9' 8*2,' 12% (1' 1D+ 6,*' ,)*' 0 ^ >;/, ' 1 ' 2,-;., 25',)*' ;2>, 12.' 1 ',)*' .6>-*0' 1 >*' ,1' =*-.12.' /6>9 25',)*' =-1=*-' 1-0 26, 12') *' .*2,' 12*' 1 ') .' >1//*65;*.' ,1' U;->)',1' -*>* +*' , '620',)*' /6,^ ,*-' ?=6-,*0' ,' ,1',)*' 1,)*-.' 2' 6' . 210')*/0' 2' Q% & ,)',)*' 6 0' 1 ',)*' 51+*-2?*2,' 1 ' *-2*' 620',)*' 6->)D .)1=' 1 ' 62,*-D;- ' 1;-,'*.,6D/ .)*0' 2' KR' 6' .*? 26- '6,' 6;.622*' 8)*-*' ? 2 .,*-.' 8*-*' =-*=6-*0' 1-',)*' >);->)*.' '"' *.*-,J' 6.',)*' 8*-*' >6//*0' +*- '6==-1=- 6,*/ % //',)*' *>>/*. 6.,>6/' =6=*-.' 8*-*' 06,*0' -1?' ,)*' *.*-,%J' ()*' 0;9*' 1 ' -/*62.' 8) /*' -*5*2,' 86.' 6// *0' 8 ,)' 25/620'656 2.,' =6 2' o620' .1;5,',1' 20;>*' 1;-,',1'/*6+*' -62>*' D;',)/ 12' /6,,*-' -*?6 2*0' 6,') .' =17,' ;2, /') .' 0*6,)' 2' S % 1;-,'8-1,*' # ' ' V' 1 '4*2*+6' 4 'N' +1/.% 7K?1' /6 . ' Q R' N' +1/.%T ' 1 ' ' % 1' 5 % ' ' ' ' ' ,' N6 4 ' 1& ' ' !' ' = ' ' ' # 'M //* -% 4*2)+*' ' NXT' ' J '% ' ' ' ' ' ' ' ' @ 'M S X'*,>% &*..'5+*.'62'6>>1;2,'1'2;?*-C -1;.'<% 8-,25.'1' 1;-,'M=-*.*-+*0' 2',)*' 4*2*+6' / D-6- X' 2') .'# ' '5 1' 'KQQ'M.**' 6-6 C .6-0.X% **' 6/.1' 1_;*-*/'# ' 'N6 ' ' 9 .' * -6,'# 1' ' .' : 665' ' @ ' !'M 6-.' Q XT' ; ' ' '$ ' 'N# !' ' !'@ !:' ' 6 12.' # ' ' ' '@ =' ' 'N6(!1' 'N N NT' : *-[15'5 26 " %! ! !

1 ;-,*. % - *2,6/.' 6-*' ? ;>)' ?1-*' .,;0 1;.' 1' =1/ ,*2*..' 2' - -0' 620' 6>,',)62' ;-1=*62.' M *D;)-' ; + !'=% RT' -+ *;L' 'Q X% 1' 8*-*' ;201;D,*0^ / ',)*' 62> *2,' : *D-*8.% 2 *- 1-.' 2' 62' 2,*-+ *8' 8 ,)' .;=*- 1-.'MD1,)'12' ?**, 25'620' .*=6-6, 25'K' 6?% L+ A ' X' 8*-*' 812,' ,1' D18' - % # T .**' 6.,2*-' ' ' ' $!'$!' =.% N X' /18' M4*2' L L ' T' LL ' T' K' 6?% L ' T' L+ ' K X' 2' =-1=1-, 12',1',)*' -629',186-0.',)*' *6-,)'M*+*2'-*=*6,^ *0/ ' 4*2% LLL ' NT' ' 6-6' LL ' X% 2',)*' ,) -0' =*-.12' 620' ., /*0') ?^ *2>*' 1 '=- 2>*.') 5)' > + / 1 >*-.' *.,>% '=*-.12.',)-*8' ,)*?.*/+*.' =-1.,-6,*' M6,',)*-' **,X' ;=12',)*' 5-1;20' M-,. 2L' 7 d' 2 2- - / ' 4*2% L// ' T' -B ' P ' 1-' ' 6?% LL+' KNT' K' 6?% L + ' T' ' 25. L+ ' T' >1?=% B;0,)' L ' K T' %4*2% L/ + T' QT' K' 6?' ' KT' 6/.1' . ?=/ ' K' 6?% L L ' RT' >1?=% <6,,' ' T' : *-10' ' N T' 'Q T' .** : 0*' 5 !' ' ' =% ' ._ %T' : 6-?*-' ' NR' ._ %T' E7=*' ,"' f' ' ' T' ;==*//'& f' 'K T' 'R X% ()*' 6/.1' D*),',)*' 92**' MK' 25.' ' g' >1?=% <6,,' LL+ ' KRT' >,.' L IK X% '1,)*-'5*.,;-*.' 8)>)' 2' ,)*' ?10*?' 6.,'6-*'>;.,12 6- 'M: 6-?*-' 'N T')68' - !' =% K T' *D;)-' - !' 'KNKX' *% 5% /6 25',)*)620' 12',)*' D-*6.,',)*-*' .'21',-6>*' 2',)*%) >% ' 62' 2 *- 1-' ?1;2,*0' 12' 6' D*6.,'?*,'6'.;=*- 1-')*' _; >9^ / ' 6/ 5),*0' M -21D' + ' NT' .**' -*// ' 60' /1>%X' 620' ?60*' ,)*' 0;*' 1D* .62>*' M4*2% LL + ' S T' 6?% LL+ ' KNT' .**' *D;)-' ; + !' =% ' T' - !' ' NRX% & I)*,)*-' 2' .;>)' >6.*.' 62' 20 + 0;6/ ,;-2*0' 1;',1',)*' -160' / 9*' ,)*' 62> *2,' 5 =, 62.' M: *-10' ' Q X' 620' <10*-2' -6D 62.' M *D;)-' ; + !' =% X' .' ;2>*-^ ,6 2' D;,%=-1D6D/*% 2',)*' 5-**, 25' D '6' 9 ..' 8) >)')18*+*-' 01*.' 21,' 6==*6-',1')6+*' D**2' .1' ;.,6/ 1-' +6- *0' 6.' 6?125',)*' ?10*-2' - *2,6/.' M.**' :*-10' ' N T' : 6-?*-' ' NS' ._ %T' ;->9)6-0,' & !' =% KKRX' .**' ..% . 25' -1?' 6' .,,25' =1.,;-*' D* 1-** =*-^ .12.' *2, ,/*0',1'-*.=*>,' .;>)' 6.' */0*-.' 86.' *6-/ ';2 ^ +*-.6/ M *+% L ' NKT' B1D' LL L ' T' >1?=% 1-=) -% & !' 'S X% **' > !' 1-?.' 1' .6/;,6, 12' 12' ?**, 25'1-' *2,-62>*' >12. .,*0'1'6'= 1;.' *L=-*.. 12' 8*//C8 .) 25' M4*2% L/ 'KRT' 6?% LL+' T' B;05% + ' KT' K' 6?% LL ' RT' .6% >LL L ' T' .**' : 6-?*-' ' KX' 620' 2_; - *.' >12>*-2 25',)*')*6/,)' 1',)*' 6? / ' MK' 25.' +' KST')*2>*' 7 /7b,1' ' L10% L+ ' T' B;05I' L+ ' T' ' 6?' L ' T' >1?=% 4*.*2 ;.' -" ' # !'=%O N X% 2*' 1',)*' . ?=/*.,' 1-?;/.*' 86.' B*)1+6)' D*' 8 ,)',)**TJ',1' 8) >/' 86.' -*=/ *0' ()*' 1-0' D/*..',) ** M ; ,)' ' X% ?125',)*' /6,*-'B*8.' ,)*' =)-6.*' <6' ,' 51' &*// 8 ,)',)** J' 86. 5*2*-6/ M 5), 11,' =% KX' ,)',)*' ?10*-2' -6D.' ,)*' *L=-*.. 12' 1' .6/;,6, 12' $ ' " 1' ' *6>*' D*' ;=12' 1; J' 620',)*' -*=/ '& " ' =$ ' ' 2' 1;' D*' =*6>* J' 6-*' >;.,1?6- 'M *D;)-' ; + !' =% Q' ._%T ! &*/.,*0' - !' K KX% %()*' : *D% *_; +6/*2,' (AD *6>*',1',)** J' 01*.' 21,' 6==*6-' 2',)*' C (% MB;05% L L 'K T' ')-12% L ' QX' 6.' 6' >12.,62,' 1-?' 1' .6/;,6, 12' M *,'>1?=% ;9*' LL +' NST' B1)2' LL 'K4T' 6/.1' (1D ,'+' KT' 620' >1?=' 12',) .' ;-?62.'6 % ! ' f' 6L' N (1' -> ,'6% <% RRX% ()*' ;2 >'5-**, 25'86.' -1' M7 :X' ' 'M ! 7 ' /:X' 6>>1-0 25',1' /6;,;.'> !' +' K N NQT' >1?=% & " ' ?.!' 'K T' *=7B-% X' *-.12.' 8*-*' 6/.1' .*2,' 12',)* -' 86 '8 ,)' 6'. ? /6-' 1-? ;/6' M(1D% +' KNX% ;' D*. 0*.'.;>)'.*,'-?.' 20 + 0;6/.' ?**, 25'12*' 621,)*-' ?60*' ;.*' 1 '+*-D1.*' ?*,)10.' 1 ' 2_; - 25' 6 ,*-' *6>)' 1,)*-.' > ->;?.,62>*.' M6.' 6==*6-.' -1?',)*' =-1) D, 12' 2' K 25.' +' KRT' ;9*' L ' T' .**' *D;)-' ; + !' =% RT' -+ *;L' ' SKT' ;..*/' &2%% 1' 'KKRT' B6;D*-,' =% T' ==*//'& !' 'K NX% **' $ f' &)*,)*-',)*' 8*//C9218 2' >;.,1?' 6?125',)*' 4-**9.' 620' 1?62.' M: 1?*-' , !' L+ ' T' / 2 ' LL+ ' T' *,-12% RQX' 1' 8 .) 25' 8*//' ,1' 12*' 8)1' .2**[*0' M8) >)' 86.' -*56-0*0' 6.' 1? 21;.' ;.,6,)% ', L+ ' T' >*-1' ' ' T' / 2 ' ' T' d*21=)% & ' 'K' RT' -1=*-% ' K' N T' ;5;.,2*' T' " ! ' K T' >1?=% =;/6 I V*ZG6P% R' =% K R' *0% =% T : 6-0; 2' ' !' LL+ ' T' .**' & *-2.01- ' ' ' ' (" ' '% 1' =.% T')62' ' ' ' " ' ' %% W (5;-% KX' =-*+6 /^ *0' 6/.1' 6?125',)*' -6*' .*.' ;2>*-.6 2T',)*' /6,*-' B*8.' 1D.*-+*0' ,'620',)*' 6DD 2.' ?6 2,6 2',)6,',86.' 62' 62> *2,';.65*' M ;L,1- '$ '=% KRX% 2' >12+*-.6, 12' M_% +% X' ,)*' /*.' ?=1-,62,' =*-.12' .=19*' 1') ?.*/' 2',)*',) -0' =*-.12' 620' ., /*0') ?^ .*/',)*' 1,)*-.' .*-+62,' M4*2% L+ 'NT' L L 'KT' LLL ' T' L/ 'KQT' B;05% L L ' RX' 620',)*' 1,)*-' ?6.,*-' M4*2' LL +' QTF ' 6?% LL+ ' Q' *,>% X% 1?*, ?*.')*' 6=^ =/ *0' D '86 '1 ' ;-,)*-' 6D6.*?*2,' *= ,)*,.' M*% 5% 015X' 1' 0 .=6-65*?*2,' ,1') ?.*/' MK' 6?% L' T' K' 25.' + ' NT' >1?=% *0?622' $!' +' K' ._ X% ()*' ;.;6/, ,/*'1 '-*.=*>,'86.' < '/1-0J' M/6,*-' 7 I X7XT 1,)*-' -*.=*>, ;/ ,*-?.' %8*-*' 6/.1' d' < ' 6,)*-J' M*.=*> 6// ',1'=-1=)*,.' K' 25.' +' NT' + ' K T' L ' T' >1?=',)*' 1?62.,', ,/*' 6,)*-J' 1-' =- *.,XT' 12',)*' /6,*-' 26?*' < ?6.,7-' J'.** ! ()*' /6,*-' B*8.' .**?',1')6+*' ;,,*-/ '*L>/;0*0' 2',)*-' D 51,-' ,)*')*6,)*2' -1?'6//' .6/;,6, 12' M<6,,' +' 'HX' 6.' 218%

2' - 6' 620' 5 =, ' < 1)6? ?*062.' 620')- ., 62.')6-0/ '0* 52',1'5-**,'*6>)' 1,)*-'M : 6-? *- ' PN X% ()*' =;D/ >' .*2, ? *2,' 1 ',)1.*', ?*.' 6/.1'-*/*6.*0')1/ '=*-^ .12.' M.6 2,.X' -1?' ,)*' 1D/ 56, 12' 1 '-*, ; -2 25' >1?=/ ^ ?*2,6- ' .6/ ; ,6, 12.' M 5), 11, ' =' Q X' 8) >)')18^ *+*-',)* '*65*-/ '>/6 ?*0'M < 6-9'L 'NQT' ;9*' L ' N' dd' SX% ()*' "' 6 0*' 86.' -*56-0*0' ,)*' =/6>*' 1 ')121-' 2' .,620 25'1-'. ., 25'D ',)*' : *D-*8.' -1?' *6-/ ' , ?*.' M ' 25.' ' RT' .6% L/+' T' < 6,,' LL+ ' NNT' >1?=% ;*,12% B *-%' Q ' .** 1;5,6*' & ' ' SR' ._ %T & *,*,* 2 ' ' S' KT' 2 59' ' ' '+ =' f =.% X% '-*+*-*2>*' 620')1?65*' ,1^ 86-0' ?126->). ' 5*2*-6/. ' *,>%' >12. .,7' 2' .)1;,.' M6?125'1,)*-. ',)*' >- '); [[6' ' 125'/ +* ,)*'9 25G I 6-)*D-% " f=% X1'6>>/6?6, 12'MB1^ .*=);.'& f'L' ' T' '+ ' 'KT' ? ? 62% <6->' LL ' T') /1' ' KKX' 8 ,)' ?;. >' MK' 6?% L+ ' ST' ' 25.' 'NR' T' K' 25.' L' NT' B;0 ,)' ' T' >1?=% : *-10 62' +' ' RXT' 6/.1' 2' .,-*8 25' >6-=*,.' 1-' 56-^ ?*2,.'6/125',)*'-160'M>1?=%V .>) /% & 'R RT' /;C ,6->)' ' f'>% KT' (6/?;0' " " "' 1/% L+ 'KT' 6.',, //' .'=-6>, .*0' 2' 6/*., 2*' 1D 2.12 7 'NQNX'8 ,)' D-62>)*.'M.**$51/ 2'-" f'LLLX'1-' /_8*-.'MK' 25.' L' NT' < 6,,' LL ' T' >1?=% ;-, ; .' +' 'K T' L' ' K T' : *-10' + ' T' 7/ 62' N !'# ' L' RTI' (6> ,; .' # ' ' T' : *-10 62' ' ' T' +' Q RT' .**' 1;5, *' &' f 'NRT' 6;/.*2' ' ' f'=%KKR'._%X' 620' 2' ,1->)/ 5),'*2,-62>*.' 6,'2 5),'MK' <6>>% +' KKX% *., +*' *.>1-,.' 2' =-1>*.. 12' M8 ,)' ,)*' =- *.,.' 6,',)*')*60X' 8*-*' 6/.1' 21,' ; 2; .; 6/ MB1.*=);.' & !' L ' ' T' L+ ' K T' .**' >)? *0*-' N ' 2!' ' ' %1 4!' % ' - 5% QKNX% ' & 2*-' 'S % **' 6/.1' & g f o

1 ; . 2' .' 5 +*2' M ;9*' 'NS QX' D ',)*' ;.)% *-.% 2' ,.' +65 ;*' 6>>*=,6, 12' 6.',)*' -*20*- 25'1 ' ' 6' D/110C-*/6, +*' 1-' + ^ 6.' */.*8)*-*' ,-62.^ /6,*0% 1' 6/.1' 2' ,)*' =1>- =)6' M ' c.0-% ' T' +' KT' (1D% + ' T' K' <6>>% L ' 'N X%

1 ; . 2 '62'*? 2*2,' =) /1.1=)*-'620' 8- ,^ *-' 86.' D1?' 2' 6- .' 1+*?D&' KQ RK' 620' 86.' *0^ ;>6,*0' 6,',)*' > *')6-/*?652*' 8)*-*' 6,' . L,**2')*' 56 2*0' ,)*' 5-620' =- [*' 1')121-% 112' 6 ,*-')*' 86.' 60? ,,*0' 2,1' ,)*' a ' 7 ' 8)*-*')*' D*^ >6?*' %# '1-'=- +6,*',*6>)*-' 1' 4-**9'/ ,*-6, ; -*' 620' 6 ,*-86-0.' =-1 *..1-' 1' =) /1.1=) % ' 2' Q ')*' 6,,*20*0',)*' /*>, ; -*-.' 1' 6-1? 5; 7-*' M_% +%X' 8)1.*' ,)*1- ' 86.' 6' ? L, ; -*' 1' 120 //6>' 620' *.>6-,*.' 1' .*2.6, 12' 620' .= - , ; 6/ .?' 620' 8)1' ?60*' ,') .' ? .^ . 12', (*>12> /*',)*', 81'. .,*?.% 1; . 2' 86.' 6,' -.' 6.> 26,*0' D ',) .' ,)*1- ' 620' .,// ?1-*' D ',)*' */*C 3562,'=)-6.*1/15 '620' /;> 0' *L=1. , 12' 1 ',)*' /*>, ; -*-% ,' 86.' +*- '=-1D6D/ '6,',)*' .6?*'=*- 10',)6,') .' 5-*6, 0*6' -.,' =-*.*2,*0' ,.*/' ,1') .' ? 20' ',)6,' *6>)' . .^ ,*?' .' ,-;*') ; ,' 2>1?=/*,*' 620',)6,' D ' >1//*>, 25' 6//*,)*' . .,*?.',15*,)*-' 6' >1?=/*,*' =) /1.1=) ' 81; /0' D*' 1D,6 2*0% 2' Q N 620' Q ')*' 6,,*20*0',)*' >1; -.*.' 1 ' =) /1.1=) >6/ /*>, ; -*.' 0*/ +*-*0' 6,',)*' 6>; /, ' 0*.' *,,-*.' D ' 1 *-C 1//6-0' 8)1.*'*6-2*.,' ? 20')60' /125' 0 .,-;.,*0',)6,'.>)11/ 1' .*2.6, 12' 8)>)' 1>9*' 620' 120 //6>')60' *.,6D/ .)*0' 2' ,)*' Q,)' >*2,; - ' 620' 8)1')60' .1; 5),' -* ; 5*' -1?' ,)*.*' 01; D,.' 2' ,)*' 01>^ ,- 2*.' 1' ,)*' >1,>)' . .,*?% ( ) .' 01>,- 2*' 8)>)' 2^ . .,*0',)6,',)*-*' 8*-*' 21, 12.' 2',)*' ? 20',1,6// ' 2^ 0*=*20*2,' 1' ,)*' .*2.*.' 86.' 6-0*2,/ ' *?D-6>*0' D ' 1; . 2' 8)1' D*>6?*' /*>, ; -*-' 6,',)*' 6>; /, 0' 0*.' *,^ ,-*.' 620' D*562') .' 6?1; .' >1; -.*' 1' ,)*' : .,1- ' 1') /1.1=) ' *>*?D*-' ' Q % : 6+ 25' /*6-2*0',1' 01; D,' -1?' 1 *-C 1//6-0')*' -*.1/+*0',1' *L6? 2*' 2' ,; -2' 6//,)*' 5-*6,'=) /1.1=)*-. ' D1,)' 62> *2,' 620' ?10^ *?' D* 1-*')*' 1-?*0') .' 1= 2 12.% : *' D*>6?*' 6' ; 2 ^ +*-.6/ 2' ; -*-% : *' =-1 *..*0',1'A; 05*' 8,)1; ,'=-*A; ^ 0 >*' *6>)')*=) /1.1=)*-' 620' 2' *6>)')*' D*/ *+*0')*')60' 1_20' 6' .,*?' 620' 2' *6>)' . .,*?' 6' -65?*2,' 1' ,-; ,)% .' 6.,' 6.')*' =-1>**0*0' 2' ,) .' 2_; - ')*' >1?? ; 2 >6,*0' 8)6,')*')60' 1; 20',1',)*' =; D/ >' .1?*^ , ?*.' 2' /*>, ; -*. ' 6,' 1,)*-', ?*.' 2' D11,.% (1' *26D/*) .' =; =/.' ,1' A; 05*' 1-',)*?.*/+*. ')*' =; D/ .)*0',)*' 81-9.' 1' /6,1',)*' 2*0 70' 81-9.' 1' -1>/; . ' 620' 62' *0 , 12' 1' *.>6-,*. ',)1; 5)',)*' 8)1/*' 0 0' 21,' 6==*6-' , /h' 6 ,*-') .' 0 .?D. 12% : .' ,-62./6, 12' 1' /6,1' 2' N' +1/.% 81; /0' =-*.*-+*' D .' 26?*')60')*' 12*' 21,)^ 25' */.*J' I6 "' % / 8! ()*' 51+*-2?*2,' 0 .? ..*0') ?' -1?',)*' 6>; /, ' 1' *,,*-.' 2' QK' 620' 2' QK')*' 8*2,' ,1' 4*-?62' 6.' , ; ,1-' ,1',)*' 1; 25' ; 9*' 1' < 12,*D*//1% ' ; - 25') .' =-15-*.. ,)*' -6 9' 1= 2 12.')*' *L=-*..*0' *L> ,*0',)*' .,=> 12' 1',)*' -; .. 62' 6; ,)1- , *.' 8)1' >6; .*0',)?',1' D*' 6-^ -*.,*0' 620' >12+* *0',1' *-/ 2' 8)*-*')*' 86.',)-182' 2,1'=- .12' 6.' 62' 65 ,6,1-% : *'-*?6 2*0' 2' >/1.*' 12^ 2*?*2,' 1-' .L' ?12.),% , -') .' -*, ; -2')*' =; D^ / .)*0' 2' QKS') .' >*/*D-6,*0' @ ' M %+ 4 ' 8 ,)' 6' -*?6-96D/*' =-* 6>*' 8)>)' .' .., //' >12. 0*-*0' ,)*' D*.' .; ?? 6-' 1') .' =6-, >; /6-' 01>,- 2*% I 2' QKQ')*' -*>1?? *2>*0' /*>, ; -*.' 12') /1.1=) ' 6,' ,)1' 6>; /, '0*.' *,,-*.% : .' 1-?*-'/*>, ; -*.') 60' >12. .,^ *0' =- 2> =6// ' 1',)*') .,1- ' 1' 0*6/ .-; ,) ' 6.' ,') 60' D**2' *L=/6 2*0' D ' ,)*' 5-*6,' ,) 29*-.' 8)1')60' =-*^ >*0*0') ?% ; ,',) .', ?*') .' 182',)*1- ' 86.' *L) D^ ,*0' ()*' -.,' .*- *.' 86.' =; D/ .)*0' 2' QKQ' 2D0*-' ,)*', ,/*' 1' ' (# ' ' ' " %" .' ,)*' .*>^ 120' 2' QKR' 6.' ' ' " %" f 112' 6 ,*-',)*' 6>>*.. 12' 1' 1; .') / ==*' 2,-10 ; >*0') .' - *20.' 4 ; ^ [1,'620' *' -15/*',1'=18*-% : *' 218' D*>6?*' 6' >1; 2^ > //1-'1' .,6,*' 6' ?*?D*-' 1',)*' 16-0' 1' ; D/ >' 0 ; ^ >6, 12' 62' 1 >*-' 1',)*' *5 12' 1' : 121-' 620' 6' =**-' 1' -62>*' 2' _; >9' .; >>*.. 12% 2' QN')*' 86.' >1?^ ? .. 12*0' D',)*' ? 2 .,-',1' =-1>**0',1' 4*-?62' ',1' *L6? 2*',)*' .,6,*' 1' *0 ; >6, 12' 2',)6,' >1; 2,- % ()*' -*. ; /,.' 8*-*' 5 +*2',1',)*' 81-/0' 2' QNK' 5 1 ' ' N ' 'N % " 4 ' '4 4 % 1' 'N&' 2' ' M,-62./6,*0' D ' <-.' ; ., 2' 620' =; D/ .)*0' 2' 12012' 2' QN % : *' .; >>**0*0' 1; -*-' 2',)*' >60^ *? '620' 0*/ +*-*0') .' 2 '1-'-*>*=, 12' 600-*..' <6' QN % : *' */01?' .=19*' 2',)*')6?D*-1' * *-. 620' 8)*2',)*' 0 0',' 86.' 6/?1.', 2+6- 6D/ '12',)*' .; D^ A*>, '1' 6, 126/ 2.,-; >, 12% 2' < 6->)' Q ' 1; ^ .2' *2,*-*0',)*' / D*-6/ >6D 2*,' 1' ( ) *-.' 6.' ? 2 .,*-' 1' ; D/ >' 2.,-; >, 12% : *' 2,-10 ; >*0' 6' 2; ?D*-' 1' -* 1-?.' 0; - 25') .' 60? 2 .,-6, 12' 8)>)' /6.,*0' * 5),' ?12,). ' 620' 1' 8)>)') ,)*' =; D/ .)*0') ?.*/' 6' -*+ *8' 2',)*' 5 ' ' ' ' 2' Q % 2' Q Q' <% 1; . 2' .**?*0' >1-0 D// ',1' 6>>*=,',)*' 2,-10 ; >, 12' 1',)*' -*=; D/ >' 620' 8)*2' 4*2*-6/ 6+6 526>' 6==*6/*0' ,1',)*' >60*? '1' < 1-6/ 620' 1/ , >6/ > *2>*.',1' 6 0' ,)*' 51+*-2?*2,' 2',)*' *2/ 5),*2?*2,' 1',)*' =*1=/*' 1; . 2' =; D/ .)*0' 8 ,)' 6' -*=; D/ >62' =-* 6>*' 6' =1=; /6-' KO' N +1/.% +1' NO' '+1/.% +1' ' N ' ' ; ' M Q N' +1' 6' -*=; D/ >6, 12' 1')./*>, ; -*.' 0*/ +^ *-*0' D*, 8**2' Q ' 620' QK XT' ' ' " %" ' ' +1/.% Q C % >1//*>, *0' *0 , 12' 1')./ =- 2> =6/ 81-9.' M; =', 1' Q SX' 2' KK' +1/.% Q?1' 86.' =; D/ .)*0' 2' Q SC % -1?' Q N', 1' QS')*' =; D/ .)*0' 6' .*- *.' 1' 81-9.' D2' >*/*D-6, *0' / .*-6- ' 81?*2' 1',)*' ,)' >*2, ; - ' 8)>)' 6-*' 62' ?=1-, 62, ' >12, - D ; , 12', 1',)*' .)-1.' 1',)6,', ?*' 620' 1; 20' 6' /6-5*' >-> ; 6, 12% ()*' .*- *.' >1?=- .*.' D 4 ' 620' ! ' ' M Q NX' ! ' $ ' M Q X' ! ' ' " ' ' ! ' # ' M Q SXT' '$ 1 '@ 4 ' 'ON '$ 'M Q Q K' +1/.% 'D Y ' ! ' ' M QS ' ,)' *0 ,%XT' 'D ' ' / ' M QS X% 2' 7N')*' =; D/ .)*0' # ' ? " ' ' ' " %" ' % g ' 2 % ' % '* 4 1 ' ON ' N ' M QSNX' D* 25' 6' -*+ .*0' *0 , 12' 1')./ # ' " ' (* '%" %" ! 1; . 2' 86.' 6/.1' 6

NLL

+-',1'D*'21'2*>*.. , ' 1-',)*' 2,-10;>, 12'1 '6'2*8' 81-0'>12+* 25'6'2*8' 0*6% ()*' *=,')6+ 25'-*2^ 0*-*0' M8) >)'2*+*-'?*62.' '1-' 1'D;, 6/86 .' '1-' (8D ' , *) #>12. .,*2,/ ' ,)-1;5)1;,',)*' %'(%',)*' %'(8-,*-.' 2'601=, 25' ,)6,' 81-0' ?6 ' 26,;-6// ' D*' .;==1.*0',1' 2,*20',1' >12+* ' ,1',)*' -' -*60*-.' ?1.,' 1',)*?' 6?/6-'8 ,)' ,)*' 4-**9' %'(%',)*' .6?*' 0*6% <1-*1+*-' 2',)*' ?6A1- , '1'>6.*.',)*' .6?*',) 25'8) >)')6.'D**2'>6//^ *0'6' '>1+*262,'' 2',)*' %'(' .'-* *--*0',1' 2 ,)*' %'(%M*%5%K 1-% ' T ':*D'+ ' LT *+%L ' RXT 8)/*' 2',)*' .6?*' >12,*L,',)*' .6?*' 81-0'620' ,) 25' 2',)*'4-**9'6-*' 2',)*' 25/.)'.1?*, ?*.'-*=^ -*.*2,*0'D ' >1+*262, J'620'.1?*, ?*.' D ' ,*.,6^ ?*2,J'M:*D%+ 'KKT + 'QC NT' L ' SX' 2',)*'>12^ *..*0/ ' 0 >;/,' =6..65*' :*D% L ' S' ',)*' 81-0' , *) #)6.'D**2',)1;5),'D ' ?62 '>1?*2,6,1-.'6D^ .1/;,*/ ',1'-*_;-*',)*%'?*62 25'1 ' 1-' !' 2',)*'1,)*-'.0*')18*+*-' ,'?6 'D*'6//*5*0',)6,' 2' 600,12',1'8)6,')6.'A;.,'D**2'.6 0'6.',1',)*' ;.;6/ ?*62 25'1',)*' 81-0' 2',)*' %'(%',)*' 81-0' 1>>;-.' ,;>>' 2',)*'>12,*L,'8)*-*' ,.'?*62 25'?;.,'2*>*..6^ -/'D*',)*'.6?*'6.',)*',-62./6, 12'1 ' 620' 2',)*' ;2_;*., 126D/*'.*2.*'1 ' 'M>1?=%$,*))*' *' :*D% L ' '8,)',)*'.6?*'*L=-*.. 12'2'+ 'QT' 620' ,()-6'L' S '8,)'+*-%K'620' L10%LL+'QX% ',.'.*2.*'1'a gG)H%D*'-*,6 2*0'8*'?6'*,)*-' -*20*-' '))% O'1'+*-'1-'2',)*'>6.*'1'0*60'.6>^ - >*.J'620'S ,+ ',)*'?*0 6,25'.6>- >*%' M>)1/* */0.'# ' ' % ' - ' '"'t O!'-!8'1-'M8,)' D-6-0'620'1,)*-.X'-*.,-->,',)*'.,6,*^ ?*2,'1'+*-% S,1',)*' %C(% 0*6'1'6'>1+*262,' ' ' ' ?' 2'8)>)'?62'6.'5;/, '?;.,'6/86 .'D*' -*=-*.*2,*0'D '6'.6>- >*' 8,)'8)>)')*'86.'.1'>1?^ =/*,*/ '0*2, *0',)6,' 2',.'=*-.12'))*'MS' ;+% 1' ,)g');?62'>1+*262,*-X'6>,;6// '0*0'M>1?=% <6,, ' LL+ 'KQX% **' 0 ' 1 % ' -" '&%% !' 2',.' D/>6/'?*62 25'1' 6'>1?=6>,'1-'65-**?*2,'D*,8**2',81'=6-,*.',D*'81-0' (*1>+*262,J'.';.*0' % ;;' ' '" * ' ' '\'%'d*6'.1/*?2'>1?=6>,'1-'65-**?*2,' * ,)*-'D*,8**2',-D*.'1-'26,12.'M' 6?% L ' T' B1.)' L'S' X'1-'D*,8**2' 20+0;6/.'M4*2% LL ' X'D' 8)>)'*6>)'=6-,'D1;20')?.*/',1' ;/ /*>*-,6 2'>12^ 0,12.'620'86.'6..;-*0'1'-*>* +25'>*-,6 2'60+62,6^ 5*.% 2'?69 25'.;>)'6'>1+*262,'410'86.'.1/*?2/' 2+19*0'6.'8,2*..'M4*2% LLL 'S X'8)*2>*',)*'*L^ =-*..12' 6'>1+*262,'1'B*)1+6)J' 7 6?%dd'QT'>1?=%B*-%LLL +'Q RT' [*9%L+ ' RX' 620'62'16,)'86.'.81-2'M4*2% LL 'N XT' 620'6>>1-0^ 25/ '6'D-*6>)'1'>1+*262,'86.'-*56-0*0'6.'6'+*- ')*21;.'.2'M [*9%L+ ' K%K X% '.52'M?LX'1-'8,^ 2*..'MI X1',)*'>1+*262,'86.'.1?*, ?*.'-6?*0'.;>)' 6.'6'5 ,'M4*2% LLA'N X'1-'6'=//6-'1-')*6=' 1'.,12*.' *-*>,*0'M4*2% LLL 'SKX% ()*' ?6-- 65*' >1?=6>,' >6//*0' ',)*'>1+*262,'1'410J' 1+% ' 'M.**' <6% ' X% ()*' 81-0'>1+*262,'>6?*',1'D*'6==/ *0',1'6',;-* 1-0 262>*' .;>)'6.',)6,'1',)*'.)*8%D-*60'M *+% LL +' QXT' 620' .';.*0' 5;-6, +*/' 2'.;>)'*L=-*.. 12.'6.'6' >1+*262,'8,)%0*6,)'M .6% LL+ 'QX% 1-'8,)',)*'8/0' D*6..,.'M:1.% ' QX% ()*'=)-6.*. '/1-0.'1-'?*2'1'12*.'>1+*262,J'6-*'*?=/1 *0',1'0*21,*'>12 *0*-6>'M4*2% L +' N' D% X% **' L ! K% % % 1' ' ' ' ' ? ' ' ' <62'21,'D* 25' 2'62'86' 2',)*'=1.,12'1'62' 20*^ =*20*2,' >1+*262, 25'=6-, ',)*'=)-6.*' .'*+ 0*2,/ ';.*0' D ' 86 ' 1' 6>>1?7106, 12% **' ' / 4' 1 : <% ,->,/' .=*69 25' .;>)'6' >1+*262,' ' _;',*' ;2>120 , 126/'620'6?1;2,.',1'6'=-1? .*'M46/% ' '.%')8)*-*' S E '620'$,*)*6-*' ;.*0'6/^ ?1.,'6.' 212 ?.X'1-'6>,'1'?*-*' 6+1-'M .6' LLL L' KQ'8)*-*' (k:'.,620.' 2'=6-6//*/.?'8,)' 12 410.'=6-,% ();.',)*'6..;-62>*'5+*2'D '410'6 ,*- ,)*' /110',)6,'6'/9*'A;05?*2,'.)1;/0'21,'D*'-*=*6,*0' 620',)6,',)*'-*>;--*2>*'1',)*'.*6.12.'620'1'06'620' 2 5),'.)1;/0'21,'>*6.*'.'>6//*0'6'_1+*262,'M4*2% L T B*-% LLL 'K X% 4*2*-6// ')18*+*-',)*Y1-?'1'6' >1+*262,'.'?6 2,6 2*0'D',)*'D*2* ,.'8)>)'410'*2^ 565*.',1'D*.,18'D* 25'?60*'D ')?'0*=*20*2,';=12' ,)*' /?*2,'1'>*-,6 2'>120 , 12.'8)>)')*'?=1.*.' 12'?62% ();.',)*'>1+*262,'8,)' D-6)6?'86.'>12^ 0,12*0'D'>->;?>.12'M >,.'+ 'QX',)*'1?..12'1' 8)>)'86.'0*>/6-*0',62,6?1;2,',1'6'D-*6>)'1',)*'>1+^ *262,'M4*2% L+ XT',)*'>1+*262,'1',)*'=-*..)110'D' [*6/1-'410') .')121-'620'.*-+>*'M ;?%LL+'/K NT' *;,% LLL 'RT' *)% L 'KRT' <6% ' 'SXT',)*'>1+^ *262,'1' 26'D',)*'1D.*-+62>*'1',)*',*2'>1?7620^ ?*2,.'M L10% LLL +'K 'KQT' *+% LL+ '*X%' 8)>)' 6-*',)*-* 1-*'>6//*0' B*)1+6) .'>1+*262,J M X*;,% + NX'6'26?*' 8)>)'86.'*L,*20*0',1'6//',)*'D119.'1' <1.*.' '21,',1',)*' 8)1/*' D10'1'B*8 .)'>6212>6/ >-=,;-*.'MK' 1-' 'N' X% ()'/6..C?*2, 12*0' >1+*262,'8)>)'86.'-*2*8*0'6,'0 *-*2,'=*-10.'1' B*8.)' .,1-'M *;,% LL LT B1.)% L+T K'MB)-12% L+' LL 'LL L'LLL +T [-6'L T *)% L'LX' .'12*1',)*' ,81'=-2>=6/>1+*262,.'D*,8**2'410'620'?62% ()*' 6-*'0.,25; .)*0'6.'1/0'620'2*8'MB*-%CLLL 'N CQ T' :*D% + 'QC NT' L' SX78,)'-*.*2>*',1',)*'1-0*-'21,' 1',)*-'2.,,;,12'D;,'1',)*-'6>,;6/0*+*/1=?*2,' M46/% ' XT'620'6/.1'6.'D*25',D*'2.,-;?*2..'-*^ .=*>,+*/'1'D12065*'620'-**01?'M46/% +'K X% 12^ . .,*2,/'8,)',)'.'-*=-*.*2,6,12'1'410.'0*6/25.' 8,)'?62';20*-',)*'1-?'1'6'>1+*262,'.;>)'>1+*262,' .'.6 0',1'D*'>12 -?*0'2'>12 1-?,'8,)',)';?62'>;.^ ,1?'D'62'=6,)'M *;,% +'N T .6% LLL L'NX',1'D*' .62>,12*0'D'>;-.*.',1'6//;=12',)*';2 6,);/M *;,% LL L'K X'620',1'D*'6>>1?=62 *0 D'6'.5 HM2 ZXP' .;>)'6.',)*'-6 2D18'M4*2% LX' >->;?>.12'M4*2% L+ X'1-',)*'6DD6,)'M L10% LLL ' S X% ' ?,)' .% :*2>*'2'7 >-=,;-*',)*'>1+*262,'1'410'.'>6//^ *0')'.'``>1;2.*/J')'.'16,)J')'.' '=-1?.*J M .6% LLL L'N' T'>+'QC T' :*D% +' NCK T ;9*'SQC T' 46/% ' C Q'*,>%XT'620',.'.0*.>*0'6.'>12..,25' 8)1// ' 2',)*'5-6>1;.'D*.,186/1'D/*.. 25'12'?*2' M.6% / L'K T B*-% LLL 'NN'N X% :*2>*'6/.1',D*'6=^ =/>6,12'1',)*',*-?'>1+*262,',1'0*.526,*.;>)' L*0' 6--625*?*2,.'1-/68.'1'26,;-*'6.',)*'-*5;/6-'.;>>*.^ .12'1'06'620'2 5),'MB*-% LLL 'K X'620'.;>)'-*^ /5 1;.'2.,;,12.'6.',)*' 6DD6,)'M L10% LLL ' SXT' >->;?>.12'M4*2% L+ 'R XT',)*' *+,>6/2.,,;,*' M *+% LL+ ' XT'620' 2'5*2*-6/'62 '=-*>*=,'1-'1-0^ 262>*'1'410'MB*-% LLL +' N X'6/'.;>)'6==1 2,^ ?*2,.' 1-? 25'=6-,'1',)6,'..,*?'1-'6--625*?*2,' 2'>122*>,12'8,)'8)>)',)*'D/*.. 25.'1'410.'5-6>*' 8*-*',1'D*'*2A1 *0% ',,1'.%+ (' <' 'M:7=' ().'=)-6.* .'.;==1.*0',1'0*21,*'6'% % ' 2',)*'.*6/^ 25'1-'-6, >6,12'1'8)>)'.6/,'86.';.*0% .'.6/,' 86.'600*0',1'0 *-*2,'9 20.'1'+620.'21,'12/',1' 5+*',)*'?'6'-*/.)'D;,',1'=-*.*-+*',)*'?'-12+'=;,-*^ 6>,12'620'0*>6 ',)D*>6?*',)*'*?D/*?'1' %9 '620'% f :*2>*'6I'>1+*262,'1'.6/,J' .52 *0'62' '>1+*262,'M ;?%L+ 'RT'7*+% ' NT' K')-12'T L 'X% *' f 1+*262,' 1/*?2' *65;*'620% ()*-*'8*-* .*+*-6/'>1+*262,.'0-682';=' 2' >1,/620')6+ 25'-*56-0' ,1',)*'?62,*262>*'1',)*' *1-?*0'1-' -*.D ,*- 62' -*/5 12' 2',)6,'>1;2,- % ()*'@ ' ' 86.' .;D.>-D*0'2' 0 2D;-5)' *>'N S ',)*'?6.'1'.52^ *-.'D* 25'9218 2'6.',)*' 125-*56, 12'620',)*'21D/, ' 620'/*60 25'.;D.>-D*-.I'6.'7*' 1-0.'1',)*' 125-*56^ ,12'M% ' ' ()*'=*,,12*0',)*'51+*-2?*2,'1-'/D^ *-,'1'81-.,)=% *25'?*,'8,)'0..?;/6,12'620' ,-*6>)*-'6'$ ' 2'86.'.52*0'6,' *-,)' <6'N ' R'8)*-*2',)*'.;D.>-D*-.'D1;20',)*?^ .*/+*.',1'?;,;6/6..,62>*'2'0*'*2.*'1',)*'-'-*/5 1;' -5),.% ()*'6==*6/'86.'?60*',1'6-?.'620',)*'6 0'1' _;**2' /[6D*,)'1' 25/620'86.'>6//*0'2',1'>1;2,*-^ 6>,')*' -*2>/',-11=.'2+,*0'D',)*' 6=6/=6-, % 2

,)*' 0*6,)' 1 ' ,)*' _ ;**2 ? 1,)*-' 2' S ' ,)*' -*2>)' ,-11=.' 8*-*' 8 ,)0-6 8 2 ' 620' 6-/ 6 ? *2, ' D* 25' /* ,' 6,' / D*-, ' 1-06 2*0' ,)*' -*.D ,*- 62' 6. ' ,)*' .,6D/ .)*0'); ->)' 1 ' >1,/620 2' SNQ ,)*' 7 ' 86.' .;D.>- D*0' 1+*-' 6// >1,/620' 8 ,)' 5-*6,' *2,);. ^ 6. ? // ( ) .' 86.' 21,' 12/ ' 6' -*=*, , 12'1 ,)*' 1-?*-' >1+*262,. ' D ; ,' >12,6 2*0' ? 1-*1+*-' 6' .1/*? 2' =-1,*.,' 656 2.,' =-*/6> -" '$ ' ' ' 86.' 6' >1 ? =6>,' *2^ ,*-*0' 2,1' 2' N D*,8***2' 25/620' 6=0' ,)/620' D 20 25' ,)*' ;2 ,*0' 9 2501 ? .' ,1' ? ; , ;6/ 6 0' 2' ,)*' *L^ , -=6, 12' 1 ' =1=*- ' 620' =-*/6> ' 620' ,)*' =-*.*-+6, 12' 1 ' ,-;*' -*/ 5 12' 620' / D*-, ' 2' ,)*' -*6/?' ,' 86.' 0-68 2' ;=' D ' /*L620*-' : *20*-.12 ' 6==-1+*0' D ' ,)*' 4*2*-6/ ..*?D/ ' 1 ' ,)*'); ->)' 1 ' >1,/620' %;5' -6,)*0' D ' ,)*' 12+*2, 12' 1 ' .,6,*. ' 620' 6>>*=,*0' 620' .;D.>- D*0' *=,' K ' D ' ,)*' 25/ .)' 6-/ 6 ? *2, ' 620' ,)*' & *., ? 2.,*-' ..*?D/ ' M +%X' 2' S ' ' 86.' 656 2' -6, *0' D ' ,)*' >1,, .)' 4*2*-6/ ..*?D/ ' ,15*,)*-' 8 ,)' ,)*' -*>,1- ' 1-' & 1-.) =' -6 ? *0' D ' ,)*' & *., ? 2.,*-' .*?D/ 7' /,)1;5)')6-/*.' ' 81;/0' 21,' 6==-1+*' 1 ' ,')6-/*.' ' *2565*0' D ' 16,)' ,1' 1D.*-+*' ,' 6' =-1 ? .*' 8) >)')*' D-19*' ;=12' ,)*' -.,' 1==1-.,;2 , ' ( )*' >1,, .)' 6-/ 6 ? *2,' 1 ' SS ' 2',)*' 2,*-*.,' 1 ',)*' 9 25 ' *.,6D/ .)*0' ,)*' -1 6/ .;=-*?6> ' 622;//*0' ,)*' 1/*?2' *65;*' 620' 1+*262,' 620' 6D^ .1/+*0' ,)*' / *5*.' -1?' ,.' 1/X/ 56, 12.' ( )*' ' 1+*^ 262,.J')6+*' 6' =/6>*' 2' ,)*' +1/; ?*' 8) >)' >1?=-*)*20.' ,)*' ' * ' '@ "' M >1,,.)' *0 , 12X' D ;,' 1-' 8)6,'-*6.12' ,' .'0 >;/,',1'.6 ' 1-',)*') ;->)' 1 ' >1,/620' 01*.' 21,' ?69*' 60)*-*2>*',1',)*?' 1D/ 56^ ,1-'12' >,)*-'>/*->6/ 1-'/6 ' ?*?D*-.' *-,6 2' >1,^ , .)' 620' - .)' 0 ..*2,*-.')18*+*-' ., //*=-1 *..' 6,,6>)^ ?*2,' ,17)*' >1+*262,.' 620' 12' =6-, >;/6-' 1>>6. 12. ' -*2*8',)* -' ;D.>- =, 12',1',)*?% ' : *,)*- 25,12 ' # ' " "' '$.' 9/> - *' $+ " ' ' "!' # !.' ;0/1 '? " + ' '1 ' '$ " 2 'M *-^ / 2 ' Q N' K' +1/6X' **' 'g + # L ' 'g ' ' $ '' ! 1+*262,. ' ( )*1/15 '1 ' **' '0 ' L #! 1+*262,.*-. ' ,)*' 26?*' 5 +*2' =- ?6- / ',1',)6,' D10 '1 ' -*.D ,*- 62.' 2' >1,/620' 8)1' 1DA*>,*0',1',)*' *+1/;, 12' .*,,/*?*2,' 2');->)' 620' ,6,*' 620' 0*. -*0' ,1' .**' 2' ;// 1->*',)6,'9 20' 1 '> + /' 620' *>>/*. 6., >6/ =1/ , ' ,)6,' =-*+6 /*0' 2' >1,/620' -1?' SNQ',1' S R >>1-0 25',1',)*' 1/*?2' *65;*' 620' 1+*262,' -6,^ *0' D ' ,)*' 6-/ 6?*2,.' 1 ' 25/620' 620' >1,/620' 620' 6/.1' D ' ,)*' ..*?D/ ' 1 ' + 2*.' 6,' & *.,? 2.,*-' 2' S N' -*.D ,*- 62 .?' 86.' ,1' D*' ?6 2,6 2*0' 2' ,)*' 9 2501?.' 1 ' 25/620 ' >1,/620' 620' -*/620' 620' =1=C' 1' =-*/6> ' .;=*-., 12 ')*-*. ' .>) .?' *,>%' 8*-*',1' D*' *L, -=6-,*0%' ()*' ` 1+*262,*-.' 2' >1,/620' >12^ ,*20*0' 6.' .' 8*// 92182' ;20*-' ?;>)' .;*- 25' 1-' ,) .' .=*>.*.' 1 ' -*.D ,*- 62' .;=-*?6> ',)-1;5)1;',)*' -* 52.' 1 ')6-/*.' ' 620' B6?*.' ' M X%' .' 6' ?*6.C' ;-*' 1 '=6> >6, 12' 6,',)*' *+1/;, 12' -*.D ,*- ' 86.' *.,6D/ .)*0' 2' >1,/620' D '6>,'1 ' 6-/ 6?*2,' SR T D ;,' 86.' 1 '6' ?10 *0' 9 20% ;D.,62, 6// ',)*');->)' 86.' -*20*-*0' 6' >-*6,;-*' 1 ',)*' ,6,*' ?1-*' =6-, >;/6-^ / '6.' -*56-0.',)*' >6// 25' 1 '4*2*-6/ ..*?D/ *.T 620' =-*/6> ' 86.' 21,' 2/ ' >12 -?*0' 2' 25/620' 620' -*^ /620' D ;,',)*-*' 86.' 6' 5*2*-6/ ,1/*-6, 12' 1 ')*-*. C ' % *0 ..*2,% 2' .*2, ?*2,' ' 21,' 2' 1-?',)*-* 1-*' ,) .' =6-, ' -*=;0 6,*0',)*' 51+*-2?*2,' 1 ' & // 6?' ' 620') .' .;>>*..1-.' 620',, // ?6 2,6 2*0',)*' =*-=*,;6// ' D 20 25' 1D/ 56, 12.' 1 ',)*' 1+*262,.% ()*' 1+*262,^ *-.' 6>,*0' ;20*-' .,-125' >12+ >, 12.' 620' 12/ ' 0*. -*0' ,1' >6-- '1 ;',' ,1' 6' /*5 , ?6,*' ...;*'=- 2> =/*.' 8) >)')6+* 6/86 .' D*** 2' 1;20' 2',)*' -*.D ,*- 62');->)' 1 ' >1,^ /620' 1 D ;,' 8) >)' 1-' C=-;0*2, 6/ >12. 0*-6, 12.')60' D**2' /125' =-6>, >6// ' 2' 6D* 62>*% 2' .)1-,' ,' .' 2' ,)*' ..,6206-0.' 1 ',)*' 1+*262,*-.',)6,' 8*')6+*',1' /119' 1-' 6',-;*' *?D10 ?*2,' 1 ',)*',*2*,.')*/>% D ',)*' 5-*6,' D10 '1 ' 25/ .)' 620' >1,>)' -*.D ,*- 62.' 1 ' S N% ,)*-.' 56+*' 2',1',)*' *+1/;, 12' .*,,/*?*2,' 620' 6 ,*-C % ' <' <' I 86-0.' 1;20' >6;.*',1' .*>*0*% ()*' 1+*262,*-.' 2*+*-' 56+*' 2' 620' 1 '>1;-.*' 2*+*-'.*>*0*0% /,)1;5)',);.' 2' =1 2,' 1 % 6>,' 62' */0*-' . .,*-' 1 ',)*' *L ., 25');->)' 1 ' >1,/620' 620' 6// ,.' .*>*.. 12.',)*' 6-6*-12 62' D10 ' 0 0' 21,'6. .;?*'6'-*5;/6-' 1-?' ,//6 ,*-',)*' *+1/;, 1=' 620' ,' 86.' 8 ,)' .1?*'0 >;/, '6?2*-6/ >12^ ,*2,?*2,' 1 ',)*' 26, 12' ,)6,' ,'1-562 [*0' 6' >1?? ;2 12' 8 ,)' 1-06 2*0' ? 2 .,*-.% ()*' .,*60 6.,2*..' 1 ' ?*? 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D*-.' 1 ',)*' D10 '620' 1 '5 + 25' 6' =;D/ >',*., ?12 '1 ',)*-' =- 2> =/*.' ,' 86.' -*.1/+*0',1' -*2*8',)*' 1+*262,.' 620',) .' .1/*?2, ',119' =/6>*' 6,' ;C' >)*2.6>)' 2*6-' 1;5/6.' 2' 626-9.)-*' 2' K ()*' .;D.*_;*2,' 6>>*.. 12' 1 ',)*' * % <-% 6 -2*' *26D/*0' ,)*' 1+*262,*-.',1' >12.,,;,*' 6' =-*.D ,*- ' 6,' -6*C' :*60' 2',)*' =6- .)' 1 ' 6-2 8 6,, '12%',)*' .,' 1 ' ;5;.,' N' ;20*-',)*' 6==*//6, 12' 1 ',)*' * 1-?*0' -*.D C7' ,*- % ,)*-'=-*6>)*-.'6 ,*-86-0.'6,,6>)*0',)*?.*/+*.' ,1',)*' .*>,' 8) >)' >12, 2;*0',1' /1;-.)' 1D.>;-*/ ' 2',)*' 8*.,' 1 ' >1,/620' 620' 21-,)' 1 ' -*/620% 1-',)* -') .,1- '620',*2*,.' 8*-* *-',1',)*' - ' '" '6 A' " '" M4/6.518*' B1)2' *,)' Q KX% : 1/0 25' .,- >,/ ',1',)*' 1+*262,.' 620' 2',)*^ 1- '-*A*>, 25',)*' *+1/;, 12' .*,,/*?*2,' ,)*' =1/ , >6/ =1. , 12' 1 ',)*' 1+*262,*-.' .' +*- '=*>;/6-' 6.',)* ' -* ;.*',1'-*>152 .*' 62 '/68.' 1-' 2.,,;, *2.'8)>)',)*A'7 *12>* +*' ,1' D*' 2 ? >6/ ,1',)1.*' 1 ',)*' 9 2501?' 1 ')- .,J M)6?D*-.' 6 % 1' .% +% 6?*-12 62.X% ()*' * 1-?*0' -*.D ,*- 62.'-*56-0',)*?.*/+*.'6.',)*' ?10*?'-*=-*.*2,6, +*.'1',)*' 1+*262,*-.% **' # =3 ' ' " ' ' MK' +1/.% Q?1') /60% -*.D% 16-0X' 6/.1',)*., >9.'+ # ': 3' ' $ '' g ' g ' $ ' ! 1+*-06/* ' ' 12*' 1 ',)*' *6-/ *.,' 25/ .)' -*^ 1-?*-.' 86.' D1-2' 2' 1-9.)-*' 2' Q '620' 86.' *0;>6^ ,*0' 6,' 6?D-05*' 8)*-*')*' D*>6?*' 6' ?129' 1 ',)*' ;^ 5;., 2*' 1-0*-% ,' 62' *6-/ ' =*- 10')*' =*->* +*0' ,)*' *--1-.' 1 ' 1=*-% 2' S ')*' 86.' 1-06 2*0' =- *.,% D1;' K ')*' /6 0' 6. 0*') .' ?129.')6D ,' 620' D*562' ,1' =-*6>)' 656 2.,' =6=6/*--1-.% 2' KQ)*' A1 2*0' (2C' 06/*' 6,' : 6?D;-5) '620' 2' N) .' 18 2',-62./6, 12' 1 ',)* D/*' 6==*6-*0' 8 ,)' 6' 0*0 >6, 12',1' : *2- ' % ' 1-?*0' 6' 1/1' =- 2,*0' 6,' U;->)% : *',);.')60' ,)*')121-' 1 ' *0 , 25',)*' -.,' 25/ .)' D/*' 6//18*0' D ' -1 6/ 6;,)1-, '620',)*' -.,',-62./6, 12' 1 ',)*' 8)1/*' D/*' =-2,*0' 2' 1;-' /625;65*% ()*' .6/?.' 2' ,'6-*',)1.*' 218';.*0' 2',)*' 119' 1 ? ? 12' -6A7*-% D1;,' ,)*' *20' 1 ',)*' *6-' NQ 1+*-06/*' 8*2,' 6D-160' 656 2' 12',)*' D;. 2*..' 1 '6' 2*8' *0, 1-,' 1 ',)*' D/*% 4-6 ^ ,12',)*' 25/ .)' =- 2,*-')60' =*-? .. 12' -1?' -62> .' 6,',)*' -*_;*.,' 1 '9 25' : *2-' ') ?.*/ ',1' =- 2,' 6' D/*' 6,' 6- .' 12' 6>>1;2,' 1 ',)*' .;=*- 1-'.9 // 1 ',)*' 81-9?*2 '620',)*' 51102*..' 620' >)*6=2*..' 1 ',)*' =6=*-% ;,' 21,8 ,).,620 25',)*' -1 6/ / >*2.*',)*' 2_;. , 12' 2,*-=1.*0' D '62' 2.,-;?*2,' 06,*0' *>*?D*-' SNQ% ()*' -*2>)' =- 2,*-.' ',)*' -' 25/ .)' *?=/1 *-.' 620' 1+*-06/*' 8)1' 86.',)*' >1--*>,1-' 1 ',)*' =-*..' 7 *-*' .;?7 12*0' D* 1-*',)*' 2_;. ,1-.' 620',)*' ?=-*.. 12' >12. ., 25' 1 'K '>1=*.' 86.' .* [*0' 620' >120*?2*0',1' ,)*' /6?*.% ()*' 6+6- >*' 1 ',)*' 1 >*' 8)1' .;=*- 2^ ,*20*0',)*' D ;-2 25' 1 ',)*' >1=*.')18*+*-' 20;>*0') ?',1' .*// .*+*-6/ >)*.,.' 1 ',)*?' ,1' 6')6D*-06.)*-' 1-' ,)*' =;-=1.*' 1 '8-6== 25').' 8*')8)>)' 6>*' *8' >1=*.' 8*-*' =-*.*-+*0% ()*' 25/ .)' =-1=- *,1-.' 8)1')60' /*0' 6,',)*' 6/6-?' -*,;-2*0',1' 6- .' 8)*2' ,' .;D. 0*0' 620' 21,' 12/ ' -*>1+*-*0' .1?*' 1 ',)*' >1=*.' 8) >)')60' *.>6=*0',)*' -*' D ;,' D-1;5),' 8 ,)' ,)*?',1' 12012',)*' =-*..*.',' =*. ' 620' =- 2,*-.% () .' ?=1-^ ,6, 12' *26D/*0' 4-6 ,12' 620' &) ,>);->)',1' =- 2,' 2' NR' 8)6,' .' >6//*0' -62?*-.' 1-' `()*' 4-*6,' D/*' `

>12,*2,' C8 ,)' 110' 620' -6 ?*2,' M ' (?%+ ' ' QXT' D ; ' ,) *' >1+*,1 ; .' 6>,' 2' 1==1. , 12',1' 6//' ,) *. *' >1? ?620^ ?*2,.' M : *D% L ' ' ' ' ' ' "' ' " ' ' \07 d0= ;=1 ' S -=1 (-1 A' ' " ' ' "' "' ' S "' "' "' ' V ' ' ' + ' " 8! ( ) *6-,' .' +*- ' 0625*-1 ; . ' 1-' >1+*,1 ; .2*..' .',) *' .1 ;->*' 1 ' 6//' *+ / ' 620' D- 25.' 1-,)' 6// ?622*-' 1 ' . 2' M ' (?%+ ' R ' R ' @ ' " ' ' ' ' ' " ' ' ! ' :' " "' " ' ' ' ' ' ' ' " ' ' ' ' ' ' " ' ' ' ' ' ' "

Cowper, WILLIAM, an eminent Scotch divine, was born at Edinburgh in 1566. He studied at the University of St. Andrews, and in 1585 was appointed minister of Bothkenner, Sterlingshire. In 1593 he removed to Perth, where he continued until 1612, after which he was appointed bishop of Galloway. He died in 1619. His works breathe a spirt of cordial piety, and the simplicity and strength of his style are peculiarly worthy of commendation. Among them we remark "*Heaven opened*" (5th ed., Lond. 1619, 4to). A collection of his works was published after his death (Lond. 1629, fol.):—Darling, *Cyclop. Bibl.* s. v.

Cox, F. A., D.D., an eminent English Baptist minister, was born about 1783. He was pastor of the Baptist church at Hackney, London, and was one of the leading men in many of the religious societies of the metropolis. Of his works the most important are the *History of the Baptist Missions*, a volume on *Antiquities*, reprinted from the *Encyclopædia Metropolitana*; *Our Young Men*, a prize essay (1847); and a *Life of Melancthon*. He was a contributor to the first series of the *Journal of Sacred Literature*. His name is worthy of being associated with those of Ryland, Fuller, Carey, Marshman, Ward, Robert Hall, and John Foster, who in recent times have brought honor on the Baptist denomination by their literary as well as their religious labors.

Cox, Melville Beveridge, a Methodist Episcopal missionary to Africa, was born at Hallowell, Maine, in 1799; was converted in 1818; entered the ministry in 1822; on account of failing health was superannuated from 1825 to 1831; and afterwards served some time as agent of the Wesleyan University. In 1831 he was stationed at Raleigh, N. C. Soon afterwards he volunteered to go to Africa as a missionary, and sailed from Norfolk, Va., November 6, 1832, arriving in Liberia March 8, 1833. Here at once he set to work to lay the foundations of the Church in Africa. He labored faithfully, organizing the mission, collecting information, and preaching and teaching incessantly. In a few months he had formed a school of 70 scholars; but the African fever seized him, and on the 21st of July, 1833, after four months' labor, he died in triumph. Mr. Cox was a man of great piety and devoted zeal.—*Meth. Mag. and Quart. Review*, Jan. 1834; *Amer. Miss. Memorial*, p. 431; Cox, G. F., *Life and Remains of M. B. Cox* (N. Y. 18mo); Sprague, *Annals*, vii, 656.

Cox, Richard, bishop of Ely, was born about 1500, at Whaddon, Buckinghamshire, England. He was educated at Eton School and at King's College, where he obtained a fellowship in 1519. He was invited by cardinal Wolsey to Oxford to fill up his new foundation. For speaking his mind too freely of the corruptions of popery, he was deprived of his preferment and thrown into prison. When he had recovered his liberty he left Oxford; some time after he was chosen master of Eton School, which flourished remarkably under him; and by the interest of archbishop Cranmer he obtained several dignities in the Church, viz., the archdeaconry of Ely, a prebend of the same church and of Lincoln, and the deanery of Christ Church. He was appointed tutor to prince Edward, and on that prince's accession to the throne became a great favorite at court. He was made a privy councillor and the king's almoner; was elected chancellor of the University of Oxford in 1547; the next year installed canon of Windsor, and the year following dean of Westminster. About this time he was appointed one of the commissioners to visit the University of Oxford, and is accused by some of abusing his authority by destroying many books out of his zeal against popery. After Mary's accession he was stripped of his preferments and committed to the Marshalsea; but his confinement was not long, and on his release he went to Strasburg, and thence to Frankfort, where he formed a kind of university, and appointed a Greek and a Hebrew lecturer, a divinity professor, and a treasurer for the contributions remitted from England. On the death of Mary he returned, and was the chief champion on the Protestant side in the disputation at Westminster between eight papists and an equal number of the Reformed clergy. His abilities and zeal were rewarded by the bishopric of Ely, over which see he presided above 21 years. He opposed with great zeal the queen's retaining the crucifix and lights in her chapel, and was a strenuous advocate for the marriage of the clergy, against which she had contracted a strange aversion. He was one of the compilers of the Liturgy of the Church of England; and when a new translation of the Bible was made in the reign of Elizabeth, now commonly known by the name of "The Bishop's Bible," the Four Gospels, the Acts of the Apostles, and the Epistle to the Romans were allotted to him for his portion. A number of his tracts on the Romish controversy are to be found in the addenda to Burnet's *History of the Reformation*. Several letters and small pieces of his have been published by Strype in his *Annals of the Reformation*.—Downe, *Life of Bishop Cox*; Collier, *Ecclesiastical History*; Kippis, *Biographia Britannica*, iv, 396 sq.

Coz (Heb. קוֹץ, *Kots*, the same name elsewhere Anglicized Koz [q. v.], Sept. Κωζ), the father of Anub and others of the posterity of Judah (1 Chron. iv, 8, where, however, his own parentage is not stated, unless he be a son or brother of Ashur in ver. 5). B.C. post 1618.

Coz'bi (Heb. כָּזְבִּי, *Kozbi'*, *false*; Sept. Χασβι; Joseph. Χοσβια, *Ant.* iv, 6, 10), the daughter of Zur, a Midianitish prince. Phinehas, in his holy indignation, slew her, while in the act of committing lewdness with Zimri, an Israelitish chief, by thrusting a javelin through the middle of both (Num. xxv, 15, 18). B.C. 1619.

Cozri. See KOZRI.

Crackling (קוֹל, *voice*, i. e. noise) of thorns (q. v.) under a pot; a proverbial expression for a roaring but quickly-extinguished fire (Eccles. vii, 6). See FUEL.

Cracknel (only in the plur. נִקֻּדִּים, *nikkuddim'*, literally cakes *marked with points*), probably a kind of biscuit or other cake baked hard and punctured with holes, such as Jeroboam's wife took in disguise

Modern Oriental Pastry-cook.

(they being of a very common description) as a present to the prophet Ahijah (1 Kings xiv, 3, where the Sept. has κολλυρίς, Vulg. *crustula*). See BREAD. The original word (in nearly the same form) occurs in Josh. ix, 5, 12, where it is improperly rendered "mouldy" (q. v.). See CAKE.

Cradock, Samuel, B.D., an eminent Noncomformist, was born in 1620, and was educated at Emmanuel College, Cambridge, of which he became fellow. He was presented to the college living of North Cadbury, but ejected for nonconformity in 1662, and retired to an estate at Wickham Brook which had been left to him. He died in 1760. He was a man of serious and truly catholic spirit, solid judgment, digested thought, clear method, and unaffected style. His works have been greatly commended by archbishop Tillotson and bishop Reynolds. Dr. Doddridge says that no author assisted him more in what relates to the New Testament. His principal works are, *The History of the O. T. methodized* (Lond. 1683, fol.):—*The Harmony of the Four Evangelists* (Lond. 1688, fol.):—*The Apostolical History, with an Analytical Paraphrase* (Lond. 1672, fol.):—*Knowledge and Practice* (4th ed., with eight new chapters, Lond. 1702, fol.).—Darling, *Cyclop. Bibliog.* s. v.

Cradock, Walter, an eminent English divine, was born at Trefala, Monmouthshire. He was educated at the University of Oxford, joined the Puritans, and became curate of St. Mary's, Cardiff. During the civil wars he became pastor of Allhallows the Great, London, and occasionally itinerated through Wales. He died in 1660. He was an Independent in Church government—a man of excellent character and high reputation; in doctrine, he was zealous in preaching justification by imputed righteousness. His principal works are, *Gospel Libertie in the Extensions and Limitations of it* (Lond. 1648, 4to):—*Divine Drops distilled from the Fountain of Holy Scriptures* (Lond. 1650, 4to):—*Gospel Holinesse* (Lond. 1651, 4to). A collection of his works has been published (Chester, 1800, 8vo).—Darling, *Cyclop. Bibliog.* s. v.

Craftsman (חָרָשׁ, *charash'*, Deut. xxvii, 25; 2 Kings xxiv, 16; Hos. xiii, 2; elsewhere "engraver," "workman," etc.; חֹרֶשׁ, *che'resh*, Neh. xi, 35; "cunning," Isa. iii, 3; "secretly," Josh. ii, 1; "Charashim," 1 Chron. iv, 14; both from חָרַשׁ, *charash'*, to *carve* in stone, hence to be an *artificer* in general; τεχνίτης, Acts xix, 24, 38; Rev. xviii, 22; "builder," Heb. xi, 10; an *artisan*), a workman at any mechanical employment requiring skill. See MECHANIC. Persons of this class professionally (for every Jew was required to learn some manual trade, to fall back upon in case of want) seem to have congregated in a special street or bazaar (q. v.) in the environs of Jerusalem (1 Chron. iv, 14, where it is called a valley), or rather in the vicinity of Lod (Neh. xi, 35); regarded by Dr. Robinson (*Phys. Geogr. of Palest.* p. 113) as the plain of *Beit Nuba*, or rather a side valley opening into it. See CHARASHIM.

Modern Oriental Turner.

Craig, JOHN, one of the Scottish Reformers, was born in Scotland about 1512. "Having spent some time as a tutor in England, he returned to Scotland and entered the Dominican order, of which he had not long been a member when he fell under the suspicion of heresy, and was cast into prison. On his release he travelled on the Continent; and after some time was, through cardinal Pole's influence, intrusted with the education of the novices in connection with the Dominican order at Bologna. While here, Calvin's *Institutes* fell in his way, and converted him to Protestant doctrines. Having openly avowed the change in his opinions, he was brought before the Inquisition, and sentenced to be burnt—a fate from which he was saved by the mob, on the death of pope Paul IV, breaking open the prisons in Rome, and setting the prisoners at liberty. Craig escaped to Vienna, and obtained some favor at the court of Maximilian II; but the news of his being there reached Rome, and the pope demanded his surrender as one condemned for heresy. The emperor, however, instead of complying with the request of his holiness, gave Craig a safe-conduct out of Germany. He now returned to Scotland, and was appointed the colleague of John Knox in the parish church of Edinburgh. Thinking the marriage of queen Mary and Bothwell contrary to the Word of God, he, while holding this position, boldly refused to proclaim the banns. In 1572 Craig was sent 'to illuminate the dark places' in Forfarshire and Aberdeenshire, and remained in the North until 1579, when he was appointed minister to king James VI in Edinburgh. He now took a leading part in the affairs of the Church, was the compiler of part of the Second Book of Discipline, and the writer of the National Covenant signed in 1580 by the king and his household. He was a man of great conscientiousness, and was not slow to oppose the proceedings of the court when he deemed them opposed to Scripture, and to speak wholesome but unpleasant truths to his majesty himself. He died December, 1600."—Chambers, *Encyclopædia*, s. v.

Crakanthorp, RICHARD, D.D., was born at Strickland, in Westmoreland, in 1567. He was admitted to Queen's College, Oxford, in 1583, and became fellow in 1598. He obtained the rectory of Black Notley, Essex, and died in 1624. He had the reputation of being a general scholar, was quite a canonist, perfectly acquainted with ecclesiastical antiquity and scholastic divinity, and was a celebrated preacher. His principal works are, *Defensio Ecclesiæ Anglicanæ contra M. Antonii de Dominis, D. Archiepiscopi Spalatensis, injurias* (new edit. in *The Library of Anglo-Catholic Theology*, Oxf. 1847, 8vo):—*Rome's Seer overseene* (Lond. 1631, fol.):—*The Defence of Constantine, with a Treatise of the Pope's temporal Monarchie* (Lond. 1621, 4to).—Darling, *Cyclopædia Bibliographica*, s. v.

Cramer, JOHANN ANDREAS, a German theologian and poetical writer, was born at Josephstadt, Saxony, Jan. 29, 1723. He studied at Leipsic, was invited to Copenhagen by Frederick V, and, with the exception of three years, resided in Denmark from 1754 to 1788, in which latter year he died. At the time of his death he was chancellor of the University of

Kiel. He translated Bossuet's Universal History, the Homilies of St. Chrysostom, and the Psalms of David into verse (Leips. 1755), and wrote the *Northern Spectator* (der nordische Aufseher), three vols. (Copenhagen, 1758); *Sermons*, twenty-two vols.; and *Poems*, three vols. (1782). Germany ranks him among her best lyric poets.

Crane occurs in our version as the translation of סוּס (*sus*, literally a *leaper*, from its swiftness, Isa. xxxviii, 14) or סִיס (*sis*, Jer. viii, 7), in connection with another bird, the עָגוּר (*agur'*, the *chatterer*, or, as Gesenius renders it in Isaiah, the *chattering*, as an epithet of the other), which latter is rendered "swallow" in our version. The Rabbins agree with our version in rendering the former of these words (*sus* or *sis*) by "crane;" but Bochart and Gesenius (in accordance with the Sept., Theod., and Vulg.), more correctly, as we think, decide in favor of "swallow;" while Luther, rejecting both, prefers "heron." Where so much diversity of opinion reigns, it will be most safe to search for the true meaning by examining the internal evidence furnished by the texts in question, the two names occurring in no other instance. In Isaiah, allusion is made to the voice of both the species (if distinct), which is described by the verb "to chatter," in accordance, or nearly so, with all critical authorities. See SWALLOW. In Jeremiah, where both names occur in the same order, the birds are represented as "observing the time of their coming." Now, if the "crane" of Europe had been meant by either denomination, the clamorous habits of the species would not have been expressed as "chattering;" and it is most probable that the striking characteristics of that bird, which are so elegantly and forcibly displayed in Hesiod and Aristophanes, would have supplied the lofty diction of prophetical inspiration with associations of a

Crane (*Grus Cinerea*).

character still more exalted. *Sus* or *sis* is the name of a fabulous long-legged bird in Arabian legends, but it also indicates the expressive sound of the swallow's voice, while *agur* is transferred with slight alteration to the stork in several northern tongues. The Teuticon *aiber*, Dutch *oyevaer*, Esthonian *aigr* and *aigro*, therefore support the view that the latter term is a tribal epithet of one of the great wading birds; but neither the Hebrew text nor the Teutonic names point to the crane of Europe (*Ardea grus*, Linn., *Grus cinerea* of later ornithologists), since that species has a loud trumpet voice, and therefore does not "chatter;" but especially because in its migrations it crosses the Mediterranean into Africa, and does not appear in Palestine, unless by accident (driven thither possibly by a western storm of wind); and when a troop of cranes alight under these circumstances, it is only for a moment; they do not give evidence of purposely assembling like the swallow. Thus the few characteristics indicated might seem to point out the stork, which does assemble in Syria in flocks before its departure, and is not a clamorous bird, having little or no voice. But as the stork is clearly designated by a different appellation in the original [see STORK], we must search for another species as the representative of the *sus*, or at least of the latter term; and we fortunately find one which completely answers to the conditions required; for, being neither a genuine crane, a stork, nor a heron, having a feeble voice, and striking, but distinct manners, it is remarkable for beauty, numbers, residence, and periodical arrival and departure. The Numidian crane (*Ardea virgo* of Linn., the *Grus virgo* of later writers, and *Anthropoides virgo* of some)

Numidian Crane (*Grus Virgo*).

is the bird, we have every reason to conclude, intended by "agur," though not coming from the north, but from Central Africa, down the Nile (the very circumstance which puzzled Hasselquist), and in the spring arriving in Palestine, while troops of them proceed to Asia Minor, and some as far north as the Caspian. They are frequently found portrayed on Egyptian monuments, and the naturalist just quoted, who saw them on the Nile, afterwards shot one near Smyrna: they visit the swamp above that city, and the lake of Tiberias, and depart in the fall, but do not utter the *clangor* of the crane, nor adopt its flight in two columns, forming an acute angle, the better to cleave the air. This bird is not more than three feet in length; it is of a beautiful bluish gray, with the cheeks, throat, breast, and tips of the long hinder feathers and quills black, and a tuft of delicate white plumes behind each eye. It has a peculiar dancing walk, which gave rise to its French denomination of "demoiselle" (see the *Penny Cyclopædia*, s. v. Herons).—Kitto, s. v. See BIRD.

The Hebrew term *sus* occurs frequently elsewhere, but only in the sense of "horse" or *cavalry*.

Crane, JOHN, D.D., a Congregational minister, was born at Norton, Mass., March 26, 1756. He graduated at Harvard in 1780, and was installed pastor at Northbridge, Mass., June 25, 1783, where he remained until his death, Aug. 31, 1836. He published *Eight Discourses on Baptism* (1806) and a few occasional sermons.—Sprague, *Annals*, ii, 214.

Cranmer, THOMAS, archbishop of Canterbury, and one of the greatest of the English reformers, was born at Aslacton, Nottinghamshire, July 2, 1489. He entered Jesus College in 1503, became a fellow in 1510-11, studied Greek, Hebrew, and theology with great diligence, and acquired high repute for scholarship. He forfeited his fellowship by an early marriage, but his wife died within a year, and he was restored. In 1523 he took the degree of D.D. In 1528 he was at Waltham Abbey, the seat of Mr. Cressy, educating that gentleman's children. Here he met Gardiner and Fox, who asked his opinion as to Henry VIII's di-

-1->*¼ : .' -*=/ ' 86.' ?60*' 92182',1',)*' 9 25 ' 620' 56+*') ?' ' ? ;>)' .6, . 6>, 12',)6,' D*' .*2,' 1-' -62(?*-' 8)1' -*/;>,62,/ ' 1D* *0',)*' .;?? 12. ' 620',1' =-*=6-*' .;>)' 6-, >/*.' 6.' 81;/0' 0;0*0' D .' 1= 2 12',1' 8- , 25¼ `` ,' 6..*-,*0',)6,',)*' ?6-- 65*' 1 ' : *2- ' 8 ,)') .' D-1,)*- .' 8 018' 86.' >12I' 0*?2*0' D ' ,)*' 7-/=,;-*. ' ,)*' >1;2> /. ' 620',)*' 6I' ,)*-.' 620',)6,',)*' =1=*')60' 21' =18*.',1' 5 +*' 6' 0 .^ =*2.6, 12' 1-',)6,' 8) >)' 86.' >12,-6- ',1',)*' 81-0' 1 ' 410¾J' 6 2.' 8*-*' ,69*2',1' ?69*' ,) .' A;05?*2,' 92182¼ -62?*-') ?.*/ '0 .=;,*0';=12' ,' 6,' 6?^ D- 05*' 620' D-1;5),'.*+*-6/ 1+*-',1') .' 1= 2 12¼ : *' 86.' 6==1 2,*0' >)6=/6 2',1',)*' 9 25 '=-*.*2,*0',1',)*' 6->)0*6>12- ' 1 ' (6;2,12 ' 620'A1 2*0',)*' *?D6.. ',1' 1?*' 6D1;,',)*' >/1.*' 1 'dkKR¼ ()*' 6?D6..601-.' 20^ 25' 6// `6-5;?*2,.' ;26+6 / 25' 8 ,)' =1=*' /*?*2,' _; >9/ '-*.,;-2*0'/*6+ 25' -62?*-' 2',6/ ¼ ()*' =1=*' >12 *--*0' 12') ?',)*' *?=, ', ,/*' 1 ' ' ;=-*?*' *2 ^ ,*2, 6- ¾J' & *6- *0' 8 ,)' 0*/6 . ' -62?*-' /* ,' ,6/ ' 2' N '620' 8*2,'6 ,*-86-0. '12',)*' .6?*' D;. 2*. . ',1' -62>*' 620' 4*-?62 ' 62' *L=*0 , 12' 8) >) '6/,)1;5)' ,' =-10;>*0' 21' 0*> . +*' =;D/ >' -*. ;/, '/*0',1' 62' *+*2,' 1 '5-*6,' >12.*_;*2>*' ,1') ?.*/ ¼ *56-0/*..' 1 ',)*' 1? .)' 2A;2>,12' 1-' >/*- >6/ >*/ D6> ')*' ?6-- *0' M NKX6'.*>120', ?*',)*'1DA*>,'1 ') .' >)1 >*' D* 25',)*' 2 *>*' 1 ' . 620*-',)*' =6.,1-'1 ' ;-*?D*-5¾ () .' .*^ >-*,'6>,'*L=1.*0') ?',1'?62 ';281-,) '*+6. 12.¼ :*' 86.' .112' 6 ,*-' ?60*' 6->)D .)1=' 1 ' 62,*-D;- 7 620' 8)*2' >12.*>-6,*0'M< 6->)'N 7X'?60*'6';D/ >'=-1^ ,*.,6, 12' ' ()6,')*' 0 0' 21,' 2,*20' D ',) .' 16,)',1' -*^ .,-6 2') ?.*/' -1?' 62 ,) 25',)6,')*' 86.' D1;20',1' >,)*-' D ') .' 0;, ',1' 410'1-',)*' 9 25' 1-',)*' >1;2^ ,- ¾J' ' ',) . J.6 .' ;-2*,' 5 1'+1/¾ X' ')*' 0 0' 21,'8)1// ' .6+*') .' 2,*5- , ' *,' ,'86.' =/6 2',)*' 2,*20*0' 21'>)*6,'D;',1'6>,' 6 -/ '620'6D1+*^ D16-0¾J' 2',)*'KNO' 1 '<6 ' NN' -62?*-'0*>/6-*0' ,)*' 9 25 .' ?6-- 65*' +1 0¼ +*' 06 .' 6 ,*-86-0.')*' =;D/ >/ ' ?6-- *0',)*' 9 25',1' 22*' 1/* 2' 6' =- +6,*' ?6-- 65*')6+ 25',69*2'=/6>*' 2',)*'B62;6- '=-*+ 1;.¼ ()*'D;. 2*..' 1 ') .' 1 >*' 620'=6-/ 6?*2,6- '0;. '218' 1>>;=*0') .' , ?*¼ & ,)') .' 6.. .,62>*' 8*-*' =6..*0' .*+*-6/ .,6,;,*. 'P ' 8) >)',)*' =18*-' 1 ',)*' =1=*' 2' 25/620' 86.' ?6,*- 6// ' 0 ? 2 .)*0I',)*' 12+1>6, 12' 620' ;2 +*-. , *.' 6..*2,*0',1',)*.*' ..6,;,*. ' =-121;2>^ 25',)6,' ,)*'D .)1=' 1 ' 1?*')6.' 21,' 62 '5-*6,*-'A;^ - .0 >, 12' >12 *--*0' 12') ?' 2',) .' -*6/?' 1 ' 25/620' ,)62'62 '1,)*-' 1-* 52'D .)1=¾J 2' N '8 ,)',)*'>12.*2,'1',)*' 12+1>6, 12')*' .*,' 12' 11,'6', -62./6, 12' 86.' >1?=/*,*0'620';/, ?6,*/ ' =- 2,*0'6,' 6- .' 2' N')*' 6.. .,*0' 2',)*' .*>120' *0 , 12'1',)*' ' 25 .' - ?*- J'6'D119'>12,6 2 25'01>^ ,- 2*.' D1-0*- 25' ;=12' -1,*.,62, .?¼ 2' NS',)*'0^ +1->*0'_;*' 2'0 *0'620' : *2- 'D* 25'218', -*0'1' 22*' 1/* 8'0*,*-? 2*0',1'5*,'- 0'1 ')*-' 620' -62?*-'6' .*>120', ,* .*-+*0',)*'D60' =6.. 12.'1',)*' 9 25'620' 2' + -,;*' 1 / .' 1 >*' =-121;2>*0',)*' ?6-- 65*' +1 0' M NSX¼ ()*' =1=*' ,)-*6,*2*0',1' 6..*?D/*' 6' . 210' ,1' >*2.;-*' : *2- ¼ -62?*-' 620' 1,)*-.' . 52*0' 6' 0*>/6-6, 12',)6,',)*' 9 25' 2**0' 21,' 1D* ' ,)*' 0*>^ . 12.' 1 ' ;>)' 62' 6..*?D/ ¼ & ,)' ,)*' 6.. .,62>*' 1 ' ?62 ' *? 2*2,'0 + 2*.' -62?*-'6--625*0',)*' ';"9 %J ; + ' 2>;/>6, 25',)*' 01>,- 2*.' 1 ',)*' * 1-,2(*-.¼ ()*' 9 25 ',1' 8)1?',) .' D119' 86.' .;D? ,,*0') ?.*/' 2.*-,*0' .1?*' >1--*>, 12.' -1?' 8) >)' ,)*' 6->)D .)1=' 86.' D1/0' *21;5)',1'0 ..*2,¼ ()*'0*..-;>^ , 12' 1 ',)*' 5-*6,*-' 6DD* .' 86.' 218' -6= 0/ ' =-1>**0^ 25' 620',)*' ;20.' 8) >)' 6-1.*' -1?',)*?' 8*-*' /6+^ .)*0'D ' : *2- ' ';=12'2 2 8 1-,) ' 6+1-,*. ' ;2, /' -62^ ?*-' 8)1')60')1=*0',1' 6==/ ',)*?*>)*>9*0' 21' ;-,)*-¼ -1?' NQ',1' S ',)*' ? 20' : *2- ' 86.' 656 2.,' =-15-*..' 2',)*' * 1-?6, 12¼ 2',)*' ,)' 1 ' < 6

NQ' -62?*-' 620' 1,)*-.' 8*-*' 6==1 2,*0' >1?? .^ . 12*-.' ,1' 2_;-*'J'M *' 6. +1/¼ 'K X' 2,1',)*'0*^ D6,*0'01>,-2*.' 620',1'=-*=6-*' .;>)'6-, >/*.' 6.' 81;/0' =6* ',)*' .= - ,'1 '>12,-1+*-. ¾J' ,',)*'*20'1 '*/*+^ *2'06 .',)*'/6D1-.' 1 ',)_' >1?? .. 12*-.' >1? 25',1' 21' -*. ;/, ',)*' 0;9*' 1 ' 1- 1/9' 1 *-*0' . L' 6-, >/*.' M ;-^ 2*,'+1/¼ X 1-',)*'>12. 0*-6, 12' 1 ',)*' : 1;.*' 1 ' 1-0.¼ -62?*-.' 1=2 1?65-**0'12/ ' 8 ,)' 12*' 1 ',)*.*' 6-, ^ >/*.' D;,',)* '8*-*'=6..*0'M.**' . 3!' 6,^ ?*-'620')6L,12'-*. 52*0',)* -' D .)1=- >.' 62'*L6?^ =/*' 8) >)' -62?*-' 0 0',)',)' 29',)' .' 0;, ',1' 1/^ /18¼ 2'B;/ ' ')*' =-*. 0*0' 6,',)*' 12+1>6, 12' 8) >)'=-121;2>*0',)*' ;2A;., 6D/*' 0..1/;, 12' 1',)*' ?6-- 65*' D*,8**2' : *2-A7620' 22*' 1' /*+*.¼ ()*' ?.>120;>,' 1' 6,)6- 2*' :186-0'8)1?' :*' 6-->)60' ?6-- *0' >1? 25',1',)*'9218/*05*' 1 ',)*' 6->)D .)1=')*' -*=1-,*0')*-'=-1 / 56> ',1',)*' 9 25'M X¼ ()*' =-11 .' 1 ')*-' >- ?*.' 8*-*')*/0',1'D*' >12>/;. +*T .)*' 86.' >120*?2*0'620'*L*>;,*O¼ ()*' * 1-?6, 12'218' M KX'D*>6?*',)*' .1/*' 1>>;=6, 12' 1 ' -62?*-' 8)1')60',-62. *--*0',1',)*' ;2 +*-. , *.',)*',6.9'1 '-*+ . 25' 6' 2*8' *0 , 12' 1 ',)*' D/*' =;D/ .)*0',)*' *6-' D* 1-*¼ 2' 6' ? 21-'0*5-*' -62?*-.',6,,*2, 12'86.' 1>>;=*0' 2' -*=-1+ 25',)*'/; ;- ' 2' 8) >)' .1?*' *>>/*. 6., >6/ *.,6D/ .)?*2,..'6.' 8*//'6.',)*'D .)1=. ')60' 20;/5*0¼ 2' <6 ' N'6==*6-*0',)*') (' ; +' 8) >)' 86. ' 2' 6>,'/ ,/*' ?1-*',)62'6'2*8' *0 , 12' 1 ',)*' =# ' ' ' " ' 1'6/,*-*0' 2' .1?*' =1 2,.' D ' ,)*'=6=6/=6-, T ,'-*>* +*0',.'26?*' -1?',)*'=-* 6>*' 8) >)' 86.' 8-,,*2' 2' : *2-A .'26?*¼ ()*'>/*-5 'D*^ 25')1.,/*',1',) .'D119' -62?*-'6,'6'+ . ,6, 12'1') .' 0 1>*.*' 2' .;D? .. 12',1',)*'9 25 .' .;=-*?6> ' 1-D60*' ,)*?' -1?'=-*6>) 25'656 2.,'62 '=1-, 12.' 1 ',')18^ *+*-',)*'1-')*') ?.*/'?5),'0 ..*2,' -1?',)*?¼ 2' ' -62?*-'>6-- *0',)-1;5)' 6-/6?*2,'6'D //,1' ,^ 56,*',)*'.*+*-, '1',)*' L' -,>/*:'J :*'6/.1'6.^ . .,*0' 2'>1?=/25'62' ?=-1+*0' 25/7' ,62 '*..*2^ ,6// ' . ? /6-',1',)6,'8) >)' .' 218' 2' ;.*¼ >;/^ ,*.')18*+*-'8*-*' 2>-*6 25'6-1;20') ?¼ ()*'0;9*' 1 ' 1- 1/9'620'1,)*-'?*?D*-.'1',)*'A +E'>1;2>/6>^ >;.*0') ?'1'.=-*60 25')*-*. *.',)-1;5)',)*'/620'620' :*2- '>6;.*0' -' 2,)12 ' *22 ',1'>6-- '6'?*..65*' ,1' -62?*-'8)1'-1.*' -1?') .'D*0',1'6,,*20';=12',)*' 9 25'6,'&) ,*)6//¼ ()*'>1;2>/6..*?D/*0'2*L,'06 ' 620' .;??12*0',)*' =-?6,*¼ *2,*21;' 1' ?=-.12^ ?*2,'86.' =6..*0';=12') ?'D;,',1',)*' -'>12 ;.12')*' =-10;>*0',)*' .52*,'1',)*'9 25' -1?'8)1.*')620.')*')60'-*>*+*0',)*'2 5),'D* 1-*¼ ()*'>1;2>/0 0'21,' +*2,;-*',1'=-1>**0' ;-,)*-¾ 25':*2-'0*0'K ,)'B62;6- ' ¼ -62?*-'86.' 26?*0'12*'1',)*'-*5*2,.'1',)*'9 2501?¾ 2',)*'6>^ >*..12'1' 086-0'6//,) 25.' 20**0'D*,19*2*0'6' ;-^ ,)*-'*L,*2.12'1',)*' * 1-?6, 12¼ '+ . ,6, 12'86.' ??*0 6,*/ '.*,'12' 11,T ,8*/+*')1? /*.' 1;-'1'8) >)' 6-*'6.>-D*0',1' -62?*-'8*-*'0-68 2' ;='620'1-0*-*0' ,1'D*'=/6>*0'2'*+*-')<);-)'8 ,)',)*' ,-62./6, 12'1' -6.?;. .'=6-6=)-6.*'1',)*' ¼ (¾'1-',)*'2.,-;>, 12' 1',)*' =*1=/*¼ 46-0 2*-' >12, 2;*0',1'1==1.*' ,)*' * 1-?6, 12'D;,' -62?*-.' 2/;*2>*' =*+6 /*0'T 620' 8)*2')*' =-10;>*0' 2' >12+1>6, 12' 62' 1-0 262>*' ,)6,' ,)*/6 , '6.' 8*//'6.',)*' >/*-5 '.)1;/0'-*>* +*' ,)*' .6>^ -6?*2,' 2' D1,)' 9 20.',)*' =-1=1. , 12' =6..*0' ;262^ ?1;./ '620' .112' 6 ,*-' 1D,6 2*0',)*' .62>, 12' 1',)*' *5 ./6,;-*¼ 2' Q',)*'-*+ +*0',)*'=-1=1.6/ 1-' .;D^ .,,;, 25'6'>1??;2 12' 1 >*' 1-',)*' ?6..' 620'6'.*-^ + >*' 86.' -6?*0' 2', ?*',1'D*' > ->;/6,*0',1',)*' >/*-5 ' 1A',)*-' ;.*' 6,',)*' 1//18 25' 6..*-*¼ I ',-62./6, 12' 1 '6'>6,*>) .?'8-,,*2' 2'4*-?62'620' 6, 2'D '8;.,;.' B126.'86.'=;D/.)*0'D ',)*'6->)D$)1='*2, ,/*0' (' " ' 2',)*' ?12,)' 1' <6 '6' >1?? .^ . 12' 1',8*/+*' 0 + 2*.' 8 ,)' -62?*-'6,',)*-',)*'60' 86.' 6==1 2,*0' 1-',)*' >1?=/6, 12' 1 '62' 25/ .)'/ ,^ ;-5 ¼ **' ' + # 'g) $ #! 2',)*' >120*?26, 12' 1 ' 1-0' * ?1;-'M RX' -62?*-'.5)^ *0T,)*'86--62,' 1-') .'*L*>;,12'21,8 ,)',620 25',)*' >6212'/68',)6,'21' >);->)?62' .)1;/0'?*00/*' 2'?6,^ ,*-.' 1 'D/110¼ 122*-A D .)1=' 1 ' 12017'86.' 218

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0*5-60*0' D ' >1? ? .. 12*-.' 1 ' 8)1?' -62?*-' 86.' 12*¼ 2'600 , 12' 86.' ?60*' ,1' ,) *' - .; 6/ 2',)*' .)6=*' 1 ' 6' 1-? ;/6- ' 1-' 1-0 26, 12 ' 620' 1,)*-' .,*=.' 8*-*' ,69*2' D ',)*' =- ?6,*' 2' 1-0*-',1' 0 ;.*' 6'D*,,*-'9218/^ *05*' 1 ',)*' >-**0' 1 ',)*' -1,*..,62,.¼ ' 6?D*,)')*' -*>* +*0',)*' ?1.,' *? 2*2,' 1-* 52'0 + 2*.' < 6-, 2' ;'0 >*-' 65 ;. ' *,*-' < 6-, -' 620' .*+*-6/ ?1-*' -62?*-' 86.' 5-*6,/ ' ,-1 ; D/*0' 6,',)*' 0 .>;.. 12.' -*.=*>, 25',)*' .;D., , ;, 12' 1 ',6D/*.' 1-' 6/,6-.' 2',)*' >) ;->)*.¼ 2' B;/E7 ' : 11=*-' 86.' ?60*' D .)1=' 1 ' 4/1;>*.,*-' 620' .112' 6 ,*-' -62?*-' -*>* +*0' -1?') ?' 6' -* ;.6/ ,1' 8*6-',)*' *= .>1=6/)6D ,.¼ -62?*-' ;=12' >12. 0^ *-6, 12 ' 0*,*-? 2*0',1' 1==1.*' : 11=*-' 620' 2' >6.*')*' =*-. .,*0',1' -*?1+*') ?' -1?') .' D .)1=- >¼ : 01=0' >-' 601=,*0' .1?*' 1 ',)*' ; . ; 6/)6D ,.¼ ()*' D .)1=' 1 ') >)*.,*-' 81;/0' 21,' 1D*' ,)*' 1-0*-' -*.=*>, 25',)*' -*?1+6/ 1 '6/,6-. ' 620' ,)*' =- ?6,*' >12.*_;*2,/ ' 0*^ =- +*0') ?' 1 ') .' .**¼ .)1=' 46-0 2*-' 8)1')60'218' D**2' 2' =- .12' 2*6-/ ' ,81' *6-.' 86.' 0*=- +*0' 1 ') .' D .)1=- >' 620' .*2,' D6>9',1',)*' (18*-¼ ()*' >120 ;>,' 1 ' -62?*-' 2',)*' >6.*.' 1 ' 122*-' 620' 46-0 2*-' 86.' 6' 5-*6,' *L>*=, 12', 1') .' ; . ; 6/ ?10*-6, 12¾ 46-0*-' 0 ; - 25') .' ?=- .12?*2,' 1>>;= *0') ?.*/ ' 2' 62.8*-^ 25' 6',-*6, .*' =;D/ .)*0' D ' -62?*-' *2, ./*0',)*' ' ' ' '" ' - ' ' ' '" ' $! ( ) .' >12,-1+*-. ' 86.' >6-- *0' 12' D ',)*' 6>)D .)1=' ;2, / ,)*' *20' 1 ') .' / *¼ '-*+ . 12' 1 ',)*' ' *-+ >*CD119J' 1 ' Q' 86.' >1? ?*2>*0' D ' -62?*-' 8 ,)',)*' 6.. .,62>*' 1 ' 0/* '620' 1L' *,*-' < 6-, -' 620' ;>*-¼ ()*' ;2^ 0*-,69 25' 86.' >)*>9*0' 2' 'D ',)*' 0*6,)' 1,' ;>*-¼ ()*' D .)1=.' D* 25' 218' ℳ X 1-',)*' ?1.-' =6-,' 0 ^ + 2*.' 6+1-6D/*' ,1',)*' * 1-?6, 12',)*' >1?= /6, 12' 1 '6-, >/*.' 1-',)*' 5-*6,*-' ;2 1-? , ' 1 ' 6 ,)' 86.' ;2^ 0*-,69*2' D ',)*?' 6,',)*' .;55*., 12' 1 ',)*' 9 25¾ ()./6D1-' .1' //*0',)*')620.' 1 ' -62?*-',)6,')..', ?*' 86.' 2*6-/ ' 6/86 .' 1>>;= *0' D ' 12*' 1-' 1,)*-' 1 ',)*' 5-*6,' 0;.*.',)6,')*')60' ?=1.*0' ;=12') ?.*/ 1' .>6->*/ ' >1;/0')*' 6,,*20' ,)*' ,- 6/ 1 ' D .)1=' (12.,6/¼ ()*' D .)1=' 86.' 0*=- +*0' 1 ') .' .**' 6' .*2,*2>*' 8) >)' 86.' .1' >12,-6- ' ,1' -62?*-.' 1= 2 12' ,)6,' 8 ,)¼ 1-0' ,1;-,12' 6' 1?62' 6,)1/ >')*' =-1,*.,*0' 656 2.,' ,¼ ,' 86.' 2>1,', // K',)6,' -62?*-' 56+*' ;='6//)1=*' 1 ' 62' 65-**?*2,' 6?125' 6// ,)*' >);->)*.',)6,')60' 8 ,)^ 0-682' -1?',)*' =6=6/ .;=-*?6> ' 620' 1-' 8) >)')*')60' *2,*-*0' 2,1' >1--*.=120*2>*' 8 ,)' 6/+ 2' < */62>C 3,)12' 620' 1,)*-' 0 + 2*.' 1',)*' 12, 2*2,¼ ()*' *-^ + >*CD119J' 86.' >1?=/*,*0' 620',)*' ; +' ' ' 601=,*0' D ' 6-/ 6?*2,' 2',)*' .=- 25' 1 ' K' 2' < 6A ' N' 086-0' ..;*0' 6' ?6206,*',)6,',)*' >/*-^ 5 ' .)1;/0' .;D.>- D*' ,1',)*' 1-, C,81' -, >/*.' ;=12' 8)>)',)*' 0 + 2*.')60' 65-**0' D;,')*' 0 *0' .112' 6 ,*-^ 86-0.¾ ' /*,,*-' 86.' .*2,' ,1',)*' =- 2>*..' < 6- ' 0*>/6- 25' _;**2' B62*' ℳ 60 ' B62*' 4-* X',1' D*' ,)*' .1+*-* 52¾ ().' /*,*-' 86.' . 52*0' D ' ?62 ='*-.12.' 620' 6?125' ,)*?' D ' -62?*-' 8)1.*' [*6/ 1-',)*' -1,*.,62,'>6;.*' ? ;.,')6+*' D/ 20*0')?',1',)*' 0625*-' 1 ',)*' *2,*-=- .*¾ 2',)*' R,)' 1 'B;/ ' N',)*' >) * ' 1 >*-.' 1 ',)*' .,6,* .81-*' 6//*5 62>*',1' B62*' 1' 12',)*' K ,)' 8*' 20' ?62 ' 1 ',)1.*' 8)1')60' D**2' [*6/1;.' 2')*-'>6;.*' ' ?=6, *2,' ,1' .*20' 2',)*' -' .;D? .. 12.' 1' < 6- J' 2',)*' .6?*' ℳ6 '62' 1-0*-' 86.' .*2,' D ' < 6- ',1' 1-,) ; ?D*-/620',1' 0 .6-?¾ ()*')1=*.' 1 ',)*' -1,*.,62,.' 8*-*' 218' 6,'62' *20' 6.' _;**2' < 6- .' ;2.)69*2' 6,,6>) ?*2,',)*' 1^ ?62' 6,)1/ >'>-**0' 86.' ;2 +*-.6// '92182¾ 46-0 2*-' 86.' -*/*6.*0' 620' ?60*' >)62>*//1-' 620' 6' >1? ? .. 12' 86.' 1-?*0' ,170*5-60*' 620' ?=- .12' -1.*.,62,'=-*/^ 6,*.' 620' ? 2 .,*-.' F12',)*' >)6-5*.' 1 ',-*6.12')*-*. ' 620' ?6,- ?12¾ ',/*'D*5 22 25' 1 ' ;5;..' -62?*-' 86.' .;? ?12*0' D* 1-*',)*' >1;2> /'! 620' 2' *=,*?D*-' 8 ,)' 6, ?*-' 620' 0/* ' 86.'>1?? ,,*0',1',)*' (18*-*' 2' <6->) ' ')*' 86.' -*?1+*0' 8 ,)' D .)1=.' 6, ?*-' 620' 0/* ',1' =- .12' 6,' L 1-M/' 8)*-*' 86.' -*2*8*0' ,)*' >12,-1+*-. ' -*.=*>, 25',)*' 1-0 .' ;==*-' 8) >)' D ',)*' ;=*2 .' 0*. -*' 86.' 26?*0',)*' .;DA*>,' %-' 0 .C >;..A 12¾ 2',)*' N,)' 620' R,)' 1 ' =- /',)*' 0 .>;.. 12' 86.')*/0T 620' 12',)*' KQ,)',)*' 6>>;.*0' 8*-*' D-1;5), ,1' ,¾ < 6- .' 8)*-*' ,' 86.' 0*>/6-*0',)6, '%;2/*..',)* ' 81;/0',;-2',)*' 8*-*' 1D., 26,*')*-*, >.' 620' 21' /12^ 5*-' ?*?D*-.' 1',)*') ;->)¾ -62?*-',)*2' -*=/ *0' -1?',) .' 1;-'A;05?*2,' 620' .*2,*2>*' 6==*6/ ,1' ,)*'A;.,'A;05?*2,'1',)*' /? 5), ',-;. , 25',1' D*=-*.^ *2,' 8 ,)') ?' 2')*6+*2' 1-' 8)1.*' =-*.*2>*' 2',)*' 6/,6-' 6?' ,) ; .' >120*?2*0 J' 620')*' 86.' -*?1+*0' 656 2',1' =- .12¾ ' 86.' .112' 0 .>1+*-*0',)6,',)*' ,- ^ D;26/ D* 1-*' 8) >)' -62?*-')60' D**2' ,- *0' 86.' 21,' >1?=*,*2',,1' 0*>0*',)*'>6.*¾ ()*'=1=*' ..;*0' 6' -*.)' >1?? .. 12' 620' ,)*' =1=*' 6,' 1?*á,)' ?;..')6+*' D**2' 6' ?*-*' >, 12' 1 '=6=6/ /68 '6.' ,'86.' ?=1.. D/*' 1-' -62?*-',1' 1D* ¾ 2',)*' KR,)' 1 ' 1^ +*?D*-',)*' * 5), ' 06 .')60' */6=.*0' 620' 12',)1' ,)' 1 ' *>*?D*-')*' 86.' *L>1?? ;2 >6,*0' 620' 0*=- +*0' 1 ') .' D .)1=- >¾ ' /*,,*-' -1?',)*' =1=*' ℳ 6;/7 X' D*6- 25' 06,*',)*' ,)' 1 ' 1+*?D*-' 6 -? 25') ?',1' D*' >12,;?6> 1;.' D*>6;.*')*' ,119' 21' >6-*' ,1' 6=^ =*6-aJ' 6,' 1?*' 8)*2' >,*0' 620' 0*>/6- 25') ?' 5;/, ' 1 ')*-*. '620' 1,)*-'*21-? ,*.' 26// '>1? ?620*0') .' *L>1? ?;2 >6, 12¾ 2',)*' ,)' 1 ' *D-;6-E7 -62?*-' 86.' 0*5-60*0¾ 2' 6' *8' 06 .' 6 ,*-',) .') .' 1-,;,0* 56+*' 8 6 T)*' 1-.119') .' =- 2> =/*.' 620' 8-1,*' 6' -*^ >62,6, 12¾ ,' 86.' 1 ')1' 6+6 /',186-0.' ,)*' =-*.*-+6^ ,12' 1 ') .' / *¾ 2',)*' K ,)' 1 ' <6->)' ',)*' *+*' 1 ') .' *L*>;,12')*' 86.' + .,*0' D ' -¾ 1/*' 620' -62^ ?*-' .,6,*0',)6,')*' -*?6 2*0' -?' 2',)*' 6,)1/ >' 6,)' 6.')*')60' -*>*2,/E7=-1 *..*0' ,' 62' 62.8*-',)6,')6.' D**2' >12. 0*-*0' *_; +1>6/¾ 2',)*' 1//18 25' 06 ')*' 86.'/*0',1' ,¾ < 6- .' >);->)' 8)*-*' 6 ,*-' 62' *L)1-,6C ,12' D ' -¾ 1/*' -62?*-' 2.)*0') .' =- +6,*' 0*+1^ ,12.' 620',)*2' .1/*?2/ '600-*..*0',)*' =*1=/*' 1=*2/ ' =-1 *... 25') .' 6 ,)' 620' 6,'/*25,)' 0*>/6- 25' 18' >1?*',1',)1¾ 5-*6,',) 25',)6,',-1;D/*,)' ? '>12.>*2>*' ?1-*',)62' 62 '1,)*-',) 25',)6,' ' +*-' .6 0' 1-' 0 0' 2' ? '/ *'620',)6,' .',)*' .*,, 25' 6D-160' 1 '8- , 25.' >12^ ,-6- ',1',)*',-;,)' 8)>)' ',)1;5),' 2' ? ')*6-,' 620' 8-,' 1-' *6-' 1 '0*6,)' 620',1' .6+*' ? '/ *' ' ,' ? 5), D*' 620',)6,' .' 6// .;>)' D //.' 8)>)' ')6+*' 8-,,*2' 1-' .52*0' 8 ,)' ? 2*' 182')620' .2>*' ? ' 0*5-606, 12' 8)*-* 2' ')6+*' &-,,*2 I?62',) 25.' ;2,-;*¾ 20' 1-6.?;>)'6.' ? ')620'1 *20*0' 2' 8-, 25' >12,-6- ',1' ? ')*6-,',)*-* 1-*' ? ')620' .)6// -.,' D*' =;2.)*0' 1-' ' ' ?6 '>1?*',1',)*' -*' ,' .)6// D*' -.,' D;-2*0¾ 20' 6.' 1-',)*' =1=*' ' -* ;.*') ?' 6.')- .,.' *2*?A7 620' 2,>)-.,' 8 ,)' 6//) .' 6/.*' 01>,- 2* J' ()*' 6.^ .*?D/ ' 86.' 6.,12 .)*0T ,)*')60' .;==1.*0',)6,')*' 81;/0')6+*' >12 -?*0' 620' 21,' -*,-6>,*0') .' -*>62,6^ ,12¾ :*' 86.') ;-- *0' 686 ',1',)*' .,69*' 8)*-*'),110' ?1, 12/*.. ')1/0 25' ;=') .' - 5),')620' 620' *L^ >/6 ? 25' ;2, /') .' ;,,*-62>*' 86.' ., /*0¾ ()' .' ;2^ 81-,)')620G 1-0'B*.;.'-*>* +*' ?' .= - ,GJ -62?*-.' 0 / 5*2>*' 620' 6==/ >6, 12' 8*-*' ;2;.,6/T ')*' 86.' 0**=/ ' -*60' 2' ,)*1/15 ' 620' >6 12' /68 ' 620' 86.' 6? / 6-' 8 ,)I' :*D-*8' 4-**9' 620' 6, 2' 6.' 8*// 6.' -*2>)' 4*-?62' 620' ,6/ 62¾ :.' -*.*-+6, 12' -*^ .=*>, 25',)*' 16,).' 8)>)')*' .81-*' 8)*2' 6==1 2,*0' 6->)D .)1=') .' .;D.*-+ *2> ',1' : *2- ' ' 2' 622;/^ / 25') .' ?6-- 65*.') .' .)6-*' 2',)*' >120*?26, 12' 1 ' .1?*')*-*, >.') .' >120;>,'6,',)*' 0 .5-6> 25' 1 ' 122*-' 620' 46-0 2*-' 620',)*' 862,' 1 ' >1;-65*' 8)>)' ?60*') ?' -*>62,'6 ,*-') .' >120*?26, 12' 6-*' 5-*6,' D/1,.' 12') .' >)6-6>,*-¾ ;,' .)1;5)') .' >120;>,' 12',)*' .*' 1>>6^ . 12.' 86.' ?6-9*0' " ' 862,' 1 ' -?2*.. ' ,' >6221,' D*' 0*2 *0',)6,' -62?*-' 86.' . 2>*-*' ? /0' 620' ?10*-6,*' 620' 1-',)*' ?1.,'=6-,' 6' -?' ?621' 21-' .' ,',1' D*' 1-^ 51,,*2',)6,'=*-.*>;,12' 8)*' .)*' =1/ > ' 1 '6//' -/ 5 1;.' =6-,*.' 6,',) .' =*- 10¾ ' -62?*-' 86.' 2*,)*-' 11/' 926+*' 21-' 0*? 510¾ :*/ +*0' 2' 62' 65*' 8)*2' ?*2')60' 2**0' 1 '6//',)*' ,6>,' ,)*' >1;/0' ?;.,*-' 620')*=-1+*0') ?.*/ '=-;0*2,'620'/*6-2*0¾ :*' 86.' 12*' 1 ',)1.*' ;.* ;/=*-.12.' 8)1' 1P?*, ?*.' 6>_; -*' 2 /;*2>*' D ',)*' +*- '6D.*2>*' 1 '.,- 9 25' 620' 6-0*2,'_;6/ , *.C '

,)*' < */62>,)12' 1 ' 1 ;-' 25/ .)' * 1-?6, 12 ()*' 5-*6,*.,' 0* *>,' 1 ') .' >)6-6>,*-' 862,' 1 ' -?2*..' 8) >)')6.' -; 2*0' ?62 ' 6' ?62' 1 '5*2 ; .' 620' /*6-2 25 ' D '6'=*>;/ 6-'>1?D 26, 12' 1 '> ->; ?.,62>*. '.*>;-*0') .' 60+62>*?*2,' 620' 5 ; 0*0') ?' ,1' 1-.;2*' =1..*..*0' 5-*6,'6>;,*2*..T)*' >1;/0' 5*2*-6// '=*->* +*' 8)6,' 86.' D*.,' 6/.,)1;5) ')60' + 51-1;.' 6>, 12' D**2' -*^ _; -*0' 1 ') ? ')*' 81;/0')6+*' 6 /*0' ,1' 01' A;., >*' ,1' ,)*' >/*6-2*..' 1 ') .' + *8.' >;)' 6' ? 20' .' >1? ?12' *21;5) 1-.;26,*/ ' 1-' ,)*' ;.* ;/2*..' 1 ' -62?*-' ,)*' ,?*' -*_ ; -*0' 1 ') ?' / ,,/*' ?1-*',)62' ,1' 1//18') .' D*2,' 620' D*' ?10*-6,* : *' 86.' .;--1;20*0' D ' +*)*^ ?*2,'620' *L> ,*0' .= - ,.. ' 8)1' -*_ ; -*0' 6//,)*' -*..,-6 2,' 1 ') .',*?=*-6,*' 620' _; *,' >)6-6>,*-' 20' ,)*' .*' +*- ' ,-6 ,.' 1 ') .')6+*' ?=-*..*0' ;=12' ,)*') ->)' 8)>)')*' ?1;/0*0' 620' ;=12' ,)*' =;D/ >' 1 >*' 8) >)')*' 6.' =- ?6,*')60' ,)*' >) * ' .)6-*' 2' 0-68 25' ;= J' 6' .1-,' 1 ' >1?=-1? . 25' 620' ;2>*-,6 2' >)6-6>,*-' 8) >)')6.' 2*+*-' D**2' /1.,' ,' .',)-1;5)' -62?*-.' 2 /;' * >*',)6,',)*');->)' 1 ' 25/620' 6,',)*' =-*.*2,' 06 ' .' >6=6D/*' 1 '.)*/,*- 25' 6,' 12>*',)*' : 5)' 620' 18');->)?62',)*' $2 +*-.6/.,' 620',/*' 6/+ 2.,%J' : .' >-;*/ 0*6,)' 86.' 12*' 1 ',)*' ?1.,' ;2=1=;/6-' ?*6.;-*.' 1 ' <6- .' 51+*-2?*2,%' **' ,- =*' ' ' M L 1-0' Q 'K' +1/.' Q+1T' 6/.1' Q N' D ' 6-2*.' K' +1/.%' K?1' 620' Q '>6 !' # +1/.%' Q+1XT (100' ' ' 'M 120%' QN K' +1/.%' Q+1XT *' 6.' ' ' 'M 120%' QNN' K' +1/.%' K?1T' % % Q?1XT ;-2*,' # !' 5 'M=6.^ . ?XT' 4 /= 2'U V*' ' :'6 !' % 'M8) >)')6TA'D**2' -**/ ' ;.*0' =',)*' =-*=6-6, 12' 1 ',) .' 6-, >/*X% -62?*-.' 8-, 25.' 6-*' ., // 1 '+6/;*' 1-',)*1/15 '6.' 8*// 6.' 1-');->)') .,1-E% ' ;// /.,' 1 ',)*?' .' 5 +*2' D 'B*29 2.' 5 ' '& %!' 1' ' 'M L% QNN '+1/.%' Q+1X% ()*' ' 6-9*-' 1> *, J')6.' -*=;D/.)*0' -62?*-.' ' " ' ($ %% 'M 6?D% Q ' ?=%Q+1X'620').' 2' (1 ' ' 'M 6?D% Q S' ?=%Q+1X% -62,[' *' 1 . -! -6..;.'M4-.*> [*0')% 8' ;// ' <% > L .' $; .;-26?*0' ' 'M ,)*' >)JX' 12*' 1 ',)*' ?*?D*-.' 1 ',)*' -.,' 1?62',- ;?+-6,*' 86.' D1-2' 6D1;' % % ' 620' 6 ,*-' +6- 1;.' > + /' 620' ? / ,6- ' *2565*?*2,.' 12',)*',- ;?+-6/'>16/, 12' .,6-,*0' % % ' 6.' 51+*-21-' 1 ',)*' >12.;/6-' =-1+ 2>*' 1 ' A(6' M8)*-*')*' .;>>**0*0' 46D 2 ;.' B1.*=);.' & !' L +' S X' 12' 6'>6?=6 52' 656 2.,',)*' 6-,) 62.% 2').' 86 ')*' .,1==*0' 6,'B*-;.6/*?'M6>>1-0 25',1'B1.*=);.' 6-' ' Q' Q' 6/,)1;5)',)*' ..,6,*?*2,' .' >12 -?*0' D ' 21' 1,)*-').,1-62' 1 ',)*' ,?*.' 620',) .' >, '/6 '1 ') .' -1;,*X' 620' =/;20*-*0',)*' (*?=/*' 6.')*' 0 0' / 9*8 .*' ,)6,' 1 ',)*' 5100*..' *->*,1' 6,' : *-6=1/.' 2' - 6' M ,-6D1' L+ ' 2' 2%X% 2 6,;6,*0' D ' ,) .' .6>-/*5*' M - 0*6;L C7GHH7777X7'=,% X')*' =-1>**0*0' 12') .'>6?^ =6 52' 8) >)' *20*0' 2') .' 0* *6,' >6=,;-*' 620' 0*6,)' M 1' 6..' L/' K X% /;,6->)' 8-1,*' 6'/ *' 1' -6..;.% ' ? ,)' ' ' ' !' ; !'.% +% -6 ,7.' M =6-=>T ;/5% ,-62./6,*.' % 81' 51+*-21-' 1 ',)*' =-62.'M1') ' %X' 8)1' 86.'/* ' 2' >)6-5*' 1 ',)*' >6../*J' M-V,%C 0 >=181d 8>X' 1 'B*-.;^ .6/*?'MHX' 0;-25',)*' 6D.*2>*' 1 ' 1.,-6,;.' 2',)*'-* 52' 1 ' 2, 1>);.' =)62*.' MK' <6>>% +' KRX% ' ? ,) n% % -6,1' +12' -6 ,)* ?' I) E' (' '6' =-1?2*2,' -*=-*.*2,6, +*' 1 ' -1,*.,62, .?' 2' ;.^ ,-6' 86.' D1-2' 6,' -*./6;' 1+% KK R% ,',)*' $2^ +*-.,' 1 ' & ,.*2D*-5' ,1' 8) >)')*' 8*2,' 2' N %)*' / +*0' 1-' .L' *6-.' 2',)*')1;.*' 1 ' ;.)*-' 620' 8) /* ,)*-*' >1//*>,*0' ,)*' ?6,*-6/ 1-',)*' - " b +' ' 9 " 1' 8) >)' 86.' .;D.*_;*2,/ '=;D/.)*0' D ') .' - *20' ;- 6D*-% :*' D*>6?*' 6/.1' 2, ?6,*' 8 ,)' <*/62>^ ,)12' 8)1.*',)*1/15 >6/+*8.')*' 12',)*' 8)1/*' 601=,^ *O% $=12',)*' 60+ >*' 1 ' ;.)*-')*' /*,',)*'.;0 '1' ,)*1/15 ' 12' 6>>1;2,' 1 ') .' **D/*')*6/,)' 1-',)6,' 1 ' ?*0 > 2*% 2' S' D*Y76.' 6==1 2,*0' >, ' =) . > 62' 2') .' 26, +*' >,AI7' A -*./6;% : .' .;>>*.. ;/ =-6>, >* *.=*> 6// '0;- 25',)*' =-*+6/*2>*' 1 ',)*'=/65;*' 2' N' 620' 6' 2;?D*-' 1 '6D/*' 81-9. ' =-1>;-*0') ?' 6' 5-*6,' -*=;,6, 12' 620' 62' 6==1 2,?*2,' 6.' ?=*- 6/ =- +6,*' =) . > 62' M S X' 8) >)' =1. , 12')*' -*,6 2*0' 0;- 25' ,)*' -* 52' 1',)*' *?=*-1-.' *-0 2620' <6L ?/62' % 620' ;01/=)' % : *' / +*0' 6,',)*' ?=*- 6/ >1;-;1' ;.,- 6' -1?' SN,1' Q '86.' ?60*' 62' ?=*- 6/ >1;2^ >//1-' 620' 6' 21D/*?62' ;20*-',)*' 26?*' 1' -6,1' 1' -6 ,)* ?'620'-*>* +*0' -1?',)*' *?=*-1-' <6L ? / 62' 8)1' 86.' 6+1-6D/*',1' -1,*.,62, .?',)*'=- + /*5*.' 1 '6' ' 620' ?62 ' 1,)*-' =-11 .' 1 ' 6+1-% ,',)*>1;-,'1 ' ;.,- 6')*' 86.' 12*' 1 ',)*' ?1.,' [*6/1;.' 620' 2 /;*2, 6/ -*=-*.*2,6, +*.' 1 ' -1,*.,62, .?' 620' ,119' 6' /*60 25' =6-,' 2' ,)*' -*5;/6, 12' 1 ',)*' 6 6 -.' 1 ' ,)*' -1,*.,62,');->)% * 25' 6,' -.,' 6' ?10*-6,*' ;,)*-62' 1 ',)*' <*/62>,)12 62' .>)11/' 620' 62' *6-2*.,' 1==12*2,' 1 ',)*' *L>/;.+*' . .,*?' 1 ' /6> ;.')*' 5-60^ ;6// '*?D-6>*0',)*'+*8.' 1 ',)*' * 1-?*07');->)' 8 ,)I' ?62 '=-1?2*2,' ?*2' 1 '8) >)')*' 86.' 2, ?6,*/E' 6>,;6 2,*0% ,*-',)*' 0*6,)' 1 ' <6L ? / 62' M SX' ,)*' 2 /;*2>*' 1 ',)*' B*.;.' 1-'6'.)1-',' ?*' 1>>6. 12*0') .' 0.? ..6/ -1?',)*>1;-,' D;,' 2' Q)*' 86.'-*^ >6//*0% 2' SQ ',-*0' 1 '>1;-,'/*')*' 8 ,)0-*8' 1 ' <.' 182' 6>>1-0% 2' QN)*' -*,;-2*0',1' -*./6;'8)*-*')*'*L*-> .*0' 6' 5-*6,' 2 /;*2>*' ;=12',)*' >1;-,.' 1' >5C 2,[' -*5' 620')/6;% :*' 0*0' >,% R Q I' F ** 4 //*,' ' ' " ' ' '@ 'M -629 % QS 'K' +1/.%XT : *-[15' 5 A6 + %f' L L' NS% -6+*2.' " ' 6' >*/*D-6,*0' 620' *>>*2,-*' <*,)10.,' =.>1=6/?2.,*-' 86.' D1-2' 2' 1>9 25^)6?' 1;2, ' 6%' B;/' N S% 12+*-,*0' 2' R ')*' D*562',1'=-*6>)'6D1;,' Q '620' 1-' ?62 ' *6-.' 6.' 6' /1>6/ =-*6>)*-')1'.*-+*0',)*');->)' 2').' 26, +*' ..,6,*% :*',-6+*//*0'*L,*2.+*/' 8 ,)1;,' **' 1-'-*86-0' *+*- 8)*-*' =-10;>25'5-*6,'* *>,.' D ').' >1;-65*1;.' 0*2;2> 6, 12.' 1 '. 2% :*' 86.' 6' .,-*2;1;.' 1==12*2,' 1 './6+*- '620')6+ 25' *?62> =6,*0').' 182' ./6+*.' -*?1+*0',1',)*' & *..' 2' Q R')*/' 8 ,)' 6' ,)*' 6' +' S X' 12' 6'>6?=6 52' 656 2.,',)*' 6-,) 62.% 2').' 86 ')*' .,1==*0' 6,'B*-;.6/*?'M6>>1-0 25',1'B1.*=);.' 6-' ' Q' Q' 6/,)1;5)',)*' ..,6,*?*2,' .' >12 -?*0' D ' 21' 1,)*-').,1-62' 1 ',)*' ,?*.' 620',) .' >, '/6 '1 ') .' -1;,*X' 620' =/;20*-*0',)*' (*?=/*' 6.')*' 0 0' / 9*8 .*' ,)6,' 1 ',)*' 5100*..' *->*,1' 6,' : *-6=1/.' 2' - 6' M ,-6D1' L+ ' 2' 2%X% 2 6,;6,*0' D ' ,) .' .6>-/*5*' M - 0*6;L C7GHH7777X7'=,% X')*' =-1>**0*0' 12') .'>6?^ =6 52' 8) >)' *20*0' 2') .' 0* *6,' >6=,;-*' 620' 0*6,)' M 1' 6..' L/' K X% /;,6->)' 8-1,*' 6'/ *' 1' -6..;.% ' ? ,)' ' ' ' !' ; !'.% +% -6 ,7.' M =6-=>T ;/5% ,-62./6,*.' % 81' 51+*-21-' 1 ',)*' =-62.'M1') ' %X' 8)1' 86.'/* ' 2' >)6-5*' 1 ',)*' >6../*J' M-V,%C 0 >=181d 8>X' 1 'B*-.;^ .6/*?'MHX' 0;-25',)*' 6D.*2>*' 1 ' 1.,-6,;.' 2',)*'-* 52' 1 ' 2, 1>);.' =)62*.' MK' <6>>% +' KRX% ' ? ,) n% % -6,1' +12' -6 ,)* ?' I) E' (' '6' =-1?2*2,' -*=-*.*2,6, +*' 1 ' -1,*.,62, .?' 2' ;.^ ,-6' 86.' D1-2' 2' & *..>)*.,*-' 1;2,E' % % ' 2' S' 86.' >12+*-,*0' 2' : ' *2,*-*0',)*' , 2*-62,' ?2.,' 2')*' *8' 1-9 12*-*2>*' 2' QR' D*>6?*' .;=*-622;^ 6,*0' 2' Q R' 620' 0*0' 2' Q '65*0' 1+*-' 2 2*, ' *6-.% :*' 86.' '6' .1;20' 620' *6-2*..' =-*6>)*-' *?2*2,/ ' 6,) ;/620' =;2>,;6/' 6/86 .' >)**- ;/' 620'/+25',)*' -*/5 12')*'=-*6>)*0%J ' ! ' ' +' R% -*65)' 8 ' ' 6' <*,)10.,' =.>1=6/?2.,*-' 86.' D1-2' 2' ;D/2' 2' Q '620' 86.' >12^ +*-,*0' 6,' .L,**2% : .',;0*.' 2' 4-**9' 620' 6, 2' 8*-*'=;-.;*0' 6,' */6.,' 2' KK')*' >6?*',1' ?*-^ >6' 620' .112' D ') .' 60?-6D/*'_;6/,*.' 1' 2,*//*>,' 620')*6-,' 56 2*0' ?62 ' - *20.% :*' *2,*-*0',)*' ,2*-62,

? 2 .,- ' 2' ,)*' *8' 1-9' 12 *-*2>*' 2' QK ' 620' 1-' ,**2' *6-.' 86.' 2' 5-*6,' -*=:,*' 6.' 62' *6-2*.,' */1^ _;*2,' 620' .:>>*.. ;/ ? 2 .,*-% 1-' 1;-' *6-.')*' 86.' =-*. 0 25' */0*-' 620' 86.' 6' 0*/*56,*' ,1' ,)*' 4*2*-6/ 12 *-*2>*' 2' Q Q 620' Q K% -*>1-0' 2' ,)*' 9 ' .,6,*.',)6,' ')*' 86.' 6?125',)*' +*- 'D*.,' ?10*/.' 1 ' ? 2 .,*- 6/ *L>*//*2>*'6')1/ ' ?62'6' 6 ,) ;/=6.,1-' 6' 5*2*-1;.' - *20%J' : *' 0 *0'6,' & // 6?.D;-5) ' ;5% ' Q K!T ' ' 1' + ' K T =-65;*' & 1' + ' N % 7

-*6, 62 . ? % **' !

-*6, 12 % -*6, 12' .',)*'6D.1/;,*'D- 25 25' 2,1' *L .,*2>*' 1',)*' 81-/0' D ' 410% ,' .',)6,'6>,'1 ' 410' D ' 8) >)') *' .,620 25' D* 1-*' 620' 6D1+*' 6// ? ; 2062*' 620' 26,;-6/',) 25. ' ?60*' 620' 6--625*0',)*' ;2 +*-.*% ,'*?D-6>*.'*+*-E',) 25' 8) >)' .' 21,' 410% % -" ' 'U ' % ' 2' 1-0*-',1' 1-?' 6' =-1=4 >12>*=, 12' 1 ' 8)6,' >-*6, 12' .' 8*' ? ; .,' >12>*0*',)*' 6D.1/;,*' 0*=*20*2>*' 1 ',)*' 81-/0' ;=12' 410% & *' *--' 2' / ? , 25' ,',1',)*' ?*-*' D*5 22 25' 1 ',)*' 81-/0% ' .' -;*',)6,' ,' 86.',)6,' 0 + 2*' 6>,' D ' 8) >)' 6// 1D^ A*>,.' 8*-*' D-1;5),' 2,1' D* 25% ',)*-* 1-*' ..620.' 6.' ,)*' D*5 22 25' 1 ' 6// 0 + 2*' 1=*-6, 12' 2',)*' 81-/0' 620' 1 ',)*' ;2 +*-.6/ 0*+*/1=?*2,' 1 ',)*' 81-/0C% ;,' ,)6,' 410' >-*6,*0',)*' ;2 +*-.*' ?=/*.' 21,' 12/ ',)6,')*' 56+*' 6' D*5 22 25',1',.' *L .,*2>*' D;',)6,')*' >12, 2^ ;*.',)6,'*L .,*2>*' 620',)6,')*' .',)*' 12/ ' 1;2,6 2' 1 ',.' =-*.*2,' D* 25% ()*' 81-/0' .' 21,' .*/ C0*- +*0' 21-' .*/ C.;.,6 2*0T ,' .' 12/ ' -1?' 620' D ' 410',)6,',218' *L .,% 6,'>-*6, 12' .' 21,' 6' ?*-*' 6>> 0*2,' 1',)*' 0 ^ + 2*' >)6-6>,*-' 21-' 6',*?=1-6- ' ?1?*2,' 2',)*' 0 + 2*' / *' 21-' 62' ?=6-,6, 12' 620' ?62 *.,6, 12' 1 ' 410' 21-' 6' D/ 20' =6.. +*' 620' =6,)1/15 >6/*+1/;, 12' 1-' *?626^ , 12' 1 ',)*' 0 + 2*' *..*2>*' *,' ,' .' 410 .' 81-9' 6/12*' 620' 86.' 6.' ;2>12.,-6 2*0' 6.' 62 '1,)*-' 0**0'=*- 1-?*0' D ' 0 + 2*' =18*-% &)*2' 8*' .6 ',)6,' 410' >-*6,*0',)*' 81-/0' 8*' 21,' 12/ ' Z1 21,' 6 -?' D;,' 6>,;6// ' 0*2 ',)6,' 410')6.' ?=6-,*0') ?.*/ ' 620' =6..*0' 2,1') .' 182' 81-9% 410' .',)*' 6D.1/;,*' 1;20*-' 1 ',)*' 81-/0' 620')*')6.' 21,'=6..*0' 2,1' ,.' 26,;-*' D;',.,620.') 5)' 6D1+*' 6// ,)*' >120 , 12.' 1 '>-*6,*0' D ' 25% 1-' 8) /*' 1 '62 '1,)*-' 0 + 2*' 26,;-*% ' .' . ?=/ ' 410 .' 81-9' 620' ?62 *.,6, 12' ,' .' 6' >-*6, 12' 8) >)' .' -1?' D ' 620' 1-' 410% ()*;// 0*6' 1 '>-*6, 12' ?=/*.' ,)6,' 410' .',)*' 6D.1/;,*' ?=6-, 6/' 620' =*-.126/ =-, 8)1' 1 ') .' 182' -**' 8 // ' 56+*' *L .,*2>*',1',)*' ;2 ^ +*-.*% 2',)*' <1.6 >' 6>>1;2,' 1 ',)*' >-*6, 12' 8*' 20',)6,' ?652 >*2,',*., ?12 ' 1 ',)*' 6 ,)' 8) >)' -*>152 .*.' 410 .' >-*6, 12' 2' ,)*' .;--1;20 25' 81-/0' M>1?=6-*' : *D% L ' N' -" "' "' 1 ' " ' " ' "

1-' ?1-*' =/6>*.!' 620' ,) *. *' -65 ? *2,. ' 2' 1D*0 *2>*' ,1' ,) *' /68 .' 1 '5-6+ ,6, 12 ' D*>6 ? *' .=) *-*.' 1-' =/62*,. ' 6//' -*+1/+ 25' -1 ?' 8 *.,' ,1' *6..' 6-1 ; 20' ,) *' =6-*2,' ?6..% 21,) *-' - 25' 86.' 1-? *0' 2' / 9*' ?622*-' 620' 621,) *-' =/62*,' >6 ? *' 2,1' *L .,*2>*!' 620' .1' 12 ' ; 2, /',) *' 8) 1/*' .1/6-' . .,* ?' 86.' >1 ? =/*,*% >>1-0 25', 1',) . ' ,) *^ 1- '21,' 1 / ' ,) *' *6-,) ' D ; ,' 6// ',) *' =/62*,. ' *L . ,*0' D*^ 1-*' ,) *' . ; 2' 2' ,. '=-*. *2,' >120 , 12! 620',) ; . ' .1 ? *' 1 ' ,) *' . ; ==1. *0' 0 >; /, *.' 1 ',) *' <1.6 >' >1. ? 1512 '6-*' -* ? 1+*0' M < ` 6 ; /' & ' '@ "1' !' K K' K NX' 1-' ,' . ' ? =/ *0' 2', 2.',) *1- ',) 6,',) *' *6-,) ' *L . ,*0' D* 1-*',) *' . ; 2' D*>6 ? *' ,) *' /; ? 26- '1 ',) *' .A 7.,*?% 2' 1-0*-' ,1' 6-- +*' 6,' .1 ? *' >12>/;. 12')6-? 12 1 ; .' 6,' 12>*' 8 ,)' ,) *' -*. ; /,.' 1 ' ? 10*-2' .> *2>*' 620',) *7 6>>1 ; 2,' 1 ' <1.*. ' 8*' ? ; .,' 0*,*-? 2*' ,) *' ? *62 25' 1 ' ,) *' ,*-? .' 2' ,) *' D*5 22 25J' 620' 06 %J' ( ) *' : *D-*8' 81-0' 1-' D*5 22 25 J' I " "((8' . 2' ,) *' 1- 5 26/' 8 ,) 1 ; ' ,) *' 0* 2 ,*' 6-, >/*T .1' ,) 6,' 9/1.*.' -*6//7A!' .6E7.' " 2' " '"M21,' 2' " '-*.) ,) X' /1C D ?' >-*6,*0' ,) *') *6+*2.' 620',) *' *6-,) %J' ( ) *' *=,;C 65 2, ') 6/0**' 620' - 6>' +*-. 12.' >1--1D1-6,*' ,) *' 62, _; , '620' >1--*>,2*..' 1 ',) .' -*60 25% ( ) ; .',) *-*' .' 62' 20* 2 ,*2*..' 1 ',) *' , ? *' 1 '>-*6, 12% ,' ?6 ') 6+*' D**2' ? // 12.' 1 'A7*6-.' 651'A ; .,'6.' *6. / '6.',) 1 ; ^ .620. ' 1-',) *' : *D-*8' 81-0' .' 20* 2 ,*' 620',) *' +*-..*' -*60.' 2' .; D.,62>*',) ; .a' '1/0' 2' 1-? *-' 0 ; -6, 12' 410' >-*6,*0',) *') *6+*2.' 620',) *' *6-,) %J' -5; 25' -1 ?' 626/15 ' ?62 ' >12,*20',) 6,',) *' ,*-?' 06 J' 01*.' 21,' ?*62' / ,*-6// ' ,8*2, C 1 ; -') 1 ; -.% ( ) 6,' 81-0' 1 ,*2' . 52 *.' 2' ,) *' D/*' ; 20* 2*0' =*- 10.' 1 ', ?*' 6.',) *' 06 ' 1 ',) *' 1-0 J' ,) *' 06 ' 1 ' +*2C' 5*62>*%J' ,) 6,' 06 J' ( ) *' -.,' 06 ' 1 ',) *' 2 5),' .' 6-' .=*2,' ,), ' 06 ' .' 6,') 620 J' ( ) *' -.,' 06 ' 1 ' 62' 6/^ ,*-26, 12' 1 ' / 5),' 620' 06-92*..! D ; ,') 18' /125',) *' 2 5),' /6.,*0' 620') 18' /125',) *' 06-92*..' ; 2, /',) *' 2*L,' 0' 82 ' .' 21,' .,6,*0% ( ) *' 8) 1/*' , ?*' 1 ' / 5),' 2' 8) >)' 410 .' >-*6, +*' 81-9' =-1>**0*0') *' >6//*0' 06 J' 620',) *' 8) 1/*' , ?*' 1 ' 06-92*..') *' >6//*0' 2 5),%J' ,' 86.' 21,' 6' 06 ' ?*6. ; -*0' D ', *' =-*.*2>*' 1 ',) *' . ; 2 .' / 5),' 21-' 6' 2 5),' ?*6. ; -*0' /P' ,) *' 6D.*2>*' 1 ',) 6,' / 5),%' 1 ?=6-*' / ` 6 ; /' & ' '@ "' =% KN ' K S' K %X ( ) *' 26?*' '06 J' .' ,) *-* 1-*' -*56-0*0' 6.' 5 +*2' 21,' 6.' 6' ?*6. ; -*' 1 ' *L,*2, ' 8) >)' .' 6' /6,*-' 620' 6' . ; D1-0 26,*' 0*6 ' D ; ,' 6.' 0*21, 25' 6' 8120-1 ; .' =)*21 ?*212 ' ?6-9 25',) *' -.,' 5-*6,', -62. , 12 ' 620' >6// 25' ; =' ,) *' 0 ; 6/ >12,-6.,' 8) >)') 6.' *2,*-*0' 2,1' ,) *' >1--*.=120 25' 26 ? *' *+*-' . 2>*' 410' >6//*0',) *' / 5),' 06 ' 620',) *' 06-92*..') *' >6//*0' 2 5),%J' :*' >6//*0' ,' F '620' -1 ?',) 6,') 6.' >1 ? *',) *' /*. .*-' 26 ? ^ 25% & *' 218' 20 >6,*',) *' 5-60 ; 6/ ' 0*+*/1= 25' >)6-^ 6>,*-' 1 ',) *' >-*6, 12% ,' 86.' 21,',) *' 81-9' 1 '. L' 1-^ 0 26- ' 06 .' ?*6. ; -*0' D ', 8*2, C 1 ; -') 0 ; -. ' D ; ,' 6' .*- *.' 1 ' . ; =*-26, ; -6/ 5-18,) .' *L,*20 25' 1+*-' +6.,' =*- 10.' 1 ', ?*' M 1 ? =% -1 % (6 /*-' *8 . ' & "!' !' 5 ' =- / ' QS %X ,) *-.' ? 6 2,6 2',) 6, ' 8) /*' ,' .',-; *',) 6,',) *' 81-0' 06 J' M_% %X .' .1 ? *, ?*.' ; .*0' M*% 5# 2' -*/6, 12', 1' ,) *' 8) 1/*' >1. ? 15126/ =*- 10' 4*2% ' X' 2' 6' +65 ; *' .*2.*' 1-' 62' 20* 2 ,*' =*- 10' 1-' 1-' .1 ? *' .*,' 1>>6. 12' 8 ,) 1 ; ,' -*56-0',1' ,.' /*25,) ' .; >)' 6' . 52 >6, 12' 2' ,) *' -.,' >) 6=,*-' 1 ' 4*2*. .' .' *? =) 6, >6// ' 1-D 00*2' D ',) *' 1//18 25' *L=/ > ,' > ->; ? .,62>*.' .; DA1 2*0' 2' ,) *' >12,*L,' ,.*/ a' M X ( ) *' .*+*-6/ 0*? ; -5 >' '6-*' -*5 ; /6-/ ' 2 ; ? D*-*0 ' -., J' '.*>120 J' *,>%', //',) *' /6., ' ? 69 25' 62' *L6>,' 620' 1D+ 1 ; ./ ' / ,*-6/ 8**9% MKX' 6>)' .' 0 + 0*0 ' 2',) *' ; .; 6/ : *D-*8' .,/*' 2,1' 2 5),J' 620' ? 1-2 A5 J' >12., ,; ., 25' ; 201 ; D,*0/ ' 6' B* 8 .)' 8 1 8 % 1' 1-' " = = ' / 9*',) *' ? 10*-2' =)-6.*' ,8*2, C 1 ; -') 1 ; -.% J' MNX' (1' =-*+*2,' 6// ? .^ >12>*=, 12' ,) *.*' 6/,*-26, 12.' 1 ' / 5),' 620' 06-92*..' 6-*' 0 ., 2>,/ ' >6//*0' 2',) *' .6 ? *' >122*>, 12' C 2 5),J' 620' 06 %J' M X ( ) *' 2., ,; , 12' 1 ',) *' 6DD6,)' .' D6.*0' ; =12',) *' >1--*.=120*2>*' D*, 8**2',) .' 620' *6>)' 1 ',) *' . L' =-*>*0 25' 06 .' 2' =1 2,' 1 '/*25,) % (1',) *.*' =) /1/15 >6/' 620' *L*5*, >6/' >12. 0*-6, 12. ' -*_; - 25',) *' 81-0' I ',1' D*') *-*' ,69*2' 2' ,.' .,- >,/ ' / ,*-6/ .*2.*' 6.' 62' 6>, ; 6/' 1' ? 5),' D*' 600*0' 1,) *-.' 0*- +*0' -1 ?' .> *2, >' 2+*., 56, 12.% M **' : ,>) >1>9 .' 6 9 ' ? ' NO' *O% ' =% KQN' ._% ' 620',) *' 6-, >/*' 1. I < 4 %X ' 6 ' ' ! ' ( ) *' <1.6 >' 6>>1 ; 2,' -*>15^ 2 .*.' 2' >-*6, 12', 81' 5-*6,' *-6.' 1 ',) -**' 06+.' *6>) ' ' 62' ' 620' 62', ! 6>) ' 1 ',) *.*' 1=*2.' 8 ,) ',) *' 6==*6-62>*' 1 ' / 5),a ,) *' -.,' / 5),' >1. ? >6/' ,) *' .*>120 ' / 5),' -1 ?',) *' .; 2' 1-',) *' .=*> 6/ ; .*.' 1 ' ,) *' *6-,) % 6>) ' *-6' *20.' 2' 6' 06 ' 1 ', 81' 5-*6, ' 8 1-9.' ,) *', 81' .) 182', 1' D*' 0 ., 2>,' D ' D* 25' .*+*-6// ' =-1^ 21 ; 2>*0' 5110%J' 2',) *',) -0' 06 J ',) 6,' >/1. 25' ,) *' 21-562 >' *-6 ',) *-*' 86.' -.,',) *' 0 + 0 25' 1',) *' /620' -1 ?',) *' 86,*-. ' 620' 6 ,*-86-0.' .) *' >-*6, 12' 1 ' +*5*, 6, 12 ' 1-',) *' 2., ; , 12' 1 ' 6' 9 2501 ?' 1 '/ * ' 6' 81-9' 8 0*/ ' 0 +*-.*' -1 ?' 6// =-*>*0 25' , 2',) *' *-6% 1' 12',) *' . L,)' 06E ',*-? 26, 25',) *' -562 >' *-6 ',) *-*' 86. ' -.,',) *' >-*6, 12' 1 ' ? 6 ? ? 6/. ' 620', * ' 6' .*>120' 6-' 5-*6,*-' 81-9' ,1, 6// ' 2*8' 2' ,.' 5-620*.' */*? *2, ' ,) *' >-*6, 12' 1 ' <62% & *') 6+*' ,) *2',) *' 1//18 25' 6--625*? *2, T % -" ' ' 6 ! ,' 6 % ' 5), ' MF6? >6% K\' O % ' ( ) *' *6-.,)' 0 + 0*0' -1 ?', / *' /; 0' 6-1 ; 20', ' 1-' 2^ 0 + 0 ; 6/ [*0% #& ' V' ; ./ 2 25' 1 ',) *' /620' 620' 86,*-' 06' Y ' % -*6, 12' 1 ' +*5*, 6, 12% % -" ' , ' 6 ,) ' 6 %7 5), ' -1 ?',) *' . ; 2%) .) ' 6 % ' -*6, 12C1 ',) *' /18*-' 1-0*-.' 1 '62 ?6/.% E', C' -*6, 12' 1 ' ? 6 ? ? 6/.% 4,) ' 6 %C "5 1-*6, 12' 1 ' <72% 2' 600, 12 ',) *' /6.,' 06 ' 1 ' *6>) ' *-6' 2>/ ; 0*0' 12*' 81-9' , = >6/' 1 ',) *' *-6/' 620' 621,) *-' -*/6,*0' ,1', 2' *..*2^ , 6/ =1 2,.' D ; ,' 6/.1' =-1=) *, >% *5*, 6, 12' 8) /*' 1-' =) . >6/'-*6.12.' 6' =6-,' 1 ',) *' >-*6, 12' 1 ',) *',) -0' 06 ' 86.' 6/.1' =-1=) *, >' 1 ',) *' ; , ; -*' -562 >' *-6' 2' 8) >)') *' =-15-*..' 1 '/ *' 86.',) *' 5-620' >) 6-6>, *-. , >% ( ) *' -*>1-0' 1 ' <1 **.' ,) ; .' 6>>1-0.' 8 ,)' ,) *' ; 206 ? *2, 6/ =- 2> =/*' 2') .,1- ',) 6,',) *' >) 6-6>, *-. , >' 1 '62' 65*') 6.' ,.' D*5 22 25.' 8 ,) 2',) *' 65*' =-*>*0 25% 1' 656 2 ' ? 62 ' 8) /*' / 9*' 1,) *-' ? 6 ? ? 6/.' 2' % .,-; >, ; -*' *+*2',1',) *') 1 ? 1/15 *.' 1 '*+*- 'D12*' 620' ? ; .>/*' 86.' *2018*0' 8 ,)' 6'. = - ,; 6/ 26, ; -*' 8) >/' /119*0' 1-86-0',1' 621,) *-' *-6 ',) 6,' 1 '. = - ,; 6/ *L .,*2>*% B ( )*' .* C D@(06 J' 7,)* 06 ' 1 '-*.,' -1 ?',) *' 81-9' 1 ' >-*6^ , 12 ' .' ? 62 9 =*- 10' 1 '=-*=6-6, 12' 1-',) 6,' 2*8' *L^ .,*2>*' 620',' .' ,1' =-1 ? 1,*' ,) .' .=*> 6/ *20',) 6, ' 2' .,- >,' =6-6//*/ . ? ',) *' 6DD6,)' 1//18.' ? 62 .' . L' 06 .' 1 ' 81-9% 3 1 ? *' ' 2,*-=-*,*-.' >12,*20' ,) 6,' ,) *' 8) 1/*' 6>^ >1 ; 2,' .',1' D*',69*2',15*,) *-' ,) 6,',) *' 06 .' 6-*',1' D*' ; 20*-.,110' 6.' / ,*-6/ 06 .' D ; ,' ,) 6,',) *' 8) 1/*') 18^ *+*-' .' ,1' D*' 2,*-=-*,*0' 6.' -* *-- 25',1' 6' ?1-*' -.*^ ?1,*' =*- 10',) 62' .' >1 ? ? 12/ ' ?65 2*0' 620' 6.* .21,' 2,*20*0',1' 0*.>- D*',) *' ' .=*> *.' 1 ' =/62,.' 620' 62 ?6/. ' D ; ,' +6- 1 ; .' 1,) *-' .=*> *.' 218' *L, 2>, ' 8) >)') 6+*' D**2' D ' 4 ' >12+ ; /. 12.' 1 ' 26,, ; -*' / 0*^ .,-1 *0' 8) /*' 1,) *-.') 6+*' D**2' .; >>*.. +*/ ' D ' -*.) ' 6>, .' 1 '>-*6, 12' 2,-10 ; >*0' 2',) *' -' =/6>*%J ' 21,) *-' 2,*-=-*, 6, 12 ',) 6,' 1 ' -*B% *' ? ,) ' 2') .' +1/ ; ? *' 12' ,) *' 5 ' $ % ' ' ? 9 ' *, >% ' .' D- * / ' ,) .a ,) *' .*=6-6, 12' 1 ',) *' -.,' +*-.*') 1' 601=,.' 6.' 6D1+*a ,) .' -* *-.',1',) *' 1-5 26/' ; 2 +*-.6/ >-*6, 12' 620' 2',) *' +6.,' ; 20* 2*0' 2,*-^ +6/ 62' 6/ ? 1.,' ; 2/ ? ,*0' .*- *.' 1 ' >) 625*.' 2',) *' .,-; >^ ,; -*' 620' =-10 ; >,.' 1 ',) *' *6-,) ' ? 6X') 6+*', 69*2' =/6>*% ,*-' , / .' 6,' 6' >1 ? =6-6, +*/ ' -*>*2,' *=1>) ' 6' % 2 +' 1 ',) *' *6-,) .' .; - 6>*' 86.' D-1 ; 5),' 2,1' 6' ..6,*' 1 ' 0 .1-0*-' -; 2' 620' 1D.>; -6, 12' 1 ; ,' 1 ' 8) >)' ,) *' >-*6, 12' 1 ',) *' *L .,25' .=*> *.' 1 ',) 25% .' 8 ,' ,) *' -*^ >6// 1 '/ 5),' 620',) *' -*..,1-*0' =-*.*2>*' 1 ',) *') *6+*2/ ' D10 *.' ,119' =/6>*' / .*-6// ' 6>>1-0 25',1' ,) *' <1.6 >' 26--6, +*' 2' . L' 26,, ; -6/ 06 .%J 6../ ' 1,) *-.') 6+*' ,) 1 ; 5),' ,) 6,' ,) *' 8) 1/*' 0<% .>- =, 12' ? ; .,' ,* ,69*2' / , *-6//E' 6.' ,' .,620.' D ; , * ,' ' 1 ; 20' >12,-60 >,*0' D ' 6>,.' ?6 ' 8 ,) 1 ; ,' + 1 I

was made subject to vanity, not willingly, but by reason of him who hath subjected the same in hope; because the *creature* itself also shall be delivered from the bondage of corruption, into the glorious liberty of the children of God. For we know that the whole *creation* groaneth, and travaileth in pain together until now," in which also the expression creature is used to designate the totality of mankind. This is first indicated by the γάρ in verse 18, which brings forward in behalf of the λογίζομαι which rests on it, that "all mankind takes part in this aspiration and in the hope of future glorification." In ver. 23, Christians, as *part* of humanity, are set over against the *whole* of it. We cannot here place Christians in contrast with the *inanimate* creation, and overlook entirely the non-Christian part of mankind, to whom a vague longing after the glorious freedom of the children of God could be better attributed than to inanimate nature. Paul nowhere speaks of a "change" or glorification of the earthly abode of men; this δόξα is exclusively reserved for man (1 Cor. xi, 35–50).—Krehl, *N. T. Handwörterbuch;* see also Ellicott, *The Destiny of the Creature*, 2d. ed. 1862; *Journal of Sacred Literature*, Oct. 1862, p. 27.

The LIVING CREATURES spoken of in Ezekiel x, 15, 17, 20 (חַי, *chay, alive;* the ζῶον of Revelations v, vi, sq., improperly "beast"), are imaginary or composite beings, symbolical of the divine attributes and operations, such as were common in the

Ancient Oriental composite Winged Figures: 1. Egyptian; 2. Assyrian.

mythological representations of all antiquity. See CHERUB.

Credence-table, or CREDENCE, a table beside the altar, on which the cup, etc., are placed in the celebration of the mass. Du Cange says that the word *credentiarius* means *prægustator*, one that tastes beforehand, and the reference seems to be to an ancient court-practice, performed by cup-bearers and carvers, who were required to taste the wines and meats which they presented (*securitatis gratiâ*), to insure the safety of the monarch. The Italian word *credenziéra* has the same meaning. Hence also the *credentz-teller*, credence-plate, on which cup-bearers *credenced* the wine, and which means generally a plate on which a person offers anything to another; *credenz-tische*, credence-table, a sideboard, a cupboard with a table for the purpose of arranging in order and keeping the drinking-apparatus therein. Credences were common in ancient churches. In the Liturgies under the names of Chrysostom and St. James we meet with the words πρόθεσις and παραπράπεζον. In the *Ordo Romanus* the names *oblationarium* and *prothesis* occur, and one is made the explanation of the other. We meet also with the word *paratorium*, because when the offerings were received, preparation was made out of them for the Lord's Supper. In many instances the place of the credence-table was supplied by a shelf across the piscina: this shelf was either of wood or stone, and is to be found in many old churches. The use of *credence-tables* is one of the restorations of obsolete usages which have marked the so-called Puseyite movement in England.—Farrar, *Eccles. Dict.* s. v.; Coleman, *Ancient Christianity.*

Credence-table.

Creditor (נוֹשֶׁה, *noshek'*, a *lender*, 2 Kings iv, 1; Isa. l, 1; elsewhere "extortioner," "usurer," etc.; מַשֶּׁה, *mashsheh'*, *debt*, Deut. xv, 2; δανιστής, a *lender*, Luke vii, 41). See DEBT; LOAN.

Credner, KARL AUGUST, was born Jan. 10, 1797, at Waltershausen, near Gotha. He studied at Jena, Breslau, and Göttingen. In 1830 he became professor extraordinary of theology at Jena, and in 1832 obtained the appointment of ordinary professor at Giessen. He died in 1857. Among his numerous writings are, *Der Prophet Joel übersetzt u. erklärt* (Halle, 1831):—*Beiträge z. Einleit. in die biblischen Schr.* i:—*Die Evangelien der Petriner oder Judenchristen* (Halle, 1832, ii):—*Das alttest. Urevangelium* (Halle, 1838):—*Einleit. in das N. T.* (Halle, 1836):—*Zur Gesch. des Kanons* (Halle, 1847; new edition by Volckmar, with additions, Berl. 1860):—*Das N. T. für denkende Leser* (Giess. 1841–43, 2 vols.). Credner was one of the chief representatives of the Rationalistic school in Germany. In many of his works his theological views are but little apparent, and these, especially his *Einleitung*, are generally valued by theologians of all schools for their vast amount of information. In some of his later works, however, he shows himself a very determined Rationalist. Credner took also an active part in the religious controversies of his time, publishing a number of books in defense of the rights of the Rationalistic party to remain in the state church, and to enjoy liberty of preaching and teaching (*Die Berechtigung der protestant. Kirche Deutschlands*, 1845; *Asterisken*, 1847; *Die sittlichen Verirrungen*, etc., 1853). Credner also contributed many articles to German periodicals, and to Kitto's *Cyclopædia of Biblical Literature*.—Herzog, *Real-Encyklop.* xix, 366.

Creed (*credere*, to believe), a form of words in which articles of *belief* are comprehended; not necessarily a complete summary of the faith, but a statement respecting some points which are fundamental, and have been disputed. See CONFESSION. For instance, while the doctrine of the *atonement* must be reckoned a fundamental part of the apostle's doctrine, it is yet not in the Apostles' Creed *as* a doctrine. Hence some infer that it was not *believed*, though the more obvious inference would be that it was not *disputed* (Eden, s. v.)

1. In the early Eastern Church a summary of this sort was called μάθημα, *the lesson*, because the catechumens were required to learn it. Sometimes, from the nature of its contents, or the uses to which it was applied, it was called σύμβολον, *symbolum*, a mark, token, or badge, as a seal-ring—the proof of orthodoxy; sometimes κανών, *regula fidei*, the rule, or the

-;/*' 1 ' 6 ,)† 7- 2>' R"1' "': % '1-') ' ' ' % ' '" ' "!' ()*' 81-0' %1 O 'I " 1' + 81' 8)*,)*-' D1--18^ *0 ' 6.' .1?*' 1 ',)*' 6,)*-.' 6..*-,' -1?' ? / ,6- ' /62^ 5;65*' 1-' 6.' 1,)*-.' 6..*-,' -1?' ,)*' . 52.' 1 '-*>152 ^ , 12' 2' ; .*' 6?125',)*')*6,)*2' 2',)* -' ? .,*- *. ' 0*^ 21,*.' 6' ,*.,' 620' 6' .) DD1/*,)' ()*-*D ' *6>)' >);->)' ?6 '9218' ,.' 182 '620' .' > ->;/6,*0',)-1;5)' ,.' ?*?^ D*-.' 6.' 6' 86-2 25' 656 2.',)*' .26-*.' 1 ' *2*? *.' 1-' 6/.*' D-*,)-*2J M : 20. ' 6 ' " 1' =,' >)' ; ' < 62 ' >12 *.. 12.' 1 ' 6 ,)' 6-*' ,1' D*' 1;20 ' 2*6-/ ' >1--*.=120 25' 8 ,)' ,)*' >-**0.' 8) >)' 8*' 218' =1..*.. ' 2',)*' 8- , 25.' 1 ',)*' *6-/ *.,' 6,)*-.' 1-' *L6?=/*' 2' B;., 2' <6-, -' -*2.;.' (*-,;// 62 ' - 5*2 ' =^ - 62',)*' =1.,1/ >' 12., ;,, 12.' M> ,*0' 2' & 6// ' 12' 9 ' ; % 1' ' =,' ' >)' L ' g ' =' NR' 620' 2' 25)6? ' D9' L ' >)' +X' & *')6+*' 6/.1' >-**0.' 1 ' .*+*-6/ 0 *-*2,'>);->)*.' =-*.*-+*0',1';. '65-** 25' 2' .;D.,62>*' D;,' ./ 5),/ '+6- 25' 2' 1-? ' 6.',)*' >-**0.' 1 'B*-;.6/*? ' 6*.6-*6' /*L620- 6 ' 2, 1>) ' _;/* 6 ' *,>' M.*+',)*' ?' 2' 25)6? ' /%7>%X' ;',' 2,/',)*' , ?*' 1 ',)*' 1;2>/ 1 ' >*',)*-*' 01*.' 21,' 6==*6-',1')6+*' /7** ' 62 ' 12*' =6-, >;/6-' >-**0' 8) >)' =-*+6 /*0' ;2 +*-^ .6// ' 2' *L6>,/ ',)*' .6?*' 81-0.' 620' >1? ?*20*0' D ' ,)*' .6?*' ,2 +*-.6/ 6;,)1- , J' M -182*' , ' " ' -" ' & ' 6-,' + X' .' 1-',)*' " ' 1 ' >-**0.',)*' -1,*.,62,' 01>^ ,-2*' .',)6,',)*' >-**0' ?6 ' D*' ' M.,620^ 6-0' 1 '01>,- 2*X' D;,',)6,',)*' D/*' 6/12*' .' (' M-;/*' 1 ' 6 ,)X' 1' -' : ' ? ,)' I ' ' " ' 2 8' .=*69 25' 1 ',)*' & *.,? 2.,*-' 12^ *.. 12' .6 .' ' & *' -*>* +*' ,)*' 12 *.. 12' 21,' 6.' 6' -;/*' 1 ' 6 ,)' 620' / *' 1-',) .' 12/ ',)*' >- =,;-*.' >62 D*' D;,' 6.' >12,6 2 25' 1;-' . .,*?' 1 ' 6 ,) ' 2' >12,-6.,' 8 ,)' -? 2 62 .?' 620' */65 62 .?' 6.' 8*// 6.' 1> 2' 62 .?' 620' 1?62 .?' & *' 6>>*=,' ,' 2' ,.' /*5 , ?6,*') .,1- >6/ .*2.*' 6.' ;20*-.,110' 620' 2,*-=-*,*0',)-1;5)' ,)*') .,1- ' 1 ' 1 ;-' >);->)' %%%%' 620' 6.' '>12,6 2 25',)*' . .,*?' 1 ' 01>,- 2*' ,6;5),' 2' ,)*' : 1/ ' >- =,;-*.%' < ' / D*-, ')*-*' .' 21,' ,1' D*' A;05*0' 1 ' 621,)*-' ?62 .' >12.> *2>*%' 2 ' 1,)*-' + *8' 21,' 12/ ' =;,. ' 1-' 6// =-6>, >6/ =;-=1.*. ' ,)*' 12 *.. 12' 6D1+*' ,)*' >- =^ ,;-*. ' D;,' 6/.1' =;,.' .1?*D10 .' ,)*1/15 >6/ . ..*?' 6D1+*',)*' 12 *.. 12%J' ()*' *L=*- *2>*' 1 ',)*');->)')6.' 6,,*.,*0',)*' +6/;*' 1 '>-**0.' 6.' .,6206-0.' 1 ' 01>^ ,- 2*%');->)*.' 8 ,)1;,' >-**0.' M*%5% ,)*' 1>*,EI7 1 ' - *20.X')6+*' D**2',1-2' D '01>,- 26/ 0 ..*2. 12.' _;,*' 6.',)1-1;5)/ '6.',)1.*' 8) >)')6+*' 601=,*0' >12 *.. 12.' 1 ' 6 ,)%' ** ! K' ()*' -.,' 1DA*>,' 1 ' >-**0.' 86.' ,1' 0 .,25; .)',)*' 6.>*20 ,' 60' >.*/1.' .*0*,' 0*60')*677*20*0' 2,1')*6+*2 ' 60' 0*L,*-6?' *' 6,- .' 1?2 C 620' . .*,)' 12' ,)*' - 5),')620' =1,*2, .' 20*' +*2,;-2.' .',A;C 1 ' 410',)*' 6,)*-' /? 5), ' 0 16-*' +1.' *,' ?1-',1.%' -*^ -1?' ,)*2>*' ,)*' .)6// >1?*' 1' 01' 2' = - ,;' 62>,' ?' 62>,;' ?' 1 .62>C A;05*',)*' _;>9' 620',)*' 0*60%' ,6 ?' *>>/*. 6?' >6,)1/ >6-6' B' D*/ *+*' 2',)*' : 1/ ' 4)1.,' .62>,1-;?' >1? ?;2 12*?' -*C ',)*')1/ ' 6,)1/ >');->)',)*' ? : .=2*?' =*>>6,1-;?' >6? .' >1? ?;2 12' 1M.6 2.,' ,)*' 1-^ -*,;--*>,12*?' *,'+ ,6?' .*,*-C 5 +*2*.' 1 ' 2.' ",)*-*.;--*>^ 26?%' ?*2% .12' 1',)*' D10 ' 620',)*' / * *+*-/6.,25%' ?*2% ' ,' .')*/0'D ' ?62 '8-.,*-.' 1 ',)*');->)' 1 ' 1?*,)6,',) .' >-**0' 86.' >1?=1.*0' D ',)*' 6=1.,/*.',)*?^ .*/+*.' 8)1' 0;-25',)*' -' .,6 '6,'B*-;.6/*?' .112' 6 ,*-' 1;-' 1-0 .' 6.>*2.12' ;20*-',)*' 5; 062>*' 1',)*' : 1/ ' = - ,'65-**0';=12' ,'6.' 6' -;/*' 1 ' 9 ,)' 620' 6.' 6' ?6-9' 1 ' 0 .,2>,12' D ' 8)>)',)* ' 8*-*',1' 9218' - *20.' -1?' 1*.%' ; 2;.' .6 .' M6D1;,' ' %' ' 2') .' 6 % ! $ GXd ' ()*-*' 86.' 62' 62> *2,' -60 ,12',)6,',)1' 6=1.,/*. 3D* 25' 6D1;,' ,1' 0*=6-,' -1?' B*-;.6/*?' -.,' .*,,/*0' 6' -;/*' 1-',)*' -' ;,;-*'=-*6>) 25' /*.,' 6 ,*' ,)*' 8*-*' .*=6-6,*0' -1?' *6>)' 1,)*-',)*' 1,)/0' *L=1.' 20' 0 *-*2,' 01>,- 2*.',1' ,)1.*' 8)1?' ,)*' ? 2+ ,*0',1',)*')- ., 62' 6 ,)%' &)*-* 1-*' D* 25' 6// 6..*?D/*0',1^ 5*,)*-' 620' //*0' 8 ,)',)*' : 1/ ' 4)1.,',)* ' >1?=1.*0' ,) .',)1-;-;/*' 1',)*' -' =-*6>) 25' *6>)' 12*>12,-' D;,' 25') .' .*2,*2>*' 620' /* ,' ,' 6.' 6' -;/*',1')*' 5 +*2',1' 6// D*^ / *+*-.J' M : 6-+*' 6 !' & !' N ' ' S ' 25^)6?' , !' 6 'D9' L ' >)' X' I

K% ' 8- ,*-' ;20*-',)*' 26?*' 1 ' ;5; ., 2*' =-*,*20#' ' ' + '&% ((' K'Q+1X' 6-C ,1',*//' ;.' 8)6,'6-, >/*' 86.' >12,- D;,*0'D ' *6>)' 6=1.P -18 ' 6 % ' ' '" ' 1' &1-9.' +1/% ' *6-.12 ' 6 % ' ' '" ' 'M?62 ' *0 , 12.' ,)*' D*.,' 6-*' 1D.12 . ' 120% Q 'Q+1'8 ,)' 62'6==*20 L'>12,6 2^ 25',)*' =- 2> =6/' 4-**9'620' 6, 2' >-**0.' 6 "0' ;-^ ,12 .' L 1-0' Q 'K'+1/.%Q+1X' & ,. ;.' ' '# " ' &% 2' 1' 4)1.,'D1-2'1',)*' -5 2' <67E7J') / =' ; *-*0' ;20*-' 12, ;.' /6,*' 86.' >-;> *0' 0*60' 620' D;-^ *0%J' ()1?6.' ' :*' 0*.>*20*0' 2,1')*//' ,)*' ,) -0' 06 ')*-*' 656 2' -1?',)*' 0*60*0' 6-,)1/1?*8 ' : *' 6.>*20*0' 2,1')*6+*2' 620' . ,,*,)' 6,',)*' - 5),')620'1'410',)*' 6,)*-' /? 5), %J' <6,,)*8' -1?C ,)*2>*')*.)6// >1?*',1'A;05*',)*'_; >9'620',)*'0*60%J' B6?*.' ,)*' .12'1' /=)1*;.' 600*0' ' D*/ *+*' 2' ,)*' : 1/ ' 4)1.,' ,)*')MF/ ' 6,)1/ >') ;->)%J' ?12'U*C' /1,*.' ()*' >1?7?;2 12'1'.6 2,.' ,)*' 1-5 +*2*..' 1 ' . 2.%J' B;0*' ,)*'D-1,)*-'1'B6?*.' ' ()*'-*.;--*>, 12' 1',)*'D10 %J' <6,,) 6.' ' ()*/ -* *+*-/6., 25%J' 20' 6>>1-0 25/ ',)*' >-**0' 86.' >6//*0' $ " ' &% 2' 1'6.'D* 25'?60*' ;='1',*2,*2>*.'A1 2,/ '>12,- D;,*0' 6 ,*-',)*' ?622*-' 1'=*-.12.'=6 25'*6>)',)*-' .)1,'1-' .)6-*1',)*-*>912 25% ;',) .'0*- +6, 12'1D+ 1;./ ' >12 1;20.',)*'81-0'I %*$ O '8 ,)'I $ O G! % ,' .'218'5*2*-6// '60? .,*0',)6,',)*' >-**0' 2' =-*.*2,' 1-?' 6,' /*6.,' .' 21,%1 '/6,*-' 06,*' ,)62',)*' 1;-,)' >*2,;-E7' !' * ,)*-' ;9*' 2',)*' >,.' 1',)*' =1./*.'21-'62 '*>>/*. 6.,>6/' 8-,*-'D* 1-*',)*' ,)' >*2,;- ' ?69*.' ?*2, 12' 1'62' 6..*?D/ '1',)*' 6=1.^ ,/*.' 1-',)*'=;-=1.*'1' 1-? 25'6'>-**0' !' ()*' 6,)*-.' 1',)*' -,',)-**' >*2,;-*.' 2' 0 .=:, 25'656 2.',)*-*^ ,>.' *20*6+1-',1'=-1+*',)6,',)*'01>,- 2*.' >12,6 2*0' 2' ,) .'>-**0'8*-*',6;5),'D ',)*' 6=1../*.'D;',),)*' '2*+* %=-*,*20',)6,',)*' 6=1../*.' >1?=1.*0' ,% >% : 60',)*' 6=1../*.' >1?=1.*0' ,' ,' 81;/0')6+*' D**2',)*' .6?*' 2' 6// >);->)*.' 620' 65*.% ;',' .' _; ,*' 1,)*-8 .*% <62 '>-**0.'8*-*'*L,62,' 2',)*' 1;-,)'>*2,;- '8) >)' 0 *-*0'21,'12/ ' 2',)*',*-?.'),;,'6/.1' 2',)*'6-, >/*.'! .1?*' 1? ,,*0' 2' 12*' 8*-*' 2.*-,*0' 2' 1,)*-.' .;>)' 6.' ,)*' 0*.>*2,' 2,1')*// J',)*' >1?7;2 12' 1 '.6 2,. J' 620' ,)*/ *'*+*-/6., 25%J % ,' .' 6/?1.,' ?=1.. D/*' 218',1' 6.>*-,6 2',)*' 6;^ ,)1-.)=' 1',) .' >-**0' .,' 62, ; , '?6 ')18*+*-'D*' 2 *--*0' -1?',)*' 6>',),)*' 8)1/*'6.' ,'218',.620.' 8 ,)',)*' *L>*=, 12'1')*' 0*.>*20*0' 2,1')*// J' ?6 ' 3D*' 1;20' 2',)*' 81-9.' 1' ?D-1.*' 620' ; 2;.',)*' 1-?*-' 1'8)1?' /1;- .)*0' 2',)*',) -0' >*2,;-A' 620' ,)*/6,,*-' 2',)*' 1;-,)% % 2' *6-/ '65*.' ,' 86.' 21,' 60? ,,*0' 2,1',)*' ,^ ;-5 ',)1;5)' >6,*>);?*2.' 8*-*' -*_; -*0',1' ;D.>- D*' ,' D* 1-*',)*' 8*-*'60? ,,*0',1'D6=, .?% ()*';.*' 1 ',' 2' =;D/ >' 81-.) =' 86.' -.' 2.,;,*0' 2',)*' 4-**9') ;->)' 6,' 2, 1>)' 620' 2,-10;>*0' 2,1',)*' 1?62') ;->)' 2',)*'*/*+*2,)'>*2,;-E '8)*2>*' ,'=6..*0' 2,1' ,)*'.*-+ >*' 1',)*');->)' 1' 25/620'6,',)*' * 1-?6^ ,12% ()*' &*.,? 2.,*-'0 + 2*.' .;DA1 2*0' ,' 6/125' 8 ,)',)*' (*2' 1?620?*2,.' 620',)*' 1-0 .' -6 *-' ,1',)*-' >6,*>) .?.' 6>>1?=62 *0' 8 ,)' ,) .' *L=/026C ,1-E7..6,*?*2,a' ' ,' .')*-*' 622*L*0' 21,'6.',)1;5)' ' 8*-*'>1?=1.*0'D ',)*'6=1../*.' 1-'1;5),1'D*'*..**?^ *0'6.'>6212>6/' >-=,;-*.'6.',)*'(*2' 1?7620?*2,.' 6 0' 1-0 .' -6 *-'D;,'D*>6;.*' ,' .'6'D- * ';?'D',)*' / - .,62' 6 ,)'65-**6D/*',1',)*'&1-0'1 '410'620'62^ >*2,/ '-*>* +*0'2',)*'>);->)*.'1')- .,'3'M ;22 25^)6?'# ' -" 1' ')6=' 'Q X% ,' 20.',, =/6>*'8 ,)',)*' *>6/15;*'620',)*' 1-0 .' -6 *-' 2' ,)*'>6,*>) .?.'1',)*' <*,)10 .,' = .>1=6/'620' -*.D ^ ,*- 62' >);->)*.% ,' ';.*0' 2',)*'D6=, .?6/ >12 *.^ . 12' 2',)*'4-**9' 1?62' 25/ .)' * 1-?*0A ;,)*-C 62' <*,)10 .,' = .>1=6/'620' -1,*.,62,' = .>1=6/' >);->)*.% ()*'=)-6.*')*' 0*.>*20*0' 2,1')*//J' .' 1? ,*0' 2' .1?*' 1-?.' 1',)*' >-**0' ;.*0' 2' -1,*.,62,' >);->)*.'1' 2',)*' -1,*.,62,' = .>1=6/');->)' ,' .'1=^ ,126/,1';.*' ,'1-')*' 8*2,' 2,1',)*'=/6>*' 1'0*=6-,*0' .= - ,.%J' ,' .',1'D*' 21,*0',)6,'21'1,)*-' >-**0',)62' ,)*' =1../*.' .';.*0' 2'D6=, .?'D'62');->)% S% <62 ') .,1-*.'620'*L=1. , 12.'1',)*' =1../*.' -**0')6+*'D**2'8-,,*21',)*'?1.,'+6/;6D/*'6-*' 25

?*2'216',-*.' 1? 2 '.*0';2:.' ? 5), H ' D :,' 12*' 6/? 5),A%
.' 1? 2:.% #; 6'6 >:,'. 2(' 1',)' 6,)*-'. ' 410',)*',I12
5 //6, ?' ;26? ;.6?2;*' ,'*-.1^ .' 410'620',)*' : 1/ ' 4)1..',
26 ?' *;?' *,⌐ 1? 2;?' >12(410% 20' *',.)*-*' 6-*' 2:,'
 ,*-')- .726'+*- ,6,*'>1?(,)-*** 410H'D:,' 12*' 410% 1'
=*// ?:,' 26'.-*6 *1.' .:,'/9*8 .*' ,)*' 6,)*-' ' 1-0'
BX1? 21.' 0>** *'>6,)1/ >6'.-*(,)*' ZZ2 1-0' 620',)*' : 1/ '
/ 5 12*' =-1) D*?:-% 6,*-'6'4)1.,' 1-0% 20' *,' 21,'
2;//1'*,' 6>,:.!2***>-*2,;h'',)-*** 1-0.' D:,' 12*' 1-0%
2*>' 5*2.;H% / :.' 6' :,.-*' 1-' /9*' 6.' 8*' 6-*' >1?=*//*0'
.;/1'*.,!212' 6>,:.'2*>' >-*(D ',)*')- ., 62'+*-,' ,1' 6>^
6,;N' .*0' 5*2, .% =-.,:9218/*05*' *+*-.' =*-.12' D '
 62>,:,' 6' 6,-*'*,' 11' 212) ?.*/' ,1' D*' 410' 620' %1-0'
 6>,:.'2*>' >-*6,:'2*>' 5*2 (.1' 6-*' 8*' 1-D 00*2' D ',)*'
,;N'6*0'=-1>*0*2.% $2;.'*-51'>6,)1/ >'-/ 5 12',1'.6' ,)*-*'
 6,*-'212',-*.' 2,-*.! ;2:.' D*',)-**' 410.620',)C** ' 1-0.%
 / ;.' 212',-*7 / ! ;2:.' ()*' 6,)*-' 6' ?60*' 1' 212*'
 = ,:.' >,:.' 2;2', .-*.' 2*,)*-'>-*6,*0' 21-' D*51,,*2%
 = + ,:.' 62>,% .' 2')6>' ()*' 12'.'1',)*' 6,)*-'6/12*'
(-2,6,*2) /=-:,'6,:'2':,'=1.,*(21,' ?60*'21-'>-*6,*0'D,'D*^
.,' 2) / ?6&;.'6,:'2':.% 51,,*2% ()*' : 1/ ' 4)1.,' ,'1'
0',1',-.'=*-.1-%* >16,*-(,)*' 6,)*-' 620' 1',)*' 12!
26'.D',:2,'*;6>;6 _;6/>.% ,6'2*.,)*-' ?60*'21-'>-*6,*0'21-
,'=*-'1?2 6'M.>;?6?'.:=-6'D*51,,*2'D;,' =-1>**0 25% 1'
0>,;?'*.,*,'$2,6.'2'(-2^,)*-' '12*' 6,)*-'2;,' ,)-**
,6,*'*,'(-2,6.' 27 2,6,*' 6,)*-.' 12*' 12',21,',)-**
+*2*-6206'.% #;'+;/,'*-51' 12.! 12*' : 1/ ' 4)1.,'21,'
66/+;.'*..*',20*(-2,6,*'.*2(,)-**' : 1/ ' 4)1,,.% 20' 2'
,6,% *0'2*>*..6-:,?'*.,'60',) ,'(-2,' 212*' 6 1-*' 1-
.*.* 26?'.6/;,*?',' ;>6-;6(6,*-'1,)*-'252*' 5-*6,*-'1-
,;2*?' ,:1 ,'*' 1? 2'21..-'B*.;)62' 621,)*-% ,;' ,)*'
B*7;')-.,6?7 0*/,*-' >-*06,% 8)1/*',)-**' =*-.12.' 6-*' >1^
,'*-51' 0*.'-*>,6';,'>-*06(*,*-26/,15*,)*-'620'>1*.;6/%
?',' *' >12 *6?;-' 6' 1',)6,2'6//,)25.'6,'6'1-*^
 1? 2;,'21..*-'B*.;,'M)-.(.6 0',)*'$2,'2'(-2,'620'
;,.' %' /;.' *;'*,')1?1',)*'(-2,' 2'$2,'6,1'D*
*.,#' *.'*.,'*L'.;D.,62,6'81-.)==*0% :*,)*-*1-*),6,
6,-'62,*'..=>;/65*2,;.'*',8//D*.6+*0'?;',',);'$29
)1?1',*L'.;D.,62,6'?6,-'1',)*'(-2,' ;-,)*-?1-*'
2'5B ;/1'26,;% *-*>,;'.',':2*>*..6-',1'*+*-/6..,25'
.-'=-*.-;')1?1T*L62(.6/+6,12',)6,)*'6/.1'D*/*+*'
?6-6,126/6'*,');?626'>6?*-5),/',)*2>6-26,12'1',-
.;D..,*2.% 7;6/.'6,-'*^ 1-0'B*.;.')-.,% 1-'$*
>;20;?' +2,6,*?'?21-5),6,)'.',)6,8*D*/+*'
6,-*'.*>;20;?');?62,6(620'>12*.',)6,1;- 1-0'B*^
,>?% #;'/>*' *;'*,'*')1(.;')-.,)*' 16'1'410'6
?1P212'0;1',?*2'-*0';2:.'4 10620 2%.2% 4 101,)1 ;DC
.',)-.,;% $2;.'6,;?212 6,62>*'1',)*' 6,)*-'D*51,,*2'
>12+;-.12* +2,6,.'2>6-(D*1-*',)*'81-/0.!620'?62'
2*?'.*0'6..;?=,12>');?62(1'-.*.;D.,62>*'1',).'?1,)*-(
,6,.'2' *;?% $2;.'1?2(D1-2'2',)*'81-/0% *-*>,
21'212'>12',.12*'.),.2,.*% 410'620'=*-.*>,?62'1'6'-*6^
// ?,6,' =>-.1-:>% 6?'.126D/*'.1;/620');?62'/*./'
.*2,62,?6'-6,126/6'*','>6-;'.D..,25% ;6/',1'M)1'6^
.?;'.*.')1?1',6' *;'*,')1^,)*-'6.',1;>)25').'410)*60'
?1' ;2:.' *.')-.2.% #;'620'2*-1-',1',)*' 6,)*-'6.
= .2.' ='=-1'.6/;*'21..-6'.1;>)25').'?62)110% &)1'
0*.>*20.'60'2*-1.',*-,6'0*6/,)1;5)')*D*'410'620'?62'
-*.;--*L,'6'2 1-.;% .>>2(*')*' .'21,'.81'D;,'12*'
0',60'>1*/1.'.'*0*','60'0*L,*-( )-.,% .'2*'21,'D'>12+*^,)
6? *' 6,-'.;'?=1,*2,.T.12'1',)*'410)*60'2,1'/*.)'
20*'+*2,;-;'*.'A;0>6-*'+^D;'D',69 25'1',)*'?62)110'
+1.'*','?1-,;1.% 0'>;A;.'60(2,1'410% 2%6,15*,)*-'21,'
+*2,;'?'1?2*.')1?2*.';-*.;-(D'>12;.12'1',.D.,62>*'D;,'
5*-*')6D*2,'>;?'>1-=1-D;.'D';2,'1'*-.12% 1-'6,'
.;.,'*'.-*00,.;,'.;2;0*'6>(,)*'.*6%1126D/*.1;/620'/*.)'
,.=-1=-.'-6,12*?% ,'.' .'12*'?62'.1'410%20'?62'
D126'*5*-;2,'D?,'2'+,6?'.12*'.)-.,% &)1'.;*-*/
,*.*-26?'.'+*-1'?6/6'2'5(1-'1;-.6/+6,12'0*.>*20*0'
2*?'.*.*?-,?% 2,1')*//-1.*656 2',)*',)-0'
:6>,*'.' 0*.'>6,)1/>6'06'-1?',)*'0*60'.'/*'6.^
;6?'2..'.2>0*/.*-'-(>*20*0'2,1')*6+*2')*'6.,*.');
?',*-.*'>-*0D*-.'.6/+;6*.(12',)*-5),)620'1',)*'6^
'21='=1,*-.% 4/1-6'6,-.',)*-'410'/?5),% -1?'
.' /1' =-.,:' 62>,1% 8)*2>*')*.)6//>1?25'6//?*2'.)6//
/1-;?% '>',*-6,2'=-2>=1'*,2;2>',)*':>9'620',)*'0*60%
.'.?=*-'*',2'55*>;/6*.1>;(8)1.*)*1?25'6//?*2'.)6//
*.'>1?25'6//?*2'.)6//D*'81-/0'8,)1;,*20% ?*2%

3

'()6,',).'>-**0'86.'2,P,>1?=1.*0'D' ,)626.:,'.'>/*6-'12',)*'1//18 25'6?125'1,)*-'5-1;20.a M6X'
,)626.:,'))?.*/'01*.'21/?*2.12',)21-'01'62'1'
).'>12,*?=1-6-*.'1-'1',)*'8-,*-.'1',)*'1//18 25'
>*2,:-'6.>-D*',,1':>2'I 8()*'>12,*2,.')18',)6,',
>1;/0'21,')6+*'D**2'8-,,*2'P7)?% ()*'81-0'?>1+0
' " *8)>)'2',)*',?*'1' ,)626.;.'
86.',)*,19*2'1'0..,2>,12'A>,8**2',)*' 6,)1/>.'620'
,)*' -62.'01*.'21,'1>>;-'2',)*'>-**0'62'1?.12'
8)>)'81;/0')*'2*L=/>6D/*'2'62'>12*..12'>1?C
=1.'D',).'6,)%-% 6,*-'6'4-**9'8-,*-%
 K% 1..;'#;*.)*/'620'1,)*-.'6.>-D*',).'>-**0',1'
 5/;.'D.)1='1'()6=.:,'2' ->6'1,)*-.',1' 2C
>*2,:'1' *-2.'M ,)'>*2,;-A X'620'656 2'1,)*-.',1'
 *262,:.' 1-,;26,;.'6' -*2>)'D.)1='1',)*S,)'>*2^
,;-%I' &6,*-/620'6.>-D*.',,1':/6-'D.)1='1' -/*.'
1-',)*'1//18 25'-*6.12.a M %X' *>6;.*':121-6,;.'1'
<6-.*//*.',)*'8-,*-'1')./*',*//.';.',)6,')*'>1?^
=1.*0'62' L=1.,12'1',)*' -**0'J'6'?1-*'=-1=*-'
,/*'1-',)*' ,)626.62',)62',)6,'1'' **0J.?=/A7
8)>)',218%)*6-.% MK%X:/6-'86.'6'5-*6,'60?-*-'
620'1//18*-'1' ;5:.,2*'620',)*'8)1/*'>1?=1-,12'
1',).'>-**0'.'2'6?622*-' ' ;5:.,2*.'=/62'D1,)'
8,)'-*.=*>,',1',)*'(-2,'620'2>6-26,12% MN%X'
.'65-**6D/*',1',)*'.,/*'1':/6-'6.'6-'6.'8*'>62'
A;05*'-1?',)*'/,/*',)6,'./*,'1')'81-9.% ()*'
=-11.'2'.;==1-,'1')'1=2 12'6-*'6-'-1?'>/*6-'620'
.6,.6>,1-%

N% D1;,'% %' ',).'>-**0'D*>6?*'.1'6?1;'6.',1'
D1',)*'.;DA*>,'1'>1?7?*2,T D;,'1-'.*+*-6/ *6-.'6^
*-' ',)60'21,'6>_;-*0',)*'/,/*'1' ,)626.62'D;,'
86.'.?=/ ,/*0',)*' 6,)1/>'6,)%J' ()*',,/*'1'
,)626.62'=-1D6D/'D*>6?*'6,,6>)*0',1',0;-25',)*'
-62'>12,-1+*-.' 2'46;/'6.'D*25'62'*L=1.,12'1'
,)*'..,*?'1'01>,-2*'8)>)'86.'1==1.*0',1',)*' 62'
..,*?'620'8)>)'81;/0'26,;-6//'D*'>6//*0' ,)626^
.62'-1?',.'>)*'=-1=1;20*-% 7/62'*L'1.,1-.'1'
,) .'>-**0'620'*+*2'D.)1=.'1',)*');->)'1' 25/620'
8)/*')1/0 25',)*'01>,-2*'1',)*' ,)626.62' -**0'
620'6==-1+ 25',.',*-?.'.,-125/A'1DA*>,',1',)*'06?26^
,1-'>/6;.*.% ->)D.)1=(/1,.12'D./1=(6 /1-'P'
620'D.)1=(1?/2*'6//>12>;-'2'-*5-*',)6,'6..*-^
,12.'1' '=*-*?=2,=1-'6'26,;-*'M-*'*--25',1',)*'06?C
26,1-'>/6;.*.X';2*L=/6 2*0'620';2_;6/ *0'.)1;/0
)6+*'D**2';.*0'2'62'');?62'>1?=1.,12% 2',)*'
1,)*-')620''&6,*-/620'> '# ' '"'&D=
' -'(1-.'L 1-0'Q N'+1/% X.6A.a`()*'
;.*'1',8//)6-0/'D*',)1;5);.=*-/;1;.'.1'/125'6.'
,)*-*'6-*'62' -62.')1,2 62%.' 6)*// 62.'<6>*^
012 62.' =1// 26-62.' *.,1-62.'1-' ;/E>)62.'2'
,)*.*'=6-,.%' M **'6-,>/*.';20*-',)*')*60.%X &,)'
-*.=*>,',1'8)6,'6-*'>6//*0',)*'I'06?26,1-'>/6;.*.'M,)*'
>/6;.*.'26?*/ `&)>)' 6,)'*L>*=.', *+*-.'12*'00'
9**=8)1/*'620'?0* /*0'8,)1;,'01;D,')*'.)6//=*-^
.)'*+*-/6.,25/TI'620%()'.'.',)*' 6,)=/>'6,)'
8)>)'*L>*=.',6'?62'D*/*+*' 6,) ;// ')1'>6221,D*'
.6+*0X',D>')>,->)*.'8)>)'601=,',)*'>-**0'01'2*,'
?*62'D',)*?',1'?=-*>6,*'>;-.*.'D;,',1'0*>D-*'6.
6'/15 >6/.*_;*2>*'1'6',-;*' 6,)'D*25'2*>*..6-',177
.6/+6,12',)6,',)1.*'8)1'01'21,')1/0',)*,-;*' 6,)'6-*'
2'0625*-'1'=*-.)25'3 6.',.'.6 0'<6-9'L'+'S'':*'
,)6,'D*/*+*,)'21,'.)6//D*'06?2*0% ()*.*'>$;.*.'
6->'6/.1')1/0',1'6==/',1',)1.*'8)1'0*2',)*'I7;D.,62>*'
1',)*')-:62'-*/5 12'620I'21,'2 6//C/',1'*+*-'
=*-.12'8)1'?6'D*'2'*--1-'6.',1 62'12*'=6-,>;/6-'
6-,>/*' '-;D->',1',).'* *>,' +6.'0-68 2';='D',)*'
>1?7..12*.'6==1 2,*0'2'SQR'1-',)*-*+*8'1',)*'
25/.)'1?712'-6*-CD119'D;,'212*'1',)*-.';5^
5*.,12.',119'* *>,% 1?=6-*'6/.1',)*'Q,)' -,>/*'1'
,)*');->)'1' 25/620'8,)',)*.*'>/6;.*.J M)6?D*-.'
.% xx' ()*'>-**0'.'-*>*+*0'2',)*'4-**9' 1 262'620'%
 25/.)'>);->)*.';/*.'1;'1',)*'.*-+>*'1',)*'
-1,*.,62,' =.>1=6/') ->)' 2' ?*- >6% ()*' 12^
+*2,12'1' Q'=6..*0'62'6>,*L=;25 25'D1,),)*' ,)C
)26.62'620' >>2>'>-**0.'-1?',)*'=-1=1.*0' 119'1

1? ?12' -6 *-T D ; ,' 8)*2' ,)*' D119' 86.' =/6>*0' D*+' 1-*' ,)*' 25/ .)'D .)1=.' ,)* '-*_ ; -*0',)*' -*.,1-6, 12' 1 'D1,)' >-**0.' /7= 1-*',)* ' 81 ;/0' >12.*2,',1' >12.*>-6,*' ,)*' ?*- >62' D .)1=.' ( )*' 6->)D .)1=.' 1 ' 62,*-^ D ; - ' 620' 1-9 ' 2' ,)*' .=- 25' 1 ' QS' 8-1,*' ,1' C,)*');->)' >1? ? ,,**' ,1' ,)6,' * *>, ' 8)*-*;=12' 621,)*-' 12+*2, 12' 86.')*/0' 2' & /? 272 ' *?686-*' >,1^ D*-' QS' .)1=' !&),*' -*/6,*.' ,)6,' ,)*' >*2*' 3 -**0' 86.' -*.,1-*0' 8 ,)1 ; ,' 0*D6,*' 1-' 0 >;/, ' '' ' '' ' '

8 ,)1;,' .6/6-A% 2' Q ')*' 86.' */*>,*0' =-*. 0*2,'1 ' ,)*' 12+*2, 12' 1 ',)*' 1>*.*' 1 ' *8' 1-9 '620' 86.' -* /*>,*0' *+*- ' .2>>**0 2!' *6-' ; 2, /' ,)*' >12.*>-6^ , 12' 1 ',)*' *+% -% & 6 28- 5),' 2' 7 K% ,',)*' -.,' */*>, 12' 1 '6' =-1+ . 126/ D .)1=' 1 ' *8' 1-9')*' 86.' >)1.*2',1',)6,' 1 >*' D;,' -1?'+6- 1;.'>12. 0*-6^ , 12. ' 0*>/ 2*0777>>*=,62>*% : *' 86.' 6/.1' >)1.*2' =-*. 0*2,'1 ',/ 77 .*' 1 ' /*- >6/' 620' 6 ' *=;, *.' 1 ',)*' 4 *2*-6/77 '*2, 12.' 1 ' Q N' Q S' 620' Q R' -*.=*>, +*/ % 777 0' =-*+ 1;./ ' .*-+*0I,)*');->)' 2' 0 / *-*;',.6,777 < - ; . , '6.' ?*?D*-' 1 ',)*' ,620^ 25' 1? ? ,,1777 : 262' 1 ',)*' / .. 126- ' 1? ? ,^ ,**'*,>%7 7 /7 7 7 7 ,) *');->)' 1 ' ,% <6- I.' **>)'C 8 110777777 2'D ') ?' 620') .' .12C 2C/68',)*' *+% 08' % %T ,)*'=- 2> =6/=6-,'1 ',)*' >1., 1-' 620'5-1;20'D* 25'>12,- D;,*0'D ',)*? 620';777 -+ >*'D* 25' ?6 2,6 2*0' D ',)*?' 2' ,'6.' 6' -**'77) ',1',)*' =-*.*2,', ?*% -% -* 5),12' 0 *0' 6,' -- 7,182' =- / KN0' QS %' " "' 5 1' B;/ ' QS %!

-*//' 22 7#9'B1) 622*. '6' 1> 2 62'0 + 2*' 8)1.*' 81-9.' 1-?' =6-,' 1 ',)*' D/ 1,)*>6' -6,-;?' 1/121-;-6'86.' D1-2' 2' -62>12 6' 2' R '620'.,;0^ *0' 6,' ;-*?D*-5' 620' 1,)*-' 4*2262' ;2 +*-. , *. ' - 5 26// ' 6' ;,)*-62')*' 6 ,*-86-0.' 601=,*0',)*' =- 2> =/*.' 1 ' 1> ,?. '620' 8*2,',1' -6>18 ' 2' 1/620 ' 2' S K' 8)*-*')*' D*>6?*' 6'=-*6>)*-T)6',)*2' 86.'6=^ =1 2,*0' =-1 *..1-' 1 ' 4-**9 '620' 6 ,*-86-0.' -*>,1-' 1 ',)*' ;2 +*-. , ' 6,',)6,' =/6>*% : *' 0 *0' 2' SNN' : ,' 81-9.' 6-*' >1//*>,*0' 2' , % ' ' '

25' .1?*, ?*'6,',) .'=/6>*'620'21,' 20 25', '6.',)* ' .;==1.*0' .; > *2,/ ' .*>;-*',1' 8 2,*-' 2',)* '-*.1/+^ *0'>12,-6- ', ,1' ,)*' 60+ >*' 1' 6;/'M,)*' .*6.12'D* 25' 6-' 60+62>*0X',1' ?69*' 1-')>*2 >*' 6' ?1-*' >1??1^ 0 1;.')6-D1-'12',)*' 8*.,*-2'=6-,'1',)*' ./620C' '6,^ ,*?=, 25'8) >)',)* '8*-*'0- +*2' 6-'1;,'1',)* '-'>1;-.* 6' ;- 1;.'*6.,'8 20'>6//*0' ;-1>/ 012'620'8-*>9*0' 0'12',)*' ./620'1'<*/,6'M >,.'LL+ X' **' ' / ' : '+ $ 3' ,'.'*+ 0*2,' -1?' (,' 'S',)6,',)*'6=1.^ ,/*) ?.*/'86.')*-> ,'21'/125' 2,*-+6/1', ?*'D* 1-*')*'8-1,*I,)*'/*,,*-' & *' D*/*+*' ,) .' ,1')6+*' D**2' D*,8**2',)*' -.,'620'.*>120' ?=- .12?*2,.' **' (C e '>/ ' !' (,;.'86.'?;>)')121-*0')*-*'0;-^ 25',)*'<00/*' 5*.' ()*'>6,)*0-6/1'<*56/1C 6.C ,-12' 86.'0*0>6,*0',1') ?!'620') .' 26?*' 86.',)*' 86,>)81-0'1',)*' -*,62.'8)*2',)*' 1;5),'656 2.,' ,)*' *2*,62.'8)1',)*?.*/+*.'.**?',1')6+*'=/6>*0') ?' 6D1+*' ,' <6-9' 2' 620 6' 8)*2',)*' D*>6?*' ?6.,*-.'1',)*' ./620'M 6.)/*. .' - ' ' 'S' ' 120' QN X' **' :1>9 .') 'M41,,' QKRX'620' '=6=*-.' -1?',)*' ,6/ 62' 2',)*' ' ' ' !' &' 4!'M+1/' ' *20' Q SX7' /.1'<*;-. ; .' ' '#" ' ' *,>' M 26,1/' S XT' *;?622'5 ' !' % ! M40,,' QK XT' ? ,)' ' ' ' ' ? ' .' +' -*,6T =-6,, .' 5 " ' ' ' M 12012' QS 'K' +1/.' Q+1X' **' &

-*,.*'M >,.' ' X' I ' -* , 62'M(,' ' K' 620' .;D.>-'X' 6' -*,62'M =A>XA'1-' 2)6D ,62,'1',)*' ./620' 1' 'M_' +'X' (-*6, .*.'1)',)*' 21,1- 1;./ ' D60' >)6-6>,*-'1',) .' =*1=/*'M-* *--*0',1' 2',)*'/6,,*-'=6.^ .65*X')6+*'D**2'8-,,*2' 2' 6, 2'D ' :1//*D*>9'M ;50% ' RQX' * 25*-' M -5*2,' X' >)?0,' M =.' S NX'620' ,*5*-'M =.' SQ X'

- D' " (E'6' '1-'D6?'8)*-*' 100*-' . .,1-*0'M -1+' L + 'I X'620'8)*-*' >6,,/*' 6-*' *0'MB1D' LLL L 'RT' .6' 'NKI' =*-)6=.' . ?=/'6' ' 1-' ,)*?',1' *6,'1;,'1 '6.',)*' *=,'620' 7/5I'-*20*-' 2' ,)*'/6.,C>,*0'=6..65*' **' !

- ?7' * ' [*9' + 'KNT' 286(' / = ' " ')* 21;.'>- ?* J'B1D' LLL ' T' ' >,.' dd 'K T')O * '& 'LL+' SX' **') g ($ g' + $ ' !

- ?.12' + (' MB*-' + ' N T' */.*8)*-*' .>6-/*,TJ' ;// ' `N7' = ' L10 LL+' '1-' 1 ' *+' L + ' '1- . ?=/' ,)*' ' ,.*/' .6' ' '6//' -*20*-*0' *L>*=,' 2',/f ./'/6.,'=6..65*'/9*8 .*' '.>6-/*,J X'/6,*-' " ('M2+6-6D/' >- ?.12 J'K')-12' ' T' ' T' 12',) .' : *D' ,*-?' .**' 1-.D6>)'& + ' =' X'6' 8*//C9218 2'-*0' >1/1-'M /2 'LL 'KKX'1'6' 0**=') ; *Y1-0*- 25' 12' =; -=/*' M_' + X'620' 2',) .' -*^ .=*>,'0 *- 25' -1?',)*'D- 5),*-'.>6-/*,'M_' +' X' *,'1' 6' D- // 62,'>1/1-'M .6' ' Q' >1?=' / 2 'LLL ' T')*2>*' <6,,'LL+ 'KQ'(81 ' +) *k U-1* 'O --' 2' ;9*' LL ' X') 5)/ '=- [*0' 6?125',)*' 62> *2,' 1-' 56-?*2,.'620',6=*.,- 'M: 1-^ 6>*'$!' 'S' KX'6.'6-,>/*.'1'/;L;- '8,)',)*' 21^ D/, 'MB*-' + 'N T' K' 6?' 'K T' -1+' LLL 'K T' 6?' + ' T' >1?=' <6-,6/' 'K T' 'NR T' N' Q T' *,-12' $!' NKX'620'8,)',)*' 1?62.' 1-',)*' -1D*.' 1'5*2*-6/.'620'=-2>*.'M / 2 'LL 'NT' >1?=' <6,,' LL+ 'KQ' 8)*-*') ,)) kH %H %' 2' <6-9 L+' ' K '620' B1) 2' L L' X'*.=*> 6// ',)*' *?=*-1-.'M ;*,12' ' !' X' <62'1',)*' 6D-> .'1',)*' ,6D*-26>/*' 620' .6>*-01,6/ =6-6=)*-26/6' 8*-*' 6/.1' 81+*2' M L10' LLL+$ T' ; ?' + 'QX' 1',)-*60.1',) .' 0 *' M4*2' LLL+ 'KQT' B1.)' ' QX' 8)>)' 86.' /9*8 .*' *?^ =/1 *0' 1-',)*' >;-,6 2'1' 1/1?127.' (*?=/*' MK')-12' ' T' >1?=' ;*,12'7 'N X' ()*' >1/1-'656 2' 1>^ >;-.' 2',)*' <1.6>'-,;6/'M *+' L + ' ST' ;?' L L 'SX' .',1',.' .?D1/>6/.52 >62>*') /1' I %%!' ' NST' >1?=' ' QX'620'B1.*=);.'I& !' ' ' X',) 29',)6, ,'/9*',)*',81'.6>-*0' 1/1-'M.>6-/*,'620'=;-=/*X' -*=I' -*.*2,.',)*'*/*?*2,'1' -*'T 6>>1-0 25',1' 6)-' I$ 9 ! ' NNN' ._%X',' 0*21,*.' / *' M' *' -*' 620' D/110 % 8)>)' 6-*' D1,)' -*OXT' 8)/*' 1,)*-.' 20' 2' ,' 1,)*-' , =>6/6//;. 12.' **' # ! - ?.12' .' 1D,6 2*0' -1?',)*=;/+*- [*0' >1>) 2*6/ D*-- *.' '*',)*'0*60'D10*.'620I/6-+*C2*.,.'M.**' -620,' 620' 6,[*D;-5.' !' . ' *-/' QN ' ._%' ' =' KS 5' X' 1'6' .?6//' =6-6. , >' 2.*>,',)*' *?6/*' >1>) 2*6/C81-?'M- H /2' ( )8'1-'' 'M,)*' A' ' 1' 22' >/' (*,-65A? 6X'8)>)I',186-0.' ,)*'*20'1' =-/' 6..*2.',.*/' '/9*'/,,/*'-6 . 2.' 2',)*' 1-?' 1' -1;20' -*00 .)' 1-' + 1/*,CD-182' D*-- *.' ;=12' ,)*',8 5.'/*..' -*_;*2,/' 12',)*' /*6+*.' 1',)*' =6/?C' 169' I-% ' 1-' 7'))) ' ' 4 ' 1-' 1' >1?=' ()*1=)-6.,;.' ' ' ST' /2' L+' KT' 6;.62 6.' L' NS T' .**' -D '6 ! ' N T' ;^ + *-'& !') ! ' S' QX' () .' .)-;DD ',-**' .1?*',81'1-',)-**' **,') 5)'5-18.'6D;2062,/' 2' . 6' < 21-' 620' : ,)*-' . 6' M>*-,6 2/'6/.1' 2' 6/*., 2*T' .**' */12', ! ' QQX'6.'8*// 6.' 2' 1;,)*-2' ;^ -1=*') 6.' 1+6/'=1 2,*0' *+*-7**2',)1-2 '/*6+*.'6' 5-6 .)' .?11,)' D6-9' 620' D*6-.' -1;20' .>6-/*,' D*-^ -*.' =' >/;..*-*0',;,.' M 1.>1-' + ' QX' ?125',)*' 62> *2,.',)*')1*2>62.'5*2*-6// ' .;==/*0',)*'-*.,' 1',)*'81-/0'8,)'>-?.12' ?6,*-6/.'620'D*.',;20*-^ .,110',)*'6-,'1'0 * 25',) .' >1/1-' MK')-12' ' T' >1?=' / 2 ' L'S X' M **' *>9?622';2 ! // ' ' ' ·_' 1>)6-,'# /! ' K ' _' T' -6;2' ' ' ' ! ' >' S'=' K ' ._' T' : 6-,?622'# ! ' QQQ' ·_' ' N' ._' E= ' % ' +' 1>)2*6/' X' & 2*-' 'K N' **' ! - ==/*' '6.' */.*8)*-*' ;.;6// ' -*2^ 0*-*0'1-' ')6/,JX'6'=*-.12'0*=- +*0'1',)*' ;.*' 1',)*' /18*-'/?D.'M >,.'L + 'QX'

- .=' O ' ' 6'0 9 ;*1',)*' ,)' >*2,;- ' D1?' S '7*0' -*>,1-'1' - 2981-,)' S K' : .'/ *' 86.'0 .,25; .)*0'D '>)6- , '=*,AP) ; ? / , '620'=;^ - , 'D;,')*' 86.'2*+*-,)*/*..' >)6-5*0'8,)' . ?12' 2' 1D,6 2 25',/*'/+25'1' *8 25,12' ;,,.' 2' SK' :*' 1//18*0',)*' ;- ,62'. 0*' 2',)*'*>>/*. 6., >6/,-1;D/*. ' 620' 86.'62' *L,-*?' 6/+2 .,'-;22 25' 2,1' 2, 21C ? 62 .?' ()*' & *.,? 2.,*-' ..*?D/' =-1=1.*0',1')6+*') .' .*-?12.'D;-2,' ()*' /6.,' *0 , 12' 1',)*?' *0 ,*0'D' 4 //' 6==*6-*0' 2' 12012' R' MK' +1/.' Q 1X' ,1' 8)>)',)*'/ *' 1' - .=' .'=-* L*O' P-' - .=' 6>^ 9218/*05*.',)6,' ' 2'-*.=*>,'1',)*'-;/*.'1'-5),*1;.^ 2*..'1-',)*'?6,,*-'1'1D*0*2>*'8*'6-*'/;0*-',)*'/67+' .;//'1-'*/._J'6.')*'600.' ' 8*'6-*'/68/*..',1'/+*'*+7-' ?62'6.' .**?.'5110' 2') .' 182'* *.'8) >)' 21',-;*')- ., 62'06-*.'.1'?;>)'6.',) 29'1' ()*' 1//18 25' .*2, ?*2,.')18*+*-'6?125'1,)*-.'6-*',6;5),' 2') .' .*-?12.' ()*/68' .'>-;*/620', -622 >6/'-*_; - 25' 8)6,'.'26,;-6// '?=1.. D/*J' '()*.2.'1',)*'*/*>,' 8*-*' .1' ?=;,*0',1')- .,'6.',)6,',)1;5)')*'0 0' 21,' >1?? ',,)*?' *',),)*' D*>6?*'6>,;6// ') .',-62.5-*.^ .12.' 620' >*6.*0',1' D*' ,)*-. J' ()*' **/25.'1' >12.>*2>*' 8)>)',*//',)*?',)6,.2 .',)*-.'6-.* -1?' 6'862,'1'9218 25',)*',-;,)J' ' ;' .D;',)*' +1>*' 1'6'/ 25'.= -,' 2',)*')*6-.'1'D*/*+*-.',)6, .6,)',)*')6+*' *,'.2'86., 25',)*-'>12.>*2>*.'620' /25'6.'6'D;-0*2',11')*6+' 1-' ,)*?',1' D*6-%J' ')-.,.'-5),*1;.2*..'.'1'?=;,*0',1',)*'*/*>,',)6, ,)*'>*6.25',1'D1'.22*-.'6-*'6.'-5),*1;.'6.')*'86.' 620'6//',)6,')*'86.%J' 2'*/*>,'=*-.12' .'21,' 2'6' >120*?2*0'..6,*'8)/*'62';2D*/'+*-'!'620'.)1;/0')*)6==*2',1'0*'D* 1-*'410'>6//)?',1'D*/*+*'D*'81;/0' 21,'D*'/1.,%J' *=*2,62>*'620'>12*..12'1'.2'6-*' 21,'2*>*..6-',1' 1-5+*2*..%' 'D*/*+*-'?6'>*-^ ,6 2/'>12>/;0*'D* 1-*'>12*..12'*'60'.112'6.')*')6),')>1??,,*0'.2',)*'2,*-*.',)*')6),'2')- .,'620' ,)*'/1+*'1')- .,'*?D-6>25')?%J' ()*.*'0625*-1;.' .*2, ?*2,.'620'1,)*-.'1'6'. ? /6-'D*6- 25')6+*'D**'7 ;// '62.8*-*0'D ' ?62'8-.*-.'D;,'D'212*' ?1-* 6D/.',)62'D',)*' *+%B1)2' /*,>)*-' 2' .' '0)*>9.' ,1' 2, 21? 62.?%J' ;>9'-" ' ' !' .%+%T -?*

B ' 0*?620*0 '620' 8)*-*',)* ' >62' 6/.1'D*' .)182',1')6+*' D**2' 26, ;-6// ' 0 HG=/6**0 D ' ,/ *' *--6,6T' 21-' *,' ;2/*.. ,)* ' 6.' 8 1;/0' D*' / 9*/ ' ,1')6+*' */;0*0',)*' 0 / 5*2>*' 1 '*6-/ *-' >1//6,1.-%
K% & ' ' ' J1' " "(' " '
' 4 ' 8% " .' ' ' 1 " (" "'
" ' " ' ' ' ' ' ' ! 2' ,) .' =- 2 ? =/*' '
D6;0*0 ,)*' 6?1;.' /68' 1 '>- , >.' 2' 5*2*-6/ ' ,)6,' I I.,)*' ?1.' 0 >;/ .-*60 25' .',1' D*' =-* *--*0 J' 8) >)' . D ;.' =6-, 6// ' ,-;*')18*+*-'. 2>*',)*')6-.)*.,'-*60 25.' ? 6 ')6+*' D**2' ,)*' -*.;/' 1 ' 260+*-.*2>*' 2' >1= 25' 620' 12 .,)/.'=- 2> =/*',)*' ' >1;/0' 2*+*-' D*'*/ ? 26,*0' 8)*-*6.' .)*' 0*. 52' 1 '>- , > .' ,)*' >1? ?12C.*2.*' 12*' 1 '/*..*2 25'-6,)*-',)62' 2>-*6. 25',)*' 2>125-;, *.' 1 ',)*' *L,% ' ' 12/ ' ?*62,' ,)6,' 8*' .)1;/0' >)11.*',)6,'-*60 25'-6,)*-',)62' 625,)*-' 8) >)' '1- 5 26// ' 2' ,)*',*L,' 8 1;/0' D*' ?1..'1D21L 1;.',1'>1= ...!' *',)*-'/* ' ..' 21,' D*' .1'>16..2 > 06.' ,1' >1?*' 2,1'>1// . 12' 8 ,)',)*' 1-*51 25' >6212%
N%, N" " ' ' ' ' ' '

D**2')620*0' 0182' 1-6// ' 1-' .1?*' >*2, ;- *. 'D*>6?*' 6 ,*-86-0.' .1' *L,*2. +*' 6.' ,1' 0*?620' ,.' >1?? ,,6/ ,1' 8- , 25 ' 7/ ;>)' 1 ' 8)6,' .' >12,6 2*0' 2' ,)*' <6.1-6' *L .,.' 6/.1' 2' ,)*' (6/?;0 6-,' 1 ' , ')18*+*-' .' 1/0*-' ,)62',)*' (6/?;0',)1;5)' 21,'-*0;>*0',1' ,.'=-*. I' *2,' 1-?', //6'?;>)'B6,*-'=*- 10 ()*+6- 1;.' 1D.*-^ +6, 12.'>1?=- .*0' 2',)*' <6.1-6' 8*-*' 6,' -.,' 8- ,,*2' 2' .*=6-6,*' D119.' 1 ' 8)>)',)*-*' 6-*' < *L,62,, ,*-86-0.',)* '8*-*'=;,' 2,1',)*' ?6-5 2' 1',)*' D/* < &)*2' 8*' .=*69' 1 ',)*' ' 1 ',)*' ,*L,',." :'21,'?*62,',)6,',)*' 6.1-*,*.'56+*' 6'>*-, 2' 12=',1',)*',*L,' ,.*/ ' 1-',)6,',)*' ';20*-,119'620'*L^ *>;,*0'6'2*8'-*+ . 12 ()* ' ?60*',)*' % ' 1 ',)6,'06 ',)*' D6. .' 1 ',)* -'-*?6-9. '620'56+*',)*' -' .*2, ?*2,.'>12>*-2 25' ,' :60',)*',*L,'D**2'6/,*-*0' 2' *+*- ' >6.*' +)*-*',)* ' -*>1?7*20')60' ,' D**2' ?60*' >12 1-?6D/*',1',)* -' 0*6.' 1 ' 8)6,' ,'.)1;/0'D*' ,' 81;/0')6+*' D**2' 6==-1=- 6,*',1')6+*' >6//*0' ,',)*' ! ()*'0*. 526, 12 ')18*+*-',)1;5)' 21,'6==/ >6D/*' 2' .,- >,2*.. ' .'>:.,1?6- 1' " %" 1' % ' 620' %" 9 ' ,')6.'D**2'6' .;DA*>',1 '0 .=:,*'6?125'.>)1/^ 6-.' -1?' 8)6,'.1;->*',)*' <6.1-*,*.'0*- +*0',)*' *- .* ,' .') 5)/ '=-1D6D/*',)6,',)* '8*-*' 5*2*-6// ',69*2' ' $$!' 620' 1',)1;5)',)* '?6 ')6+*'D**2' 2'=6-,',)*'1 .=- 25'1 '>12A*>,;-*' ,' .'D;,'-*6.126^ D/*',1' .;==1.*',)6,',)*.*' .>)1/6-.' '56+*',)*' -*.;/,'1',)* -'182'A;05?*2,' 2'600,12',1',)*')9 ',)*'<6.1-6'>12,6 2.'62'*2/6-5*?*2,'1 '>-.,>6/-*^ ?6-9.' 1;20' 2',)*' (6/?;0' *. 0*.',)*'+*-.*.' 81-0.' 620'>12.1262,.' 1 ',)*' 0 *-*2,'D119.'+ ',)*' D/*'6-*'>1;2,*0'6',6.9';2=6-6//*/*0' 2' =1 2,'1 '?^ 2;,*'/6D1-',)1;5)'>1?=6-6, +*/ ';2=-1 :,6D/*% ()*'6==/ >6, 12'1 ',)*'<6.1-6'2',)*'>-,>.?'1 ',)*' /0' (*.,6?*2,'.'0 >;/,'D*>6;.*',.',*L,')6.' 6//*2' 2,1'5-*6,'0 .1-0*-' ,'86.'=-2,*0' 1-',)*' -.,',?*' 2',)*' -.,' 6DD 2 >6/ D/*'1 ' 1?D*-5' .;=*- 2,*20^ *0' D ' */ L' -6,*2.A.' 2',)*' .*>120' 6DD 2 >6/ D/*'1 ' 1?D*-5' ;=12',)*'=- 2, 25' 1 ',)*' <6.1-6' ',)*'*20'1 ',) .' .*>120' 6DD 2 >6/ D/*',)*-*' .' 6' >1//*>, 12'1 ', '620' '-*60 25.'1-' 2'1,)*-' 81-0.' ; ' W 1'>1??;2>6,*0'D ',)*'*0 ,1-A'620',)*'-*.;/,'1'6;'62>*2,'-*+ . 12'1',)*' ,*L,' ()*'2;?D*-' .' 6D1;,' K S' ',9*' .1;->*.' -1?' 8) >)',)*'>1//*>, 12'86.'0-68'2' 8*'6->*'*2, -*/ ' 521-62,' B;05 25'D ',)*'>12,*2,.' ,' ?;.,'D*' 1/0*-' ,)62'?62 '1D.*-+6, 12.' ?60*'D ',)*'<6.1-*,*.' ,' .)1;/0'=-_D6D/A'D*' -* *--*0',1'6'=*- 10'62,*- 1-',1',)*' 2,-10;, 12'1 ',)*'+18*/. .,*?'6.',*12,6 2.'21'6/^ /;. 12',1',)*'+18*/.' .^?'6.'1 '+6- 1;.'*0,1-.' 1',)*'<6.1-6'6?=/*' 1'+6- 1;.'*0,1-.' 1',)*' 4-**9' (*.,6?*2,' 2')6+ 25'-*>1;-.*',1' 6DD 2 >6/' 8-, 25.' *.=*> 6//A7.,)*' (6/?;0' ()*' ?? *2.*' ?6..' 1 '+6- 1;.'-*60 25.')*-*' >1//*>,*0' .' ;2 ?=1-,62,' .'.*-+*.')18*+*-',1'.)18' ,)6,' ;20*-',)*' 2 /;*2>*' 1',)*' <6.1-6',)*' :*D-*8' ,*L,')6.' 6,,6 2*0'62*12. 0*-6D/=' 0*5-**' 1';2 1-? , ' 2' 6//*L .,25' < % &)*2' 1-6// ' 1-' .1?*' >*2,;- *. 'D*>6?*' 6 ,*-86-0.' .1' *L,*2. +*' 6.' ,1' 0*?620' ,.' >1?? ,,6/ ,1' 8- , 25 ' 7/ ;>)' 1 ' 8)6,' .' >12,6 2*0' 2' ,)*' <6.1-6' *L .,.' 6/.1' 2' ,)*' (6/?;0' 6-,' 1 ' , ')18*+*-' .' 1/0*-' ,)62',)*' (6/?;0',)1;5)' 21,'-*0;>*0',1' ,.'=-*. I' *2,' 1-?', //6'?;>)'B6,*-'=*- 10' ()*+6- 1;.' 1D.*-^ +6, 12.'>1?=- .*0' 2',)*' <6.1-6' 8*-*' 6,' -.,' 8- ,,*2' 2' .*=6-6,*' D119.' 1 ' 8)>)',)*-*' 6-*' < *L,62,, ,*-86-0.',)* '8*-*'=;,' 2,1',)*' ?6-5 2' 1',)*' D/* < &)*2' 8*' .=*69' 1 ',)*' ' 1 ',)*' ,*L,',." :'21,'?*62,',)6,',)*' 6.1-*,*.'56+*' 6'>*-, 2' 12=',1',)*',*L,' ,.*/ ' 1-',)6,',)*' ';20*-,119'620'*L^ *>;,*0'6'2*8'-*+ . 12 ()* ' ?60*',)*' % ' 1 ',)6,'06 ',)*' D6. .' 1 ',)* -'-*?6-9. '620'56+*',)*' -' .*2, ?*2,.'>12>*-2 25' ,' :60',)*',*L,'D**2'6/,*-*0' 2' *+*- ' >6.*' +)*-*',)* ' -*>1?7*20')60' ,' D**2' ?60*' >12 1-?6D/*',1',)* -' 0*6.' 1 ' 8)6,' ,'.)1;/0'D*' ,' 81;/0')6+*' D**2' 6==-1=- 6,*',1')6+*' >6//*0' ,',)*' ! ()*'0*. 526, 12 ')18*+*-',)1;5)' 21,'6==/ >6D/*' 2' .,- >,2*.. ' .'>:.,1?6- % ()*' ?1.,' ?=1-,62,'=6-,'1 ',)*'<6.1-6'M_%'+%X'>12^ . .,.'1 ',)*'?6-5 26/-*60 25.'1-') 1'8)>)',)*'<6C^ D/*',1' .;==1.*',)6,',)*'.*' .>)1/6-.' '56+*',)*' -*.;/,'1',)* -'182'A;05?*2,% 2'600,12',1',)*') 9 ',)*'<6.1-6'>12,6 2.'62'*2/6-5*?*2,'1 '>-.,>6/-*^ ?6-9.' 1;20' 2',)*' (6/?;0' *. 0*.',)*'+*-.*.' 81-0.' 620'>12.1262,.' 1 ',)*' 0 *-*2,'D119.'+ ',)*' D/*'6-*'>1;2,*0'6',6.9';2=6-6//*/*0' 2' =1 2,'1 '?^ 2;,*'/6D1-',)1;5)'>1?=6-6, +*/ ';2=-1 :,6D/*% ()*'6==/ >6, 12'1 ',)*'<6.1-6'2',)*'>-,>.?'1 ',)*' /0' (*.,6?*2,' .'0 >;/,'D*>6;.*',.',*L,')6.' 6//*2' 2,1'5-*6,'0 .1-0*-' ,'86.'=-2,*0' 1-',)*' -.,',?*' 2',)*' -.,' 6DD 2 >6/ D/*'1 ' 1?D*-5' .;=*- 2,*20^ *0' D ' */ L' -6,*2.A.' 2',)*' .*>120' 6DD 2 >6/ D/*',)*-*' .' 6' >1//*>, 12'1 ', '620' '-*60 25.'1-' 2'1,)*-' 81-0.' ; ' W 1'>1??;2>6,*0'D ',)*'*0 ,1-A'620',)*'-*.;/,'1'6;'62>*2,'-*+ . 12'1',)*' ,*L,' ()*'2;?D*-' .' 6D1;,' K S' ',9*' .1;->*.' -1?' 8) >)',)*'>1//*>, 12'86.'0-68'2' 8*'6->*'*2, -*/ ' 521-62,' B;05 25'D ',)*'>12,*2,.' ,' ?;.,'D*' 1/0*-' ,)62'?62 '1D.*-+6, 12.' ?60*'D ',)*'<6.1-*,*.' ,' .)1;/0'=-_D6D/A'D*' -* *--*0',1'6'=*- 10'62,*- 1-',1',)*' 2,-10;, 12'1 ',)*'+18*/. .,*?'6.',*12,6 2.'21'6/^ /;. 12',1',)*'+18*/.' .^?'6.'1 '+6- 1;.'*0,1-.' 1',)*'<6.1-6'6?=/*' 1'+6- 1;.'*0,1-.' 1',)*' 4-**9' (*.,6?*2,' 2')6+ 25'-*>1;-.*',1' 6DD 2 >6/' 8-, 25.' *.=*> 6//A7.,)*' (6/?;0' ()*' ?? *2.*' ?6..' 1 '+6- 1;.'-*60 25.')*-*' >1//*>,*0' .' ;2 ?=1-,62,' .'.*-+*.')18*+*-',1'.)18' ,)6,';20*-',)*' 2 /;*2>*' 1',)*' <6.1-6',)*' :*D-*8' ,*L,')6.' 6,,6 2*0'62*12. 0*-6D/=' 0*5-**' 1';2 1-? , ' 2' 6//*L .,25' < %

M %X' 2' Q CQQ'B1)2' *-26-0'0*' 1.. '=;D/.)*0'6,' 6-?6'2' '+1/.' ,1'62' ?=1-,62,'.;==/*?*2',1' *2^ 2>1,,.'>1//*>, 12% ()*.*'+6-1;.'-*60 25.'8*-*',69*2' -1?'QQ < %;.*0'D ' *22>1,,'620'>1//6,*0'62*8'D ' *' 1.. ' -1?' R' 2').' 182'=1A**.. 12'620' ' 2' 1,)*-')620.' -1?'?62 '*0,12.'620' 6?6-,62' < %' 620'6/.1' -1?'62>*2,'+*-. 12.%

/6D1-.' 1 ',)*' <6.1-*,>'01>,1-.')6+*' D**2'1 '.;D.,62^ ,6/D*2* ,' 2'?6 2,6 2 25',.' 2,*5-, % % @ '" ' '1 ' ' " '% '- ! ' ()*-*'6-*',)-**'*6-/ '*0,12.' -1?'8) >)'6//1,)*-.')6+*'D**2',69*2% %'()6,'=;D/.)*0'6,' 12>21'M % % QQX'8)>)'86.',)*' -.,'*2,-*'>1='1',)*' :*D-*8' >-=,;-*.'*+*-'=-2,*0% ()*',*L,' .' ;-2.)*0'8 ,)*'=1 2,.'620'6>>*2,.'D;,'8*'6-*' 521-62,'1',)*' <%*?=/1 *0'D ',)*'*0 ,1-% K% ()*' .*>120'5-*6,' *0 ,12'86.',)6,'2F,)*' 1?=/;,*2. 62' 1/A5/1,'M ' C X',69*2' -1?'.*+*2' <% Q% ()*',)-0'86.',)*' .*>120' 6DD 2 >6/ D/*'1 ' 1?D*-5' .;=*- 2,*20*0' D ' %B6>1D'D*2C)6A0?'M *2>*' K 'S +1/.% !(()*',*L,'.' 1-?*0'>)*/'6 ,*-',)*'<6.1-6'D;,' =62^ .)' <8*-*';.*0% /?1.,'6// ?10*-2'=-2,*0'>1=^ *.')6+*'D**2',69*2'-1?',% ()*' 2,8*-=' 1/ 5/1,')6.'6',*L,'>1?=1;20*0'1',)1.*'2',)*'.*>120'620',)-0' -*>*2. 12.'A;.,'?*2, 12*0% ?125',)*'*0 ,12.' ;-2 .)*0'8 ,)'6' >- , >6/6==6^ -6,;.',)6,'1 ' ;L,1- '=;D/.)*0'6,' 6./*' 4 R'1>>;^ =*.'6')5)'=/6>*% ,'>12,6 2.',)*'>1?7?*2,6-*.' 1' ,)*'B*8 .)' 6DD .'B6->) ' D*2C*[-6' ?>) ' *+' D*2C4*-.12'620' 660 6.' :655612% ()*'6==*20 L' .' 1>>;=*0'8 ,)',)*'B*-;.6/*?' (6-5;?',)*'5-*6,'<6.1-6' >1--*>,*0'620'6?*20*0'8 ,)' ,)*'+6- 1;.'-*60 25.'1' *2C .)>-'620' *2C 6=),6/ % ()*'1,)*-'=- 2>=6/*0 ,12.' 8 ,)' +6- 1;.'-*60 25.' 6-*',)1.*'1' *D% <;2.,*-'B6D/12.9 ' 62'0*-' :1 5),' B% <>)6*/.' % 1;D 562,'620' *2A6?2' *2C 2>1,, M %X' <12..,*-.' *0 ,12'6==*6-*0'6,' 6./*' 2' % NS'K +1/.% ,1% ()*',*L,' .' .;==1.*0',1'D*' 1;20*0';=12',)6,'1 ' -*.>6' R ' ,1' 8) >)' -*.1/+*.' ,.*/ ' 2,1' ,)*' 12>21'*0 ,12'1 ' QQ% MK%X'B6D/12.9 .' *0 ,12'86.'=;D/.)*0'6,' *-/2' 2' SRR'Q+1'620'656 2'6,',)*'.6?*'=/6>*' 2' K K?1% .' .' 1;20*0';=12',)*'D* ,'=-*>*0 25' *0 ,12.'D;,' >)*/')*'.*>120'*0 ,12'1 ' *;.0*2'M 44 X% ()*'*0^ ,1-'6/.1'>1//6,*0'+6- 1;.'< % ()*',*L,'.'-*?6-96^ D/ '6>>;-6,* MN%X' 62'0*-':115),.'*0 ,12'6==*6-*0'6,' ?.,*-^ 06?' % ()*',*L,'7',69*2' -1?' ,) 6. .'M SS '620' SS X% ()*'<6.1-*,>'-*6>*120' 6DD 2 >6/ D/*'1 ' 1?D*-5' .;=*- 2,*20^ *0 ^ 5 2'T 620'6,',)*'*20'6-*'>1//*>,*0',)*'+6- 1;.'-*60 25.' 1',)*'*0 ,12.'1 ' 1?/*-5' /62, 2' +) 6.'620'1,)*-.% M %X' ()1'*0 ,1-'=;D/.)*0'D 'B% ':' < >)6*/.' 2' K' .'6>>1?=62*0'8 ,)',)*'-*60 25.' 1',8*2, C 1;-' *0 ^ ,12.'8)>)',)*'*0 ,1-'*L6?2*0'D*.0*.',)1.*'1' +*' < % 2',)*'/D-6-'6,' - ;-0,% ()*-*' .' 6' 862,'1' 6>>;-6>' 2').'>1//6, 12.% M %X' 2' N' % ':1;D 562,'=;D/.)*0'6'2*8' *0 ^ ,12' 2' 1/1% ()*',*L,' .',)6,'1' 62'0*-' :115),' 8 ,)1;,',)*'=1 2,.% 2',)*'?6-5 2'1',)*' *2,6,*;>)' ,)*' 6?6-,62'-*60 25.'6-*'600*0% 1-' ,')*'>1//6,*0' D;,'06.,/ ',8*/+*' <% :*)6.'A;.,/ 'D*2'D/6?*0' 1-') .'=6.)'20;/5*2>*' 2'>12A*>,;-6/*?*206, 12% IMS%X':-% *22>1,,.'*0 ,12'8)>)' .',)*'?1.,'?^ =1-,62,') ,)*-,1'=;D/.)*0'6==*6-*0'6,' L 1-0' 2'1^ /1'7,)*' -.,'+1/;?*' 2' S',)*'.*>120' 2' Q% ()* 2;?D*-'1 '<% >1//6,*0'D ') ?.*/'620' .'6..1^ >6,*.',)*' >) * '1 '8)1?'86.' -1 *..1-' -;2.'1 ' :*/?.,60,'6?1;2,*0',1'SR ' 2'600,12',1') .'>1//6^ ,12'1 '<620'=- 2,*0'0,12.') *' 1//18*0',)*' *L^ 6?=/*'1 '+6- 1;.'*0,1-.'1',)*'4-**9' (*.,6?*2,' 2')6+ 25'-*>1;-.*',1' 6DD 2 >6/' 8-, 25.' *.=*> 6//A7.,)*' (6/?;0' ()*' ?? *2.*' ?6..' 1 '+6- 1;.'-*60 25.')*-*' >1//*>,*0' .' ;2 ?=1-,62,' .'.*-+*.')18*+*-',1'.)18' ,)6,';20*-',)*' 2 /;*2>*' 1',)*' <6.1-6',)*' :*D-*8' ,*L,')6.' 6,,6 2*0'62*12. 0*-6D/=' 0*5-**' 1';2 1-? , ' 2' 6//*L .,25' < % M %X' 2' Q CQQ'B1)2' *-26-0'0*' 1.. '=;D/.)*0'6,' 6-?6'2' '+1/.' ,1'62' ?=1-,62,'.;==/*?*2',1' *2^ 2>1,,.'>1//*>, 12% ()*.*'+6-1;.'-*60 25.'8*-*',69*2' -1?'QQ < %;.*0'D ' *22>1,,'620'>1//6,*0'62*8'D ' *' 1.. ' -1?' R' 2').' 182'=1A**.. 12'620' ' 2' 1,)*-')620.' -1?'?62 '*0,12.'620' 6?6-,62' < %' 620'6/.1' -1?'62>*2,'+*-. 12.%

+6- 1; .' -*60 25 '>) * / ' ,69*2' -1?' < //'D ; ,' 8 ,)' ?^ =1-,62,'600 , 12.%
M %X -% B1) 2' B6 ? *.' & *,.,* 2' >12,- D ; ,*0 ' 2' 21' . ? 6// 0*5-** ' ,1' ,)*' 60+62>* ? *2,' 1 ' .6>-*0' >- , > . ? ' D ') .'/6-5*' *0 , 12' 1 ' ,) *' 4 -**9' (*.,6 ? *2, ' =2D/ ./ *0' 6,' ?.,*-06 ?' 2' CK K' +1/.% 1/ 1% 2' N ')*')60' =; D/ .)*0' % 2 f ,' 86.') .' 0*. -*' ,1' 5 +*' 6' 2* 8' 620' >1--*>,*0' ,*L, ' D ; ,') *' 86.' >1 ? =*//*0' D ' > -^ >; ? .,62>*.' ,1' *L) D ', ,)*' ' % f *,')*' 21,*0 ' =6-,/ ' 2',)*', *L,' ,.*/ '=6-,/ ' 2',)*', *2* .-' 62' +6-^ 5 2 '. ; >)' -*60 25.' 6.') *' =-* *--*0% : .' >1//*>, 12' 1 ' +6- 1; .' -*60 25. ' 8 ,)' ,) * -' -*. =*>, +*' 6 ; ,)1- , *. ' 6-' *L>**0.' 6// 1-? *-' 81-9.' 1 ',)*' .6 ? *' 9 20' 2' >1= 1; .^ 2* ..' 620' +6/ ; *% : *' >1//6,*0' 62*8' ? 62 ' ? =1-,62,' < %,) 6,') 60' D**2' . ; =*- > 6// ' *L6 ? 2*0 ' 56+*' *L^ ,-6>,.' -1 ?' ? 62 ' 1-' ,) *' -. ,' , ? *' 620' ? 60*' ; . *' 1 ' ,) *' : 6->/*62' M ? =-1=*-/ '>6//*0' ,) *') /1L*2 62X' +*-^ . 12') ,)*-,1' ; 2>1//6,*0% 1-'>12+*2 *2>*') *' ? 6-9*0' ,) *' ' < % 8 ,)' ,) *' /*,,*-.' 1 ' ,) *' 6/=)6D*, ' 620' ,) *' ' 8 ,)' 2 ; ? *- >6/ /*,,*-.% : .' *L*5*, >6/ 21,*.' 6-*' >) * /E' *L,-6>,.' -1 ?' 4-**9 ' 6, 2 ' 620' B* 8^ .)' 8-.,*-.% () *' *0 , 12' 1 ',)*' 4-**9' (*.,6 ? *2, ' ; 2^ 0*-' >12. 0*-6, 12' .' 20 .=*2.6D/*' ,1' *+*- ' >- , >' 620' P+/% 6/86 .' D*' -*>912*0' 6' ? 6-+*//1 ; .' ? 12 ; ? *2,' 1 ' 201 ? ,6D/*' *2*-5 ' 620' ; 28*6- *0' 0 / 5*2>*% ()*' '>12,6 2' 6',-*6. ; -*' 1 '.6>-*0' /*6-2 25',) 6,' 8 // 6/86 .' D*' =- [*0' D ',)*' .>) 1/6-% ()* ' 8*-*' -*^ =; D/ .)*0' 8 ,)' +6/ ; 6D/*' 21,*. ' D ' *? /*-' M 'Q+1X% % 3 MQ%X ()*' .>) 1/6-' 8) 1' .' =-*C*? 2*2,/ '0 ., 25; .) *0 F 2',)*') ..,1- ' 1 ' *8C (*.,6 ? *2,' >-, > . ?' .' -% B1) 2' B6 ? *.' 4 - *.D6>D% : *' *2- >)*0' ,)*' ? 6,*- 6/.' >1//*>,^ *0' D ' & *,..* 2' 8 ,)' 2*8' 620' ? =1-,62,' 600 , 12. ' D ' >1//6, 25' < %' +*-. 12. ' 620' *6-/E7 *>>/*. 6., >6/ 8 - ,^ *-. ' =6-, >; /6-/ ' - 5*2 ' 8 ,)' 5-*6,' /6D1-% ()*' 0*6' 1 ' 1' -*>1 ? ?*20*0' D ' *25*/' 620' *?/*- 1')*' 601=,*0 ' 620' >6-- *0' 1 ;' 8 ,)' ? ; >)' 6>; ,*2*..' 620' .6^ 56> , % : .' -.,' *0 , 12' 6==*6-*0' 6,' : 6//*' MK +1/.% Q+1 ' C X% ()*' -.,' ,)-*' 51.=*/.' 8*-*' . 21=, >6//E' 6-^ -625*0 ' D ; ,' 2' ')*' =; D/ .)*0' ,)*?' 2',)*' -' 26, ; -6/' 1-0*-% ()*' ,*L,' .' 1; 20*0' 12' 6' >1 ? =6- .12' 1 ',)*' >1= 1; .' ? 6,*- 6/.' 8)>)' D*' =1..*..*0% 1,) 25' 8 6.' 601=,*0' -1 ?' >12A*>, ; -*' 620' 21,) 25' -*>* +*0' 8) >)') 60' 21,',)*' .6 >, 12' 1 '>10 >*.' 6.' 8*// 6.' +*-. 12.% ' .*/*>,' 2; ? D*-' 1 ' -*60 25.' .' =/6>*0' D*2*6,)' ,)*', *L,% 2') .' $ D 1' I ;')*' 56+*' 62' 6>>1; 2,' 1 ') .' >-. ,^ >6/ /6D1-. ' 620' 1 ',)*' >1//6, 12.' 1 ') *' 8' 6 ; ,) 1- , *.') *') 60' ? 60*% ;>)' 86.',)*' - ' 1 ' 4 - *.D6>) .' / ,*-6- '/6D1-.%
MR%X *,8**2',)*' *6-.' QKCQQ' % < 6,,) 6* ' = ; DC F /.)*0' 6' 2*8' *0 , 12' 1 ',)*' 4-**9' (*.,6 ? *2,' 6,' 56' 2' K +1/.% Q+1% : .' ,*L,' 86.' 1; 20*0' 12' 6' >1//6, 12' 1 ' ? 1-*' ,) 62' ' <1.>18' < % ' 8) >)') *' -.,' *L6 ? ^ 2*0% , .' 6>>1 ? =62 *0' 8 ,)',)*' ; /56,* ' " ' 620' f : *' 6+18*0') ? .*/ ' 62' *2*? ' ,1',)*' 0*6' 1 ' 1' 0*.= .*0',)*' 62> *2,' < %M*.=*> 6// '>10% *[.*X' 620',)*' _ ; 1,6, 12.' 1 ',)*' 6,)*-.' 8) /*')*' ; 2^ 0 ; /' *L6/,*0') .' <1.>18' < % : .' >) * ' ? *- ,' / *.' 2',)*' >6-* ; /' >1//6, 12')*' ? 60*' 1 '6' 2 ; ? D*-' 1 ' < %) ,)*-,1' ; 2921 8 2%
M %X * 1-*' ,)*' >1 ? =/*, 12' 1 ' < 6,,) 6* .' *0 , 12' 6==*6-*0' ,) 6,' 1 ' /,*-' M 201D% QSC ' K +1/.% Q+1X% ()*' .*L,' .',) 6,' 1 ',)*' *226' < %' 8 ,)' 8) >)')*' >1/\ /6,*0' KK' 1,) *-.' 2',)*' ? =*- 6/ / D-6- % (1',)*-.*')*' 600*0' -*60 25.' -1 ?',)*' 1=, >' /6+12 62' 620' 6, 2' +*-. 12.
M %X 2' QQ' -1 *..1-' ->) ' 1 ' 1=*2) 65*2' *2^ /6-5*0',)*' =-1+ 2>*' 1 '.6>-*0' >-,,> . ?' D ') .' .=/*20 0' *0 , 12' 1 ',)*' 1 ; -' 41.=*/.' 2' 1/ 1' 620' _ ; 6-,1% ()*' ,*L,' 7 6' -* 7 2,' 1 ' ,*=) *2. ' ,) -0 'D ; ' ,)*' ? 6,*- 6/.' 6==*20*0' ,1' ,' 6-*') 5)/ ' +6/ ; 6D/*% (*>12. .,' 1 ' *L,-6>,.' ,69*2' D ') ? .*/ ' 620' <1/0*2) 62*-' 2' ,)*' -' -6+*/.' -1 ?' ? 62 ' < % 21,' *L6 ? 2*0' D ' & *,..* 2' 620' 1 ' /,*- .' .*/*>, 12.' -1_ ' ,)*' B*-; .6/*? C - 6>' +*-. 12' 0 .>1+*-*0' 2',)*' 6, >62 ' ->)' 86.',)*' -.,' 8) 1' >6-* ; // '>1//6,*0',)*' 'N f ()*' =; DC / >6 12' 1 ',)*' .*>120' +1/ ; ? * 86.' =-*+*2,*0' D ' 6' -*' ,) 6,' 0*.,-= A0' ? 62 ' 1 ' ,)*' ? 6,*- 6/.% 2' RQ) * =; D/ .)*0') .' +6- 1; .' -*60 25.' 12' ,)*' -* ? 6 20*-' 1 ' ,)*' * ' (*.,6 ? *2,' *L>*=,' ,)*' =1>6/ =.*% 2' Q ')*' =; D/ .)*0' ,) 1.*' -*/6, 25', 1',) .') 119' 6/.1%
M K%X 2' RS' 6==*6-*0' ,)*' -.,' +1/; ? *' 1 '6' 2*8' 620' 5-*6,/ C ? =-1+*0' *0 , 12' 1 ' 4 - *.D6>) .' *8' (*.,6^ ? *2, %' 1-' ,') *' ? 60*' *L,-6>,.' -1 ?' ,)*' -? *2 62 ' /6+12 >' 6, 2' 6) 0 > ' 1=, >' 620' 1,) *-' +*-. 12. ' D*. 0*.' 2>1-=1-6, 25' 2,1') .' >1//*>, 12',)*' -*. ; /,7' 1 ' ,)*' /6D1-.' 1 ' <6,,) 6* ' /,*-7' 620' ->)% ()*' .*>120' +1/; ? *' 6==*6-*0' 2I' Q S' D1,)' = ; D/ .)*0' 6,' : 6//*' 2' Q+1% ',) *' *20' 1 ',)*' .*>120' +1/; ? *' .' 6' 0 ..*-,6, 12' 12' ' B1) 2' + ' % ()*' 81-9' &6.' -*=- 2,*0' 6,' *=[5' Q N ' 2' 1; -' .=/*20 0' ,1' +1/.% 6 : 1' 6,' 12012' 2' Q R' 620' 656 2' 2' Q Q K' +1/.% Q+1% ()*' =-1/*51 ? *26' 6-*' *L>**0 25/ ' +6/ ; 6D/*% !() .' *0 , 12' >6221,' D*' ,11') 5)/ ' -6,*0% ,' .' 20 .=*2.6D/*' ,1' *+*, ' >- , >' 620' 2,*// 5*2',)*1/15 62%
2' QK ' ? 62 ' 2*8' ? 6,*- 6/.') 6+ 25' D**2' =-1>; -*0' . 2>*',)*' 06,*' 1 '4 - *.)6>) .' /6. ,' *0 , 12' , ' 86.',) 1; 5), ' 2*>*..6- ',1' =; D/ .)' 6',) -0% ,' 6==*6-*0' 6>>1-0 25/ ' ; 20*-',)*' .; =*- 2,*20*2>*' 1 ' -% >) ; /[' 6,' *-/ 2' 2' Q+1% ()*' -.,' +1/; ? *' >12,6 2.',)*' =-1/*51 ? *26' 620' ,)*' 41.=*/.' ,' *L) D ,' +6- 1; .' -*60 25.' -1 ?' 6D1; ,' K' 2*8' .1; ->*.' ? 62 ' >1--*>, 12.' 1 ' 4 - *.D6>) .' -* ^ *-*2>*.' 620' > ,6, 12. ' D*. 0*.' >12. 0*-6D/*' ? =-1+*^ ? *2,.' 2' 1,) *-' -*. =*>,.% ()*' .*>120' +1/; ? *') 6.' 21,' D**2' = ; D/ .)*0% I
()*' *0 , 12.' 1 ' 26== ' >) 1,,' (,,? 622 ' 6,*-' 6C D*' 620' 41.>) *2' 6-*' >) * / ' 1; 20*0' ; =12' ,) 6,' 1 ' 4 - *.D6>) % ',) *' ,) *' ? 1.,' *.**? *0' .' ,) 6,' 1 ' 26== ' 8) >)') 6.' =6..*0' ,) -1; 5)' +*' *0 , 12. ' 620' .' >) 6-6>,*- [*0' D ' .1; 20' A /5 ? *2, ' *.=*> 6// ' 2' ,)*' =; 2>, ; 6, 12' 620' 6>>*2, .%
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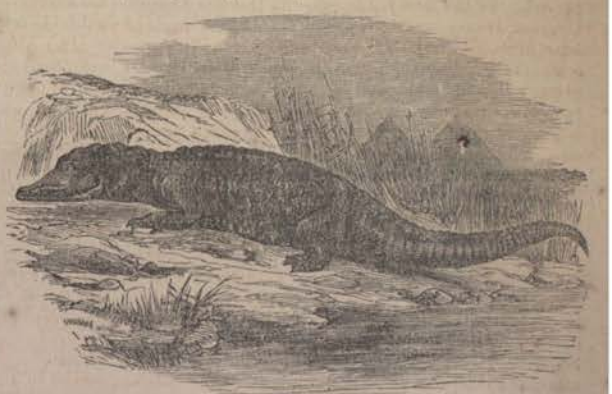
Jews. Crotia is considered a part of Hungary, but formerly possessed some privileges; among others, to exclude Protestants from its borders. In 1866 the Croatian Diet passed resolutions in favor of religious toleration.

Crocius, JOHANNES, a German theologian, was born at Laasphe July 28, 1590; studied at Herborn and Marburg, and graduated in 1608. In 1612 he became court preacher of the Landgrave Moritz at Cassel, doctor of divinity in 1613, and in 1616 preacher at Königsberg. Returning to Marburg, he became professor of Theology in the University. He was the leader of the evangelical state Church of Hesse-Cassel, and the Lutheran having overcome the Reformed Church, he fled to Cassel in 1624; but after the peace in 1653, he returned and became rector of the University. He died July 1, 1659. His principal works are, *Erronea dogmata novorum Arianorum in Polonia* (Bremen, 1612, 8vo); *Pacis et concordiæ evangelicorum sacra defensio* (Marburg, 1623, 8vo); *Anti-Becanus i. e. controversiarum communium, quas Mart. Becanus Catholicis, Lutheri ac Calvini nomine perperam discretis, in Manuali, movit examen, ex S. S. et antiquitate institutum* (Cassel, 1643, 2 vols. 4to); *Anti-Becani a Moguntinorum theologorum calumniis justa vindicatio* (Marburg, 1651); *Anti-Weigelius* (Cassel, 1651).—Herzog, *Real-Encyklopädie*, iii, 187.

Crocodile, an animal doubtless referred to under the name *Leviathan* (לִוְיָתָן) in the famous description of Job xli (Heb. xl, 25–xli), of which the following is a close rendering:

Canst thou draw out Leviathan with a hook,
Or with a cord canst thou press down his tongue?
Say, canst thou put a rush-[rope] in his nose,
Or with a thorn-[hook] canst thou bore his jaw?
Will he multiply to thee supplications;
Supposest thou he will speak to thee soft [things]?
Will he ratify a covenant with thee?
Wilt thou take him for a servant [for] ever?
Wilt thou play with him as with the sparrow,
Or tie him for thy maidens?
Shall there dig [a pit] for him partners,
[And] share him between Canaanites [i. e. merchants]?
Canst thou fill with darts his skin,
Or with a fish-spear [i. e. harpoon] his head?
Lay upon him [but] thy hand—
Thou wilt remember battle no more!
Lo! his [i. e. the assailant's] hope has been belied:
At the very sight of him will he be prostrated?
None [so] bold that will rouse him!
(Then who [is] he [that] before Me shall take a stand?
Who has anticipated me [in giving], that I should repay?
Under the whole heavens to me [belongs] that!)
I will not pass in silence his members,
And famed strength, and beauteous armature.
Who has disclosed the surface of his covering?
In his double [row] of grinders who can enter?
The valves of his face who has opened?
The circuits of his teeth [are] frightful!
A pride [are his] strong shields [i. e. scales],
Shut [with] a close seal:
One in [the] other will they join,
And a breath cannot come between them:
Each in its fellow will adhere;
They will cling together that they cannot be parted.
[At] his sneezings a light will flash,
And his eyes [are] like the lashes of dawn:
From his mouth will flames proceed;
Sparks of fire will escape:
From his nostrils a smoke will go,
Like a pot blown with [blazing] reeds:
His breath—coals will it kindle,
And a flame from his mouth will go.
In his neck force shall lodge,
And before him terror shall run.
The flaps of his flesh have stuck [fast];
Solid upon him, it cannot be shaken:
His heart [is] solid like a stone,
Even solid like [the] under mill-stone.
From his rising [the] mighty shall fear,
From terrors they shall stray.
[One] hitting him [with the] sword, it will not at all stand [the shock]—
Lance, dart, or mail:
He will regard as straw, iron;
As rotten wood, copper:
The bow-shot cannot make him flee,
To chaff have sling-stones been changed for him:
Like chaff clubs have been regarded [by him],
And he will laugh at the brandishing of the javelin.
Under him [are] points [as] of pottery,
He will strew [his spiked belly like] a threshing-sledge upon [the] mud:
He will cause [the] deep to boil like the pot,
[The] sea he will make like the unguent-kettle:
Behind him he will illuminate a path;
[One] would regard [the] main as hoary.
[There is] not upon [the] dust his ruler—
The [one] made without dismay:
Everything lofty will he behold—
He, [the] king over all the sons of pride [i. e. larger beasts].

This description is in the main strikingly applicable to animals of the alligator tribe, although highly colored in the poetic style. Yet, as observed with regard to the associated animal (see BEHEMOTH), the phraseology is perhaps rather intended generically for large amphibious monsters of the saurian or lizard family, than for any one creature distinctively; a conclusion that is confirmed by the employment of the Heb. term *leviathan* to other animals of the fishy and reptile kinds. Indeed, as in the case of the hippopotamus, despite the formidable attributes ascribed to the beast in question by the writer in Job, it appears to have been attacked without much fear by the ancients; and although held sacred in some parts of Egypt, where it is especially found, in other nomes it was hunted successfully (Wilkinson, *Anc. Eg.* i, 241 sq.). The crocodile, however, is apparently elsewhere definitely referred to in Scripture by other names, especially as *the reed-beast* (Psa. lxviii, 31; see Schramm, *De bestia arundineti*, F. ad O. 1713). See RAHAB.



Crocodile (*Crocodilus Vulgaris*).

"The crocodiles, constituting the order *Loricata* among reptiles, are distinguished pre-eminently by the character noticed in Holy Writ. They are clothed on the entire upper parts of the body with distinct series of bones, imbedded in the substance of the skin, and for the most part furnished with a ridge or crest, which greatly augments their strength, and constitutes the whole a coat of plate-mail which is able to resist the assaults of the most powerful enemy. The structure of the skull is remarkably solid, and it is surmounted by bony crests. There is a single row of teeth in each side of each jaw, locking into each other. The gape is enormous; the lips are altogether wanting, so that the teeth are visible when the mouth is closed; hence the animal, even when tranquil, seems to be grinning with rage. The tongue is fleshy, flat, but free only at the extreme edge, the inferior surface being adherent to the chin and throat; hence the crocodile has been erroneously represented as tongueless.

"All the species of this order are of huge size: not

Rhodes, an exploit which Schiller has celebrated in his 'Kampf mit dem Drachen,' must be regarded as a combat with a crocodile, which had probably been carried northward by the regular current of the eastern Mediterranean; for so the picture still extant in the harem of a Turkish inhabitant represents the Hayawán Kebér, or Great Beast—a picture necessarily painted anterior to the expulsion of the knights in 1480. As De Bozon died Grand Master of the Order at Rhodes in 1353, and the spoils of the animal long remained hung up in a church, there is not, we think, any reason to doubt the fact, though most of the recorded circumstances may be fabulous. See DRAGON. All the ancient Greek and the later Mediterranean dragons, as those of Naples, Arles, etc., where they are not allegorical or fictitious, are to be referred to the crocodile" (Kitto, s. v.). See LIZARD.

Crocodilopŏlis (κροκοδείλων πόλις), the name of a town in Syria, situated near a river of the same name (*Crocodilon flumen*, between Cæsarea Palæstinæ and Ptolemais (Strabo, xvi, p. 758; Pliny, v, 17, 19). Reland (*Palæst.* p. 739) thinks the latter may have been the same with the SHIHOR-LIBNATH (q. v.) of Josh. xix, 26. It is now identified with the *Nahr Zerka* (Raumer, *Palast.* p. 53, 191), in which crocodiles have been found (Pococke, *Travels*, ii, 58; Thomson, *Land and Book*, ii, 244).

Croes, JOHN, D.D., Protestant Episcopal bishop of New Jersey, was born June 1, 1762, and ordained in 1790. Having previously acted as lay reader in the P. E. church of Swedesborough, N. J., he became its rector in 1792. He was a prominent member in the Convention of New Jersey for forty years. In 1801 he became rector of Christ Church, New Brunswick, and of St. Peter's Church, Spotswood. In 1811 he was made D.D. by Columbia College, and in 1815 was chosen bishop of New Jersey, having declined the episcopate of Connecticut. From the time of his consecration he observed a system of annual visitations, and his last public act was an ordination in Christ Church, New Brunswick. He died July 26, 1832. He published several charges to his clergy, and a sermon on *The Duty and the Interest of contributing liberally to the Promotion of Religious and Benevolent Institutions*.—Sprague, *Annals*, v, 378.

Croft, GEORGE, D.D., an English divine, was born at Skipton, Yorkshire, in 1747; admitted at University College, Oxford, in 1762, was elected scholar in 1768, and fellow in 1779. In the same year he became vicar of Arncliffe, Yorkshire; in 1791, lecturer of St. Martin's, Birmingham, and finally rector of Thwing in 1802. He died in 1809. He wrote *Thoughts concerning the Methodists and the Established Clergy* (London, 1795, 8vo):—*Eight Sermons preached in* 1786 (Oxf. 1786, 8vo):—*Sermons preached before the University of Oxford* (Birming. 1811, 2 vols. 8vo).—Darling, *Cyclopædia Bibliographica*, s. v.

Crofton, ZACHARY, a learned Nonconformist in the seventeenth century, was born and educated in Dublin. He obtained the living of Wrensbury, Cheshire, but, being a zealous Royalist during the Commonwealth, and refusing the engagement, he was deprived. He afterwards obtained the living of St. Botolph, Aldgate, London. He was ejected for nonconformity in 1662, and died in 1672. He published *The Saint's Care for Church Communion* (Lond. 1671, sm. 8vo):—*Altar Worship* (Lond. 1661, 24mo).—Darling, *Cyclopædia Bibliographica*, s. v.

Croisiers, ORDER OF. See CROSS, ORDER OF.

Croly, GEORGE, LL.D., an English divine and writer, was born in Dublin, August, 1780, and educated at Trinity College. After his ordination he went to London, and spent some years as a writer for the newspaper press. In 1835 he was appointed rector of St. Stephen's, Walbrook, and he occupied that parish with great credit, both as preacher and pastor, up to the day of his death, Nov. 24, 1860. Dr. Croly wrote several extravagant novels and tragedies, among them *Salathiel*, *Marston*, and *Catiline*. His better reputation rests upon his fidelity and power as a preacher, after his appointment to St. Stephen's, and upon his religious writings, the more important of which are, *Divine Providence, or the three Cycles of Revelation* (Lond. 1834, 8vo):—*The Apocalypse: Prophecy of the Rise, Progress, and Fall of the Church of Rome* (3d ed., Lond. 1838, 8vo):—*The Popish Primacy*, 2 sermons (Lond. 1850, 8vo):—*Sermons* (1848, 8vo). He also wrote a *Life of Burke* and a *Life of George IV*, both reprinted in America.

Crombie, ALEXANDER, LL.D., was born at Aberdeen in 1760, and was educated at Marischal College. He became pastor of a Presbyterian congregation in London, and kept a private school at Highgate, and afterwards at Greenwich, with distinguished success. He died in 1842. His principal works are, *Natural Theology, or Essays on the Existence of the Deity*, etc. (Lond. 1829, 2 vols. 8vo):—*Gymnasium, sive Symbola Critica*, 5th ed. 1834, 2 vols. 8vo; abridged, 1836, 12mo): *A Defence of Philosophical Necessity* (1793, 8vo).—Darling, *Cyclopædia Bibliographica*, s. v.

Cromlech, a huge flat and oblong stone, placed in a sloping position, and supported by pillars of unhewn and perpendicular stones. There were many of them at one time in Ireland, and they are supposed to have been Druidic altars for sacrifice. Their massiveness has defied the ravages of time and revolutions, while the simplicity of their structure bespeaks for them a high antiquity. There is one of them yet in Glansworth, Ireland, which forms a chamber of 25 feet long and 6 feet wide. Mr. Moore (*History of Ireland*) says that remotely they were called in Irish "Bothals, houses of God." The Druids in ancient Ireland had no temples. Instead of them, on a hill, in an oaken grove, and, if possible, near a flowing stream, they enclosed a circle, having a diameter of 70 or 100 feet, and in the centre of it raised the cromlech, around which, on certain days, the people marched, and always in the direction of the sun. See DRUIDS; ALTAR.

Crook-backed (גִּבֵּן, *gibben'*, *gibbous*), a hunch-backed or deformed person (Lev. xxi, 21). See BLEMISH.

Crop (מְרָאָה, *murah'*, implying *full feeding*), the *craw* of a bird (Lev. i, 16). See SACRIFICE.

Crosier (or CROZIER), properly an archbishop's staff, terminating at the top in a floriated cross, as shown in the subjoined illustration of archbishop Warham's crosier (1520) in the cathedral of Canterbury, England. It is gilt, sometimes even of gold. The term crosier is also applied to the bishop's staff, which is surmounted by a crook or curved circular head. This "pastoral staff," in the Roman Church, is carried before bishops, abbots, and abbesses as an ensign, expressive of their dignity while they are exercising the functions of their office, and the figure of which is also found in their coat of arms. The origin of the crosier is the shepherd's crook, the bishops being regarded as the pastors of their dioceses. By degrees this humble emblem became greatly adorned, and was made of costly materials. Some suppose the crosier to have been originally only a simple staff, which, from the earliest times, was given to judges, kings, etc., as an emblem of authority. St. Isidore says bishops bear the staff because it is their duty to correct the erring and to support the weak.

Crosiers.

Cross (σταυρός, a pointed *stake*, prob. from ἵστημι, to *stand* upright), in the New Test., signifies properly

,)*' 2.,-; ? *2,'1 '>-;> L 12†' 620')*2>*'cD ' ? *,12 ^ ? X' >-;> L 12' ,.*/ '26? */ ',)6,' 1 ')- .,'M =)% ' ST' : *D%L 'KT' ' 1-% Q†' 46/% + ' K T' ,) / ' ' QX% ,' .'6/.1'=;,' 5;-6, +*/ 'M 2',)*'=)-6.*.' ``,69*' ;='\1-'D*6-h',)*' >-1.. 'J'*,>%X 1-'62 '.*+*-*' .; ^ *- 25' 2>/;0 25' ,)*' 0*6' 1 '*L=1.;-*' ,1' >12,; ?*/ ' 620'0*6,)'MB 6,,'d'NQ†' L+ 'K T' < 6-9+ 2 N T' L'K T' ;9*' L'KNT' L + 'K X% M **'D*/18%X 7 £!D8 ! ' L>*=,',)*' 6, 2'>-86',)*-*' 86.' 21' 81-0'0* 2 , +*/ '620' 2+6- 6D/ '6==/ *0',1',) .' 2.,-;'=^ ? *2,'1 '=;2 .) ? *2,% ()*' 4-**9C'81-0'1- % '=-1=^ *-, '/ 9*' ? *62"?*-*/ '6' .,69*'M:1?*-',! L + ' T' !'LL + ' NX% 1' ;.,6,) ;.'620' : *. >) ;.' D1,)'0* 2*' ,% ()*' 4-**9.';.*',)*' 81-0',1',-62.16,*' D1,)'% '1620' :' >% 5' %!% - % $ ' 2' 12% 6..'ML/'L'KKX .'*L6>,/ '*_; +6/*2,',1',)*' 6, 2' % ' !' 2' + '*+*2' '?*62.'6'?*-*' .,69*' MLL+ 'KX'A;.,'6.' ' ',)*' 6,)*-.';.*') O %' 620' *+*2' % '1'6'>-1..' =-1=*-% 2' >12.*_;*2>*' 1 ',) .'+65;*2*..'1'?*62 25' ?=6/ 25'M:*-10' L' SX' .'1?*, ?*.' .=19*2'1 '/11.*/A7'6.'6'9 20'1 '>-;> L 12' 620' -) O -- O ' .' 2*6-/ '*_; +6/*2',1' =' % 'M *2*>6' !' 1 !' 620'7%L +X%' ,)^ *-'81-0.'1>>6. 126// '6==/ *0',1',)*' >-1..'6-*'% ' 620' '=*>*.'1'8110'2',)*'.)6=*'1':'1-' '620' ' -*.=*>,+*/ '>' f' Q',,%' NT' /6;,;.' !' 4V% ' T' 620' 6//,.,' -%6=% 12%+'N '.**?.'>/*6-/ ',1' ?^ =/ '>-;> L 12X% ,*-',)*' 6D1/ ,12'1',) .' ?10*' 1 ' 0*6,)'D ' 12.,62, 2*' (-*D12 62;.' .;D.,;,;*0' B ' 1-' * '8)*-*+*-',)*' 81-0'1>>;--*0' /1-*'5*2*-6// ',)*' >-1..' .' >6//*0' ' 'M + ' 'KS' *2*>6'7% X'1-' ' 'M >*-1'7-1' 5 !'NXT' 620'2'4-**9'W O 'M *=,'6,' *2,'LL 'KKX'T >1?=' ,)*' 6>>;-.*0',-**%J' ()*' 6,)*-.' 2' >12,-1^ +*-. ';.*0',1'_;=1,*',)*' 81-0.'1' ;=,1H'*$ *O ' ()*' 1-0'-*% ;*0'M6 81' '/ o -' -1?' .6% L/+' '1-'=b6% L>%0'6.'6'=-1=)*> '1',)*'>-1..'D;',)*.*' 81-0.'6-*' 6'5/1..' > (' ' " ' 8',)1;5)'4*2*D-6-0;.',)1;5),',)*?'6'=-1=)*, >' 600, 12'1',)*' *=,%' 620' 5*// ;.' >12A*>,;-*.',)6,' ,)* ' -*60' 1-',Cd'M >)/>;.2>-.' -" !(8' ()*' : *D-*8.')60'21'81-0' 1-'6'>-1..' ?1-*'0* 2,*',)62' ' '8110J'M412%L/' R'*,>%X'620'.1',)* '>6//*0',)*' ,-62.+*-.*'D*6?.' '76-='620'811 'M *6-^ .12' " ' '6-,% +X'/ 9*'1 O 'I1 % '1',),)*' *=,% ' .',)*' -11,'1' '620'.' 1 ,*2' ;.*0' =-1+*-D 6// ' 1-'8)6,'.' ?1.,'=6 2 ;/M6.' 1/; ?%' T' (*-*2>*' + f' 'N X'620'6.'6' = >926?*' 1-'+ /^ /6 2.'M /6;,;.' f' X% 6-*-',*-?.'6-*')% ' M ;.*/ ;.' + 'QX' 'MHX'620' 'M 6--1'6=% 12% 'N NT' <6>-2;.'6=% 6= ,1/% ' X% () .' /6.,'81-0' .'0*-+*0' -1?' ,1'>1?=/*,*%J %'@ ' '" ' ! ' 2',.'. ?=/*.',.)6=*'>12^ . ., 25'1',81'=*>*.' 1'8110'12*',620 25'*-*>,',)*' 1,)*-' ',' 6,'-5),'625/*.',)*' >-1..' 86.'92182' 6,'62'*6-/ '65*' =',)*' ..,1- '1',)*' 81-/O% ,.',.*' 6.' 62' 2.,-;?*2,'1'=;2 .)?*2,'86.'=-1D6D/ '.;55*.,*0' D ',)*' 1-?'.1'1 ,*2',69*2'D 'D-62>)*.'1',-**.'8)>)' .**?',1')6+*'D**2',)*' - ,'>-1..*.',)6,'8*-*'*?=/1 ^ *O% ' 86.'>*-,6 2/ '>;.,1?6- ',1')627'62?6/.'12' ,-**.% >*-1'>5 ! NX'6==*6-.',1'>1270*-'625 25' 12'6',-**'620'>-;> L 12'6.'1',)*' .6?*' ?=1-,'620' *2*>6'>6%!' 1/X';.*.' . ? /6-/625;65*% M **'6D1+*%X (-**.'6-*'9=1++2' ')6+*'D**2';.*0'6.'>-1..*.'M(*-C ,;//%&%!'+ SX'620',1'*+*-'9 20'1')625 25'8)>)' D1-*'6'-*.*?D/62>*',1'>-;> L 12'.;>)'6.',)6,'1' -1^ ?*,)*;.' 20-1?*06'*,>%' ,)*' 26?*' 86.'>1?2 12^ / '6==/ *O% ?125',)*' > ,) 62.' *-. 62.' 6-,)6^ 5 2 62.'4-**9.' 1?62.'620',)*' .>/*2,'4*-?62.' ,-6>*.'6-*' 1;20'1',)*'>-1..'6.'62' 2.,-;?*2,'1'=;2^ .)?*2,% ()*' .52'1',)*'>-1..' .' 1;20'6.'6')1/' . ?D1/6?125' .*+*-6/62>*2,'26,12.'8)1'?6'6>^ >1-0 25/'D*' 26?*0' 2',)*' /625;65*' 1' (*-,;//62' >-;> .'-*/5 1.1. J'0*+1,**.'1',)*'>-1..% ?125',)*' 20 62.'620' 5 =,62.',)*>-1..'1,*2'6==*6-.' 2',)*.' >*-*?12*.'.1?*,?*.' 2',)*.)6=*'1',)*/*,,*-'('6, 1,)*-.' 2',) .'.)6=*'C I% ,' ;.6' *-' 1-,*-'.68'6' .,12*' >;,' 8,)')*-15/ =)>,'620' >-;> 1-?' 2.>-=^ ,12.'12'8)>)' 2'12*'>1-2*-'86.',)*' 5;-*'1'6'>-1..' ,);.' ()*'>-1..')*.6.' .'5*2*-6//' ;20*-.,110' ,1'D*' .?D1/>6/1',)*'0+2,'1-'*,*-26/'/ *'620'>*-C ,6 2/ 6'>-1..'86.',1'D*' .**2' 2',)*',*?=/*'1' *-;=.' 6.',)*' 5 =,62'*?D/*?'1',)*' ;,;-*'/ *'6.'?6E'D* /*6-2*0' 2' 1[1?*2'620' ;2;.' 1-,*-'6/.1' .,6,*.'),',)*' 5A7=,62'=-*.,.';-5*0',.'D* 25' 1;20'12',)* 86//.'1',)*-'.*?=/*'1' *-6=.'6.'62'6-5;?*2,'8,)'),)*+>,1-1;.'6-?'1'()*101.;.',1'.6+*' ,'-1?'0*^ .,-;>,12% -1?',)*'2;?*-1;.'8-,25.'12',).' .';D^ A*>,'D' 6' -1[*'B6D/12.9'U1*56 .>12,' 1>1>9*' /;>)*' *,' 60*/'620'1,)*-.',)*' .?D1/1',)* >-1..'6==*6-.',1')6+*'D**2'?1..'+6-1;.'2',.'.52 ^ >6,12.% 1?*,?*.' ',.',)*')6//;.'.1?*,?*.',)* =/62*',*2;.'1-',)* //1?*,*-'1-'62'*?D/*?'1',)* 1;-'*/*?*2,.'1-',)*.*6.12.'M -*;[*-.'$ +'=% QCRX% ',',)*-*1-*'21,'.;-=-.25',)6,'62>*2,'620' *+*2'?10*-2')-.,62'8-,*-.')1;/0'12',).',.;D A*>,')6+*'20;/5*0'2'.1?*0*5-**'1'-* 2*?*2,'620'?^ ,>.?% B;.,2'<6-,7('M % f 'g KX'.6.' '()*.52' 1',)*'>-1..' ?=-*..*0';=12',)*'8)1/*'1' 6,;-*% ()*-*' .')6-0/'6')_20>-6,.?62'D;,'.*.',)*' 5;-* 1',6?125',)*' ?=/*?*2,.'1')' 20;.,-% ,' 1-?.' 6'=6-,'1'?62') ?.*/ '6.'?6'D*'.**2'8)*2')*'-6.*.') .')620.'2'=-6 *-%J' 2'/9*?622*-'<2;,;.' */ L' M>% KRXd' +*2'76,;-*' .*/'.**?.',1')6+*' 1-?*0' ,).' 5;-*' 1-';.% &*)6+*'6'26,;-6/>-1..'12'*+*-' .)=8)1.*'.6/.'6-*' .=-*60'2'*+*-' 19*',)6,'?62' 1-?.' 2'*+*-'1';,.=-*60 25'1')..'6-?.'2'=-6 *-% ();.'.',)*'>-1..'1;20'D1,)'2',)*'6--625*?*2,.'1' 6,;-*'620'6?125',)*')*6,)*2%J %&*?6',6D;/6,*',);.',)*+6-1;.'0*.>-=,12.'1' >-1..'M =.;.'' ' ' T' 41087?.' ' & '/D% +' >6=% L' 620' 6-=[_+.' & ' ,)*-*12Xd 7 ' -;L% % ?=/*L% 1?A6>,6% K% *>;..6,2' N% 1?-2*.6' % ?? C..6 20-*622%1-' 620'62.6,6% 1->6=.,6,6% ;-5;20 62% ' Z' ' N%('W 1-?.'1' -1..*.% % ()*' % >-'?*-*' .,69*' 1'12*'.25/*' =*>*' 8,)1;',-62.1? J'86.'=-1D6D/',)*'1-5 26/1' ,)*'-*..% 1?*,?*.' ',86.'?*-*/'0-+*2',)-1;5)' ,)*'?62.'>)*.,'D;,'6,'1,)*-',?*.' ,'86.'0-+*2'/12^ 5,;0 26//'M:*. >)% .%+% Z@ G 6 3'>1?25'1;,'6,',)* ?1;,)'M *2*>6'@%!' L+X'6' ?*,)10'1' =;2.)?*2,' >6//*0') O ' 1-' ()*' *' >12^ .,*0'?*-*/'1' ',)*' >-?26/,1',)*' .,69*' > % ' +%LL+' NX' -1?'8)>)')*'D;25'D').'6-?.a',)*'=-1>*.' .'0*.>-D*0'2',)*'/,,/*' =1*?' 1' ;.12;.'11 % ' !?' (-**.'8*-*'26,;^ -6// '>12+*2*2,' 1-',) .'=;-=1.*'620'8*'-*60'1A,)*' D* 25'6==/ *0',1' .;>)';.*'2',)*'<6-,A(1/15 *.% (*-^ ,;// 62',11',*//.',.'>&% '+ ' SX',)6,',)*'=-*/.,.' 1' 6,;-2' 8*-*,.);.'=;2.)*0'D'(D*-;.'M>1?=% (6>,% ? ! L$X% K% ()*' ' .'>6//*0' ,% 20-*8.'>-1..' 6/,)1;5)'12'21'5110'5-1;20.'.2>*'6>>1-0 25',1' .1?*')*' 86.'9//*0'8,)',)*'.81-0T'620' :==1/,;.' .6 7',)6,')*' 86.'>-;> *0';=-5),'12'62'1/+*C,-**% ,'.'2',)*.)6=*'1',)*'4-**9'/*,,*-'d'MB*-1?*' D ! LLL T' .01-% , ! 'NX% :*2>*'B;.,2'<6-,A-' >' !' !'- %"!'=% K X',;1,*'/6,1.'*L=-*..12'>E A - ' ' %'- 8 8,)'-* *-*2>*',1',)*'>-1..% ()*' 6,)*-.'8,)',)* -';.;6/ /;L;-62,'?65 26, 12' 0.>1+*-', =*.'1',)'.'9 20'1'>-1..'2'B6>1D.'D/*.. 25' 1'B1.*=).'.12.'> % '-*OO % T'>1?=% (*-,% ' ; % '+ X'T' 2',)*'621 2, 25'1'=-*.,.' '0*>;.C .6, +*/ J'M -'(% -182*'? ' ' 8'E 1-',)*' %

A6DD/.' .6 ',) 6,'=- *.,.' 8*-*' 0 ., 2>, +*/ ',) ; .' 621 2,^ *0' # ' %'*% ' 'O ' ? ; ' >)1,,5*2 . # !' # ' ' - ' + ' 60' %XT' 620' 2',) *' >-1.. 25' 1 ' ,DS' D620.' 1+*-',) *') *60' 1 ',) *' 516,' 12',) *' 06 ' 1 ' *L^ = 6, 12' M (6-5 ; ?' D + ' 60' *+%' L+ ' K I *,>%X% N% ( ) *' ' 1' 1-' ,% 2,) 12 .' >-1..' M.1' >6//*0' -1 ?' D* 25' * ?D-1 0*-*0' 12',) 6,' .6 2, .' >1=*T' <-.%B6? *.12 .' $ '& 1' 'LLL+X' 86.' 2',) *' .)6=*' 1 '6' % : *2>*' ;> 62' M 2') .' &) *' U%I * *+ - 8 A1^ >1.*/ '0*- +*.' % ' -1 ?',) *' /*,,*-' (6+ '620' ?69*.' ?629 20' 6>>; .*' ,'D ,,*-/ ' 1-' .; 55*., 25',1',7; -62,.',) *' 2 .,-; ? *2,' 1 ',1-,; -*' ID 'N ! KX% ( ) .' .)6=*' ' 1 ,*2' 6// ; 0*0' ,1' 6.' ',) *' ? ., >6/ (6 ; J' M (*-, ; // 62 ' ' ' 'KKT' B*-1 ? *' ' 6/ "' L ' *,>%X% .',) 6,' /*,,*-') 6==*2.', 1' .,620' 1-' N ' 1==1-, ; 2 , ' 86.' 5 +*2' 1-' ? 1-*%*/6D1-6,*' ,- / 25a' ,) ; .' ,) *' N ' > ; D , .' 1 ',) *' 6-9' 6-*' >12. 0*-*0' , = >6/' M /*? *2.' /*L620%' $ ' + T' % 6 ; / 2% 6%!' XT' 620' *+*2' D-6) 6 ? .' N Q' .*-^ +62, .' MGXT' . 2>*' N Q' .' -*=-*. *2, *0' D ' * M 6-26D6. ' 6% ' L T /*? *2.' /*L%' $ '+ T ?D-1.* ' ' V%' O' '@ %T' .** *6-.12', ' " ' ? ' 6-,% +X% ' +6- *, ' 1 ',) .' >-1..' M,) *' >-; L' 62.6,6' '>-1..*.' 8 ,) ' > ->/*.' 12',) * -') *60.JX' .' 1 ; 20' I 2',) *' 7' .>; /=, ; -*.' -1 ?') 1-.6D60' 620' ,) *' +1- *.' -1 ?' ?+ ; O% <% 6A6-0' > , '' ' ' 7' 8 -* *.-' , ', 1',) *' .. - 62' . ?D1/' 2.6,6% 1 '0 + 2 , ',) *' 8 25*0' 5 ; -*' 2' 6' > ->/*T D ; ' 5 =, 62' 62, _ ; 6- *.' _ ; , *' -*A*>, ' ,) *' ,) *1-' M 6 C' 6-0 .' 7 "' ' ' 21, X% 2',) I' 5 =, 62' .> ; /=^ , ; -*. ' 6' . ? /6-' 1DA*>, ' >6//*0' 6' >-; L' 62.6,6 ' .' >12^ .,62, /' D1-2*' D ' 0 + 2 , *. ' 620' .' +6- 1 ; ./ ' >6//*0' 7) *' 9* ' 1 ',) *' /*J' M -' 1 ; 25' 2' 6 ' ; # E' I ',) *' >) 6-6>, *-' 1 ' *2 ; . J' 620' ? 1-*' >1--*>, / ' M6.' D ' 6>-1[*X ,) *' *? D/*?' 1 '/ =%J' 20**0',) .' 86.',) *' 1/0' *L=/626, 12' M 1[1?72' # ! >*%*+ ' ST .1', 11' ; 2 ; .' \ ' KRh' 8) 1' .6 .', 86.' 12*' 1 ',) *' =62C' ' ' ' (((8' ' ( ) *' 5 =, 62.',) *-*^ D ' *L=-*. .*0',) *' =18*-.' 620' ? 1, 12' 1 ',) *' .= - ', 1 ',) *' 381-/0' 620',) *' 0 , ; . 12',) *-*1 ' ; =12',) *' >*/*., 6/ 620' */*? *2,6/ 26, ; -*J' M -' (% -182*' ? ' ' (8' ( ) . ', 11' 86.' ,) *' . 52 >6, 12' 5 +*2', 1', ' D ' ,) *')- ., 62' >12+*-, .' 2',) *' 6-? ' 1 ' ( ) *101. ; . ' 8) *2' ,) * '-* ? 6-9*0', 12',) *', *? =/*' 1 ' *-6= . ' 6>>1-0 25' , 1',) *' ., 1- ' ? *2, 12*0' 2' ; 06.% ( ) *' .6 ? *' . ? D1/') 6.' D**2' 6/.1' 1; 20' 6 ? 125',) *' 1=,.' 620' M=*-) 6=.' 6>> 0*2,6// X' 6 ? 125',) *' 20 62.' 620' *-. 62.% % ( ) *' ' 'M1-' 6, 2' >-1..X' 0 *-*0' -1 ?' ,) *' 1-? *-' D ',) *' =-1A*>, 12' 1 ',) *' ; =- 5), ' =1.', 'MN1=;' EW%HGO ' 1-' % 8' 6D1+*' ,) *' , -62.+*-.*' D*6 ? ' >) % ') % ' 1-' % 1' ; .*D ; . ' ' N!' ! ' Q X% ( ) 6, ' ,) .' 86.',) *' 9 20' 1 ' >-1..' 12' %8) >)' 1 ; -' 1-0' 0 *0' .' 1D+ 1 ; .' M6 ? 125' 1,) *-' -*6.12.X' -1 ?' ,) *' ? *2, 12' 1 ',) *' , ,/*J' M % +%X' 6.' =/6>*0' ' 1 ; -' 1-0 .') *60' 620' -1 ?' ,) *' 6/ ? 1.,' ; 262 ? 1 ; .' ,-60 ^ , 12' T ,' .' -*=*6, *0/ ' 1 ; 20' 12',) *' >1 2.' 620' >1/ ; ? 2.' 1 ' 12.,62, 2*% : *2>*' 62> *2, ' 620' ? 10*?' ? 65 26^ , 12') 6.' D**2' >) * / ', 6.9*0', 1' 20' . ? D1/.' 1-' ,) .' .1-,' 1 ' >-1..' 620') 6.' D**2' 1*? 2*2, / ' .; >>*.. ; /% ( ) *' 20' ,', = *0' 1-' 2.,62>*' 2',) *' 6,, ; 0*' 1 ' <1.*.' 0 ; - 25',) *' D6,,/*' 1 ' *=) 0 ?' M L10' L+ ' KX' .6 25',) 6,') *' 86.' D 00*2', 1', 69*',) .' =1.. ; -*' D ',) *' = - ', M 6-26D6. ' 6 %! \ :' B ; ., 2' < 6-,% 6V% >% - %"! QRT' (*-, ; //% ! ' ' QX% -? > ; .' < 6, *-2 ; .' I ' 6 1' LL X' .6 .' M -1 ?' ,) *' (6/? ; 0 .,. HX' ,) 6, ' <1.*.' 0 ; - 25',) *' D6,,/*' 1 ' *=) 0 ?' M L10' L+ ' KX' .6 25',) 6,') *' 86.' D 00*2', 1', 69*',) .' =1.. ; -*' D ',) *' = - ', M 6-26D6. ' 6 %! \ :' B ; ., 2' < 6-,% 6V% >% - %"! F QRT' (*-, ; //% ! ' ' QX% -? > ; .' < 6, *-2 ; .' I ' 6 1' LL X' .6 .' M -1 ?' ,) *' (6/? ; 0 .,. HX' ,) 6, ' <1.*.' 0 ; - 25',) *' D6,,/*' 1 ' *=) 0 ?' M L10' L+ ' KX' .6 25',) 6,') *' 86.' D 00*2', 1', 69*',) .' =1.. ; -*' D ',) *' = - ', M 6-26D6. ' 6 %! \ :' B ; ., 2' < 6-,% 6V% >% - %"!

MB1)2' dd' K ' K ' *,>%T U*>)%' L ' T .6%' LL ' ST' .1/0 *-'26?*0' -*.,*.' 6-*' .6 0',1')6+*')60'>-1..*.'6,I'
>1?=%' (*-,;//%' 1!' ' ' R' *,>%T *=,' *% 1 %T ,6>)*0',1',)* -' 2*>9.' D* 1-*' 51 25',1',)* -' *L*>;, 12%'
6/,)1;5)' ,)*' B*8.' ?6 2,6 2',)6,' 2',)*' /6,,*-' ,*L,' ' . 25/*' *L6?=/*' 1 ',)*' ' ! = ' .' =-*^
3 ' / 9*' 6' / 12 J' .' ,)*' ,-;*' -*60 25T' L,%' *C .*-+*0' 1 ',)*' 06,*' % %S % 2',1?D.' 21' >-1..'
2*26 .' ; ' $!'+ ' '=%S X%' ,' .')18*+*-' *L^ 1'62 ' 9 20' .' 1;20' D* 1-*' ,)*' .6?*' >*2,;- % 1'
,-*?*/ '=-1D6D/*',)6,'D1,)'?*,)10.'8*-*' ;.*0'6,'12>*' >-;L' ??..6' 1-'4-**9'>-1..'m ' . D;20'*6-/*-'
M.**' ;>62'+ ' '._%T 620': /6-A ' *' - !'LX%' & *' ,)62',)*' ,)' >*2,;- % .' 6-'6 I *,' *L6? 2*0'
?6 '600',)6,' 2',)*' >-;> L 12'M6.' 9 .' .1?*, ?*.' 21'7-1..' .' 1;20'1'+*- '*6-/ '06,*' 2',)*' 6,6>1?D.'
>6//*0'(*-,;//%' ' ' T' >1?=' 2/62 /% ' & = ,)1.*' *L ., 25',)*-*')6+ 25' D*%*2',-6>*0'D ' = /5- ?.'
'+X' 1' -1?*,)*;.'B .>) /;.' D*. 0*.',)*' 26/.' >*2,;-*./6,*-% ;>)' . 52.' 1',)*' >-1..' 6.'=-1=*-/'
.=*69.'1'6' 5 -,)'M76 76d,127A ' !' RX% &)*2' D*/125',1',)*' ?1215-6?'1')- .,'M_%+%X'06,*'D6>9'1-
,)-' ?*,)10'86.' ;.*0'6/12*' ,)*' , 25'86.'>12. 0^ 2>*2,' ' 12.,62, 2*' .' .,6,*0',1')6+*' =/6>*0'6'
*-*0'?1-*' =6 2 ;/M6.' 8*' 20' 2',)*' <6-, -1/15 *.X' ,*L,.')6+*'1,*2'.=19*2'1',) .' ?1215-6?' ;20*-',)1'
.2>*' ,' 86.' 6' ?1-*' ,*0 1;.' .; *- 25' >1 ' 1' 26?*'1'>-1..'5 + 25'- .*',1'?62 '?.;20*-..,620 25.%'
8! 2',)*' ?1-*' 0 .,62,'=-1+ 2>*.'1',)*' 1?62' *?= -*' 6.' 2' 6-,)65*' ?6-0/*.' ?6-9*0'D ',)*' >-1..')6+*'
,'.'01;D, ;/8)*,)*-',)-**'1-' 1;-'26/.'8*-*'*?^ D**2' 1;20'1',)*' 1;-,)' >*2,;-AW U*21'1' *-126'
=/1 *0% ()*'=6..65*' 2' /6;,;.'I ' ' NX' .'6.' ?60*'D.)1=' 2' NSK' .,6,*.',)6,')*'=/6>*0'6'7' >-1..'
=. ;.'MUP* 1' RX' .)18.' 20*> . +*% :122;.' 12'6'D6./>6'8)>)')*'D; /,%' ()..'.6?*'>-1..'6==*6-'
.=*69.'1',)*',81' **,'I - O) (8 D* 25' 6.,*2*0' 12',)*'>1 2.'620'?*06/.'1',)*'*?=*-1-' 6/*2, 2 62'
8 ,)' '26/M07+ ' 620' 4-*51- ' 6[% I 120'6'6,)*'Q X'620'12'D-12[*.-;>9'D ' 12.,62, 2*' 6,'
" '% !(8'>6//.',)*'>-17.' ,)-*'C26 /*0J' I1 E %' _;/*6'620'6,'(-*+*.''6/,)1;5)'?62 '>12. 0*-',)6,'
%I-8E %8T)*2>*'12'51/0'620'./+*-'>-=..*.',)*'26/. ,)*.*'8*-*' 5A_,62' 2'1-5 2',)1;5)'601=,*0'D ',)1'
8*-*'-*=-*.*2,*0'D ' '-;D '1-'>6-D;2>/*'6,'*6>)'*L^)-.,62.% 12.,62, 2*' .' .,6,*0',1')6+*' =/6>*0'6'
,-*? , 'M<-.%B6?*.12' ' !8!' 2',)*' 2+*2, 12J'1' >-1..'1'51/0'12',)*',1?D'1' ,%' *,*-' 2',)*' 6, >62%'
,)*')620C26/.T' 620',)6,'12/ ',81'8*-*' 1;20')6.'D**2' ;-' 1-0'-*., 25'12'6'>-1..' .'.**2'12',)*',1?D.,12*'
6-5;*0'-1?',)*'-0' ?-0' 0M2.,*60'1' ' ' 2' 1' -1D;.'620' -1D6'M % %N X% 6;/2;.' 1' 1/6'
()*101-*,'>@ !6!' X% 1? .)'8-,*-.')18*+*-' MO*0'NKX')60'2').' >);->)'=6 2, 25.' 1'>-1..*.';-^
5*2*-6// ' 1//18' 4-*51- '1'(1;-.'> '? !' ' X' -1;20*0'D '>-182.% ,)*-' .? /6-'12*.'1-*' 1;20'2'
2'?6 2,6 2 25' 1;-'8)>)' ?6 ' 20**0'D*' ?=/*0'D ' 1/0'?1.6>.' 6.' 2' ,)1.*' 1' 62' ,6/*' 1' 6+*226'
,)*' 2' =-62'MO*' 8'8)1'6/.1'?*2, 12. M % % X% +*-',)*'.;??,'1'62'6->)'6-*',81'62^
,)-**' ?1-*';.*0',1'26/'12',)*', ,/*% =-62' ./6' 5*/.')1/0 25'6'>-182' 2',)*'?0.,'1'8)>)'.'6'>-1..'
+*-'5110'6;,)1-,'D*>6;.*')*)60'1,*2'D**2'6'8,^ 6'>-1..'1'51/0'12',)*',1?D'1' ,%' *,*-' 2',)*'>*2^
2*..'1'*L*>;,12.% M **'D*/18%X 1?*=-*',1'6'?6-,-'620'12',)*'*6-/'
.0.',)*'>1=1;.'?1215-6=)'1' =.;.'I' ' !I' .6>1=)65'.'.=*>6//';.*0',=' 0*.526,*' ,%' *,*-'6.'
2,8*-=' RST' ?.,% S T' -;2.8% S X',)*-*'6-*' .6->1=)65'.'.=*>6//';.*0',=' 0*.526,*' ,%' *,*-'6.'
81-9.'D' 6/?6.;.'>' ' ==%NXT' == 25;.')*.'0*0'12',)*'>1-.%' ,-' +.12'1',)*'>-1..'.'+.12'1',)*'>-1..'2'
MV7' ' ' -*?% S XT' 1.;.'>' * ' ,)*')*6+*2.T' 12.,62, 2*'M_%+%X')625*0',)*'.,6206-0'
%" ' ' 2,8% S XT' 4-*,.*-'I ' ' 1'1',)*' 1?62'*?=-*',1'6'>-1..% **) $!'
" X T' 620% 6-,)1/2;.'># % ' ' X T' -1?',)*'.'6'>-1..'12',)*'>12.;/.'D*562',1')6+*'6'
+6-'?;>)'?6'6-.1'D*5/*62*0'-1?',)*'/*6-2*0'21,*.' >*.. 12.% ' 2;?D*-'1')-.,62' >,*.'620'+/65*.'
1'D.)1=' *6-.12'>, ' " ' '6-,% +X% ' ,,1'.%+%T 2',)*'2*5)D1-)110'1' 2, 1>)' /*==1'620' =6?*6'
?,)'.% ' **' $ 8)*' 8)1'6/.1'?*2, 12. 8 8 .' -" ' ' ' $! '()*'81-0'>-1..' 6 D',)*' 6-6>*2.'620'8)>)'-*?6 2' 2',)*' 1-?' 2'
*-/ ';.*0' 2' 1?62'/,*-6,;-*',1'-*=-*.*2,'62',1-^ 8)>)'8*-*'.;00*2/'0*.*-,*0'12',)*'2+6. 12'1' -6'
,;-*'=6 2'1-'?. 1-,;2*'1-'62,)25'>6;.25'=6 2'1-' D',)*'6-6>*2.'620'8)>)'-*?6 2' 2',)*'1-?' 2'
?.1-,;2*%)-.,601=,*0',)':.*'1',)*'81-0'8)*2' 8)>)'8*-*'/*,'D',)*'1-?' 2'
)*.6.'M1'>1;-.*'D* 1-*')'>-;> L 12')60',69*2' 8)>)',)*'8*-*'/*,'D',)*'1-?' 2'
=/6>*'1-'86.'1-*.**2'D')'1//18*-.X',)6,',)*' =/6>*0'6,)'620'-*.;--*>,12'1')-.,' 8)1/*01>,-2*.'1',)*'41.=*/M' 1-%' QT'
?;.'D*'8//25',1',69*'=',)*-'>-1..'620'1//18')?' 46/*+' X% ()*'1==1.*-.'1',)*'41.=*/6-*'.=19*2'
M<6,,'L+'K X'?*62 25',)6,',)*'?;.,'D*'8//25',1' 1'6.'*2*?*.'1',)*'>-1..'M)/' QX% .'6'.?D1/
20;-' .;>)' .;*-25.'6.',)*'0*6,)'620'-*.;--*>,12'1')-.,' 1+*-',)*'
7D-25% ,*-',)*'0*6,)'620'-*.;--*>,12'1')-.,' 011-.'8 2018.'=1.,.'620'12',)*'86//.'1',)*')1;.*.%'
)*'>-1..'.' .=19*2'1'*.=*>6//'2',)*'*.,>'1DA*>,.'6.'8*5),.'
6;/'6.',)*'-*=-*.*2,6,+*'1')-.,'8)1/*.;'00*2/'0*.*-,*0'12',)*'2+6. 12'1' -6'
)-.,62'?2.,*-.'620'2',)*')?2.'620'.125.'1'+6.*;'>)6-.'620'6//'6-,>/*.'1' ;-2 ,;-*'620'86.'
)-.,62'=1*,.% *-'*6-/'2',)*')..,1-'1',)*'601-2*0'8,)'51/0'620'=-*>1;.',12*.% ()*2.52'
);->)',D*>6?*',)*'>;.,1?'1-')-.,62.',1'?69*' 86.',)*'2*D1-2*'2,1',)*',)>9*.,'1',)*'D6,,/*'D* 25',)*'
.52'1',)*'>-1..% *' ' ! ()6,' 86/'1'-162E'>.*.'12,6 2 25'.>*2*.'
)*'*6-/'-.,62.')60'6')5)'-*56-0'1-',)*'>-1..' -6// 25C=1 2,'1-',)*'6-?'8)/*'6'=-*.',12',)*'>6-,'
.)182 D',)*'-*=/*.',)6,'(*-,;//62'620'>,6+;.' 12'8)>)',)*'*2.52'1-'512 6/1=*'86.'=/6>*0')**-*0'
?60*',1',)*'=6562.'8)1')6-5*0')-.,62.'8,)'81-^ 12'),)*'.1/0*-.',1' 5),'1-'0*>/6-*0'6D.1/;,12',1',)*'
.)==25',)*'>-1..% ' .'21,'6.')18*+*-',1' L',)*' 0 25% <62')-.,62'9 25.'12',)1'+*'1'D6,,/*'
06,*'6,8)>)')-.,62.'>1?2*2>*0',1')6+*'?6,*-6/ 1-'1'62'5-*6,*2,*-=-.*'*-*>,*0'6'>-1..'620'D18 25'
-*=-*.*2,6,12.'1',)*'>-1..% ()*-*'*L .'21'*6-/*-' D* 1-*' ,'1 *-*0' ;=' =-6 *-',1'410' 1-'.;>>*..% .^
=-*.*-+*0'*L6?=/*.',)62'.1?*' - 25.'1'.,12*'8,)' 86/0')60'6'8110*2>-1..'*-*>,*0'D* 1-*')*' 1;5),'8,)'
,)*'>-1..'*25-6+*0'12',)*?',)*.,/*'1'8)>)'.**?.' 6086//12')'.'.1/0*-.'6//92**/25'0*+1;,/'8)/*')*'
,1'20>6,*',)6,',)*'8*-*'?60*'D* 1-*',)*',**?.'1') ?.*/')*/0',)*'>-1..'1.',)*'*6-,)'86.',6?=*0'0182'
12.,62, 2*% (*'?6-, -'-1>1= ;.'620'6')-.,62 6-1;20',% ()*'.,12*.',)6,'1-?*0',)*'>-1?/*>).'M_%

' 8*-*' .1?*, ?*.'=/6>*0' 2',)*' 1-?'1 '(' >-1..' ,' .' 21,'92182' 8)*,)*-' 1- 5 26// ' 8 ,)' 62 ' . 52 >62>*' ; ,' 6 ,*-',)*' 2,-10;>, 12' 1 ')- ., 62 , ' 2' 25/620' 620' -*/620',)*.*' >-1..*.' 8*-*' 6==-1=- 6,*0' 6.')- .I' , 62' ?12; ?*2,..'620'/ 9*' 1,)*-'>-1..*.'*-*>,*0' 1-',)*' =;-=1.*' .*-+*0' 6.7?6-9.'1 ',)*' D1;206- ' 1 '=-1=*-, ' 1 '=6- .)*.' 620.62>,;6- *.' 6.' ?12; ?*2,'1 'D6,,/*. ' ?A=0*,'1-' 1,)*-' >- ?*.' 1-'0 .6.,-1;.' *+*2,.†,1' 20 ^ >6,*' 5/6>*.' 1 '=;D/ >' 56,)*- 25',1')*6-' =-1>/6?6, 12. ' .*-?12.' 620' =-6 *-.†,1' ?6-9',)*' .=1,' 8)*-*' ,)*' >1-=.*' 1 '62 ' 6?1;.'=*-.12'-*.,*0'12' ,.' 86 ',1' 2,*-^ ?*2,' ,)6,'=6..*-.CD ' ? 5),'=-6 ' 1-') .' .1;/TJ',1' ?6-9',)*' .=1,' 8)*-*' .1?*' =*-.12')60' D**2' 0*/ +*-*0' -1?'5-*6,'6025*-†,1'/ 2*',)*' 86 ',1'6'>*?*,*- '1-'6' >) ;->)†620'6,' >-1..C-160.' 2',)*' >1;2,- ' 1-' 2' (' ?6-9*,C=/6>*' ,1' ;-2 .)' =-1,*>,12' -1?' (' =6.. 25' .,1-?'M *556-.' 1 ,*2',119',)*-' .,6,12' 6,' ,)*.*' >-1..*.' 6.9 25'6/?.' 2',)*' 26?*' 1 'B*.;.' 5 + 25'- .*' ,1',)*' *L=-*.. 12' ' : *'D*5./ 9*' 6'>- ==/*' 6,'6'>-1..%JX' -1..*.' 8*-*' .1?*, ?*.' *-*>,*0'12',)*', ,1=.' 1 ')1;.*.' ,*262,.' ,);.' >/6 ? 25',)*' =- + /*5*.' 1 ',*?=/6-.C)1.C' = ,6//*-.' 1 'D* 25' -*** -1?',)*' >/6 ?.' 1 ',)*-' /1-0.' 1-'/620/1-0.' < 62 '1 ',)*.*' >-1..*.' 8*-*' +*-' >1../ ' 620'D;,' X',)*') 5)*.,'6->),*>,;-6/,6..*' 1 ',)*' 65*' 1/ , >6/'620'-*/ 5 1;.' ;=)*6+6/.')6+*' -*?1+*0'?62 ' 1 ',)*.*' >-1..*.†, ?*')6.' 0*.,-1 *0' 1,)*-.' ',)*' >-1..*.' 1-?*-/ '*L ., 25' 2',)*' .?6// D;,') .,1-'>' ./620'1 ' 'D;,'12*' 218'-*?6 2.' ',)*' 2;?*-^ 1;.'.*-*.'D ',)*'-160'/*60 25' -1?' 6-.',1',' *2 .' 8)*-*' ,)*' 9 25.' 1 ' -62>*' 8*-*' D;-*0' 6// 6-*' 0*^ .,-1 *0' ',)*' 0 ,** X 6?1;.' >-1..*.',)6,'?6-9*0' ,)*'-*., 25C=/6>*.'1 ',)*' >1-=.*' 1 '_:**2' /*621-'M0 *0' % KR X' 12' ,.'-*?1+6/ -1?' 4-62,)6?',1' & *.,^ ? 2..*-' D';,)-**' 218'-*?6 2' ?125',)*' ?1.,' 6^ ?1;.' =-*6>) 25C>-1..*.' 8*-*' ,)1.*' 1 ' ,' 6;/.' 2' 12012'620'1 ' = ,6/ */0.' 12012'8)*-*' ,)*' 21,*0' = ,6/ 6..*-'.*-?12.' 8*-*' =-*6>)*0' -1..*.' 6-*' ;.*0' -**/' 12' ,)*' +*.,?*2,.' 1 '=- *,., ' 620' 12' 6//' =6-,.' 1 ',)*' 2,*- 1-'620'*L,*- 1-' 1 '4-**9' -?*2 62 ' 620' 1? .)')1;.*.' 1 '81-.) ='620'1,)*-'*>>/*. 6., >6/ *.,6D/.)?*2,.' ()*');->)' 1 ' 25/620'620',)*' ;^ ,)*-62');->)';.*',)*?',1'>-182',)*-')1;.*.' 1 '81-^ .)='†.1?*' 1,)*-' -1,*.,62,'0*21? 26, 12.';.*',)*?' ,);.'6,',)*0.>-*, 12'1 ',)*' 20 + 0;6/.1> *, † C8)/* 1,)*-.'., //'*.=*> 6// ',)1.*' 8)1')1/0',)*'+ *8.'1 ',)*' 1- 5 26/ ;-,62.'-*A*>,',)*';.*' 1 ',)*' + D/*' 620'?6^ ,*- 6/*>-1..' 2' 62 ' 1-?' 1-' =/6>*' ()1.*')-., 62' D10*.',)6,';.*',)*' >-1..' -**/ ' =/6>*' ,' ;=12',)*' ,1?D.'1 ',)*' 0*60' ()*' >-1..'8*')6+*') ,)*-,1'.=19*2' 1 '.',)*' =6.. 12' >-1.. ',)*'-*=-*.*2,6, +*' 1 ')- .,.' .; *- 25' 2',)*' 6,6>1?D.')-.',.'-*=-*.*2,*0'6.' >1? 25' 1-,)' -1?').',1?D'D*6- 25'6'>-1..',)*' . ?^ D1/1 ').',-;?=)' 1+*-'0*6,)' 620'1',)*';/, ?6,*'-' ;?=)' 1 ')..' 01>,- 2*.' ()..-;?=)6/ >-1..' 6/.1' >6//*0' -1..'1 ',)*' *.;--*>, 12'2*+*-'D*6- 25')- .,' ;=12' ,'6.'6'>-;> L' .';.*0'6.'6'.A22D1/1 ',)*'6;^ ,)1-, '620'A;-.0>, 12'1 '0 *-*2,'1 >6/.'2'>*-,6 2' D-62>)*.'1 ',)*');->)' ** !

' -& = ' ' '$ %' .'*6-/ '6.',)1'.L,' >*2D;-+')60',' D*>1?*',)*';.,1?',1'=;',)-***>-1..*.' Mm' m' mX'2*6-',)*'. 526,;-*'1 ' ?=1-,62,'01>;?*2,.' ,)*.*')6+ 25',)*'+6/;*'1 '62'16,)'12',)*'=6-;'1',)*' . 52*-*' - *.,;' 2*+*-'1?,,*0',1'600',',1',)*-' . 5^ 26,;-*' 620'D.)1=.'6.'6'. 52'1',)*0 52, ' 1',)*-' 1 >*'=/6>*0',' D* 1-*',)*-'. 526,;-*' 2'0=/1?6,>' 01>;?*2,.'>-1..*.'8*-*';.*0'*L,*2.+*/ '6.'*6-/ '6.' ,)*' ,)' -E7 ()**6==-1=-6,*' ;.*' 1 '>-1..*.' M*-6;=1d1,6X 86.'62' ?=1-,62,'=6-,' 2' 0=/1?6,>' 9218/*05*' ()*' '8*-*'.1?*, ?*.'s)*'1-0 26- '>-1.. ' 1-',)*' ,' 20-*8.'>-1..' F ,)*'.,6-- '>-1..' X/7',)*' -)1?D1 0'>-1..' 1-' 1 '1,)*-' 1-26?*2,6/ 1-?.' ()* '8*-*';.;6// '?60*'8 ,)'D/6>9' 29' ()*' [62, 2*' *?=*-1-.';.*0'-*0' 29', //',)*' 8*-*' ?^ ,6,*0'D '1,)*-'.1+*-* 52.'8)*2',)*'601=,*0',)*'5-**2' >1/1-' ()*' 25/1C 6L12'9 25.';.*0'6' 51/0*2'>-1..' 0 .=*2. 25'8 ,)',)*'. 526,;-*'620',)*'.*6/' /;*' 620 . /+*-'>-1..*.'6-*' 6/.1' ?*.' 8 ,)' ()*' >-1..*.' 8*-*' ?6-9*0' 8 ,)'6' ., /*' 1-'=*2'1-'8*-*' .,6?=*0'1-'8*-1' .1?*, ?*.'?60*'1'6',)2'=/6,*' 1' +1- 'D12*'1-'?*,^ 6/' ',-60, 12',)*' >-1..' .'218';.*0'6.'6'. 526,;-*' D;,' 12/ 'D ',)1.*' 8)1' >6221,' 8-,' -1..*.' 8*-*' 1 ,2'=-*.*2,*0',1'>/1 .,*-.' D '=1;.' + . ,1-.' 620'6-*' =-*.*-+*0' 2' ?62 '1 ',)*-' ?62;.>-=,' ()*' 8*-*' ;.*0',1'?6-9',)*' D*5 22 25'620'*20'1 'D119.'/*,,*-.' 01>;?*2,.' >Y')6=,*-.' =6-65-6=). ' -* *-*2>*.' 620' >., >6/-*?6-9.' 2'D119. ()*' 6-*' *.=*> 6// ' ;.*0' 2'?62 '>1;2,-*.' 6,',)*')*60'1'/*,,*-.' 6221;2> 25'6' 0*6,) ()*' >-1..' 86.' *6-/ '601=,*0' 1-',)*' 5-1;20C =/62'1 '>);->)*.' 2',)*/6,*-' 41,)>'=*- 10',)*' 6=. ' 86.';,-2*0'1;,'1',)*' /2*1',)*' 6L .' 1',)*' 26+*',1' -*=-*.*2,',)*' 0-11= 25'1 ',)*')*60'1 ')- .,' 6,') .' 0*6,)

' . # ! ()*_;*., 12'6.',1',)*' (1';=12'8)>)'1;-' 6+1;-'.;*-*0')6.'D**2'?;>)' 65 ,6,*0'*.=*> 6// '6?125' -1,*.,62,.' 1-',)*' -*/>.' .)182'6.' .;>)'6-*' 5*2*-6/GE'>-*0 ,*0'6?125' 1?62^ .,,' M **',)*'>12,-1+*-.' -*+ +*0' 2' ?10*-2',?*.' D'<-*& //6?.' 2' 6+1-1',)*',-60, 12' ; ' 1' ' KNT' 620'656 2.,' ,'D ' -' 1D 2.12' ; "!'5 !' ' K'.%X' (- *%12',)..';DA*>,'*L6>,' 2 1-?6, 12'1;5),' ,1')*' 6>>*.. D/*' . 2>*' 1;-' *>>/*. 6., >6/') .,1- 62.' M 1>-6,*.' ' NT' 1[1=*2' ' !' ; 2;.' ' !' ()*1C 01-*,' ' Q(>12>;-' 2' .,6, 25',)6,',)*' >-1..' 86.' 1;20'D ' :*/*26' ?1,)*-' 1 ' 12..,62, 2*',)0' 4-*6,% ()..*D;.'.'.'./*2,'12',)*'0.>1+*-E% ()*'*,)*-'8-,^ *-.' .,6,*',)6,';*/*26' 8)*2'.*+*2 C2 2*' *6-.' 1 ' 65*' 86.' 20;>*0'D ',)*' 86-?,)' 1 ')*-'=*, ',1'+.',)*'=/6>*.' 8)>)',)*' 6+1;-')60'-*20*-*0'.6>-*0'D ').'=-*.*2>*' 620'.; *- 25.% ()*'B 6,-*0'1',)*')*6^ ,)*2')60'/*0',)*?',1'1D/,*-6,*'6.'?;>)'6.'=1.. D/*' 6//,-6>*.'1 ',)*'?*?1-6D/*'*+*2,.'8)>)',)*/ *'620'0*6,)' 1 'B*.;.')60')6//18*0'620',1'>1+*-' <1;2,' 6/+6-E' 8,)' .,12*.'620'*6-,)'620'-6 .*',)*-*12'6',*?=/*',1' ,)*'5100*..' *2;.' 'B*8')18*+*-')60',-*6.;-*0' ;='8)6,',-60, 12.')*'>1;/0'56,)*-'620'86.',);.'*2^ 6D/*0',1'=1 2,'1;.',1':*/*26',)*'.=1,'/,)*-*'1;-' 1-0' 60'D**2'D;-*0' ()*'=/6>*'D* 25'7L/76+6,*0',)-***' >-1..*.'8*-*' 1;20'620',)*',/*' 8)>)',)6,'1'B*.;.' D1-*' 86.'6/.1' 1;20'/ 25'6=6-,'D ',,*/'3'()*'_:*.^ ,12'6-1.*')18',)*'>-1..'1 ')- .,'86.',1')*'0.,2^ 5;.)*0' -1?',)*'1,)*-',81 <6>6-;.'D .)1='1'B*^ -;.6/*?',;55*.,*0',)6,',)*'-'-*.=*>, +*'* >6>'.)1;/0' D*',-*0'6.',1',)*'81-9 25'1'?-6>/*. >9'=*-.12.' 8*-*'D-1;5),'1-86-0'620',1;>)*0'D'*6>)'.*=6-6,*/' 2*'12/'8-1;5),',)*0*.-*0';>;-*.'620'86.'6>>1-0^ 25/'6>9218/*05*0',1',)*',)*',-;*'>-1..' ;//7*8' 1'6//',)1'6;,)1-,*.'12',).'?6,,*-'?6'1'.**2'2' (//*?12,'MBV?%' 6 ')6=,*-'12' :*/*26X% :6+^ 25'D;/,'6'>);->)'1+*-',)*'.6>-*0'.=1,'.=*/*26'0*=17' ,*0'8,)2',',)*')*'=6-,'1',)*'-*6/*>-1..% ()*' -*?76 20*-'.)*>12+* *0',1' 12..,62, 21=/*'6'=6-,'1' 8)>)' 12.,62, 2*' 2.*-,*0'2',)*')*60'1'6'.,6,;*'1') ?.*/' 620',)*'1,)*-'=6-,' +6.'.*2,',1' 1?*'620I' 3/6>*0'2',)*')>);->)'1' ,6% 8)>)'86.'D;/,*L=-*../',1'-*>*+*',)*'=-*>1;.'-*/>% &)*2'.;D.*_;*2,/ '6' *., +6/,1'>1?7*?1-6,*',)*' 0.>1+*-')6A D**2'*.,6D/.)*0',)*'D.)1=1'B*-;.6^ /*?'12' 6..*-' ;206 '*L)D,*0',1',)*'5-6,* ;/* *.' 1'*65*-'=/5-?.',)1'1DA*>,',1'.**8)>)',)*'D60' ,-6+*//*0'.1' 6-'620'*20;-*0'.1'?;>)% ()1.*8)1' 8*-*'=*-.12.'1'.;D.,62>*'8*-*'6-,)*-'5-6, *0'D' 1D,6 2 25'6,',D*-' ;//=->*'.?6/*=*>*.'1',)*'>-1..' .*,' 2' 51/0'620'5*?.'620',)6,'8120*-'?5),'21,' =6..' 2,1'2>-*0;/, ',)*'=-1=*-'6;,)1-, *.'56+*',)*' 81-/0'62'6..;-62>*',)6,',)*')1/'8110'=1..*..*0',)1' =18*-'1'.*/C?;/,=/>6,12'620'21,8,),.620 25',)*' 22;?*-6D/*'=*>*.'8)>)'60'D**2',69*2'-1?',' 1-',)*'=/*6.;-*'620'.*-+>*'1',)*'6,)';/'-*?6 2*0'2^ ,6>,'620'*2,-*'6.'6,',)*'-.,'M 6;/2;..'6%!'L' $!P8! ()*'>6=,;-*'1'B*-;.6/*?'D',)1'7*-.62.' % %' ='=/6>*0',)*'-*?6 2.'1',)*'>-1..'2',)*')620.' 1')1.-1>.' '8)1'?1>9 25/ '>12+* *0',)*?',1')

>6= ,6/ 1;-,**2 *6-.6 ,*-86-0. : *-6>/ ; .-*>1+^ *-*0 ,)*? 620)60 ,)*?>6-- *0 -.,1 12.,62, 21^ =/* 620 ,)*2 ,1 B*-;.6/*? 2 .;>)=1?= ,)6, 12). 6-- +6/ D* 1-* ,)*/6,,*-> ,)* 1;20 ,)*56,* D6--*0 620 *2,-62>* 1-D 00*2 2.,-;>,*0 6. ,1 ,)* >6;.* 1 ,) .) 20-62>* ,)* *?=*-1- /6 0 6. 0* ,)* ,-6=^ = 25. 1) . 5-*6,2*.. 620 D6-* 11,*0 D1-* 12 D . 182 .)1;/0*-.,)* .6>-*0 -*/ > ;= 71 ,)* 56,* 8) >) ,)*2 1=*2*0 1 ,.*/ 620 6//18*0) ? ,1 *2,*- 620 ,) ; .=/6>*) . >)6-5* D*2*6,) ,)* 01?* 1 ,)* .*=;/^ >)-* * #! -1? ,) . , ?* 21 ?1-* .)*6-0 2) .,1- 1 ,)* ,-;* >-1.. 8) >) ,)* 60+1>6,*. 1 ,. 5*2; 2*2*.. >/6 ? ?6)6+* D**2 0*.,-1 *0 D ,)* 6-6>*2. 12 ,)* - >12_;*.,1 B*-;.6/*? % SN -65?*2,. 12/ 1 , 6-* 218* L) D ,*0 2 +6- 1; =6-,. 1 ;-1=* M * D*/18 ()* 8)1/* .,1- . A;../ -*56-0*0 D -1,*.,62,. 6. >12,6 2 25 ;2? .^ ,696D/* *+ 0*2>* 1 D* 25 6,D*.,6= 1;. -6;0 12 ,)* =6-, 1 : */*26 1- 6 ,- >9 12 ,)* =6-, 1) *-5;0* * % ! ;, *+*2 ,)* .,1- 8*-* 21, .1 2^ ,- 2. >6// 1- 6?125 1,)*-* -*6.12. , 86. 6 /68 6?125 ,)* B* 8 .,),)*>-1..86.1,1 D* D;-2*0 ,)12 . 5 " .+ ;==/ > ;?X , 81;/0 -*_; -* 6- ?1-* =-1D6D/* *+ 0*2>* ,1 1;,8* 5) ,)* ./*2>* 1 ;.*D ;. >/*6-/ 86.,1 ,)* 2,*-.,1 ,)*);->) 1 1?* ,1 ?6 2,6 2 ,)* D*/ *7620 2+*2,)* .,1- 1 ,. ? -6>;/1;. ? ;/, =/ >6, 12 D*>6;.* ,)* .6/* 1 ,)* -*/ >. 86.* L,-* ?*/ =-1 ,6D/* (1 ,) .06 ,)* .;=^ =1.*0 , ./* 1-6,)*- -65?*2,. 1 , 6-* .)182 ,1 ,)* =*1=/* 12>* 6 *6- 2 ,)* >);->) 1 ,6 -1>* 2 2*4*(;.6/*?2?* 6, 1?* 2 ,)* >6=,;-* 1 ,)* ,-;* >-1.. D)1.-1* 620 ,.-*.>;* D : *-6>/ ;. 8 ,) ZZ+*2 ,)* .*6/.1 ,)* >6.* ;2D-19*2 620 ,)* .;D.*_;*2, .6/* 1 6 /6-5* -65?*2, ,1 1;. d .** 4 DD12 + SS ()1.* .; > *2,/ 2,*-.,*0 2 ,)* 6226/.1 .;>) ?=1.,;-* ?6 .** 6-,)*-6>>1;2,. 2 6-12 ;. MC 2F 6 % NKS 1 KC X B1-, 2 620 >)? 0, > " : */>., K XT 620 12 ,)* 6,* 1 ,)* ,-;* >-1.. 6 =6=*-*-*60 D 1-0 <6)12 D* 1-* ,)* 1> *, 1 2, _;6-*. *D QN >>1-0 25 ,1 ?D-1. ;.>, 1 , -" ! = RQX ,)* = *>* 8) >) D1-* ,)* , ,/* .,110 12 ,)* ,1= 1),)*>-1.1 1;-1 -1-0 MB1)2 L L RC KK " =1;1?* >1?= <6,, LL+ N /6-9 L+ KST ;9* L+ QXa ,)* 1-2 ,)*2 81;/0 D* .1?*8)6,,) . () 6>,81;/0 /*60 ,1 ,)* *L=*>,6, 12 1 ?1-* 6>>;-6,* 2 1-?6, 12 -1? ,)1.* 8)1 6-* .6 0 ,1)6+* 1;20 ,)* >-*.. ; ,)* >120;>,1 */*26 2 0 + 0 25 ,)* >-17 .*,, 25 6. 0* 12* =6-, 1 B*-;.6/*? 621,)*- 1-712..62, 21=/* 620 621,)*-6. 6 =) /6>,*- 12 1-)*- .12 620 ,)* .;D0 + . 12. ,)*-*1 8) >) .;D.*^ _;*2,/ ,119 =/6>* -*20*-*0 , ?=1.. D/* ,1 6.>*-,6 2 62 .6,. 6>,1- ?622*- 21,/ 12/ 8)*,)*- ,)* 6/^ /*5*0 86. ,)* -*6/ >-1.. D;,/6/.1 1 8)6,8110 620 2 8)6, .)6=* ,)60 D**2 ?60* () .12/ ,)*2].,1 ,)* .)6=* 1 ,)* 6+ 1;-. >-1.. >62 D* 0*,*-? 2*0 ,)6, ,)* =-*+6/*2, 1-?86.,)6,1 ,)* % 1 620 ,)6, ,) 1-? . 5*2*-6// 1;20 12 >1 2. 620 2 ,)* .1C>6//*0 ?1215-6? M :;2,*-. $ " #+X ()* 8110*2 ,/*)18*+*- .6 0 ,1 D* ., // =-*.*-+*0 2 1?* 21, *2, -* 20**0 1- 12/ -65?*2,. -*^ ?6 2 1 ,)* : *D-*8 /*,,*-. .1 ,)6,)* 6-* //*5 D/* ()* 4-**9 620 6, 2 *L>*=,*,)* /*,,*-/ 6-* D1,) 8-,,*2 6 ,*- ,)* 6.,*-2 ?622*- -1? -5),1 /* , () . . .6 0 ,1)6+*)6==*2*0 * ,)*- D*>6;.* ,)* 8*-* 8-,,*2 D 6 B*8 1//18 25 6 26, 126/ >;.,1? 1- -1? 6 0*. -* 12 ,)* =6-,1 ,)* 8-,*- 6 1?62 ,N 6>>1?? 106,*) ? ./ ,1 8)6, 86. ;.;6/6?125 ,)* B*8 . >*,6.>- ! 8)1/0.;), , 21, 6// ,)* 81-9 1 12*)620 . 2>* ,)* 1?62 /*,,*-. 6-* -?/ 620 0 .,2>,/ >;,D;,)* 4-**9 /*,,*-. +*- D60/ : * ,) 29. ,)6, 6 B*8 >;,),)* : *D-*8 M1- -6?.*62 620 4-**9 620 6 1?62 ,)* 6, 2 / ,)6,-*?6 2.1 ,)* 4-**9 . 676=c+1;>A C * A$ %Hf [1) f 1 ,)* 6, 2 7 / 5 = E5 f1 * 6[6-*2* 25 J () .,6D/*,. .6 0 ,1

*=;,*0 (6D/*,1)- .,. -1C F

)6+* D**2 .*2,D 12.,62, 2* ,1 1?* 620 ,)*-* 0*^ =1. ,*0 2 6 /*60*2 >)*.,6D1+* ,)* +6;/,*0 01?* 1 ,)* >);->)1 ,6 -1>* 2 6 / ,,/* 8 2018 620 ,)*2 D- >9*0 2,1 ,)* 86// ,.=1. , 12 D* 25 -*>1-0*0 D 6 <1.6 >2.>-=, 12 8 ,)1; (?* -*20*-*0 ,)* 2^ .>-=, 12 6/?1., //*5 D/* 620 ,)* 8 2018 18 25 ,1 ,)* >6-*/*..2*.. 1 81-9?*2 *2565*0 2 -*=6 - 25 ,)* >);->) 86.6>> 0*2,6// D-19*2 1=*2 8)*2 ,)* -*/ > 86. 0 .>1+*-*0 D;// 86. .;*0 D =1=* /*L62^ 0*- >1?? *?1-6, 25 C,)* 0 .>1+*- 620 6;.,)*2, ^ >6, 25 ,)* , ,/* ()* 8)1/* .,1- . .* +0*2,/ 1 6 = *>* 8 ,) ,)* 1-*51 25 <1215-6=).12 ,)* .;DA*>, 620 -*/ > 2 _;*., 12)6+* D**2 8- ,,*2 2 6, 2 D /D*, M =. SR B*2 QX /,?622 M *-2 NRX */,*- M =. K X -* */D*2 M =. SS X : 629* MB*2 S KX : //*- M(;D 25 SRSX >_;*, M 2,8 X * >)?622 M ,*D S SX * =*-* M /12 SR 6/.1 2 <*2,)*2 ' ' ! K ._ X &*./ ;. M KX **0 <;>) ,?*620 ,-1;D/*)6+* D**2 86.,*0 2 0 .=;^ 25 6. ,1 8)*,)*- ,)-** 1- 1;- 26 /.* 8*-* ;.*0 2 6.,*2 25 ,)* 1-0 ,1) .>-1. M **6D1+* X 12C 2;4 6 -?.,)6, ,)-** 12/ 8*-* ;.*0 2 8) >)* . 1//18*0 D 4-*51- 6[/6)[*2 ()* ?1-* 5*2*-6/ D*/ * 5 +7. 1;-26 /. 62 1= 2 12 8) >) . .;==1-,*0 6, ?;>) /*25,) 620 D >;-1;. 6-5;?*2,. D MB;-,;. > ' ' 8 ,)*-.) 6+* >6-- *0 ,)* 2;?^ D*-*1 26 /. 6.) 5) 6. 1;-,**2 ,)* 1;-1-5 26/ 26 /. ,)* *?=-*.. : */*26 .-*=1-,*0 M ()*101-*, # 2 ;-1;./ -65 25 ,)*-*D =-10;>25 62 2.,62, >6/? ()* .*>120 . .6 0 ,1)6+* D**2 =;, D 12.,62, 2* 2,1 * ,)*-) .) */?*, 1-2 >-182 1- M6. U126-6. .6 .X 12 ,)*)*60 1 ,)* .,6,;* 8) >) 2,*20*0 ,1) ,)* =6//60 ;?1 12.,62, 21=/* 620 8) >) ,)* =*1=/* ;.*0 ,1 .;--1;20 8 ,) /5),*0 ,1->)*. M /1.)* ?6 ! # ' ' N 620 21, * () .26 /)18*+*- 86.6 ^ ,*-86-0.,1 D* 1;20 2 6 ?;,/6,*0 .,6,. 2 ,) *>) ;->) 1 ,6 -1>* 2 ,)* ;1?1 1 < /62 .6 ,) -0 26 / 8) >) ;,-1=;. 6 -?. 86. 0- +*2 ,)-1;5 12* 1 B*.;. .)620. 620 8) >) 12.,62, 2* ;.*0 6. 6 D ,* 2,*20 25 ,)*-*D ,1 +*- ,)* =1=)*> 1 U*>)6-/6) ML + K Xa 2 ,)6,06 .)6// D* ;=12 ,)* D*//. M?6-^ 5 2 ? 12 8 1 ,)*)1-.*. # ' " !((J (-*+*. =1..*..*. ,)* 1;-,) 26 /8) >) .6//*5*0 ,1)6+* D**2 0- +*2 ,)-1;5) ,)* .; *-*-. C-5), 11, M =. ;. ' ' RX ()1.* 8)1 ?6 2,6 2 ,)* 2;?D*-1 26 /. ,1)6+* D**2 ?1-* ,)62 1;-)6+*)60 21 0 >;/, 2 20 25 6.?62 26 /. 6. ,)* -) =1,)^ *. 2 *6>) >6.* 2**0*0 620 6. ?62 26 /. 6. ,)* .6>-*0 =/6>*. 1-,)* -* .6 * 9**=25 ()*-* 6-* ?1215-6=).12 ,) . .;DA*>, 2 6, 2 DE7 12,62;. M ?. S NX -.*DC ?;,) MB*2 SSNX *?/*- M -*.0 X f 2*-* M =.C 0 X ;-,;. M <1260 SKK 2,8 S 6/.1 2 ,)* $! 2!; 'N RX 2 4*-?62 D 6)-M 2 * C 0 (-*>). . " ! N7RX 6;/;. I*1 " ! + NSC S X ** * ! 21,)*-0 .=;,*)6. D**2 65 ,6,*0 -*/6, +* ,1 ,)* *L .,*2>* 1 6 " % % 1-,6D/*,8)*-*12 ,)* **, 8*-* .;==1-,*0 4-*51- 1 (1;-.8)1)60 .**2 ,)* 6//*5*0 ,-;* >-1..6 -?.,)6, ,). 0 .;>)6 11,..11/ D;,) .0 >,;?.)6. D**2 >6//*0 2 _;*., 12 ,.*)18*+*-01;D,*0 8)*,)*-,)*)620. 6/12* 8 ,)1;,6 =-1 D*2*6,) >1;/0 .;.,6 2 ,)* 8* 5), 1 ,)* D10

and some have supposed that a kind of seat was placed, on which the sufferer may be said to have in some way sat. The controversy is treated at length in the first of the four *Hypomnemata de Cruce* of Bartholinus (Hafn. 1651, Amst. 1670, L. B. 1695).

A common tradition assigns the perpetual shiver of the aspen to the fact of the cross having been formed of its wood. Lipsius, however (*De Cruce*, iii, 13), thinks it was of oak, which was strong enough, and common in Judæa. Few will attach any consequence to his other reason, that the relics appear to be of oak. The legend to which he alludes,

> "Pes crucis est cedrus, corpus tenet alta cupressus,
> Palma manus retinet, titulo lætatur oliva"
> (The foot is cedar, cypress forms the shaft,
> The arms are palm, the title olive bears),

hardly needs refutation. It must not be overlooked that crosses must have been of the meanest and readiest materials, because they were used in such marvellous numbers. Thus we are told that Alexander Jannæus crucified 800 Jews (Josephus, *Ant.* xiii, 14, 2), and Varus 2000 (*ib.* xvii, 10, 10), and Hadrian 500 a day; and Titus so many that "room failed for the crosses, and crosses for the bodies" (Josephus, *War*, vi, 28, where Reland rightly notices the strange retribution, "so that they who had nothing but 'crucify' in their mouth were therewith paid home in their own bodies," Sir T. Browne, *Vulg. Err.* v, 21). In Sicily, Augustus crucified 600 (Orosius, vi, 18).—Kitto, s. v.; Smith, s. v. See CRUCIFIXION.

CROSS, BULL OF THE (*Cruzada*), a bull by which pope Calixtus III, in 1487, granted very extensive indulgences to all who would take up arms, under king Henry of Castile, against the infidels, or pay to that king a certain sum for defraying the expenses of the war. The indulgence was at first granted for only five years, but was from time to time renewed and enlarged, so as to include many privileges, such as exemption from the commandment of abstinence. The proceeds of the Bull of the Cross constituted a considerable portion of the public revenue. The last renewal of the bull is of the year 1753. A similar bull was issued in 1514 by pope Leo, in favor of king Sebastian of Portugal, to whom, in consideration of his endeavors for the conversion of infidels in Africa, the third part of the tithes and the tenth part of the taxes due to the churches and ecclesiastical benefices of the kingdom was conceded.—Wetzer u. Welte, *Kirchen-Lex.* vi, 265.

CROSS, EXALTATION OF THE, a festival in the Roman Catholic Church, instituted in commemoration of the exaltation of the supposed cross of Christ at Jerusalem, after its recovery from the Persians. The latter, when conquering Jerusalem in 614, carried off with them the relic which, since its "invention" [see CROSS, CHRIST'S] by the empress Helena, had been venerated as the "Holy Cross." With a view to a heavy sum of ransom, they had it sealed up by the patriarch Zacharias with the patriarchal seal, and took it to a strong castle in Armenia. When, in 627, the emperor Heraclius conquered the Persians, he stipulated in the treaty of peace for the restoration of the Holy Cross, and took it with him to Constantinople. From there, in 629 (according to others in 630), he took it himself, accompanied by a large retinue, to Jerusalem, where it was again set up with great solemnities. It is this restoration of the cross to Jerusalem which is annually commemorated on Sept. 14 in the Church of Rome as the Exaltation of the Cross.—Wetzer u. Welte, *Kirchen-Lex.* vi, 268.

CROSS, INVENTION OF THE, the name given in the Roman Catholic Church to a festival which commemorates the finding of the alleged true cross of our Saviour, and which is celebrated on the 3d of May. An order of friars, founded in honor of the invention of the cross, and carrying in their hand a staff, on the top of which was a cross, received the name of *Croisiers* (Fr. *croix*, cross), corrupted into *Crouched* or *Crutched* Friars. They came to England in the 13th century, and had monasteries in London, Oxford, and Ryegate. The festival of the Elevation of the Cross (September 14) commemorates its re-erection in Jerusalem by the emperor Heraclius, after it had been carried away by the Persians.—Chambers, *Encyclopædia*, s. v. See CROSS, EXALTATION OF.

CROSS, METAPHORICAL SENSE OF. This word (1), in its most comprehensive sense, as figuratively used in N. T., designates not only the whole passion of Christ, culminating in the death on the cross, but also the whole Gospel system, as a means of reconciliation with God through Christ. (2) It is also used to designate the sufferings and trials sent upon Christians for their moral improvement, and which have the effect of strengthening faith, and teaching humility, love, and submission. The command to "take up the cross" daily (Luke ix, 23) signifies that we are cheerfully to submit to all the evils of life, circumstance, and position, which God, in his wisdom, sees fit that we should encounter; we are even to rejoice at misfortune, as the discipline of suffering brings fruits of sanctification to those who patiently submit for Christ's sake, remembering that all things work for good to them that love God (Rom. viii, 28). Four kinds of "crosses" have been recognised: 1, the cross of martyrdom, the witness unto death for Christ and the Gospel; 2, the cross of trials, for the preservation of faith, love, and hope; 3, the cross of discipline, for the purification of the heart and the subjection of sinful desires and inclinations; 4, the cross of punishment, for the chastisement of sin; though the aim of punishment also is the improvement of the sinner. God is love, and therefore lays the "cross" on every one as he needs it. He chasteneth whom he loveth. It is a sad mistake to consider suffering as the result of caprice or anger on the part of God (2 Cor. iv, 16–18; xii, 7; Heb. xii, 1-12; Gal. vi, 14; Eph. ii, 16, 17; Col. i, 19–22; 1 Cor. i, 17, 18; Gal. v, 11; Phil. iii, 18).—Krehl, *N. T. Handwörterbuch*, s. v. Kreuz.

CROSS, ORDERS OF THE, in the Roman Church. 1. *Canons Regular of the Congregation of the Holy Cross*, founded in 1211 by Theodore de Celles, a descendant of the dukes of Bretagne. It was confirmed by Innocent IV in 1248, and was exempted from the jurisdiction of the bishops by John XXII in 1318. The order spread especially in the Netherlands, Western Germany, and France, and still exists in the Netherlands and Belgium, whence in 1850 a colony was sent over to the United States, where they have an establishment in the diocese of Milwaukee. See Helyot, who calls them Croisiers or Porte-Croix; *American Catholic Almanac*. 2. *Croisiers (Cross-bearers) of Italy*, an-

Cross-bearer in Italy.

Cross-bearer with the Star in Bohemia.

other congregation of the same order, the origin of which is unknown, but which was renewed by pope Alexander III in 1169, and is now extinct. 3. *Croisiers of Bohemia*, see KNIGHTS, TEUTONIC. 4. *Daughters of the Cross*, founded by Madame de Villeneuve, in

Daughter of the Cross.

Cross-bearer in France and the Netherlands.

France, in 1640, under the direction of Vincent de Paul, and confirmed by pope Clement IX. They devote themselves principally to the instruction of girls, and have their principal establishment, with more than 100 members, at Paris. The order is rapidly increasing in France, and has one establishment in the United States, in the diocese of Natchitoches, founded in 1854.—Fehr, *Geschichte der Mönchsorden*, ii, 319. 5. Another congregation of *Daughters of the Cross* was founded in 1835 at Liege, by Habets, a Belgian priest. They teach, keep asylums for fallen women, etc., and have established several houses in Belgium and Germany.—Fehr, *Geschichte der Mönchsorden*, ii, 322. 6. *Sisters of the Cross*, also called "Sisters of St. Andrew," founded in 1806 by Mademoiselle Bechier, in the diocese of Poitiers. They devote themselves to the instruction of children, and to the nursing of the sick in the country. They are very numerous in France. 7. Another congregation of *Sisters of the Cross*, also called "Sisters of the Immaculate Heart of Mary," was founded by Abbé Moreau, at Mans, about 1834, and approved by the pope in 1857. They came to the United States in 1843, and have establishments in the dioceses of Fort Wayne, Philadelphia, and Chicago. 8. A *Congregation of Regular Clerks of the Holy Cross* was founded in 1835, together with the congregation mentioned under No. 7, by Abbé Moreau. It was afterwards united with the "Brothers of St. Joseph," founded about the same time by Very Rev. Mr. Dujarier, and the rule of the united congregations was approved by Pius IX in 1857. They had, in 1867, 82 houses and missions, of which 58 were in France, 12 in America, 7 in Bengal, 2 in Algeria, and 1 each in Rome, Poland, and Austria.

CROSS, SIGN OF THE, a rite in the Roman Church, and in the Greek and other Eastern churches. It is used by officiating priests as a form of blessing at all liturgical actions and consecrations, and by all the members of the Church at the beginning of a prayer during divine service, on entering a church, on passing the host, and on many other occasions. It is always made with the right hand. In the 6th century it became customary to make the sign of the cross with the thumb on forehead, mouth, and chest. Since the 8th century the so-called "large" or "Latin" cross has been in common use among the laity. It is made with the palm of the hand by touching first the forehead; next, in direct line downward, the chest; next, in horizontal line, the left and the right shoulder. The same form of cross is used in liturgical actions, if the cross is to be made over the object to be blessed without touching it. While among the Latins the cross beam is drawn from the left to the right, the reverse is the case among the Greeks and Russians. In making the sign of the cross, it is common to pronounce the words, "In the name of the Father, and the Son, and the Holy Ghost. Amen." Formerly there were also other forms in common use (Binterim enumerates eight), but all have been displaced by the above. The different ways of making the sign of the cross, and the number of fingers used, have called forth in the Church of Rome the most fanciful and mystical significations, and a special power has commonly been attributed to the sign of the cross. It is, therefore, also made over water, salt, oil, etc. In the Greek Church the sign of the cross is of even more frequent use than in the Roman Catholic. Among the Protestants it is almost universally abandoned (in the Lutheran Church of Saxony it was in use until the introduction of a new liturgy in 1812). In the Church of England and in the Protestant Episcopal Church its use in baptism is optional.

CROSS, WAY OF THE (*Via Crucis*), the collective name of a certain number of pictures or stations in or near Roman Catholic churches and sanctuaries, to represent an equal number of events in the history of the Passion of the Saviour. Generally the number of the pictures is 14 or 15, but sometimes less. The people who "walk the way of the cross" stop a little while at each picture, reciting a prayer, until they have, in turn, visited every station, and thus completed the commemoration of the Passion. In some Roman Catholic countries, as in Southern Germany, the "Way of the Cross" can be met with in almost every church. This practice was invented by the Franciscan monks, who offered it to the people as a substitute for the pilgrimage to the Holy Land, and justly calculated that, by obtaining numerous indulgences from the popes for those who would adopt this peculiar kind of worship, they would achieve a great popularity for the churches of their order. Their expectation was realized. The popes granted to the visitors of the "Way of the Cross" all the indulgences which had formerly been granted to the visitors of different places in the Holy Land, thus enabling the people to gain in a few minutes several "plenary" indulgences, besides a number of partial. Every "Way of the Cross" must be instituted by a Franciscan monk, and it requires a special permission from the pope if any one who is not a Franciscan is to introduce it. Many special books of devotion have been published for the *Via Crucis*.

Cross-bearer (*cruciger*). 1. In the Romish Church, the designation of the chaplain of an archbishop, or a primate, who bears a cross before him on solemn occasions. The pope has the cross borne before him everywhere; a patriarch anywhere out of Rome; and primates, metropolitans, and those who have a right to the pallium, throughout their respective jurisdictions. A prelate wears a single cross, a patriarch a double cross, and the pope a triple cross on his arms.

2. The name *cross-bearers* ("cruciferi") was also applied to the *Flagellants* in the thirteenth and fourteenth centuries. See FLAGELLANTS.

Croswell, Henry, D.D., a Protestant Episcopal minister, was born in West Hartford, Conn., June 16, 1778. While quite young he entered his brother's printing-office in Catskill, N. Y., and soon became editor of a newspaper published in that place. About 1800 he established a paper at Hudson, N. Y., called *The Balance*. He removed to Albany in 1809, where his paper attained a still wider circulation and influence. Finally he turned his attention to the Christian ministry. Though brought up among Congrega-

tionalists, he determined to unite with the Protestant Episcopal Church, and prepared to enter its ministry. In the year 1811 he was ordained deacon. After preaching a short time in Hudson, he removed to New Haven, when he took charge of Trinity Church, and in February, 1816, he was ordained priest. He remained in the same parish 43 years. It is stated that in a period of 41 years he officiated at 1844 burials, administered 2553 baptisms, and married 833 couples. He died March 13, 1858.

Croswell, William, D.D. (son of Henry), was born in Hudson, N. Y., Nov. 7, 1804, and graduated at Yale College in 1822. After studying at the General Theol. Seminary, N. Y., he was ordained in 1828, and in May, 1829, he accepted the rectorship of Christ Church, Boston. In 1840 he became rector of St. Peter's Church, Auburn, N. Y., but, after somewhat more than four years, he returned to Boston, and connected himself with a new enterprise—the Church of the Advent, which proved very successful. With this church he continued till the close of his life. In 1846 the degree of D.D. was conferred upon him by Trinity College, Hartford, and on Nov. 9, 1851, he died suddenly, after the partial delivery of a beautiful sermon, addressed to the children of his church, in connection with a baptism. His productions, especially on poetry, were published soon after his death by his father, in an extended *Memoir*, but he had strictly forbidden the publication of any of his sermons.—Sprague, *Annals*, v, 697.

Crothers, Samuel, D.D., a Presbyterian minister, was born near Chambersburg, Pa., October 22, 1783. His father removed to Lexington, Ky., in 1787. In February, 1798, he entered the Lexington Academy, and in 1804 placed himself under the care of the Kentucky Presbytery as a candidate for the ministry. He entered the New York Theological Seminary in 1805, and, returning to Kentucky in 1809, was there licensed to preach. He settled in Chillicothe in 1810, where he remained for three years, removing to Greenfield in 1813. At this time the Associate Reformed Church was greatly agitated with controversies respecting intercommunion and psalmody. With Dr. Mason and most of his students, Mr. Crothers opposed close communion, and the exclusive use of what has been called inspired psalmody. Troubles growing out of these things, he resigned his charge, and removed to Winchester, Ky. In 1820 he returned to Greenfield, where he remained 36 years. He died suddenly in Oswego, Ill., at the house of his son, on July 20, 1856.—Wilson, *Presbyterian Hist. Almanac*, 1864.

Crow (κορώνη), Baruch vi, 54, prob. the *jackdaw*. See Raven.

Oriental Jackdaw.

Crowell, Joshua, an early Methodist Episcopal minister in New England, was born in Massachusetts in 1777, of Presbyterian parents, was converted through the agency of Methodist preaching at about 20, entered the itinerancy in 1801, located in 1809, and died at Sturbridge, Mass., July, 1858, in the fifty-seventh year of his ministry. He had a strong intellect, sound judgment, generous emotions, and an earnest love of Methodism. He was an able and successful minister. He was one of the founders of the Wesleyan Academy, Wilbraham, and in many ways was of eminent service to the Church.—Sherman, *Sketches of New-England Divines*, p. 389.

Crowell, Seth, a Methodist Episcopal minister of more than ordinary talents, was born in Tolland, Conn., in 1781, entered the New York Conference in 1801, was returned superannuated in 1813, re-entered upon work as a missionary in 1816, located in 1819, and was readmitted as superannuated in 1824. He died in 1826 in New York city.—*Minutes*, i, 542; Stevens, *Memorials of Methodism*, ii, ch. xviii.

Crowing. See Cock-crowing.

Crowther, Jonathan, an English Methodist minister, was born in Cornwall, July 31, 1794, and was educated at Kingswood School. He began to preach in 1814, was appointed head-master at Kingswood 1823, and afterwards at Woodhouse-Grove. He afterwards served several circuits, until he was called in 1837 to the superintendency of Wesleyan missions in India. His labors in that country brought great and lasting good to the missions, especially in Madras. In 1843 he returned to England, and in 1849 was appointed classical tutor at the Wesleyan Theological School, Didsbury, where he remained until his death, Jan. 11, 1856.—*Wesleyan Minutes*, 1856, p. 21.

Crown, an ornament often mentioned in Scripture, and in such a manner as in most cases to indicate the circumstances under which and the persons by whom it was worn; for crowns were less exclusively worn by sovereigns than among modern nations. Perhaps it would be better to say that the term "crowns" was applied to other ornaments for the head than those exclusively worn by royal personages, and to which modern usage would give such distinctive names as coronet, band, mitre, tiara, garland, etc. This ornament, which is both ancient and universal, probably originated from the fillets used to prevent the hair from being dishevelled by the wind. Such fillets are still common, and they may be seen on the sculptures of Persepolis, Nineveh, and Egypt; they gradually developed into turbans (Josephus, *Ant.* iii, 7, 7), which, by the addition of ornamental or precious materials, assumed the dignity of mitres or crowns. The use of them as ornaments was probably suggested by the natural custom of encircling the head with flowers in token of joy and triumph ("Let us crown ourselves with rosebuds," Wisd. ii, 8; 3 Macc. vii, 16; Jud. xv, 13, and the classical writers, *passim*). See Wreath. The first crown was said to have been woven for Pandora by the Graces (comp. στέφανος Χαρίτων, Prov. iv, 9). According to Pherecydes, Saturn was the first to wear a crown; Diodorus says that Jupiter was first crowned by the gods after the conquest of the Titans. Pliny, Harpocration, etc., ascribe its earliest use to Bacchus, who gave to Ariadne a crown of gold and Indian gems, and assumed the laurel after his conquest of India. Leo Ægyptius attributes the invention to Isis, whose wreath was cereal. These and other legends are collected by Tertullian from the elaborate treatise on crowns by Claud. Saturninus. Another tradition says that Nimrod was the first to wear a crown, the shape of which was suggested to him by a cloud (Eutychius Alexandr. *Ann.* i, p. 63). Tertullian, in his tract *De Cor. Militis* (c. vii sq.), argues against them as unnatural and idolatrous. He is, however, singularly unsuccessful in trying to disprove the countenance given to them in Scripture.

where they are constantly mentioned. See Bonnet.

Ancient Asiatic Crowns.

I. Fig. 5. Simple *fillet*; 2, with shoulder-piece; 4, with band and ribbon; 10, with throat-latch and edging.
II. 12. Simple *cap*; 9, with pendant; 13, with crest and ribbon; 3, with bosses and shoulder-piece.
III. 6. Simple *crown* proper; 7, with serrated edge; 8, and ribbon; 1, or cape; 11, with both.

1. The word נֵזֶר, *ne'zer* (lit. *consecration*; hence *consecrated hair*, as of a Nazarite, and then generally *long hair*), is supposed to denote a *diadem* (Greek διάδημα, Rev. xii, 3; xiii, 1; xix, 12). It is applied to the inscribed plate of gold in front of the high-priest's mitre, which was tied behind by a ribbon (Exod. xxix, 6; xxxix, 30), and which was doubtless something of the same kind that we see in figs. 8, 11. This word is also employed to denote the diadem which Saul wore in battle, and which was brought to David (2 Sam. i, 10), and also that which was used at the coronation of the young Joash (2 Kings xi, 12); and, as another word is applied elsewhere to the crown used in this ceremonial, the probability is that the Hebrew kings wore sometimes a diadem and sometimes a crown, and that the diadem only was accessible to the high-priest, by whom Joash was crowned, the crown itself being most likely in the possession of Athaliah. Both the ordinary priests and the high-priest wore head-dresses of this ornamental description. The common mitre (מִגְבָּעוֹת, Sept. κίδαρις, Exod. xxviii, 37; xxix, 6, etc.; Josephus, ταινία; Hesych. στρόφιον ὃ οἱ ἱερεῖς φοροῦσι) was a flat cap (πῖλος ἄκωνος), forming a sort of linen *tænia* or crown (στεφάνη), Josephus, *Ant.* iii, 7. The ceremonial mitre (מִצְנֶפֶת, Sept. βυσσίνη τιάρα) of the high-priest (used also of a regal crown, Ezek. xxi, 26) was much more splendid (Exod. xxviii, 36; Lev. viii, 9; "an ornament of honor, a costly work, the desire of the eyes," Ecclus. xlv, 12; "the *holy* crown," Lev. viii, 9, so called from the Tetragrammaton inscribed on it, Sopranes, *De re Vest. Jud.*, p. 441). It had a second fillet of blue lace (ἐξ ὑακίνθου πεποικιλμένος, the color being chosen as a type of heaven), and over it a golden diadem (נֵזֶר, Exod. xxix, 6), "on which blossomed a golden calyx like the flower of the ὑοσκύαμος," or hyoscyamus (Josephus, *Ant.* iii, 6). The gold band (צִיץ, Sept. πέταλον; Origen, ἱλαστήριον) was tied behind with blue lace (embroidered with flowers), and being two fingers broad, bore the inscription (not in bas-relief, as Abarbanel says) "Holiness to the Lord." (Comp. Rev. xvii, 5; Braunius, *De Vest. Sacerd.* ii, 22; Maimon. *De Apparatu Templi*, ix, 1; Reland, *Antiq.* ii, 10; Carpzov, *Appar. Crit.* p. 85; Josephus, *War*, v, 5, 7; Philo, *De Vit. Mosis*, iii, 519.) Some suppose that Josephus is describing a later crown given by Alexander the Great to Jaddua (Jennings's *Jewish Ant.* p. 158). The use of the crown by priests and in religious services was universal, and perhaps the badge belonged at first "rather to the *pontificalia* than the *regalia*." Thus Q. Fabius Pictor says that the first crown was used by Janus *when sacrificing*. "A striped head-dress and queue," or "a short wig, on which a band was fastened, ornamented with an asp, the symbol of royalty," was used by the kings of Egypt in religious ceremonies (Wilkinson's *Anc. Egypt.* iii, 354, fig. 13). The crown worn by the kings of Assyria was "a high mitre . . . frequently adorned with flowers, etc., and arranged in bands of linen or silk. Originally there was only one band, but afterwards there were two, and the ornaments were richer" (Layard, ii, 320, and the illustrations in Jahn, *Arch.* Germ. ed., pt. i, vol. ii, tab. ix, 4 and 8). See Mitre.

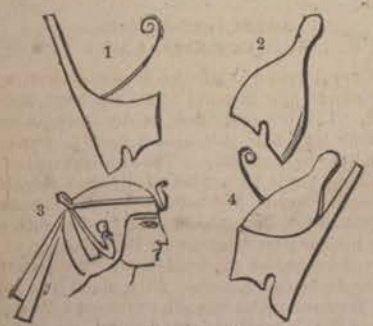
Ancient Assyrian Crowns.
Fig. 1, Early Kings; 2, Later.

The royal crown originated in the diadem, which was a simple *fillet* fastened round the head, and tied behind. This obviously took its rise among a people who wore long hair, and used a band to prevent it from falling over the face. The idea occurred of distinguishing kings by a fillet of different color from that usually worn; and being thus established as a regal distinction, it continued to be used as such even among nations who did not wear the hair long, or was employed to confine the head-dress. We sometimes see this diadem as a simple fillet, about two inches broad, fastened round the otherwise bare head; we then find it as a band of gold (first cut, above, figs. 2, 5). In this shape it sometimes forms the basis of raised ornamental work (figs. 6, 7, 8, 10), in which case it becomes what we should consider a crown; and, indeed, the original diadem may be traced in most ancient crowns. Fig. 10 is curious, not only from the simplicity of its form, but on account of the metallic loop to be passed under the chin—a mode of securing the crown probably adopted in war or in the chase. Then we find the diadem surrounding the head-dress

Other Ancient Crowns.
Fig. 1, Of Nineveh; 2, Sardanapalus III; 3, Sennacherib; 4, Tigranes; 5, Roman Civic; 6, Persepolitan.

or cap (figs. 3, 9, 13), and when this also is ornamented, the diadem may be considered as having become a crown. See DIADEM.

2. The more general word for a *crown* is עֲטָרָה, *atarah'* (a *circlet*; Gr. *στέφανος*); and it is applied to crowns and head ornaments of different sorts, including those used by the kings. When applied to their crowns, it appears to denote the state crown as distinguished from the diadem. Such was probably the crown, which, with its precious stones, weighed (or rather "was worth") a talent, taken by David from the king of Ammon at Rabbah, and used as the state crown of Judah (2 Sam. xii, 30). Some groundlessly suppose that, being too heavy to wear, it was *suspended* over his head. The royal crown was sometimes buried with the king (Schickard, *Jus Reg.* vi, 19, p. 421). Idolatrous nations also "made crowns for the head of their gods" (Ep. Jer. 9). The Rabbins allege that the Hebrew state-crown was of gold, set with jewels. Of its shape it is impossible to form any notion, unless by reference to the examples of ancient crowns contained in the preceding cut. These figures, however, being taken mostly from coins, are not of that very remote antiquity which we would desire to illustrate matters pertaining to the period of the Hebrew monarchies. In Egypt and Persia there are sculptures of earlier date, representing royal crowns in the shape of a distinguishing tiara, cap, or helmet, of metal, and of cloth, or partly cloth and partly metal.



Ancient Egyptian Crowns.

Fig. 1, Lower Egypt; 2, Upper Egypt; 4, both kingdoms united; 3, Royal Fillet.

The diadem of two or three fillets (figs. 4, 5, first cut, above) may have been similarly significant of dominion over two or three countries. In Rev. xii, 3; xiii, 1; xix, 12, allusion is made to "*many* crowns" (*διαδήματα*) worn in token of extended dominion. Thus the kings of Egypt used to be crowned with the "pshent," or *united* crowns of Upper and Lower Egypt (Wilkinson, *Anc. Egypt.* iii, 351 sq.; comp. Layard, ii, 320); and Ptolemy Philometor wore *two* diadems, one for Europe and one for Asia. This would, in fact, form *three* crowns, as his previous one was doubtless the double crown of Upper and Lower Egypt. Similarly the three crowns of the papal tiara mark various accessions of power: the first corona was added to the mitre by Alexander III in 1159; the second by Boniface VIII. in 1303; and the third by Urban V in 1362. These Egyptian tiaras were worn in war and on occasions of state, but on ordinary occasions a fillet or diadem was used. It is important to observe that the *mitre* of the high-priest, which is also called a crown (Exod. xxxix, 30), was of similar construction, if not shape, with the addition of the golden fillet or diadem.

3. Similar also in construction and material, though not in form, was the ancient Persian crown, for which there is a distinct name in the book of Esther (i, 11; ii, 17; vi, 8), viz., כֶּתֶר, *ke'ther* (*chaplet*), which was doubtless the *cidaris* or *citaris* (*κίδαρις* or *κίταρις*), the high cap or tiara so often mentioned by the Greek historians. From the descriptions given of it, this seems to have been a somewhat conical cap, surrounded by a wreath or fold; and this would suggest a resemblance to fig. 12 (of the first cut, above), which is, in fact, copied from a Parthian or later Persian coin. This one is worthy of very particular attention, because it forms a connecting link between the ancient and modern Oriental crowns, the latter consisting either of a cap, with a fold or turban, variously enriched with aigrettes,

Modern Oriental Crowns.

as this is; or of a stiff cap of cloth, studded with precious stones. It must often occur to the student of Biblical antiquities that the modern usages of the East have more resemblance to the most ancient than have those which prevailed during that intermediate or classical period in which its peculiar manners and institutions were subject to much extraneous influence from the domination of the Greeks and Romans. So, in the present instance, we are much impressed with the conviction that such head-tires and caps as those represented in the above cut more correctly represent the regal "crowns" of the Old Testament than those figured in the first cut, above (with the exception of fig. 12 and the simple diadems); which, however, may be taken to represent the style of the crowns which prevailed in and before the time of the New Testament. See TURBAN.

4. Other Heb. terms rendered "crown" are זֵר, *zer*, a *wreath* or border of gold around the edge of the ark of the covenant (Exod. xxv, 11, etc.); and קָדְקֹד, *kodkód'*, the *scalp* or crown of the human head (Gen. xlix, 26, etc.; *κορυφή*, Bel, 36). There are several words in Scripture for a crown (but not so rendered) besides those mentioned, as פְּאֵר, *peër'*, the head-dress of bridegrooms (Isa. lxi, 10; Bar. v, 2; Ezek. xxiv, 17), and of women (Isa. iii, 20); צְפִירוֹת, *tsephiroth'*, a head-dress of great splendor (Isa. xxviii, 5); לִוְיָה, *liveyah'*, a wreath of flowers (Prov. i, 9; iv, 9); such wreaths were used on festal occasions (Isa. xxviii, 1); צָנִיף, *tsaniph'*, a common tiara or turban (Job xxix, 14; Isa. iii, 23); כַּרְבְּלָא, *karbela'* ("hat," Dan. iii, 21, rather mantle). Στέμμα occurs in the N. T. only once (Acts xiv, 13) for the garlands used with victims. In the Byzantine court this word was

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5-60;6// '1+>->1?1' 2',)*' ? 20.'1',)*')- ., 62'81-/0% (); .' 1/ ,)*' + 6/.' 1 ' <12[6' 8) >)' 4-*51- ' ,)* 4-*6,' 56+*' ,1' _;**2' ()*10*/ 206 ',)*-*' .' 6')*60' 1 ' D0..' 2' 6' 2 ?D;.' >12,6 2 25'6' >-1..% ' ?1.6 >' 1 ',% , *22*' 17'6D1;',)*' .6?*' =*- 10' >12,6 2.' 2' 60P 0 , 12' 12*' 1 ',)*',) *+*.' 12' *6>)' . 0*' 1 ',)*')*60' 1 ')- .,' 8 ,)' 6') 5)/ ' 1-26?*2,*0' >-1..' D*/18' 620' 2' ,)*' >*2,-*' 1 ',)*' + 6/' 8 ,)' 62I' 1-26?*2,*0' *0 >;/;?' D*/18' >-182*0' DA' 6' >-1..' 8 ,)' 62' 625*/' 12' 12*' . 0*' 620' ,)*' ,81' 81?*2' D- 25 25' .=>*.' ,1',)*' ,1?D' 1 ')- .,' 12' ,)*1,)*-' . 0*' 20 >6, 25',)*' -*. ;--*>, 12' 1 ')- .,% 2' 621,)*-')- .,' .' -*=-*.*2,*0' 8 ,)') .' 6-?.' *L,*20*0 ' 7/9#,)*' =-6 25'=*-.12.' 1 ',)*' 6,6I' >1?D. ' 8 ,)' ,)*',81',) *+*.' 12' >-1..*.' 6,') .' . 0*' 620',)*' .;2' 620' ?112' 1-' 1,)*-' *?D/*?.' 600*0',1',)*' -*=-*.*2,6, 12% 2',)*' = >,1- 6/' >-1..' 1 ' <12[6' .6 0' ,1' D*' 6'=-*.*2,' -1?' 4-*51- ',)*' 4-*6,',1',)*' *?=-*..' ()*10*/ 20 '620' 2' 1,)*-.'1',)*' ?1.,'62> *2,'>-;> L^ *.',)*' 5;-*' 1 ')- .,' 86.' .>-6,>)*0' 2' 12',)*' ?*,6/' 8,)' .1?*' .)6-=C=1 2,*0' 2.,-;?*2,% 6,*-',' 86.' =6 2,*0% ',' .' 2',)*' R,)'>*2,;-A',)6,',)*' 5;-*.' -.', 6==*6-*0' 2'-*/ * ' ()*' -.,'>-;> L';.*0' 2'6'>);-ZH)' 1 '8) >)' 81',)6+*' 62 '=-11 ' .' .=19*2' 1 'D ' 4-*51- ' 1 '! (1;-.' 6.' D* 25' 2',)*' >);->)' 1 ' 6-D122*' M % % RNX% ,*-',)*' >1;2> / 1 ' SRK',)*' 4-***9');->)' ;.*0' =6 2,*0' >-;> L*.' -**/ % 1=*' B1)2' ' 6' 4-**9'D 'D -,)'M*/*>,*0' % ' X' -.,';.*0',)*' >-;> ^ L' 2',% *,*-.');->)' 1?*% '. 25/*' >-;> L' .' 1;20' 2',)*' 6,6>1?D.' 620',) .' .' >12. 0*-*0',1' 06,*' -1?',)*'Q,)'>*2,;- % ()*' >-;> L'.112'6..;?*0',)*' ?1.,'=-1? 2*2,' =/6>*' 2',)*' 1? .)' >);->)' *0 >*' D* 25'=/6>*0' 1+*-',)*' >*2,-*' 1',)*') 5)' 6/,6-'1+*-^ ,18*-25',)*',6=*-.' 620' D* 25' -*?1+*0' 12/ ' 6,',)*' */+6, 12' 1',)*' : 1..% () .' 6/,6-C>-;> L' .' 1.,*2' ?60*' 2',)*' ?1.,'>1../ '620' 6-, .,>'86 ' D* 25';.;6/^ / ' 1 '51/0' 1-' . /+*-.' 620' 601-2*0' 8 (' =*6-/.' 1-' =-*^ >1;.' .,12*.% -;> L*.' 6->'6/.1'=/6>*0' 6,',)*' 011-.' 1 '>);->)*.' 2' >/1..,*-.' 2' >)6=*/.' D ',)*' -160. 0*' 620' 6,' *+*- '=/6>*' 8)*-*' >-1..*.' M_% +%X' 6-*' *-*>,*0% ()*' 6-*' >12.,62,/ ';.*0' D ' 1?62' 6,)1/>.' D1,)' *>>/*. 6.,>.' 620' /6 ?*2' 620I'*.=*> 6// ' 6-*' 9*=,' 2' ,)*' D*0>)6?D*-% ()*'-*6.12'5+*2' 1-',) .' 6D;2062,' ;.*' 1',)*' >-;> L' .' ,1'9**=',)*' .;*-2=C.'620'0*;,)' 1 ')- .,' 620',)*' 6>,' 1 '6,12*?*2,' *+*-' D* 1-*',)*' ? 20.' 1 'D*/ *+*-.%J ?125',)*' -1,*.,62,'>);->)^ *.',)*' ;,)*-62')6.' 21,'-*A*>,*0',)*' ;.*' 1',)*' 6/,6-C >-;> L*.',)1;5)' -1,*.,62,.' 5*2*-6// ' >12. 0*-',)*' ;.*' 1 '>-;> L*.',1'/*60',1' 6' 81-.) ='1',)*' ?6,*- 6/'1 ' 8)>)',)* '6->' ?60*' 620',1' 6' 1-5*,, 25' 1',)*',-;*' .= -,;6/ ?*62 25'1',)*' 6+ 1;-.'0*6,)↑ >2>*',)* ' -*A*>',)*?'6/,15*,)*-'-*56-0 25',)*?'6.' 12/ '+6/;6^ D/*'8),)*-'.>;/=,;-*0'1-'=6 2,*0'6.' ?6-9 25'6'=)6.*' 1',)*' 0*+*/1=?*2,'1'-.;6/ .,>'81-.) ='1-'6.'8 1-9.' 1'6-,% ' %'$2,/.,)*' >*2,;- ')- .,'86.'-*01' 12' 1,)*-' ?12;?*2,.% ()*' -*0*?=,12' 1' ?62' -1?'.2'D ',)*' 0*6,)'1')- .,'.' .?D1/[*0' 2'.1?*' >-;> L*.' D '6' 269*0' ?62'- .25';=' -*?',)*' 5-1;20' D*/18',)*' >-1..' 8) /*' 6')620' 6D1+*')A2'.'-*>)*0' 1;.' -1?' 6' >/1;0' 21,)*-' -*=-*.*2,.' 6' ?62'/ 25' 12',)*' 5-1;20' 8) /*' 6' 81?62' 8 ,)' 12*' 92*' 12',)*' 5-1;20' .',69 25'D1/0' 1',)*')620' 2',)*' >/1;0% () .' .'-*.,1-*0'D ',)*' >-1..',1',)*' =6-60 .*' -1?' 8) >)')*' 86.'0-+*2'1;% ()*' ?D/*?.'1',)*' 1;-'*+625*/.,.' 620' 625*/.' 2' 601-6, 12' 6-*' 1 ,*2' =/6>*0' 2*6-',)*' ;=^ *-'=6-,'1',)*' >-;> L% ()*' .9;// 620' >-1..C)12*.'6,' ,)*' 11,'1',)*' >-1..' .'6/,15*,)*-' 6' ?10*?' 600 , 12% ()*' >-;> L'1'6'0=, >)'1' 6?)126'>12,6 2.'6'81/' ;20*-',)*' >-1..'21;-.) 25' 1?;/;.' 620' *?;.';=^ =1.*0',1' .?D1/[*',)*' .;DA*>,12'1',)*' :1?62' *?^ =-*' 620',)*' 81-/0',1',)*' >-1..'1')- .,'1-',1',)*' >,' 1' 1?*' 6.',)*' .*6,'1',)*' 1? .)I');->)% ',)*-' .?D1/.'-*/6, 25',1',)*',-;.,)' 1')- ., 62, ' 1-',1' ,)*',-60 , 12.'-*/6, 25',1',) .'>*2,-6/'*+*2,' 2',)*') .I

-*.*2,*0' /18 25' -1?',)*' 81;20.' 2',)*')620.' 620' ,)*' .0*' 620' 6// 25';=12',)*')*60' 1 ' .1?*' 1',)*' >)6-6>,*-.'-*=-*.*2,*0' . ?D1/ [25,);.',)*' */(*>,.' 1 ',)*' 6,12*?*2,% *6-/ '6//'1',)*' 5-*6,'6-, ..' 1',)*' < 00/*' 5*.')6+*'=6 2,*0',)*' .>*2*' 1',)*' >-;> /L 12' ,)*.*' D* 25' .1?*, ?*.',)*-C= *>*.% ?6D:*' 620' <6-56-,12*' 2',)*' N,)' >*2,;- ' ?60*',)*' -.,' -*=-*.*2,6, 12.' *L,62,' 1' 6' >-;> L' 8 ,)' D;.',)-**' 26 /.',)*' **,' D* 25'>-1..*0' 2',)* -'=6 2, 25.' 1',)*' >-;> L 12' 2',)*' >);->)' 1 ' ,% <6-6' 1+*//6' 2' /1-^ *2>*% ()*' 1? .)');->)' 218' ;.;6// '=-* *-.',) .', =*' 1',)*' >-;> L',)1;5)',)*' 1-?*-' ?*,)10'601=$' *0' D ',) .'>),->)'6/.1', //',)*' N,)'>*2,;-A7' 86.' 8 ,)^ 1;,'01;D,',)*' ?1-*' 2' 6>>1-062>*' 8 ,)') .,1->6/6>>;^ -6> % ()*' %% ',1'.;==1-',)*' **,'.';.;6// '-*=-*.*2,*0',)1;5)'.1?*' /6,8' 6-,..')6+*' =/6>*0' 6' 5/1D*' 2'=/6>*' 1',) .',6D/*,'1-'.)*/ % ()*' %% ' " ' ')6.' 2*+*-' D**2' -*=-*.*2,*0' 2' 6-,% ()*' ' " ' ' 86.'=/6>*0' 12' 6',6D/*,' 8) >)' 86.' 6,,6>)*0' ,1',)*')*60' 1 ',)*' >-1..% ()*-*' 6-*') ;,'12*' 1-',81' >6.*.' 2' 8) >)' 6-,..,')6+*' 5 +*2',)*' ;// 2.>- =, 12' 2',)*',)-**' /625;65*.'620',)*.*' 6-*' ?10*-2C <62' >-;> L*.')6+*' 21',,/*.% 2' ?1.,' ,' .' 20 >6,*0' D ' 6' *8' ?*62 25/*..' ?6-9.% 2',)*' 4-**9');->)*' ?1215-6?' 1')- .,'1-' ' '%%' d' 1-' 'ZP .'5*2*-^ 6// ';.*O%

% ' 7()*.*' 6->'*.,)*-'.;>)' 6.' =*-,6 2' ,1',)*' / ,*-6/'> ->;?.,62>*.' 1',)*' >-;> L 12' >-' 6-*' %. ?D1/>6/ 5;-*.')6+ 25'-*.*2>*',1',)*' ,12*'?*2,% ()*' -5 2' <6-'620' ,% B1)2' 6-*' 1 ,*2' -*=-*.*2,*0' 6.'.,620 25'12*'12'*6>)'.0*'1',)*'>-1..'8 ,)',)*')*60' D*2,' 1-86-0' 620'-*., 25'12',)*')620 ' 6' =1.;-,*' 1' 5- * '>*?2'12' 2'6// 62, _;, % ()*' 26?*.'1',)*',81' 6-*' ;.;6// '5 +*2'>,)*-' 2' 6, 2'1-'4-**9% ()*',81' .1/0 *-.'6-*' 1 ,*2' = +* X' 12*')1/0 25'6' /62>*' 620',)*' 1,)*-',)*' .=125*' //*0' 8 ,)' + 2*56-% ()*' +*- '*6-/ ^ *.',>-;> L*.')6+*' 21,',)*.*' .1/0 *-.'D;,',)* 'D*>6?*' >1?2?12'6 ,.*-',)*Q,)'>*2,; % ' . 25/*' *L6?=/*' L^ .,.'1',)*-'0-68 25'/1,.' 1-',)*' 6+ 1;-.' 56-?*2,.% ()*'.;2'620',)*'?112',)*' Z-?*-'8 ,)'6' 6>*'.;--1;20^ *0' 6'>-/)*'620'5 + 25'1;'-6 .'620',)*'/6,,*-' 2',)*' 1-?' 1'6'>-*.>*2,'6-*' 1 ,*2' 5 +*2' D* 25',1',)*'-5),' 620'/* ,'1',)*')*60'1',)*' 6+ 1;-% ()*.*' 6->'.1?*^ ,?*.'-*=/6>*0'D ',81',);?62'0*?C 5;-*.'12*'8 ,)'6' -1 6/0 60*?'620',)*'1,)*-'>-182*0'8 ,)'6'>-*.>*2,' 1-')1/0 25'6',1->)' 8)/*D1,)'6+*' 12*')620'.;==1-,^ 25',)*')*60' 2'62'6,,.;0*'1'5- * % 6 .'1'/5),'1,'2' .,-*6?' -1?'D1,)',)*'.;2'620',)*' ?112';=12',)*' 5^ ;-*'1')- .,% ()*.*')*6+*2/ 'D10 *.'6-*'>12. 0*-*0' D' ?62',1'-*=-*.*2,',)*' 06-92*..' 38)>)' .;00*2/ '>6?*' 1+*-'26,;-*'>12>*6/25',)*',)*.;2'620'?112% ;;' 6'D*,,*-' 2,*-=-*.*6, 12' .',)6,',)*' -*=-*.*2,',)*' 0^ + 2*' 620')?62'26,;-*' 1')- .,'6.',)*' -*=-*.*2,*0'1' 12' 1,)*-' ?12;?*2,.% ()*' -*0*?=, 12' 1' ?62' -1?'.2'D ',)*' 0*6,)'1')- .,'.' .?D1/[*0' 2'.1?*' >-;> L*.'D '6' 269*0' ?62'- .25';=' -*?',)*' 5-1;20' D*/18',)*' >-1..' 8) /*' 6')620' 6D1+*')A2'.'-*>)*0' 1;.' -1?' 6' >/1;0' 21,)*-' -*=-*.*2,.' 6' ?62'/ 25' 12',)*' 5-1;20' 8) /*' 6' 81?62' 8 ,)' 12*' 92*' 12',)*' 5-1;20' .',69 25'D1/0' 1',)*')620' 2',)*' >/1;0% () .' .'-*.,1-*0'D ',)*' >-1..',1',)*' =6-60 .*' -1?' 8) >)')*' 86.'0-+*2'1;% ()*' ?D/*?.'1',)*' 1;-'*+625*/.,.' 620' 625*/.' 2' 601-6, 12' 6-*' 1 ,*2' =/6>*0' 2*6-',)*' ;=^ =*-'=6-,'1',)*' >-;> L% ()*' .9;// 620' >-1..C)12*.'6,' ,)*' 11,'1',)*' >-1..' .'6/,15*,)*-' 6' ?10*?' 600 , 12% ()*' >-;> L'1'6'0=, >)'1' 6?)126'>12,6 2.'6'81/' ;20*-',)*' >-1..'21;-.) 25' 1?;/;.' 620' *?;.';=^ =1.*0',1' .?D1/[*',)*' .;DA*>,12'1',)*' :1?62' *?^ =-*' 620',)*' 81-/0',1',)*' >-1..'1')- .,'1-',1',)*' >,' 1' 1?*' 6.',)*' .*6,'1',)*' 1? .)I');->)% ',)*-' .?D1/.'-*/6, 25',1',)*',-;.,)' 1')- ., 62, ' 1-',1' ,)*',-60 , 12.'-*/6, 25',1',) .'>*2,-6/'*+*2,' 2',)*') .I

,1- ' 1 ',) *' 81-/0 ' 1>>;-' 2' +6- 1; .' >-;> L*. ')/6; ' 1,) *-' ?10 >6, 12.' *L .,' 1 ' ,) *' =-*.*2,6, 12' 1 ',) *' >-;> LM: ' 8)*,) *-' 5 +*2' 2' ;// -*/ * ' 1-') 5)' 1-' /18' -*/ * ' 1-' 8)*,) *-' =6 2,*0' 2' ? 2 6,; -*' 2' ?1.6 >' 12' -*.>1 ' 1-I12 >62+6.%

-; > L 12' M=-1=% I % O- ') ; ,' 2' ,) *' % (% ,) *' 21 ; 2' 01*.' 21,' 1>>; -',) *' 6>,' D* 25' 0*. 526,*0' D ' .1?*' 1-?' 1 ',) *' +*-D' ,1' %% ' ' T 12>*' H-% IHH * % ' 'D" ' %*%,1',) *' >-1.. ' >,.' ' KNT' ,) *' >/6.. >6/ 8 - ,*-.' ; .*' % N ' % 1' 1f1 270,+' --% *O N' 620 ' /*. .' =-1=*-/ ') =' E 8 E' 3' '% " ' 1' '1-' . ?=/ ' D ' \ (*-.; //% ' f' h ' \ ; .12%h' '% 1' ' 2 1' '* ' ' ' ' ' *,> 1' ,) *' . ; *-*-' 86.' >6//*0' 8!' **' + !

' # % ' ()*' +6- *, ' 1 ',) *' =)-6.*.' .)18.' ,) *' *L,-*?*' >1? ?122*.' 1 ',) *' =; 2 .) ? *2, ',) *' 2+*2C' , 12' 1 ' 8) >)' .' .-60 , 126// ' 6.>- D*0' ,1' *? -6? .%' ,' 867' 2' ; .*' 6? 125',) *' 5 =, 62.' M6.' 2' ,) *' >6.*' 1 ' 26-; .' ( ) ;>' ' N T' >1?=% 4*2% L/ ' RX' ,) *' 6-,) 6^ 5 2 62.' M2.' 2',) *' >6.*' 1 ' : 6221 ' *,>%' 6/% < 6L% ' T' 1/ D% ' QST' $% ,6/% ' N T' /; ,6->) ' @ ! K T' B; ., 2 ' L+ ' T' : -,% ; '& ! SSX' ,) *' *-. 62.' M 1/ >-6,*. ' *,>%T' : *-10 ' ' K T' +' NT' + ' R T' ,*. 6. ' 6 % ! T' >1?=% ..,) %+ ' X',) *' .. - 62.' M 10% >% ' X' > ,) 62.' M O% ' X' 20 62.' M O% ' QX' 4*-?62.' M=1.. D/ ' (6> ,% ? ! KX' 620' +*- ' -*^ _; *2,' -1?' ,) *' *6-/ *.',. ,?*.' M + ' ' KSX' 6?125',) *' 1?62.% >*-1')18*+*-' -* *-.' , ' 21,' M6.' + X',1' ,) *' *6-/ ' 9 25. ' D ; ',1' (6-_; 2 ;.' ;=*-D; .'>% ' > "!' XT' ;-*/% >,1-' >6//. ' ' 4 ' MH' =' !(8' % ' %% ! 1,) ') % % ' 620' 1' % ' M + 0 ' ' KRRX' -* *-',1' 0*6,) ' D ' ;' ,) ; . ' 2' .=*69 25' 1 ' /*L620*-.' >-;> L 12' 1 ' K ' (- 62. ') %+% ' 2' 10% >% 2.8*-.',1',) *' =' ' 1 ' 2' #% ;-,' +' % ()*' 4-**9.' M ,-6D1 ' L + ' S X' 620' <6>*012 62.' M == 62 ' " ! QT' ;-,' + ' ' KQT' L ' Q ' SX' 6/.1' .1?*, ?*.' -*.1-,*0' ,1' ,) . ' ?10*' 1 '=; 2 .) ? *2,%

() .' 6>>;-.*0' 620' 68 ;/ ?10*' 1 ' =; 2 .) ? *2,' 86.')6== / ' 6D1/ .)*0' D ' 12.,62, 2*' M 1[1?% ' QX' =-1D6^ D/ ',186-0.',) *' *20' 1 ') .' -* 52' M.**' =./; . 7*' ' ' X' 6/,) 1; 5)' ,' .' >;- 1; .',) 6,' 8*') 6+*' 21' ?1-*' ' 6>>1; 2,' 1 ',) *' ?6,,*-% L6?=/*.' 1 ',' 6-*' 1; 20' 2',) *' *6-/ ' =6-,' 1 ',) 6,' *?=*-1-.',' -* 52') ; ,' ,) *' -*+*-*2>*' 8) >) ' 6,' 6' /6,*-' =*- 10 ') *' 86.' /*0' ,1' **/ 1-',) *' >-1.. ' 01; D,/*..' 20; >*0') ?',1' =; ,' 62' *20' ,1',) *' 2) ; ?62' =-6>, >*' M ;-*/% *,% ? ! T' >*=) % + ' ST' -? >% + ' K X% 2' *0 >,' .1') 121-6D/*' ,1') - ., 62 , J' .6 .' 4 DD12' '0*.*-+*0' 6' =/6>*' 2' ,) *' ()*101. 62' 10*' 2..*60' 1 ',) *' 20 -*>,' ?*2, 12' 1 ' ,' 8) >)' .**?.',1' -*. ;/,' -1?',) *' >1?=6- .12' 1 ',) *' S,) ' 620' Q,) ' , ./*.' 1 ',) *' R,) ' D119J' M ' S '21,*X% **' + . !

% & ' 'D "' % ' &) *,) *-',) .' ?10*' 1 '*LC **2, 12' 86.' 92182' ,1',) *' 62> *2,' B* 8 .' .' 6' ?6,,*-' 1 ' 0 .=; ,' *' M.**' 1-2 , ; . ' ,' ' ' 6 ! %% ! ' ,*D% S T')6; *=$ ' 2',) *' ! ' ' ' ._%X% ,' .' 6..*-,*0',1') 6+*' D**2' .1' D ' 6-1C' 2 ; .' >& ! ' LLL +X ' 512 ; ' ID8 5 %!# 8 !' + 'QX' *,>7' 8) 1' 6-*' -* ; ,.*0' D ' 6.6; D12' M>' ; ! ' 6 ! L+LX ' 6-=[1+' >&%% ! ' ? '=% R X% ()*' : *D-*8' 81-0.' .6 0',1' 6// ; 0*',1' ,' 6-*' "(' M.1?*, ?*. 8 ,) ',) *' 600 , 12' 1 ' ';=12',) *',-**TJ')*2>* ,) *' B* 8 .' 2' =1/*? >.' >6// ' 1 ; -' 1-0' 620')- .^ , 62.' 81-.) ==*-.' 1 ',) *' >-;> *0J X' 620' ('D1,) ' 1 ' 8) >)' 2',) *' % *-.' 6-*' 5*2^ *-6// ' -*20*-*0' ,1') 625J' MK' 6?% .6+ ' T' *; ,% LL ' KKT' ; ?% LL+ ' T' B1D' LL+ ' XT' 1-' 8) >)' 1-6+C' =11X' 1>>; -.' 2',) *' *=, ' M .,) % + ' X' 620' =' 2',) *' ;/5% MK' 6?% LL ' S' RX% ()*' B* 8 .) ' 6>^ >1; 2,' 1 ',) *' ?6,,*-' M 2' <6) 12 0*.' 620',) *' 6DD .X' .' ,) 6,',) *' *L=1. ; -*' 1 ',) *' D10 ' , *0',1' 6' .,69*' D ' ,.') 620.' M8) >)' ? 5),' /11.*/ ' D*' >6//*0' >-;> L 12X' ,119

=/6>*' * '0*6,) ' M 5D, 11, ' 8 ' # 3 ! ' 'LL+ ' N T' ,) 12 .' !' 5 ! ' .% +% ; ==$ > 6T */620' & ' ST' -' (% -182*' N ! ' 6 ' + ' K X% +*2',) *' =/6> 25' 1 ' 6') *60' 12' 6' . 25/*' ; =- 5),' =1/*') 6.' D**2' >6//*0' >-;> L 12% ( ) .' >; .,1?' 1 ' >-;> L 12' "' M8) >)' .**?.' ,1' D*' ?=/ *0' 2' *; ,' LL ' KK KNX' 86.' D ' 21' ,? *62.' -6-*T ?*2' 8*-*' ' 9 //*0' 2' ?*-> ' M 0*,12% ' "'V' : *-10 ' ' K T' /; ,6->) ' ' NQX% >>1-0 25',1' 6' .,-625*' .,1 ' 2' / 2 ' MLLL+ ' ' g' K X' ,' 86.' 601=,*0' D ' (6-_2 2' 6.' 6'=1.,C?1-,*?' 0 .5-6>*' ,A' =-*+*2,' ,) *' =-*+6/*2>*' 1 ' .; > 0*% ,' .**?.' 12',) *' 8) 1/*' ,) 6,',) *' 6DD .' 6-*' >1--*>,' 2' 6.^ .*-, 25',) 6,' " ' *L=1. ; -*' .' 2,*20*0' ,/' >- =,; -*' . 2>*',) *' <1.6 >6= ,6/ =; 2 .) ? *2,.' 8*-*' 1; -' M+ [% ',) *' .81-0' L10% LL T' .,-625/ 25' -*' *+% LL T' 620' .,12 25' *; ,% LL X%) /1' 20**0' .6 .' >' ' !' % !P8' ,) 6,' <1.*.' 601=,*0' >-;> L 12' 6.' 6' ? ; -0*-*- .' =; 2 .) ^ ? *2,' D*>6; .*' ,' 86.',) *' S ') *' >1; /0' 0 .>1+*-T D; ,' ,) *' =6..65*' 2' *; ,% MLL ' KNX' 01*.' 21,' =-1+*' D .' 6.^ .*-, 12% -1D6D/ ' ,) *-* 1-*' ,) *' B* 8 .' D1--18*0' ,' -1?',) *' 1?62.' MB1.*=) ; .' & ! LL ' 4' KT' ' K' ST' ' ' *,>%X' 6/,) 1; 5)',) *-*' ?6 ') 6+*' D**2' 6' *8' .1/6,*0' 2.,62>*.' 1 ' ,' D* 1-*' MB1.*=) ; .' & ' L ' ' KX% **' # # ,' 86.' ; 262 ?1; ./ ' >12. 0*-*0',) *' ?1.,') 1-- D/*' 1-?' 1 ' 0*6,) ' 81-.*' *+*2',) 62' D; -2 25J' 2',) *' /68CD119.' M =. C' ; ' ' ' ' ! ' X% : *2>*' ,' .' >6//*0' ' ' 4 ' %% ' M >*-1 ' N ! + ' SSX ' ' % 'M =; /% & !&' ! LX ' % % N ! $!N ' , ,% LL-' *,>%XT' 620',1' 6' B* 8' ,' 81; /0' 6>_; -*' 6>, , 1; .') 1--1-' -1?',) *' >; -.*' 2' *; ,% LL ' KN% ?125',) *' 1?62.' 6/.1',) *' 0*5-606, 12' 86.' 6' =6-,' 1 ',) *' 2 >, 12' . 2>*' ,' 86.' *.=*> 6// ' 6' % % =' ' M(6> , ; . ' # ' + ' T' B; +*26/ ' + ' K QT' : 1-6>*' $! ' N ' Q ' *,>%T' /6; , ; . ' % 8' 1-' '6' ./6+* .' =; 2^ .) ? *2,J' I ' ' ' 4 ' ' ! ' % ! %%!' 2' 625* .7 , ' $! ' \ ; D*>' N h' =% ' ._ %T' 6/.1' : *2>9*' , % ! =% Q ' ._ %X' .1' ,) 6,' *+*2' 6' -**OC' ?62' >*6.*0',1' I *60',' M >*-1 "P-1' 5 ! XT' 1-' '6==/ *0' ,1' -** ?*2' 12/ ' 2' ,) *' >6.*' 1 ' ,) *' + /*.,' >- ? 26/.' M(1.*=) % & ! ' L+ ' T' ' +' T' 6; /% $! ' , ,% LL T' 6?=- O% & ! ' $ ' KNX' . ; >) ' 6.' =*-.12.' 5 ; /, ' 1 ' -1DD*- ' = -6> ' M *2*>6 ' 6% ' + T' >*-1 ' ! ' X' 6..6.. 26, 12 ' =*-A ; -A ' M -? >% + ' KSX' .*0 ^ , 12 ' ,-*6.12 ' 620' M 2' ,) *' >6.*' 1 ' .1/0 *-.X 0*.*-, 12' M 12 ' · KT' B1.*=) % & ! ' L ' KKT' =; /* ; . ' & ! ' NX' % 20**0 ' *L*?=, 12' -1?' ,' 86.' ,) *' =- + /*5*' 1 ' *+*- ' 1?62' > , [*2' D ' ,) *' * ' M >*-1 ' N ' ' NX% ; -' 1-0' 86.' >120*?2*0' ,1' ,' D ' ,) *' =1=; /6-' >- ' 1 ' ,) *' B* 8 .' M < 6,, ' LL+ ' KN' 6.' 1 ,*2') 6==*2*0' ,1' ,) *' *6-/ ')- ., 62.' X' 12',) *' >) 6-5*' 1 ' .*0 , 12' 656 2.,' *.6-' M ; 9*' LL ' KX' 6/,) 1; 5)' ,) *' 62) *0- ?') 60' =-*+ 1; ./ ' >120*?2*0') ?' 12',) *' ,1,6// ' 0 .,2>,' >) 6-5*' 1 ' D/6.=) *? % : ; 20-*0.' 1 ' B* 8 .' 8*-*' >-;> ^ *0' 12',) *' 1-?*-' >) 6-5*' 6.' D ' /1-; .' MB1.*=) % ' ' RX' 620' 6-; .' 8) 1' >-;> *0' K ' 6,' 12>*' >& ' L+ ' X% **' % ' ' ' ()*' .>6-/*,' -1D*' >-182' 1 ' ,) 1-2.' 620' 1,) *-' 2.; /,.' ,1' 8) >)' 1; -' 1-0' 86.' .; DA*>,*0' 8*-*' //*56/ ' 6; 0' 6-1.*' -1?',) *' .=12,62*1; .' =*, ; /62>*' 1 ',) *' D-; ,6/ .1/0 *- % ; ',) *' =; 2 ./ ?*2,' =-1=*-/ ' >1? ?*2>*0' 8 ,)' .>1; -5 25' 6 ,*-' ,) *' >- ? 26/) 60' D**2' .,- ==*0T) *2>*' 2',) *' >1? ?12' 1-?' 1 ' .*2,*2>*' 8*' 20' .; ? ?1+*' / >,1-' 0*.=1V,6' +*-D*-6 J' *,>% M + ' ' KSX% 1-',) .',) *-*' .' 6') 1.,' 1 '6; ,) 1-, ' .*' ' 7 + ' LL+ ' NT' #% ; -,' + ' T' ;>62' ' ' KTVB*-1?*' ' ' LL+ ' KS' *,>% ,' 86.' 2 / >,*0' 21,' 8 ,) ',) *' >1? =6-6, +*/ ' ? /0' 'D ; ,' ,) *' ?1-*' ,*-- D/*' ' M : 1-6>*' $! ' NT' >1?=% K 1-% L ' K ' K X' 8) >)' 86.' 21,' ; .*0' D ' ,) *' B* 8 7' %M *; ,% LL+ ' NX% 2,1',) 7.*' .>1; -5*.' ,) *' .1/0 *-.' 1 ,*2' .,; >9' 26 /. ' = *>*.' 1 ' D12*' *,>%',1') * 5),*2' ,) *' =6 2 I' M,) *' % 1' % E 3-*' ?*2, 12*0' D ' ,D*2. *=.' *,>%T % ' ' =; /%X' 8) >)' 86.' 1 ,*2' .1' 2,*2.*' ,) 6,' ,) *' .; *-*-' 0 *0' ; 20*-' ' M $/=% ' ' '+ X% ()*' .>1; -5 25' 5*2> 6// ',119

=/6>*' 6,'6'>1/; ?2 '620',)*' 12*',1' 8) >)'1 ;-' 1-0' 86.' D1;20' .'.6 0',1')6+*' D**2' .**2'D '8*-1?*' -;0*2, ;. ' 4-*51- '1 '(1;-.' *,>%'620' .' .)182'6,'.*+*-6/>);->)^ *.'6?125',)*' -*/>.% 2'1;-' 1-0 .'>6.*')18*+*-',) .' 2 />, 12' .**?.' 2* ,)*-',1')6+*' D**2',)*'/*56/ .>1;-5^ 25'6 ,*-',)*' .*2,*2>*' M 6/% < 6L% ' T' B1.*=);.' 6-' +' KQT' ' ' RX' 21-' *,',)*' *L6? 26, 12' D ',1-,;-*' M >,.' LL ' K X' D;',-6,)*-'6' .>1;-5 25' ',)*' .*2^ ,*2>*' ,1' *L> ,*' = , '620'=-1>;-*' ? ? ;2 , ' -1?' ;-^ ,)*-' =;2 .)? *2,' M ;9*' GLL ' KKT' B1)2' L L ' XT' 620' ',) .' + *' RX' 21-' *,',)*' *-*>*,',)*' -* *-*2>*',1' ,'7\7=6 dd6 C 16>% 2' <6,,' LL+ ' KS' .' -*,-1.=*>, +*' 6.' .1' 5-*6,' 62' 625; .)6>1;/0')6-0/ ')6+*' D**2' *20;-*0' 'M.*** 1// $ % *' 60'/1>%% : 18' .*+*-*' ,' 86.' .' 20 >6^ ,*0' 2' =-1=)*> '7 .6% LLL+ ' T' .6% ISX% 1.. ;.' >12. 0*-.' ,)6,' ,' 86.' =6-,/ ' /*56/' =6-,/ ' ,*2,6, +*' > !' ' + ' NX% **' (#

()*' >- ? 26/ >6-- *0') .' 182' >-1..' 1-' 6,' 62 '-6,*' 6' =6-,' 1 ' ,'M /;,6->) ' ' ' '4 ' 1'*,>%' RT' -,*? 0% ' ! ' S T' .**' B1)2' L L ' T' >1?=% =6, D;/;-6' *-6,'=*-';-D*?'0* 20*' 6 56,;-'>-;0 J' /62,% =

(8! : *2>*',)*',*-?' 1' >-1..CD*6-*-' M_% +%X%

() .' 86.' =-* 5;-*0' D ' .66>' >6- 25',)*' ' 2' 4*2% LL ' S' 8)*-**+*2',)*' B*8 .'21, >*',)*' =6-6//*/T 620',1',) .',)*' 6,)*-.' 62,6., >6// '6==/ *0',)*' *L^ =-*.. 12' 2' .6% L' S' ,)*' 51+*-2?*2,'.)6// D*' ;=12') .' .)1;/0*-%J' ()* ' 8*-*' .1?*, ?*.' .>1;-5*0' 620' 5160*0' 12',)*' 86 'M /6;,% ! ' SKX% 2' .1?* 1/0' 5;-*.' 8*' .**' 1;-' 1-0' 0*.>- D*0' 8 ,)' 6' ,6D/*' 6=C =*20*2,',1',)*' - 25*' 1 ') .' 56-?*2,' .*,' ;// 1 '26 /.' 620' =1 2,*0' -12J' MB*-% (6 /1-' ' " ' 'L+' KT' # ' 2 ' 4 ' $' =-% ' ! =% S X' **' (' 7)' 6. :

()*' =/6>*' 1 '*L*>;, 12' 86.' 1;,. 0*',)*' > , 'M =1.,' ;-D*? J' >*-1' *-2' + ' SST' *L,-6' =1-,6? J' /6;,% 2! ! ' ST' >1?=% ' 25.' LL ' NT' >,.' + ' QT' : *D% L ' KT' 620' 2' >6?=.' '*L,-6' +6//;?JX' 1 ,*2' 2' .1?*' =;D/ >' -160' M#; 2>,% ' ! K X' 1-' 1,)*-' >12.=>^ ;1;.' =/6>*' / 9*',)*' 6?=;.' <6-,;.' M >*-1' A=-1' 76C " 8' 1-' .1?*' .=0,'.*,'6=6-,' 1-',)*' =;-=1.*' M(6>,;.' & ! L+X% () .' ? 5),'.1?*, ?*.' D*' 6') //' M 6/% <6L% + XT' ,' .')18*+*-' -6,)*-' 62' 2 *-*2>*',1' >6// 41/^ 51,)6' 6' " 2:' 2',)*' +625*/ .,.' ,' .' >6//*0' 6=,1>*J M-1((X% **' #! -- +*0'6,',)*' =/6>*' 1 '*L^ *>;, 12',)*' .;*-*-' 86.' .,- ==*0'269*0' M -,*? 01-;.' ' SQX',)*' 0-*.' D* 25',)*' =*-_;.,*' 1',)*' .1/0 *-.' M<6,,' LL+ ' N T' ! L/+ ' K ' SXT' =1.. D/ ' 21,' *+*2' 6' >/1,)' -1;20',)*' /1 2.' 86.' 6//18*0') ? T' 6,' /*6.,'6?125',)*' B*8.',)*' -;/*' 86.' ``,)6,'6' ?62' .)1;/0' D*' ,12*0' 269*0J' I$ " '+ ' NX' 8)*-*',)*' >12,*L,' .)18.',)6,' '269*0J' ?;.,217' D*',69*2' 2' ,'-*.,-> ,*0' .*2.*% ()*' >-1..' 86.',)*270- +*2' 2,1',)*' 5-1;20' .1' ,)6,',)*' **,'1',)*' >120* ?2*0' 8*-*' 6' 11,'1-',81'6D1+*' ,)*' *6-,)'M 2'= >,;-*.'1',)*' >-;> L 12',)*' >-1..' .'5*2^ *-6// '?;>)',11'/6-5*' 620') 5)X' 620')*' 86.'/ ,*0';=12' ,' I ' ' ' ' (-;^ 0*2,% ((=' (c %' /6;,;.' ! ' -;> .1V 8TJ' O% ; "!' K' N KQT' 0+ V 1-' V 1+' f ' ')% '2d1-' 4-*5% 6[%X' 1-' */.* .,-*,>)*0' ;=12' ,'12',)*' 5-1;20' 620',)*2' / ,*0' 8 ,)' ,',1' 8) >)',)*-*' .**?.',1' D*' 62' 6//;.'12' 2' 6'/1.,'=-1=)*> '_;1,*0' D' 6-26D6.' I ;%!' KX' ') (" ')E g ') ' ' M *6-.12' ,' " ' ' >,.' +X% ()*' 1-?*-' ?*.)10' 86.',)*' >1?? 12*-' 1-' 8*' 1 ,*2' -*60' M6.' 2' .,)% + ' *,>%X' 1',)*' >-1..' D*^ 25' *-*>,*0' D* 1-*)620' 2',*--1-*?% * 1-*',)*' 26 /^ 25' 1-' D 20 25',119' =/6>*' 6' ?*0 >6,*0';=' 86.' 5 +*2' 1;',1 '9 202*..',1' >12 ;.*',)*' .*2.*.' 620' 0*60*2',)*' =625.' 1',)*' .;*-*-' M -1+% LLL ' SX' ;.;6// '1 'D ,,*-' 8 2*' M1A71 % % 1-' E E 1 % % E' 6.' 6?125',)*' B*8.' M 5), 11,' ! ' ! ' 'LL+ X' !'*>6;.*' ? --)' 86.' .1=1- >% ,)*-'D ,,*-')*-D.' 8*-*' 6/.1' *?=/1 *0' M == 25' 6 2' & ! =% X% ;-' 1-0' -* ;.*0' ,',)6,') .' .*2.*.' ? 5),' D*' >/*6-' M<6,, LL+ ' N T' <6-9' L+' KNT%<6 ?12 0*.' ; + ' L X% <6,,)*8' >6//.' ,' + 2*56-' ? 25/*0' 8 ,)' 56//J' I 1 ' % " 'L1d7>' 72' *L=-*.. 12' ;.*0' 2'-* *-*2>*',1 .6% L L ' K ' D;,' 21,' .,-> ,/ ' 6>>;-6,*% () 7?*-> ^ ;// ' 2,*20*0' 0-6;5),' ? ;.,' 21,' D*' >12 1;20*0' 8 ,)' ,)*' .=125* ;/ 1 ' + 2*56-' I % ',)*' >1? ?12' 0- 29' 1 ' 1?62' .1/0 *-.' =6-,%# !T' /6;,% !' ? !' 'K KNX' 8)>)' 86.' =;,' 12' 6') ..1=C.,6/9' 620' 1 *-*0',1' 1;-' 1-0' 2' ?1>9 25' 620' >12,*?=,;1;.' = , ' M<6,,' LL+ ' QT' ;9*' LL 'NSXT',) .')*',6.,*0',1' 6//6 ',)*' 6512 *.' 1',) -.,'MB1)2' L L ' KRX%

()*' D10 '86.' 6 L*0',1',)*' >-1..' D '26 /.'M.**' 1-2% ;-, ;.' ' ' ' 2,8% S X' 0>- +*2' 2,1',)*')620.' 620' ?1-*' -6-*/ ' 2,1',)*' **',T' 1?*, ?*.',)*' **,' 8*-*' 6.,*2*0' D ' 12*' 26 /' 0- +*2',)-1;Ea)' D1,)' M(*-,;//% !' D !' L T' *2*>% ' 'N ';' RT' 6>C ,62,% ' + ' NX% ()*' **,' 8*-*' 1>>6. 126// ')1;20',1',)*' >-1..' D '>1-0.T' 620' d*21=)12' 6/.*-.',)6,',' 86.';.;6/ 6?125',)*' 5 =, 62.',1' D 20' 2',) .' ?622*-' 21,'12/ ',)*' **,' D;.',)*')620.% 2' 2.>-=, 12' I (8' 86.' 8-.,,*2',=12' 6' .?6// ,6D/*,' I ' 1>-6,% # !' 6 ! ' X' 0*>/6- 25',)*' >- ?*' M.**' /D*-,' ' ' % !' ' " ! =.% K X' 620' =/6>*0' 12',)*',1=' 1',)*' >-1..' M ;*,12% ! NQT' ' ! T' ;.*D% # !' 6 ' X% ()*' D10 '1',)*' >-;> *0' =*-.12' -*.,*0' 12' 6' .1-,'7 .*6,' I* * % (8' M -*2% 3' DD ' ' KX% ()*' >- ? 26/ 0 *0' ;20*-',)*' 2 1.,' - 5),;/.;*- 25.' .1' 5-*6,',)6,'*+*2'6? 0',)*'-65 25'=6.. 12.'1 '86-'= , '86.' .1?*, ?*.' *L> ,*0% B1.*=);.' M(6-'+' X' 26--6,*.' 1 '>6=, +*.',69*2'6,',)*' .*5*' 1 'B*-;.6/*?',)6,',)*' 8*-*' -.,' 8) ==*0' 620',1-?*2,*0' 8 ,)' 6//.1-,.' 1' ,1-,;-*.' 620',)*2' >-;> *0' D* 1-*',)*' 86//.' 1',)*' >, % ()*' .1/0 *-.' 1;,' 1',)*' 8-6,)' 620',)*')6,-*0' ,)*' D1-*',)*' B*& .' 26 />0,)1.*',)*' >6;5),' 12*' 6 ,*-' 12*' 86 '620' 621,)*-' 6 ,*-' 621,)*-',1' >-1..*.' D '86 ' 1 'A*.,' 8)*2',)*-?;/, ,;0*' 86.' .'1'5-*6,',)6,'-11?' 86.' &62, 25' 1-',)*' >-1..*.' 620' >-1..*.' 862, 25' 1-',)*' D10 *.% () .'? .*-6D/*' =-1>*0;-*' ?60*' (,;.' 5-*6,/' = , ',)*?%J' 1?*, ?*.',)*' .; *- 25' 86.' .)1-,*2*0' 620' 6D6,*0' D 'D-*69 25',)*' /*5.'1',)*' >- ? 26/ ' 9 ' 'M >*-1' " 'L ' KX% (/*' *L*>;, 12',119' =/6>*' 6,',)*')620.'1',)*' '1-')625?62' 6,,*20^ *0' D '6' D620' 1' .1/0 *-.' 620' 2' 1?*' ;20*-',)*' .;^ =*-+ . 12' 1',)*' (- ;?+ -' 6= ,6/*.'M(6>,% & ! L+' S T' 6>,62,% +' KSX% ()*' 6>>1;2,.'5 +*2' 2',)*' 41.^ =*/.' 1',)*' *L*>;, 12' 1' B*-;')- .' 6-*' 2' *2, -*' 65-**?*2,' 8 ,)',)*' >;.,1?.' 620' =-6>, >*.' 1',)*' 1^ ?62.' 2',) .' =6-, >;/6-'M()1/;>9' ? 2 " ' ' ! ' ? "!=% NS X%

;-' 1-0' 86.' >-;> *0' D*,8 **2',81' ,) *+*.J' M d=C I-- 8' 1-' ?6/* 6>,1-.J' M,)*2' .1' >1? ?12' 2' 6/*., 2*' B1.*=);.' ' ' 4' *,>%X' 6>>1-0 25',1' =-1=)*> 'M .6%/ ' KXT' 620' 86.' 86,>)*0' 6>>1-0 25',1' >;.,1?' D '6'=6-, '1' 1;-' .1/0 *-.' MB1)2' L L ' KNX' 8 ,)' ,)*-*>*2,;-12' I) !' <6,,' LL+ ' SST' '4 ' ' " ' *,-%$! ' ST' /;,6->)' N ' ! NQX' 8)1.** *L=-*..' 1 >* 86.',1'=-*+*2',)*' .;--*=, 12' 1',)*' D10 ' M *2*>6' 6%! X' ()*' 86.' 2*>*..6-' -1?',)*' / 25*- 25'>)6-6>,*-'1',)*' 0*6,)' 8) >)'.1?*^ , ?*.' 0 0' 21,' .;=*-+*2*' *+*2' 1-',)-*** 06 .' 620' 86.' 6,'/6.,',)*' -* .;/,'1 '5-60;6/ D*2;?D 25' 620' .,6-+6, 12' M ;.*D% + ' QT' *2*>6' ! NX% ;.' 1-',) .' 5;6-0' ,)*' =*-.12.' ? 5),')6+*' D**2',69*2' 0182' 620' -*>1+^ *-*0' 6.' 86.' 6>,;6// '012** 2',)*' >6.*' 1' 6' -*20' 1' <1.*=);.',)1;5)' 12/' 12*' .;-+ +*0' 1;,' 1' " ',1' 8)1?',)*' .6?*' >6-* ;/ 2;-. 25' I;% - % + 8' 86.' 6==/ *0' I ' SX% ?125',)*' 12+;/. 12C 26 -*.72',)*' -* 52' 1' 1;.' d ' 81?*2' 81;/0' D*' -*^ =*6,*0/ '>-;> *0' 620' *+*2' -*?6 2' 12',)*' >-1..',)-**')1;-.' 8*' 6-*',1/0' 1' 12*' 8)1' ;20*-8*2,',8*2, C ,)-**',?*.'>6 ! ! '.%+% -1..XT',)*' =6 2' >12^ . .*0' 6/?1.,' *2, -*/ ' 2',)*' ' 620' 21,' ?1-*' ,)62' 6' D6. 2 ;/1 'D/110' 86.' /1.,% , // 8*' >6221,'D*^ /*+*' -1?',)*' <6-, '-1/15 *.',)6,' >,1- 2;.' M>-;> *0')*60' 0182 86-0X' /+*0',)-**' 06 .' 1-' (?1,)*;.' 620' <6;-6' 2 2*' 06 .' M>1?=6-*' -*,.>)2* 0*-' 2',)*' $! ') !!' QNK' 'SK T' 6;/;.' 2',)*' ' ! ') " / ! QNN' 1% Q RX% -6>,;-*' 1',)*' /*5.' M /6;,% ' +' K' S X' 86.' *.=*> 6// '601=,*0' D ',)*' B*8.' M *;,% LL 'KKX',1')6.,*2' 0*6,)' MB1)2' L L ' N X' 620',

86.' 6' ? , 56, 12' 1 ',)*' =;2 .) ? *2,' M 6.6;D' 6 ' *+*-' ,)*' 2 /6? ?6, 12' 1 ',)*' 81;20' .' .1' 2,*2.*' 6.',1'
& "1'=% N X' 6.' 1D.*-+*0'D ' - 5*2 ' ;',)*' $2;^ =-10;>*' ?1-, >6, 12 '2*-+1 ; .'0*=-*.. 12' .',)*' ? ?*^
. ;6/ -6= 0 , '1 '1;-' 1-0 .' 0*6,)' 86.' 0;*' ,1',)*' 0*=,)' 0 6,*' >12.*_;*2>* I' 620' ',)*' >6;.*' 1 ',) .' *L>*.. +*'
1 ') .' =-*+ 1;.' 6512 *.'M8) >)'6==*6-.' -1?') .' 26D /^ 2 /6? ?6, 12' 1 ',)*' 81;20' ., // >12, 2;*.' 6.' .',)*'
, ',1' D*6-' &.' 182' >-1..' 6-X'620',1') .' ? *2,6/ 62^ >6.*' 2' >-;> L 12',)*' .; *-*-' -6= 0/ ' . 29.% : *' .'
5; .)' M >)1,,5*2' # !' ; "' + 'NT' ; '% !' 8' 21'/125*-' .*2. D/*' 1 '=6 2 'D ;,') .' 62L *, '620' .*2.*'
1-' ,? 6 'D*' .; > *2,/ ' 6>>1;2,*0' 1-' / ?=/ ' -1?' 1 '=-1.,-6, 12' 6-*' *L>*.. +*T) >>1;5)' .;=*-+*2*.') .'
=*>;/ 6- , *.' 1 '>12., ,;, 12% ()*-*' .'21' 2**0',1' *L^ .9 2' .' ?1 .,*2*0' 8 ,)'6'>1/0'>/6 ? ? ' .8*6,' 620'0*6,)'
=/6 2',)*' '5 + 25';='1 ',)*'5)1.,J'6.'6' ? -6>/*'M : *D% *2.;*.% ,' ' 2',) .' ?622*-',)6,'0*6,)'12',)*' >-1..'
2' 'HX' 1-' .6 ' 8 ,)' =- 62' ' ' 1' ? ;,')6+*',69*2'=/6>*' 2'62'1-0 26- / ')*6/,) '>12., ^
% ' % " ' ' I1& !' ; 8!' , // /*..' >62' ,;, 12% ()*' 81;20.' 2' ,)*?.*/+*.' 8*-*' 21,' 6,6/T
,)*'>1? ?12'>6+ /1 ' 2 0*/, 'D*',)1;5),'21,*81-,) ' D;,'6./1276.',)*' 26 /.'-*?6 2*0' 2',)*? ',)*' 2 /6?^
. 2>*') 60'1;-' 1-0'D**2' 2;' .8112',)*'=*->25'1 ') .' ?6, 12' ?;,;)6+*' 2>-*6.*0' 2' 2,*2., '02, /' ,'=-1^
=*- >6-0 ; ?'M=-1+*0'DA',)*' 6==*6-62>*' 1 '/ ?=)' 620' 0;*0'5625-*2*% ()*' =*- 10'6,' 8) >)'0*6,)' 1>>;--*0'
D/110%' 81;/0')6+*' *2.;-*0'0*6,)% M **' .>)*2D6>)' 86.'+*- '+6- 6D/*' 6.' ,'0*=*20*0'12',)*' >12., ,;, 12'
, % !' ' '$ ' ' %% ' ' ' 1' 1',)*' .; *-*-' 6.' 8*// 6.' 12' ,)*' 0*5-**' 1 ' *L=1.;-*'
1'620'4-;2*-' ; ' ' + ' ' % ' ;1,*0' 620',)*' ..6,*' 1',)*' 8*6,)*-% (,' ?6 ')18*+*-'D*'
D 'B6)2' 2') .' V V CO-> %X' M **'D*/18%X' /6,*'>6M 6..*-,*0',)6,'0*6,)'81;/0'21,',69*'=/6>*' ;2,/',)*'/1>6/
% D ') ? .*/'1',)*'6>,;6/ '"D ',:*., 12^ 2 /6? ?6, 12')60'-;2',.'>1;-.*T 620',)1;5)',) .'=-1^
25',)*'>*2,;-12'M<6-9'L+' XT' 620',)*'1? .. 12'1' >*..' ?6 'D*' ? ;>)')6.,*2*0'D ' 6, 5;*' 620',)*' 6/,*-^
,)*' D-*69 25'1',)*'/*5.' 2',) .' >6.*' 86.',)*' ;/ /^ 26,*'*L=1.;-*',1',)*'-6 .'1',)*' .;2'620',)*'>1/0'2 5),'
? *2,'1'6', =*'M L10%L ' X% ,)*-'?10*.*'1')6.,^ 6 -',' .'21,'>1?=/*,*0'D* 1-*' 1-, C* 5),')1;-.' ;20*,'
*2 25'0*6,)'8*-*' D '/a7), 25' -*.' ;20*-',)*' >-1..' 1-0 26- '>-;;?.,62>*.'620' 2')*6/,) '>12., ,;, 12.T
M)*2>*',)*'2 >926?*.'$ '620'$ * 1' (*-,% .1',)6,'8*?6'>12. 0*-',) -, C. L')1;-.',1'D*',)*'*6-^
&% " 'S X'1-'/*,, 25'/11.*'W+/0'D*6.,.'12',)*'>-;> *0' / *.',=*- 10'6,'8) >)'>-;> L 12'81;/0'1>>6. 12'0*6,)'
M ;*,% *H% RX% 2' 6') *6/,) '60';/,% ,' >62' 21,'D*' 1DA*>,*0',)6,',)*'
4*2*-6// ',)*'D10 '86.';*-*0',1'-1,'12',)*'>-1..' 1DA*>,*0',)6,',)*' D**2' 0;/ '
M >*-1' - ! ! ' NT /% ,6/% + ' QSX' D ',)*'6>^ >12. 0*-*0' 2',)*' 6D1+*' *., ?6,*' 1-' ?62 '>6.*.' 6-*'
,12'1'.;2'620'-6 2'M:*-10' ' KX'1-',1'D*'0*+1;-*0' -*>1-0*0' 1 '=*-.12.') 6+ 25' .;-+ +*0' 6' ?;>)' /125*-'
D 'D -0.' 620'D*6.,.' M =;/% '& '& 'ST :1-6>*' , ?*',)62' .') *-*' ?*2, 12*0'*+*2'6.'/125'6.'* 5),'1-'
6%!' ' QT' B;+*26/'L+' X% *=;/,;-*' 86.'5*2^ 2 2*' 06 .% ;.*D ;.' D/*' ! 6 ! ' QX .6 .',)6,'
-6// ',)-* 1-*' 1-D 00*2' M 2 ' # ' 7 ' LL7+ ?62 '1',)*'?6-, -.' 2' 5 =,'8)1'8*-*'>-;> *0'8 ,)'
K X',)1;5)',' ? 5),'D*' 5-62,*0'6.' 6' .=*> 6/ 6+1-' 1-' ,)*-')*60.'018286-0%=*- .)*0'D ');25*-% ()*' 862,'
12'5-620'1>>6. 12.'M$/=% L' ; ' ' !(8' ;,' 1' 86,*-' 86.' 6' ? ;>)' ?1-*' ?=1-,62,' =- +6, 12% ,'
2'>12.*,;*2>*' 1' *;,% LL 'KK KN' 62'*L=-*..' 26, 12^ ? ;,')6+*' >6;.*0',)*-' 2*L=-*..' D/*' 625 ./'
6/*L>*=, 12' 86.' ?60*' 2' 6+1-' 1',)*' B*8.' M<6,,' 620'D/+*' >12,-D;,*0' 2' 21' ./5),' 0*5-**' ,1')6.,*2'
LL+ ' QT' >1?=%B1.*=)% 6-' + 'S KX% 0*6,)% ' ? ,)' .% + %T ,,1' +%
% " ! ' ,' 12/ ' -*?6 2.',1' .=*69' 1',)*' *+*-6/ V*? 2*2,' 8-,*-.')60' 1>>;=*0',)*?.*/+*.'
?622*-'1'0*6,)'620',)*'9 20'1'=) . >6/.; *-25'*2^ 8 ,)',)*')= . 1/15'1'1;-' 6+1;-.'=6.. 12' '8 H?6'
0;-*0'8) >)' 8*' .)6// +*- 'D-*/'6D-05*' -1?',)*' .1'*L=-*..' 1;-.*/+*.' D* 1-*' ,/*' .> *2, >J ?*,)10'
,-*6, .*'1',)*')= . > 62' >),*-'M2'B6)2.';' '&' "(8! 1',-*6, 25' ,' 86.'-*.1-,*0',1T .;>)' 8*-*' >)*;>)[*-'
()*.*'6-*' % ()*' ;226,;-6/'=1. , 12'620'+1/*2',*2^ <*60' 6-,D1/ 2;.' 15/*-' (- //*-' >),*-' 620' .C
. 12'1',)*'D10 '8) >)'>6;.*'6'=6 2 ;/.*2.6, 12' -1?' >)*2D6>)%7 ;,'6' ?;>)' ;//*-' 620' ?1-*' *L6>,' 2+*.,^
,)*'/*6.,'?1, 12% K ()*'26/.'D* 25'0-+*2',)-1;5)' 56, 12')6.' .2>*' D**2' ?60*' D ',)*', 81' 4-;2*-.' 6^
=6-,.'1',)*')620.'620'**,'8) >)'6-*' ;// 1' '620' ,)*-'620'.12',)*'/6,,*-'1'8)1?' -.,'8-1,*' ;20*-',)*'
D 'M620' *,'6,'6'0.,62>*' -1?',)*')*6-,X'>-*6,*' 0 ^ ,*20*0'=6-,.'1',)*'D10 '?1-*' D/110' /18.',)-1;5)',)*'
?1.,'*L_; . ,*' 625; .)% N ()*'*L=1.;-*'1'.1' 6-,*-'*-' ?1?*2,' 2>-*6.*.' ,)*' =1 5262>' 1'.; *- 25% 2',)*' 0 .^
?2'81;20.'620'/6>*-6, 12.'D- 25.'12' 2 /6? ?6, 12' ,*20*0'=6-,.'1',)*'D10 '?1-*' D/110' /18.',)-1;5)',)*'
8) >)' ,*20.',1'D*>1?*' 5625-*2*'620'*+*-' ?1?*2,' 6-,*-'*.',)*' =1 5262>' 1'.; *- 25% 2',)*' 0 .^
2>-*6.*.' ,)*' =1 5262>' 1'.; *- 25% 2',)*' 0 .^ 6-,.'1',)*'D10 '?1-*' D/110' /18.',)-1;5)',)*'
,*20*0'=6-,.'1',)*'D10 '?1-*' D/110' /18.',)-1;5)',)*' 6-,*-*.',)62'>62'D*'>6-- *0'D6>9'2,1',)*'+* 2.a)*2>*' 6-,*-*.',)62'>62'D*'>6-- *0'D6>9'2,1',)*'+* 2.a)*2>*'
,11'?;>)'D/110' 20.',.'86'-1?',)*'61-,6'2,1',)*' ,11'?;>)'D/110' 20.',.'86'-1?',)*'61-,6'2,1',)*'
)*60'620'.,1?6>)'620',)*'D/110C+*..*/.'1',)*'D*60')*60'620'.,1?6>)'620',)*'D/110C+*..*/.'1',)*'D*60'
D*>1?*'=-*..*0'620'.81//*2% ()*'5*2*-6/1D.,-;>, 12' D*>1?*'=-*..*0'620'.81//*2% ()*'5*2*-6/1D.,-;>, 12'
1'>->;/6, 12'8) >)'*2.;*.'>6;.*.'62'2,*-26/*L>,*C' 1'>->;/6, 12'8) >)'*2.;*.'>6;.*.'62'2,*-26/*L>,*C'
?*2,% *L*-, 12'620'62L*, '?1-*' 2,1/*-6D/*' ,)62' ?*2,% *L*-, 12'620'62L*, '?1-*' 2,1/*-6D/*' ,)62'
0*6,)' ,.*/% ()*'2*L=-*.. D/*' ? .*-'1' ' 0*6,)' ,.*/% ()*'2*L=-*.. D/*' ? .*-'1' '
'620'/25*-25'625; .)% (1'6//',) .'8*'?6' '620'/25*-25'625; .)% (1'6//',) .'8*'?6'
600'S% ;-2 25'620'-65 25',)-.,% 600'S% ;-2 25'620'-65 25',)-.,%
6,)'D'>-;> L 12'M=) . >6// '>12. 0-*0%.',)*-*^ *6,)'D'>-;> L 12'M=) . >6// '>12. 0*-*0%.',)*-*^
1-*',1'D*'6,,-D;,*0',1',)*'. ?=6,)*,>'*+*-'8) >)' W 1-*',1'D*'6,,-D;,*0',1',)*'. ?=6,)*,>'*+*-'8) >)' W
*L>,*0'D',)*'81;20.'620'655-6+6,*0'D'*L=1.;-*',1' *L>,*0'D'*L=1.;-*',1'
,)*'8*6,)*-'=-+6, 12'1'86,*-'620',)*'=6 2 ;// '>12^ ,)*'8*6,)*-'=-+6, 12'1'86,*-'620',)*'=6 2 ;// '>12^
.,-6 2*0'=1. , 12'1',)*'D10 % (-6;?6,>'*+*2'>1--*^ .,-6 2*0'=1. , 12'1',)*'D10 % (-6;?6,>'*+*2'>1--*^
.=120.' 2' 2,*2., '620' 2'>)6-6>,*-',1',)*'/1>6/ 2^ .=120.' 2' 2,*2., '620' 2'>)6-6>,*-',1',)*'/1>6/ 2^
/6??6,12'1',)*'81;20% 2',)*' -.,'.65*'8)/*',)*' /6??6,12'1',)*'81;20% 2',)*' -.,'.65*'8)/*',)*'
2 /6? ?6, 12' 1',)*' 81;20' .' >)6-6>,*-[*0'D')*6,' 2 /6? ?6, 12' 1',)*' 81;20' .' >)6-6>,*-[*0'D')*6,'
.8*// 25'620'5-*6,'=6 2',)*'+*+*-' .') 5)/' 2 /6? ?6C .8*// 25'620'5-*6,'=6 2',)*'+*+*-' .') 5)/' 2 /6? ?6C
,1-A'620',)*'.; *-*-'>1?=/6 2.' 1')*6,' ,)-1DD 25' ,1-A'620',)*'.; *-*-'>1?=/6 2.' 1')*6,' ,)-1DD 25'
)*606>)*' 2,*2.*' ,) -.,' -*-,/*..2*.7720'62L*, %)*606>)*' 2,*2.*' ,) -.,' -*-,/*..2*.7720'62L*, %
.'.112'6.'.;==;-6, 12' .*,' 2',)*' <7*-'.1?*8)6, .'.112'6.'.;==;-6, 12' .*,' 2',)*' <7*-'.1?*8)6,
6D6,*.'620'5-60;6// '>*6.*.'6.'.;==;-6, 12'0 ? 2 .)*.' 6D6,*.'620'5-60;6// '>*6.*.'6.'.;==;-6, 12'0 ? 2 .)*.'
620',)*' .,65*'1'>>6,-[.7, 12'6==-16>)*.% ;' ',)*' 620',)*' .,65*'1'>>6,-[.7, 12'6==-16>)*.% ;' ',)*'
81;20'D*' =-*+*2,*0' -1?')*6/25'620' .;==;-6, 12' 81;20'D*' =-*+*2,*0' -1?')*6/25'620' .;==;-6, 12'
>12, 2;*',)*' *+*-'6..;?*.'6')*>, >'>)6-6>,*-'620'8 // >12, 2;*',)*' *+*-'6..;?*.'6')*>, >'>)6-6>,*-'620'8 //
.112*-'1-'/6,*-'*L)6;.,',)*'=18*-.'1'/ *% &)*2')18^ .112*-'1-'/6,*-'*L)6;.,',)*'=18*-.'1'/ *% &)*2')18^

12/ ' 6//*2' 2,1' 6' ,-62>*' -1?' *L)6 ; ., 12 ' ,) * ')6+*' ?62 *../ ' 21' - 5),' ,1'A;05*' -1?' 1,)*-' >6.*. ' 1-' 2' ,)*?' *+*2' ,) .' 0 0' 21,' 1>>;-% ()*' 1;25*-' 4-;2*-' 51*.' ? 2;,*/ ' 2,1' 6//' ,)*' .?6//*.,' > ->; ? .,62>*.' 1 ' ,)*' =6.. 12' *L6? 2 25',)*?' 6.' 1DA*>,.' 1 ' ?*0 >6/A;^ - .=-;0*2>*' 620' =6-, >;/6-/ ' ,69*.' >152 [62>*' 1 ' ,)*' .,-19*' 2 /> ,*0' D ' ,)*' .1/0 *- .' /62>*% : *' .)18.' ,)*' 5-*6,' =-1D6D / , ' 1 ' ,)*' 81;20')6+ 25' D**2' 2' ,)*' /* ,' . 0*' 620' -1?' D*/18' ,-62.+*-.*/ ' ';=86-0')*' 0*?12^ .,-6,*.' ,)6,' .;>)' 6' .,-19*' 2 />,*0' D ' ,)*' -1D ; .,' 6-?' 1 '6' 1?62' .1/0 *-' 8 ,)'6' .)1-,'/62>*' 1-',)*' >-1..' 86.' 21,' -6 .*0' ?;>)' -1?',)*' 5-1;20' ?;., ' 2162 ') =1,)^ *. .')6+*' 1>>6. 12*0' 6' 0*60/ ' 81;20% $=',1' ,) .' ?1?*2,')*' .;==1.*.' 1;-' 6+ 1;-' ?6 ')6+*' D**2' ., // 6 2,/ ' 6/ +*' D*>6;.*' 1,)*-8 .*' ,)*' D/110' 81;0' 21,')6+*' /18*0' 620' D*>6;.*',)*' /1;0'>- '8) >)')*' ;,,*-*0' .'6' . ?=,1?'1 '6' . 2>1=*' -1?',11'5-*6,'6'>125*., 12' 1 'D/110' 6D1;',)*')*6-,% ;',) .' 81;20' 8) >)' -1?' ,)*' /18 25' = ' D/110' 620' 86,*-')*' .;==1.*.',1')6+*' D**2' 2',)*' >6+ , ' 1',)*'>)*.,' ?;.,' 6>>1-0 25',1') ?')6+*' D**2' 2*>*..6-/ C 6,6/% (-2;.' 620' 1,)*-'>1?^ ?*2,6,1-.' 6.' 8*// 6.' ?62 ' =) . >62.' 4-;2*-' 6-C ,)1/2;.' (-//*-' 620' .>)*2D6>)' .;==1.*',) .' 86,*-,1'C)6+*' D**2' / ?=)' -1?',)*' =*-.>6-0 ;?% 15/*-' I " ' #2 ' ' :*/?.,' SRN'=% X' .;==1.*.' ,',1')6+*' D**2' .*-;?' .*=6-6,*0' -1?',)*' D/110% ;' -1?',)*' ?622*-' 2'8) >)',)*' 6=1../*' B1)2' ?*2, 12.',) .' ? ., >6/ /18'620' -1?',)*' >12>;--*2,' .*2, ?*2,' 1 '6// 62, _;,E ' 8*' ?;.,' 60? ,' .1?*,) 25' ?1-*',)62' 6' ?*-*=) . >6/ *+*2,% >),*-' 1D.*-+*.'),)6,',)*' 6D;2062,'5;.)' 1',)*' D/110' 620' 86,*-' 212' ,);',' /* ?1-,;.' *-' .1/*,'/*2,;?' *,'5-;?1.;?' .*0' >6C /*2,*?' 60);>*,' /*L /*?',6?_;6?' *L' >6/*2, .. ?1' ? .*->1-0 e' 12,* J'?;.,'D*' >12. 0*-*0'=-*,*-26,;-6/' 620' 0**=/' . ?D1/>6/%)- ., 62' 4-;2*-C51*.' 1+*-' ,)*' .6?*' 5-1;20' 620' 62.8*-.' .,*=' D ' .,*=',)*' 600^ , 126/ 1DA*>, 12.' 1' 62' 6212 ?1;.' ?=;52*-% : *' .)18.' ,)6,',)*' 81-0.' ;.*0' D ' B1)2',1' *L=-*..',)*' 81;20' 2/>,*0' D ',)*' /62>*' 6-*' 1 ,*2';.*0',1' 0*21,*' 6' ?1-,6/ 12*T)*' =-1+*.',)6,'+*+2'.;==1. 25',)*' 0*6,)' 1 ')- .,',1')6+*' D**2' 2',)*' -.,' 2.,62>*' 6==6-*2,' ,)*' 2/>,12'1'?*-*/ '6'./5),'81;20'81;/0')6+*' D**2' 6,6/'D*>6;.*' 2'. 2>1=*' 1-',-62>*' 6-. 25' -1?'/1..'1' D/110')2 '+*2*.*>, 12'81;/0' D*' >12. 0*-*0'7;>)'M-02C I;' 'D ' " ' T=%S '._%X' 620',)6,' 2' 2*' .1' 6-' -1?',)7.=>*.' 1-';25;*2,.';.*0' 2'*?^ D6/? 25'1-',)*' >/1.*' >)6?D*-' 1',)*',1?D'D* 25' ,, 25' -*.,1-6, +*.',1'6'=*-.12' 2'6',-62>*' ,)* ' 81;/0' D*',)*' ?1.,' .*>;-*' 2.,-;?*2,.' 1-' >12+*-, 25'6==6-*2,' 2,1' -*6/ 0*6,)' D ' .; /D*6, 12% (1',) .' 81' ?6 '600' .C >)*2D6>).'1D.*-+6, 12'I$ % ' !=" 2 1' 1.,1>9' R'=% KQX',)6,',)*-*' .' 21' 8*//C-*>1-0*0' 2.,62>*' 1 ' . 2>1=*' /6., 25' ?1-*',)62' 12*' 06 '8)*-*6.')*-*' ,' ?;.,')6+*' /6.,*0',)-**T 620' 6/.1',)6,'+*+2',) .'=*- 10' 81;/0' 1/620.' -1?' ,)6+*' D**2' .; >*2',1' -*.,1-*',1' .,-*25,)' - 20')*6/,)' 6' -6?*' 8) >)')60' ;20*-512*' ,)*' .)6,,*-^ 25',1-,;-*.' 1'>-;> L 12'620',)*' *2 **D/ 25' 2/;*2>*' 1 ' . 2>1=*' -1?' /1..' 1' D/110% ' >12. 0*-6, 12' 21,' 21, >*0' D ' 62 ' 1 ',)*.*' 6;,)1-.',**?.',1' 0*>0*',)*' =1 2,'1',)*'0*=,)'1',)*' 81;20'620'=/6>*' D* 120'01;D,' ,)6,' ,' >1;/0' 21,' D*' .:=*- >6/'D;,'?;.,')6+*' *2,*-*0' ,)*' >6+ , % ;-' 6+ 1;-' 0 ., 25;.)*.',)*' 81;20.' 2').')620.' -1?',)6,'1').' .0*' D '0*. - 25' ()1?6.',1' ?*6.;-*',)*' 1-?*-' D ')' 25*-' 620',)*' /6,,*-' D ',)*' 2.*-, 12' 1 ').')620' MB1)2' LL' K X% () .',)*-* 1-*' ?;.,')6+*' D**2' 1 ',)*' D-*60,)' 1',7+1' 1-',)-**' 25*-.' 12',)*' 1;,.0*% ;,' 1-' 6'/62>*' 8) >)',6=*-*0'+*-' 5*2,/ ' -1?',)*'=1 2,' ,1'/*6+*' 6'.>6-'1-' 2> . 12' 12',)*' /*.)'1',;>)'6'D-*60,)'6,'/*6..' 1;-'1-' +*' 2>)*.'?;.,')6+*' =*,*,-6,*0' 2,1',)*' D10 '6'.;==1. ,12'_;,*' 2^ >1?=6, D/*' 8 ,)' 6' .;=*- >6/ 1-' /*.)' 81;20% ' D1;-.*',) .'-*6.12 25' .'8,)',)1.*' 8)1' 60?',)*' *2^ ,-*') .1-' 1',)*' =6..12' 620'.;D.*_;*2,' 6==*6-62>*' 1'1;-' 6+ 1;-'D;,'0*2 ') .'-*6/'0*6,)' 620' .;>)'6-*' ,)*' 60+*-.6-*.'1',)*' 4-;2*-.% ,' .'21,' 26==-1=- 6,*)*-*' ,1' 2,-10;>*'6'>6.*'8)>)' ?6 '>12 -?' .1?*' 1',)*' 1-*51 25' 1D.*-+6, 12.% , .' 62'6>>1;2,'1'6'>-;> *0' <6?*/;9*'1-' (;-9 .)'.*-^ +62,';=;D/.)*0' D ' 1.*56-,*2' > " ! & ! =.' QKQ'=% SNCS X' -1?' 62' -6D>' ?62;.>-=,' *2, ,/*0' 7* ' '@ ' ' '

X6>986-0' D ',)*' 2,*-+*2 25'+6/+*'620'21,' 20 25'6' .; > *2,' 1;,/*,' 1-86-0' 2',)*' >122*>,*0' 6-,*- ',)*' D/110' -*6>,.' 656 2.,',)*'+*2,- >/*' ,.*/ '8) >)' .' >12^ .* ;*2,/ ',1-2' 1=*2' 6,',)*'=1 2,'1 '5-*6,*.,'0 .,*2, 12 ' 1-'/*6.,'-*. .,62>*7' D ',)*' 2 /;*2>*' 1 ' ,.' 182'-* /*>,*0' 1->*' ' ;62, , '1 'D/110' .') *-*D '0 .>)6-5*07 2,1' ,)*'=*- >6-0 ; ? '620') 6+ 25'21' ?*62.',1' *.>6=*' -1?' ,)6,'>6=. ;/*' .,1=.',)*' > ->;/6, 12' >1?=-*.. 25',)*')*6-,' -1?' 8 ,)1;,'620' 20;>*.' 6/?1.,' 2.,62,62*0;.' 0*6,)' 2' 1;25'620'+ 51-1;'.;DA*>,.',)*'D/110',);.' >1//*>,*0' 2',)*'=*- >6-0 ; ?'.112' 0 + 0*.' 2,1' ..' >12^ .,;*2,'=6-,.'26?*/ '6'=6/*'86,*- '/_; 0' >6//*0 .*^ -; ? '620'6' .1 ,'>/1,,*0' .;D.,62>*' 1 '6' 0**=' -*0' >1/1-' >6//*0' >-6..6?*2,;?↑ D;,' *L>*=,' ;20*-' . ? /6-' > -^ >; ?.,62>*.' 1 ' *L,-6+6.6, 12',) .' 0 ., 2>,' .*=6-6, 12' 1 ',)*' D/110' .' .*/01?' 8 ,2*..*0' 2',)*' 0*60' D10 %J' ( ) .' *L=/626, 12' ?**,.' 6//I',)*' > ->;?.,62>*.' 1 ')- .,.' =6.. 12% ()*' + 1/*2>*' 1 ') .' *?1, 12.' 86.' .; > *2,',1' D;-.,'1=*2',)*')*6-,'6.' -% ,-1;0' .)18.' D '6' ?;/, ,;0*' 1 '*L6?=/*.' 1 ' ?? *0 6,*' 0*6,)' -1?' .;00*2' ?*2,6/ 6 *>, 12.↑ 620',) .' 6.' 6' .*>1206- ' >6;.*' .' >12 -?*0' D ',)*' 1>>;--*2>*' 1 ',)*' .625; 2*^ 1;'.=*-.= -6, 12' 2',)*' 56-0*2' -1?' . ? /6-' *?1, 12.% **' 8 # ! ,'*L=/6 2.',)*' .;00*22*..' 1 ')- .,.' 0*6,)' .1'*+ 0*2,' 2'6//',)*' *+625*/ >6/' 26--6^ , +*.' 6.' 8*// 6.' ,.' *6-/ '1>>;--*2>*' .1' .;-=- . 25',1' /6,*% ()*/1;0' .)- *9',)6,' ? ?*0 6,*/ '=-*>*0*0' 0 ..1/;. 12' 8*-*' 6,'12>*',)*' *L=-*.. 12'1',)*' ?*2,6/' =6-1L .?'M<6,,'LL+ ' ↑ <6-9'L+'Q X'620',)*' * ^ 1-,'1 '26,;-*',1'-*/ *+*',)*' . .,*?' -1?',)*' .*2.*' 1 ' .; 1>6, 12'>12.*_;*2,';=12%,)*'>125*., 12'1 'D/110'6,' ,))*')*6-,% ()./ 6/.1'6>>1;2,' 1-',)*'=-*.*21*' 1 ' 3 86,*-J' I 8'6.'8*//6.' 'D/110J' I 8 3 2'6'>1?? 25/*0' *,'0 ., 2>,'.,6,*'8 ,) 2',)*'=*- >6-^ 0 ;?'620'0 .>)6-5*0'6,',)*' 1- >*' ?60*' D ',)*' .1/^ 0 *-.'=*6-'MB1)2' L L 'N X'. 2>*' 21'D/110'81;/0' /18' -1?'6' 81;20' 2'7'>1-=.*.' ! **' 8 ' ' c¢ ! % ! ' 2'*L=/626, 12'1 ',)*' 1,)*-'> ->; .,62>*.' 6,,*20 25',)*' >-;> /L 12' D*/125.' -6,)*-',1' 6' >1?? *2,6- ',)62'6'0 >, 126- % ()*'6..*-, 12'1 ' 6;^ /6.'620'1,)*-.',)6,',)*' '8*-*' 21,'26 /*0'M ;-, ;.' ' ' ' 1' 2,8% S X' .' 6?=/ '-* ;,*0' D ' & 2*-' I ' '% ' =.% Q X 620' 1,)*-.% 1-',)*' 0*,6 /*0' 2> 0*2,.' 2' 1;-' 6+ 1;-.' >6.*' .** ($ '↑ 620'>1?=6-*' : 6.*' " 'D 'g' % 2',)*' , =*.' 620'=-1=)*> *.' 1 ' ,'D*. 0*.',)1.*' 600;>*0' .** =-% - ' 'K % 2',)*'-*.;--*>, 12'1 ',)*' .6 2,.' .** 5), 11,' ! 'LL+ ' K M,)*-*' .'6'?1215-6=)' D '4*D6+*-;.' ' ' ' '5 ' ' " 1' ' 2') .' ' ' 1% SX% **' $ L ' 2' 1,)*-' >12>1? ,62,' =-10 5 *.' .** >)1,,C 5*2'# '# " ! ' - '+ ' N Q% **' ↑ > 'M$! ()*' >) * ' '6;,)1-,*.' ?6 'D** 1;20' 2' =. ;.' ' ' ' 'M 2,8*-=' QR R '620' . 2>*X↑ .** 6/.1' 2' 6D-> % " ! & 4 'M:6?D% ' S X'=% ' ._%↑ 620'*.=*> 6// ' - *0/*D'& " 1' ' ' " + ' M 122' Q NX% 2',)*'=1 2,.' 2'8) >)'1;-' 1-0 .'>-;> L 12'0 *-*0' -1?',)*' 1-0 ^ 26- 'B*8 .)';>;.,1?.' .** ,)12 .' '5 "" ' .% ;==/ > 6↑ 2.*;.' ' ' ' 'D' " :' 1.. ;.' # ' :' 6-=[1+'&%% ' ! =% R ' ._% *,>%↑ 6/?6. ;.' ' ' 'M % % S SX↑ 6-,)1/ 2;.' ' ' ' " ' " ' % 'M % % S SX↑ 6/.1' ' ' " 'M ?.,% S ' % % SRNX↑ U1D*/' 2',)*' /! ' " ! % ' 'NK',-% ** ! ()*-** 6-** ?1215-6=)./ 2' 6, 2' 12',)*' 1//18 25' =1 2,.'>122*>,*0' 8 ,)',)*'.;DA*>,a' 12',)*'>-1..' ,.*/' D ' 6;0..;.'M ,*D% S NX' */!6-;.'MU [% S X' =^ - 62'M:*/?.,' SRRX' -* *./*D*2' MB*2% SSKX' 4*-?6- 3M()1-;2% Q X' 4*[*/;.' MdB=.6/% SR7'4/*>)' M =.' X' =*-;.'M *0 2% S X' -,/1D'M7,*D% S X' $' D2.;.'M 1/12% S X' 6.>);.'M ,*D' SQSX' >),*-' MU ,,6;' X' *-=1-,*2' M ->,% 60'<!' RX' 4-*,.*-' M 251/.,% RQC S X' O% M DC' S X' =.;.'M 2,8*-=' R S S' ?..,' S X' 1.;.'M 2,8% S X' 1? ,;.' M ,% S X' 6/?6.;.'M % 7SX' 625*' M ,' SSRX 6? 'I # !'6 '=% N._%X↑ 12',)*'>-;> L 12' 5*2^ *-6// 'D ' ;00.*;.'MB*2' X' /)*-'M 1-?D% S KX' 4*-)6-0' M 1.,% SSKX' 15/*-'M:*/?.,% SRNX' *-.,**5' M(-6A% 60')% X' 0 ;.' M 1-,-6>% S K' U;,=)*2' X' O% M(-% 60' % X' <*0);-.,'I;2!' ' ↑ ' X' <6-56/,)6' M -> ,% 60' < ' SX' <*->)*2;.' M ;.D% KKX',81'6212 ?1;.' 'M ;..*/01-' N X' & *.,)1+;.' M % % NNX' ,;-?' M:6/% SNX' :*.. *-' M 120*-.)% X' -*?*-' M QQX' U1D*/' M 2' 4*-?% ;?D% Q QX'B125)' M(-% 60')% QK X':;5'M 2' 4*-?I% @ "' . " ! QN X' >)6-'M *;>1=% S SX' 25*/C ?622' M 52% S RX':6D*-91?' M4-*..% S SX' 1-C ,D1/,' M /12% SQ X' -,;.' M =.% SR X':6D>)1-.' M 1.,% SQ X' <*5' M:*0*/D% SQ X' *=*21>9' M 1.,' X' :6*-;25' M ,*D% NRX' <1*D;.' M =.% SQRX' >)6-'M *;>1=*,-% SSSX' ,=.>)' M -> ,% 60' % RX' ,-256'I,"' ! 'X#'.%X↑ 12',)*' 2 6?A7' 1 ',)*' =;2.)?*2,'D ':*29*' M:*/?.,% QSX B*,[*' M ,6-5' S X 625*' M ;D*>' KRX I' 12',)*',?*' 1 ')-.,.' >-;> L 12' M 2' -*>12>/6, 12' 1 ',)*' 0 .>-*=62>' D*^ ,8**2' <6-9'L+'K '620'B1)2' L L ' X'D ' */M =.% QC Q X' *D92*>),' M4*.' KSX' />)6*/.' M 2' 4*-?% # !';' 'KX' * =*-'I-" ! ' ! 'K X' >)86-[' M =.% QX' <1-2;.' M ;50% % SQS' SRQX' .620*-'M(;D 25*2' NX' 6;/'M:6//*' ' KX' &1*-5*-' M 2' <*2*,)*2% -" ! 'K X' &1/'M =.% X' U* D>)' M 2' 4*-?62' =[% NX' U*/,2*-'M,)-** 0 ..%' /,1-7' K ' K ' K X' 2 ,*/' M 2' 4*-?62' &1/ *2D% X':1-2'M:6+2% Q X I')* 2' M 2' 4*-?%' =[% QNKXT' 12')-.,.',)-.,'620'0-29'12',)*'>-1..' D ' 6;*-' M ,*D% X' * /25'I, ! 'KK X' 6D*-' M 12012' SS X':;.,*2' M4;D*2% S X' *1' M *;>1=% K X' *;?622' M ,*D% SQNX' == 25' M =.' SQQX' 6;.>)' MB*26' NNX' >)/*5*/ M 2' 4*-?62':*29*.' /! +' KQQCKR X' &6/>)' I, ! "! =" C NQXT' 12').' =-6 *-' 1-').' ?;-0*-*-.' D ' <6->9' I$!' ! =% N Q' NKQX' 6 'M(;D% SXT' 12').' 0*^ ?≠6-25' >- ' DA' :1*= 2*-' M =.% S X' -. ?;,' MB*2% SSNX' *?622' MB*2% S X' >)6-'M ,% S X' 1>9*-8 ,[' M ,*D' SQ X' /*6-;.' M =.% QNX',)*' .6?*' M D% SQN' KSX' *;,.>)?622' M ,*D% SR X' & 2./18' M:6+-*' SX' 25*.,-1?' M ;20% NQX' ;5*-' MB726' NRX' *;>9*' M =H% NX' & *..?622' M(;D' SX' 1?7*/' M ;20' X' & >9*2)1*-' M 2' 4*-?%' U ?7*-?622.' 1"! QKK' 1% K XT' 12').' >1?7*20 25').' .= -,',)*' 6,)*-' D ' & 1//*' =.% KST' 656 2' 41,,% XT' 12').' .1C>6//*0' /1.,' .*+*2' 81-0. J'D ' -1*-..*2' M 7*2,% SK X' 622)6;*-' M D% S X' 625*' M =.% S X' <6 *-' M4 =)% M X' -;5*-' M ,% KSX' 2>9*' M(-% 60')% Q SXT' 12',)*' =-*.*2>*' 1 ' <6- 'D ' U1-2' I,% ! ' N CNKKXT' 12' ,)*' =*- 1-6, 12' 1 ',)*')620.' 620' **,' D ' 12,62;.' M ?.,% S X',*?/*-' M -*.0% XT' 12',)*' =;2>,;-*' D ',)*' .=*6-'D ' 65 ,,6-;.'MB*26' S NT' 6/.1' 2' -+ ! ' ! '& ! 'QQ C X' 6-,)1/2;.' M % S S' =.F SS ' SQN' -> % SQ X' 6*.' M:*/?.,% S SX' #;*2C .,*0,' M ,*-D% S QX' &*0*/' MB*2' SQSX' B6>1D' M =.% SQSX' ;62,*2 ;.' M71.,% SQSX' 1*.>)*-' M ,% SR X' (-//>-' M ,% XT' 12',)*' 0 .>)6-5*' -1?',)*' 81;20' D ' 1>)*-' M -*.0% R X' ,,*-' M ,' SQ X' .>)*2C D6>)' M 1.,% X' 6/1+;.' M ,% S RXT' 12',7*' ?*0^ >6/6.=*>,.'1',)*' 0*6,)' D ' 15/*-' M:*/?.,60,' S NX' & *.,=)6/' M4- =*.+% X' >),*-' M41,,% X' *.C / 25' M -/625% S X' 4-;2*-M *2%' B*2% Q 'B;2%':6/% Q X',-1;0' M 2' 25/.)' 12012' Q X'//-;)*-' M 2' -*2>)' 6-.' RX' 8*,*2' M *2% QX':*/620' M4*-?% & * ?% R X' (6D*-5*-M4*-?%':6221+% QKRX I' 12',)*' 6,,*.,6, 12' 1',)*' D C.,620*-.'D ' *,*/?6*-' M /,01- ' RX' >)1,,5*2' M4*-?62' 2' 0*-?62A.' $ " " ' ' S7% 1-'1,)*-'0 ..*-,6, 12.'12'6..1^ > 6,*0' 2> 0*2,.'.**' + '% + '% #' : ' ' 3'% ':'0' 3'% 0' ':' ' ' 3'% ' '% > / '% > 'M$ '% % $ % + '*,>% -;> 5*-' / '12*' 1',)*'?1., 6,) ;/' 620' ;.* ;/'1' ;,)*-.'>160A;,1-*' 2',)*' * 1-?6, 12'%86.

D1-2' 6,' * =. >' B62% '1 '-*/ 5 1 ; .' =6-*2,.. ' 8)1 ,119' =6 2.' 8 ,)') .' *0 ;>6, 12% 2') .' . L,**2,)' *6-')*' *?D-6>*0' ,)*' 01>,- 2*.' 1 ' ,)*' * 1-?6, 12 ' 620' 6D1 ; ,' K ')*' D*562',1' . , ; 0 ' ,)*1/15E' 6,' & ,,*2D*-5' 8 ,)' ; ,) *-'620' < */62>,)12% : *' D*>6?*' =-1 1 ;20/ ' .9 //*0' 2' : *D-*8% 2' SK ' : *' 86.' >6//*0',1' <650*^ D ; -5 ' 620' ,)*-*',6 ; 5) ,' 8 ,)' 5-*6,' . ; >>*..' , //C K ' 8)*2')*' -*, ; -2*0',1' & ,,*2D*-5 ' 8)*-*')*' /*>, ; -*0' 12' ,)*' >- =, ; -*. ' 620' 6 0*0' ; ,) *-' 2') .' ,-62 ./6, 12' 1 ' ,)*' D/*% : *' 86.' +*- ' *L=*-,' 2' .) 1-,)620' 8 - , 25 ' 620',1',) .' 6>;/, ' 8*' 6-*' 20*D,*0' 1-' ?02 ' 1 ' ;^ ,)*-.'=-*> 1 ; .' -*?6 2.% : *' 0 *0' 2' Q' 65*0' 1-, C' 1 ;-' *6-.% : ' /*,,*-.' ?6 ' D*' 1 ; 20' 2',)*' % ' D ! ' < 00/*,12' ; ! :' 06?' N2' ' -" " T' =*-' 6 !') ' QS T' -*.C' .*/' % ' ' "' "/ 2 ' 'M /D*-C' */0, /QSKX

-; 0*2 ' . ' 6 ; ,) 1-' 1 ' ,)*' 8*//C92182' 1' 86.' D1-2' 2' D*-0**2' < 6 ' N ' 620' 86.' *0 ; >6, *0' 6, ' < 6-*.>)6/ 1$*5*' 8 ,)' 6' + *8',1',)*' ? 2 .,- 'D ; ,' 6D*--6, 12' 1 ' ? 20' >6 ; .*0') .' ,*?=1-6- ' >12 2*?*2,' 2' 62' 6. /; ? ' 620'=-*+*2,*0') .' *2,*- 25' 12',)1' *>>/*. 6., >6/' >6-**-% 2' NK)*' 8*2,',1' 12^ 012' 620' 86.' *?=/1 *0'6.' 6' >/6.. >6/, ; ,1-' 620' >1--*>,^ 1-' 1 ',)*' =-*..% : *' 86.' 6==1 2,*0' D119.*//*-' ,1',)*' _ ; **2',1' 8)1?' 2' N ')*' 0*0 >6,*0') .' % ' 9 ' " ' # '$ % ' " ' L!' '7!' - !1' 8)>)' -.,' 6==*6-*0' 2',)6,' *6-% *>; 2 6- '0 >; /C' , 6.' 18 25' 1 ; ,' e',)*' =; D/ >6, 12' 1 ',) .' 81-9' 218' 2>-*6.*0') .' 2.62 , ' 620' /*0',1') . ',*?=1-6- ' >12^ 2*?*2,' D ; ,') *' *.>6=*0' -1?' *,)26/ 4-**2' 620' D-1 ; 5),' 62' 6>, 12' 656 2..',)*' =-1=- *,1-' 620'=) . > 62' 1 ' " ' 6. /_?' 8)1% 1 ' >1 ; -.*' 1D,6 2*0' 6' +*-0 >,' 2')*-' 6+1-% 1-' ,)*'-*.,' 1 ') ./ *')*' 86.' =*-? ,,*0' ,1'-*?6 2' 6,' / D*-, ' 620')*'-*, ; -2*0' 8 ,)' [*6/',1') .' /*6-2*0' 620' .*+*-*' /6D1-. ' ?62 *., 25') .' .,-625*' *>^ >*2,- > , ' 2' 6',)1 ; .620' 1-?. ' .1/ > , 25' 92 5),)110' -1?',)*' 9 25 ' 6' .*6 ' 2' 6-/ 6?*2,' -1?',)*' =*1=/*' 1 ' 12012' 620' >1 ; -, 25' ,)*' 06 ; 5D,*-1 ' ,)*' /1-0' ?6 1-' D ; ,'=-*.*-+ 25' ; 2>)625*0') .' = *, ' 620' D*2*+^ 1/*2>*% : *' ?60*' 6' +*-D6/ 20*L',1' < /,12 .' =1*?. ' 6' $ % ' ' D 1' 620' .*+*-6/ -*/ 5 1 ; .' 81-9. ' >12, 2 ; 25',1',)*' /6.',)*' *?206, 12' 1 ') . I 12>1-0' 62>*% < 62 ' *0 , 12.' 1 ' ,) .' 81-9')6+*' . 2>*' 6=^ =*6-*0% 2' 1+*?D*-' ' ')*' 86.' 1 ; 20' 0*60' 2') .' >)6?D*-' 2',)*' ,, , ; 0*' 1 ' =-6 *-% **' 4 %

-; ?D6 ; 5) ' (' ' $ ' 6' ; ,) *-62' ? 2 .^ ,*-' 86.' D1-2' 2' -*0*- >9' 1 ; 2, ' < 0% ' 1+*?D*-' ' QN % : *' 5-60 ; 6, *0' 6, ' *22. /+62 6' 1//*5*' 4 *, , .^ D ; -5 ' 2' Q ' 620',)*' .6?*' *6-' 86.' 6==1 2, *0' =- 2^ > =6/ 1 ',)*' : 5)' >)11/' 62>6.,*-' 6% ' 6' =1. , 12',1' 8)>)')*' .**?*0' .=*> 6// ' 606=, *0% &) /*',) ; .' *2^ 565*0')*' 6/.1' =; -. ; *0') .' ,)*1/15 >6/ ; 0*.' ; 20*-' ,)*' 0 -*>, 12' 1 ' *+% -% 69*-' 620' 2' Q N' 86.' / ^ >*2.*0',1' =-*6>)',) 6' 41.=*/% : .' -.,' 620' 12/ ' =6.C' ,1-6/ >)6-5*' 86.' ,%B1)2 .' M ; ,) *-62') ; ->)' 62^ >6.,*-% : .')*6/,) ' 2*+*-' +*- ' + 51-1 ; .' D*562',1' 6 / ; 20*-') .' /6D1-. ',1'%8)>)')*')60' .1' 6.. 0 ; 1 ; ./ ' 620' .; >>*.. ; // ' 0*+1,*0') ?.*/% : *' -*. 52*0') .' >)6-5*' 2' QS ' 620' 6>>*A,*0',)*' 1 >*' 1 '. ; =*- 2, *20^ *2,' 1-' >1?? 12' .>)11/.' 1 ' 62>6.,*-' 1 ; 2, ' 2' ,)*' *L=*>,6, 12',)6,' 62' 1==1-., ; 2 , ' 81 ; /0' D*' 6 1-0*0' 2' ,)*' 6>, +*' *L*-> .*' -*_ ; -*0' 1-' ,)*' -*. ; .> ,6, 12' 1 ') .')*6/,)% : .' [*6/' 620' .; >>*.' 2' ,)*' 0 .>)6-5*' 1 ') .' +6- *0' 620' 0 >; /,' 0 ; ,*.' 8*-*' -*56-0*0' D ' ,)*' D16-0' 6.' ; 2. ; -=6..*0% : *' 86.' 6' ?62' 1 ' ?1-*' ,)62' 1-0 26-' 6D / , ' 620' 6.' 6' .*6>)*-'=1..*..*0' =*>; / 6-' _ ; 6/ >6, 12.% : *' 0 *0' B62% Q' Q R% `7 : .' D- * ' / * J' .6 .' -% ; --18*.' ' 86.' 6' -*>1-0' 1 '/*6-2 25' $.* ;/2*..' 620')121-%J' : *' = ; D/ .)*0' 62' 600-*..' 12' ? ' '# 1' 0*/ + *-*0' D* 1-*',)*' / ,*-6- ' .1> *, *.' 1 ' -629/ 2' 620' Ak 6-.)6// 1//*5*' 2' Q %

-; .60*. ',)*' 26?*' 5 +*2',1',)*' -*/ 5 1 ; .' 86-.' >6-- *0' 12' -1?',)*' >/1.*' 1 ',)*' */*+*2,)' ,1',)*' >/1.*' 1 ',)*',) -,**2,)' >*2,; - 'D ',)1')- ., 62' *2; 2C)<'<' ?

,- *.' 1 ' ; -1=*' 656 2..',)*' <1)6?*?*062.' 1-',)1' >12' 3 _ ; *.,' 1 ',)*' : 1/ ' 620% M 2',) .' 6-, >/*' 8*' ?69*' -*+*' ; .*' 1 ',)*' 6-, >/*' 2')6?D*-. .' 6 % (8 -1?' 62' *6-/ =*- 10' 2',)*') .,1- ' 1 ',)*') ; ->)' ,' 86.' >12. 0*-*0' 6' = 1 ; .' 6>,' ,1' ?69*' 6' = /5- ?65*' ,1',)*' : 1/ ' *=; />)-*' 620',1' + . ',)*' +6- 1 ; .' .=1,. 8)])' ,)*' 6+ 1 ; -')60' >12.*>-6,*0' D ') .' =-*.*2>*%)*2 6/*., 2*' 86.' >12_ ; *-*0' DA7,)*' -6D.' 2',)*' .*+*2,)' >*2,; - ',)6,' *->*' D ; ,' 5*2*-1 ; .' =*1=/*' -*^ .=*>,*0',)*' -*/ 5 1 ; .' . = - ,' 1 ',)*' = /5- ?.' 620' 6//18^ *0',)*?',1' D ; /0' 6' >) ; ->)' 620' 6')1.= ,6/ 2' B*-; .6^ /*?% $20*-',)*' 6, ? 0*.' 1 ' 5A_A, ' 8)1' >12_ ; *-*0' - 6' 6D1 ; ' RQ ' % % ',)*C=1. , 12' D1,)' 1 ',)1' 26, +*')- ., 62' -*. 0*2, .' 620' 1 ',)*' = /5- ?.' D*>6?*/*..' 6^ +1-6D/*' T D ; ' ,)*' >12_ ; *.,' 1 'B*-; .6/*?' 2' Q' 620' ,)*' .; DA ; 56, 12' 1 ' ,)*' >1 ; 2,- ' D ' D-; ,6/)1-0*.' 1 ' */A ; 9' (; -9.' -1?',)*' 6 ; >6. ; .' -*20*-*0' ,' 2,1/*-6^ D/*' ()*' 2*8.' 1 ',)*' -'6,-1> , *.'=-10 ; >*0'6'0**=' .*2^ .6, 12' 1+*-',)*' 8)1/*' 1 ')- .,*201?' 620' 9 20/*0' 6' 5*2*-6/ 0*. -*' 1-',)*' / D*-6, 12' 1 ',)1' : 1/ ' 620' -1?',)*')620.%1 ',)*' 2 0*/.% ()*' =1=*.' *2>1 ; -65*0',) .' ?1+*?*2,',1',)*' D*.',1',)*' -'6D / , % ()*' .'68' 2',' 62' 1==1-, ; 2 , ' ,1' *L,*20',)1') ; ->) ' ,1' -%C*2 1->1' ,)*-'=18*-' 620',1',, ; -2',)*' 86-/ 9*' 6-01-' 1 ',)*' & *.,^ *-2' =- 2>*. ' 8) >)' .1' 1 ,*2' /*0',1' >12 / >,.' D*,8**2') ; ->)' 620' ,6,*' 656 =.',)*' 2 0*/.% 2' N',)*' 4-**9'*?=*-1-' < 62 ; */ .*2',1' . ; ==/ >6,*' ,)1' 6.^ . .,62>*' 1 ',)1' 5-*6,' =1=*' 4-*51- ' ' 656 .',)*' (; -9. ' 6>>1?=62 25') .' =*, , 12' 8 ,)' ?62 ' *L=-*.^ . 12.' 1 '=-1 1 ; 20'-*.=*>,' 1-') .')1/ 2*..' 620',)1' 6,^ 2') ; ->)% 4-*51- .'>1-0 6// '-*.=120*0' D ; ,' > ->; ?C' .,621*.' =-*+*2,*0',) ?' -1?' +*-'>6-- 25',)*' +6.,'0*^ . 52.' 8) >)')*' *2,*-,6 27' 2,1' *L*>; , 12% ()*' 0*6' 1 ' 6' >-; .60*' 86.')18*+*-'-*+ +*0' D ') .' .; >>*..1-' $-D62' '62'6D/*' 620') ; ?62*' ?62' 8)1.*'. ?=6,) *.' 8*-*' 9 20/*0' D ' ,)*' D ; -2 25' [*6/1 ' *,*-',)*' : *-? ,' 6' 26, +*' 1 ' ? *2.' 2' -62>*' 8 7) 6 0' ?60*' 6' = /^ 5- ?65*',1',)*' :1/ I7 620' 8 ,2*..7',)*' >-; */, *' =*-^ =*,-6,*0' D ' ,)*' (; -9. '%620' 86.' 218',-6+*-. 25 ; C' -1=*' =-*6>) 25'*+*- ' 8)*-*',1' >-180.' 2',)*' 1=*2' 6 -' 620' =-10 ; > 25',)*' ?1.,*L,-61-0 26- ' *2,) ; . 6. ?' D ') . ?=6.. 12*0' 0*.>- =, 12.' 1 ')18' =/5- ?.' 8*-*' ? ; -^ 0*-*0' -1DD*0' 1-' D*6,*2')18' .)- 2*.' 620')1/ ' =/6>*.' 8*-*' 0*.*>-6,*0' 620')18' 21,) 25') ; ,'5-**0' -*.,-6 2*0' ,)*-; 62' (; -9.' M8)1' ?60*',)*')- ., 62.' =6 ')*6+ ' ,6L*.' 1-',)*-' + . ,.' ,1' B*-; .6/*?X -1?' 0*.,-1 25' ,)*' : 1/ ' *=; />)-*' 620' *L, -=6, 25' *+*- ' +*., 5*' 1 ')- ., 62 , ' 2',)*' /620% @ ' RSC RR% ' 7&)*2' D ',)*' 600-*..*.' 1 ' *,*-',)*' : *-? ,' 620' 1,)*-. ',)*' **/ 25.' 1 ' ; -1=*')60' D**2'. ; > *2,/ ')*6,*0',81' >1 ; 2> /.' 8*-*')*/0' 2' R ' 12*' 6,' 6>*2[6' 2' <6 ' 620',)*' 1,)*-' 6,' /*-^ ?12, ' 2' -62>*' 2' 1+*?D*-',1' 1-562 [*',)*' 86-% ,' ,)*' .*>120' 6,' /*-?12, ' 6' >-; .60*' 86.' 0* 2, */ ' -*.1/+*0' 12% ()*'=1=*') ?.*/ '0*/ +*-*0' 6'. , -- 25' 60^ 0-*..',1' 6' +6..' ? ; /, , ; 0*' 1 ' '620' /6 ?*2' 620' 6.') *' =-1>**0*0' ,)*' =*2,C ; =' *?1, 12.' 1 ' ,)*' >-180') ; -., ' 1-,)' 620' >- *.' 1 '# ' M410' 8 //.' ,X' -1.* . ?; /,62*1; ./ ' -1?' ,)*' 8)1/*' 6; 0 *2>*% ()*.*' 81-0.' ' ' ' D ',)*' 2A ; 2>, 12' 1 ' $-D62' 8*-*' ?60*',)*' 86-C>- '1 ',)*' *2,*-=- .*' 620' *+*- '12*',)6,' *?D6-9*0' 2' ,' 81-*' 6 '6' D605*',)*' . 52' 1 ',)*' >-1..')*2>*',)*' 26?*' 'I@ !' ' -1?' 6,% ' 6' >-1..X% -1?' 6//*=6-,.' 1 ' ; -1=*',)1 ; .620.' =12' ,)1 ; .620.') ; -- *0' 6,',)*' .; ?12.' 1 ',)*' =1=*',1' *2^ 565*' 2',)*')1/ ' 86-% 2' <6 ' RS',)*' >-; .60*' 86.' 6>, ; 6// ' D*5 ; 2' D ' 62' ; 20 .> =/ 2*0' 1->*' 1 ' 6D1 ; , K ' 11, ' >1?? 620*0' D ' 6f ; -5 ; 20 62' 5*2, /*?62' & 6/,*-',)*' *22 /*..% ,' ?6->)*0',)-1 ; 5)' : ; 56- ' D ; ,' 86.' > ; ,',1' = *>*.' D ',)*' 26, +*.' 1 ' ; /56- 6' 12/ ' 6' *8' 6?125'7 1 ?' 86.' & 6/,*-') ?.*/ ' *.>6= 25',1' 12.,62, 21=/*% ()*.*>120' >12. ., 25'1 '?*2' 81?*2' 620' >) /0-*2' 86.' /*0' D ' *,*-',)*' : *-? ,% ,' 1//18*0',)*' .6?*' -1 ; ,*' 6.' ,.' =-*0*>*..1-' 620' -*6>)*0' 12.,62, 21=/*' 5-, 6,, ' -*0 ; >*0% : *-*' %,)*' ,81' ; 2 ,*0' >-1..*0',)*' 1.=)1-; .' 620' 8*-*' ; ,.*-/ ' 0* *6,*0 D ',)*' (; -9.' 6,' >*',)*' >6= ,6/ 1 ' ,) 2 6' %

' ,) -0' *L=*0 , 12' 1 ' 6' . ? /6-' 9 20 ' >1?=1.*0' 1 ' 4*-?62. ' /*0' D ' 6' =- *.,' 26?*0' 41,..>)6/9' 86.' ./6;5),*-*0' 1-' 0 .=*-.*0' 2' : ;256- ' 8/ >)' 6/.1' =-1+*0' ,) *' 5-6+*' 1 ',/ *' "1' 6',*-- D/*')1-0*' >12^ . ., 25' 1 ' 6D1;,' K ' 8-*,>)*.' -1?' -62>*' 25^ /620 ' /620*-. ' 620' 1--6 2*' %8)1')60' .8*=,' 6/125' ,)-1;5)' 4*-?62 ' >1? ? ,, 25')1-- D/*'-6+65*. ' *.=*^ > 6// ' 656 2.',) *' B*8. ' 8)1?',)* ' =; 0*-*0' 8 ,)1;,' ?*-> % 18')18*+*-',)*'-*6/ -;.60*-.'?60*',)* -' 6==*6-62>* ' 7,)* 5*2,- ',)* *1?62- ' 620',)*' .*- .' 1 ' *;06/ ;-1=*' ;20*-'>) * .'1',)*' -.,'-629'620'-*^ 2182% L' 6-? *.' 6==*6-*0' 2' ,)*' */0' ?6->D 25' .*=6-6,*/ ' 620' 6,' >12. 0*-6D/*' 2,*-+6/.' 1 ' , ?*% ()* -' -*.=*>, +*'/*60*-.7' 8*-*' 410 -* ' 1 ' 1; //12' 0;9*' 1 ' 1--6 2*' ;5)',)*' 4-*6,' >1;2,' 1 ' *-?62C 01 . ' 620'D-1,)*-' 1 ') / ==*' 9 25' 1 ' -62>*' 1D*-,' ;-,)1.*' 0;9*' 1 ' 1-?620 ',)*' .12' 1 ' & // 6?',)* 12_;*-1-' >1;2,' / 1D*-,' 1 ' /620*-.' 1) *?120' =-2>*' 1 '(6-*2,;?' .1=' 1 ',)*' 6?1;.' 4 ; .>6-0' ;2^ 0*-' 8)1?' 86.' (62>-*0',)*' 6+1-,*')*-1' 1 ' 6// ,)*) .,1-62.' 1 ',)* -; .60*' 620'/6.,/ '>1;2,' 6 ?120' 1 ' (1;/1;.*% ()* =/6>*' 1 '-*20*[+1;.' 86.' 12.,62^ , 21=/*% ()* 4-**9' *?=*-1-' /*L ;.' 6 -6 0',)6,' .1' ?652 >*2,' 6')1., ',)*-*' 8*-*' 2' 6// 21,' /*..' ,D62' '?*2' *L>/;. +*' 1 ' 81?*2' 620' =- *.,. ' ? 5),' D*' 20;>*0',1' >12_;*-'/620.' 1-' " 1' >6A1/*0' 6// ,)*'/*60*-.' *L>*=, 25' (62>-*0' 620' >1;2,' 6 ?120' 2,1' .1/*?2/ '6>9218/*05 25',)*?.*/+*.' D ./ *5*?*2% ,*-'.1?*' ,?*'.=*2,' 2' *6., 25',)*' -;.60*-.'>-1..^ *0' 2,1' . 6' < 21-' M6>>1?=62 *0' D ',)*' ;2 1-.;26,*' *,*-',)*' : *-? ,X% : *-*',)* -' -.,'.,*=' 86.',)*' . *5*' 620' >6=,;-*' 1 ' >*' ,)*' >6= ,6/' 1 ' ;/,62' 1/ = A62' B;2*' K R ' () .' ?126 >)' 86.' 6/.1' 0* *6,*0' D ' 1)*?120' (62>-*0' 620' 410 -* ' 6,' 1-A0.*;?% 6/08 2' D-1,)*-' 1 ' 410 -* '218' >-1..*0' 2,1' <*.1^ =1,6? 6' 8)*-*') *' 1D,6 2*0',)*'=- 2> =6/ , ' 1 ' 0*..6% *-' .1?*', ?*' -;.60*-.'-*6>)*0' <6 ' 620' /6 0' . *5*' ,1' 2, 1>)% 1-' .*+*2' ?12,).' ,)*' > , ')*/0' 1;,' 620',)*'-629.' 1 ',)*'D*. *5*-.'8*-*' *6- ;// ',) 2^ 2*0'D ' 6? 2*' 620' 0 .*6.*% <62 ' *+*2' D-6+*' 86-^ - 1-.'/1.,')*6-,' 620' D*562',1' 0*.*-,% < */62>)1/ ',1' -*/6,*' 6?125',)*' / .,' 1 '>186-0.' 86.',)*' =11-' *2,),;^ . 6.,' 8)1')60'=/622*0',)*' *2,*-=- .*% *,*-' 86.' 6>^ ,;6// ' .*+*-6/ ? /*.' 12') .' 86 ')1?*' 8)*2')*' 86.' 1+*-,69*2'D ',)*.1/0 *-.'1 '(62>-*0 '620'D-1;5),'D6>9' ,1' ;20*-51' 6' =;D/ >' -*=- ?620% ,'/*25,)' '12',)*' 0' 1 'B;2*' RQ' 2, 1>)' 86.',69*2' 620',)*' 2)6D ,62,.' 8*-*' ?6..6>-*0'D ',)*' 2 ;-6,*0' -;.60*-.' 8)1' 8*-*' 2',)*.-',;-2'D*. *5*0'D ' 62' 6-? ' 1 'K ' <1)6?^ ?*062.' .*2,'D ',)*' *-. 62' .;/,62% 2>*' ?1-*' 6?^ 2*' 620' =*.,/*2>*' 0 0',)* -'0*60/ ' 81-9% <;/,.;0*.' 6/.1'0*.*-,*0 '620 '*.>6= 25' 1+*-',)*' 86//.' >6-- *0',)*' 2*8.' 1 ',)*' .60' >120 , 12' 1 ',)*')- ., 62.' D6>9',1' ;-1=*% ;'656 2'+ >,1- '>-182*0',)*' * 1-,.' 1 ',)*' D*. *5*0% 2'B;2*'KQ RQ',)*' <1)6?*062.' 8*-*' ;,,*-/ '-1;,*0 '620',)*' 86 ,1'B*-;.6/*?' 1=*2*0% ' 86.' 12' 6' D- 5),' .;?*-' ?1-2 25'M RRX',)6,' -;.60*-.' ,)*' ? .*-6D/*' -*?262,' 1 ',)6,' +6.,' 6--6 ' 8) >)',81' *6-.' D* 1-*')60'/6 0' . *5*',1' >*' 1D,6 2C >00,)* -' -.,' 5/ ?=.*' 1 'B*-;.6/*?% 2'B;/ ' '6 ,*-' 6' . *5*' 1 '-6,)*-' ?1-*',)62' +*08**9.',)*' 5-620' 1D^ A*>,' 1 ',)*' *L=*0 , 12' 86.' -*6/ [*0% B*-;.6/*?' 86.' 0*/ +*-*0' -1?',)*')620.' 1 ',)*' 2 0*/' 5),' 06 .' 6 ,*-',)*' >6=,;-*' 1 ',)*' > , ' 410 -* ' 1 ' 1; //12' 86.' ;262 ?1;./ '*/*>,*0' 9 25' 1 'B*-;.6/*?%

$ ',(1' % ' 2' ',)*' =- 2> =6/ ,A' 1 ' 0*..6' 86.' >12_;*-*0'D ',)*' *? -' 1 ' <1.;/' 620',)*')- ., 62.' ./6;5),*-*0% :.' .12' 1;-*70 2'60+62>*0' ,1' 0*.-,1 ',)*' 6, 2'9 2501?.' 1 ' -6'620' 6/*., 2*5' ;-1=*' 12>*' ?1-*',-*?D/*0' 8 ,)' *L> ,*?*2,% ' .*>^ 120' >-; .60*' 86.' =-*6>)*0'D ',)*' 6?1;.' ,% *-26-0' 6DD1,' 1 ' /6 -+6;L' 2')6?=652*' 620'*6-/ ' 2' ' ,81' *21-?1;.' 6-? *.' ;20*-',)*' >1?620'1 ' 1; .' '9 25'1 ' -62>*' 620' 12-60' '*?=*-1-' 1 '4*-^ ?62 ' ?6->)*0' 1-',)*' : 1/ ' 620% ()* -' ;2 ,*0' 2;?D*-.' 8*-*' *., ?6,*0' 6,' ' 5), 25C?*2% ()*' *L=*0 , 12' 2*+*-,)*/*.. ' =-1+*0' 6' ,1,6/' 6 /;-*% ()*' 4-**9' *?=*-1-' <62D*/ 1?2*2;=' &6.')1., /*' 620',)-1;5)',)*',-*6>)*-' 1 ') .' *? ..6-*.',)*' 6-? ' 1 ' 12-60' 86.' 6// D;,' 0*.,-1 *0' D ',)*' (;-9.' 2*6- >12 ;?' 8) /*',)6,' 1 ' 1; .' 86.' 8-*>9*0' 2',)*' 0*^ /*.' 1',)*' . 0 62' <1;2,6 2.% ,-'-6'+6 2' 6,,*?=,' ,1'-*0;>*' 6,' -.,' 6?6.>;.' 620' .;D.*_;*2,/ ' .>6C /12',)*'-*/>.' 1',) .' ? 5), ')1.,'-*,;-2*0',1' ;-1=*% -" ' 1' QRC RK% ' ()*7 0*6,)CD/18' ,1',)*' 9 2501?' 1 ' B*-;.6/*?' 86.' 5 +*2' D ' 6/6)C 00 2' >1?2 12/ '>6//*0' 6/60 2' 6' 1;25' ;-0 .)'>) * '8)1')60'?60*) ?.*/'.;/,62' 1 '7 =, '620' 8)1'6.= -*0',1' ,)*=-*. 0*2> '1',)*' <1)6?*062' 81-/0' 2' >,1D*-% Q 'B*-;.6/*?' ,.*/'>6= ,;/6, 25' 6 ,*-' 6' . *5*' 1' 1;-,**2' 06 .% ()*' 2*8.' 1',) .'/*0',1' 6',) -0' >-;^ .60*',)*>) * .' 1 '8) >)' 8*-*' -*0*->9' 'M 6-D6-1.C' .6X'*?=*-1-' 1 ' 4*-?62 ') / ==*' ;5;.,*' 9 25' 1 ' -62>*' 620' >)6-0' = = 1' 9 25' 1 ' 25/620% 6-D6-1..6',119',)*' */0' -.,' 2',)*' .= -25' 1 ' QR' D;,' 6>> 0*2,6// ' /1.,') .' / *' D ' *+*-' >6;5),' -1?' D6,) 25' 2' ,)*' -12,*.% : .' 6-? ' ?;>)' -*0;>*0' A1 2*0',)*' 1->*.' 1',)*' 1,)*-',81' ?12,7>).' D* 1-*' >-*' M1-' ,1/*?6.X' 8) >)' ?=1-,62,' > ' 86.' ?7*^ 0 6,*/ ' D*. *5*0' 620' 6 ,*-' 6' D*/*65;*- 25' 1 ',8*2, C',)-**' ?12,).' .;--*20*-*0% ;',)*' -;.60*-.' 8*-*' 21,' ;2 ,*0' 6?125' C,)*?.*/+*.%) / ==*' 12' 6 ,*-' -*,;-2*0',1' -62>*' 620' >)6-0' 6 ,*-'6>>1?=/ .) 25' =-10 5 *.' 1 ' +6/1-' 8) >)' *L> ,*0',)*' 60? -6, 12' 1 ' ,)*' 6-6>*2.' >12>/;0*0' 6' ,-*6, ' 8 ,)' 6/60 2' D ' 8) >)' ``,)*' =*1=/*' 1 ',)*' &*.' 8 7 ',1' D*' 6,' / D*-, ' ,1' ?69*' =/5- ?65*.' ,1' B*-;.6/*?' *L*?=,' -1?',)* ,6L*.' 8) >)',)*' 6-6>*2' =- 2>*.')60' 2' 1-?*-',?*.' ?=1.*0%J 2' >,1D*-' K RK' >)6-0' .*,' .6 / 1-' ;-1=*%

@ "' 1' K N% ' 2' K N' 6' 1;-,)' *L=*0 , 12' 86.' 0*,*-? 2*0' ;=12' D '=1=*' 221>*2,' '6/,)1;5)' ,)*' >120 , 12' 1 ',)*')- ., 62.' 86.' D '21' ?*62.' .;>$' 6.',1' >6// 1-' ,' ,'6..*?D/*0' 6,' *2 >*',)*' 51+*-2^ ?*2,'1 8/0>)' -*=;D/ >' -1?' =1/ , >6/ -*6.12.%' =-1?^ .*0',1' .;==1-',)*' ?1+*?*2,'D ' ,.'26+ % ()*' 6-? ' 2*+*-' 8*2,' ,1' 6/*., 2*' 6,' 6// ' D;,' =-7*--*0' ,1' ,69*' =1..*.. 12' 1 ',)*' [62, 2*' ?=-*%' ()*' /*60*-' 1' ,) .')1.,'1 '% = 1' 6/08 2' >1;2,'1 ' /62^ 0*-.' 86.' .*6,*0' 12' ,)*' ,)-12*' 1 ',)*' 6.,' 2' K ' 8)*-*')*' 620') .' .;>>*..1-.' ?6 2,6 2*0',)*?.*/+*.' 1-' , C. L' *6-.%I' 1?*' 8- ,*-.' 01' 21,' 2;?D*-',)* .' *L=*0 , 12' 6?125',)*' -*5;/6-' >-;.60*. ' D;,' >1;2,' 6.' ,)*' 1;-,)' >-;.60*' 621,)*-' *L=*0 , 12' 2' K ' 8) >)' 9 25I 20-*8' ' 1 ' : ;256- ' 86.' =-*+6 /*0' ;=12I'D ' =1=*' : 121- ;.' ,1' ;20*-,69*% : *' 86.' .;==1-,*0' D ' ,)*' 9 25.' 1 'B*-;.6/*?' 620' =-;. ' >12_;*-*0' 6' 1-,-*..' 12' <1;2,' (6D1-'620' .1?*' .?6// 1-,' 'D;,' 2' K Q -*,;-2*0')1?*% 2',)*' .6?*' '>1;2,' & // 6?' 1 ' 1//620 ' D* 25' 6// *0' 8 ,)',)*' 9 25.' 1 'B*-;.6/*?' 620' !=-;. ' /620*0' 2' 5A=,% : *' >12_;*-*0' 2' K R' 6? *,,6 ');,' 2' KK ',) .' ,182' 620' 6// 1,)*-' >12^ _;*.,.' 8*-*' /1.,'656 2%

@ "' 1' KKQC KKR ' () .' '>1?620*0' D ' -*0*- >9' '*?=*-1-' 1 ' 4*-?62 % ,' D*562' 2' NKKQ' 620',*-? 26,*0' 2' 6',-*6, ' 1 ',*2' A *6-.' D*,8**2',)6,' ?126->)' 620',)*' .;/,62' 1 ' 5A=,' D ' 8) >)' 6/*., 2*' 86.' >*0*0',1' -0*- >9' 8)=' 6 ,*-' D* 25' >-1/A' 620' */' 2,1',)*' D620.' 1 ',)*' *-*' *-1> 1;.' D6-D6- 62.% B*-;.6^ /*?' 86.' D;-2*0' 620' = //65*0% 2' K Q' 1; .' d' 1 ' -62>*' Z\ % 1; .X) *60*0' 6' >-;.60*' 656 2.',)*?%I' ,' 2 *')*60' 1 ' ' .1/0 *-.')*' *?D6-9*0' -1?' C' =-;.' 620' -1?',)*-*' 8*2,' ,1' 5 7=,' >12_;*- 25' ,)*' >16.,'620',)*',182' 1 ' 6? *,,6 'D;,' 8)*2',)*' 60+62>*0C ;-,)*-')*' 86.';,,*-/ '0* *6,*0' 620',69*2' =- .12*-' D ' ,)*' .;/,62' 1 ' 5 =,% ',)*'=6 ?*2,' 1 '6' /6-5*' -62C 1' .1?')*' 1D,6 2*0',)*' /D*-, 'M K X'620',D6,1 ',)*' 1,)*-' =- .12*-.% 2') .'-*,;-2',1' ;-1=*')*' 86.' -*56-0*0' 6.'6' .1-,'1 '?6-, -' 2',)*'>6;.*' 1 ')- .,% $ "' ' K % ' () .'6/.1' 86.'=- ?6- / ';27

0*-,69*2' D ' ,% 1; Y 'D ; ,' D*')6+ 25' 0 *0'06,' (; 2 .' 2' K ' 12') .' 86 ',1' 6/*., 2* ' =- 2>*' 086-0' 1 ' 25^ /620 '6 ,*-86-0.' 086-0' ' 8)1')60'1- 5 26// ' 2,*20^ *0',1' =/6>*') ? .*/ ' ; 20*-' ,)*' >1? ?620' 1 ' ,' 1; . ' 26-)*0' 0 -*>,' 1-' 6/*., 2*' 8)*-*') .' -629'620' -*=^ ;,6, 12' 2' 6-? .' 56,)*-*0' -1 ; 20') ?' 6// 8)1' 8*-*' 8 //C1' 25',1' , 5),' 1-' ,)*' -1..% 1,) 25' 1 '>12.*_;*2>*')18*+*-' ' 6>>1?=/ .)*0' 620' 086-0' .112' -*^ ,;-2*0',1' 25/620 ',)*' /6.,'1 ',)*' -;.60*-.% >-*' 2, 1>) ' 620',)*' 92 5),.' 8*-*' 5/60',1' _ ; ,' ,*' >1 ;2,- ' 620'0 .=*-.*' ,)*? .*/+*.' 1+*-' ;-1=*' 2'_ ; *.,'1 '2*8' *?=/1 ?*2, '/*6+ 25' 6/*., 2*' 2',)*' ; 20 .,;-D*0'=1.^ .*.. 12'1 ',)*' 6-6>*2.%C 2>*',)6,', ?*',)*-*')6+*'D**2'21' ;-,)*-'>-;.60*. ' 6/,)1;5)',)*'=1=*.')Z6+*' ?1-*',)62'12>*' 6,,*?=,*0',1' *L> ,*',)*')- ., 62. l',1',)*' ;20*-,69 25% 1?*' 8- ,^ *-.' 01' 21,')*. ,6,*',1' 6 -?',)6,',)*'=1=*.' ;20*-',) .' 0*+ >*' 6 ?*0' 6,' ;2 +*-.6/=18*-' 1+*-',)*' 9 25.' 620' 6-? *.' *?=/1 *0' 2',)*' -' .*-+ >*' 8) >)' 8*-*' 2 ; ?*-^ 1; .'D*>6 ;.*' 6'=/*26- ' 20 ;/5*2>*' 86.',)*'-*86-0'1 '6' -;.60*-% ()*')- ., 62' =- 2>*.' 8*-*' *L)6 ; .,*0' 2' ,)*' .,-;55/*' 8) /*',)*C=1=*' D*>6?*' 1?2 =1,*2,' D1,)' 1+*-' >/*-5 '620'=*1=/*% ()*'=*1=/*' .1/0',)*' -'=-1=*-^ , ' 1-'6' ?*-*',- /*' 1-' ?60*'6'5 ,'1 ',',1' ?126.,*-.*.' 620'6DD* .% ,'"'>1?=;,*0',)6,'2*6-/ ',81' ? // 12.' 1 ') - ., 62.' /1.',)*-' / +*.' 0 ;- 25',)*' >-;.60*.' D ' ./6;5),*-') ;25*-'=*., /*2>*' *,>% ,' .' ?=1.. D/*',1' 1+*-/119',)*' 6>',)6,' 2' .1?*' -*.=*>,.',)*' >-;.60*.' *L*-> .*0' 6' ?1.,' D*2* >6/ 2^ /;*2>*' 12' ?10*?' .1> *, % < ' 4 ; [1,' 2') .' =' ' '6 % ' / 1'*20*6+1-.',1'.)18',)*-' 0*. 52' 620' ;2>, 12' 2',)*' 0*., 2 *.' 1 ')- .,*201?% (1',)*' -.,'>)-12>/*-. J')*' .6 .' 620'>12.*_;*2,/ ',1',)*' -.,' -;.60*-.' 1 ' 8)1?',)*' '6-*' D ; ,',)*' *L^ =-*.. 12' <1)6?? *062.'6-1' 1DA*>,.' 12/ ' 1 ')6,-*0d ,' .' *+ 0*2,',)6,',)1.*' 8)1' .=*69' 1 ',)*?' 01' 21,' 9218' ,)*?% ()*' .,1- 62.' 1 ' ,)*' /6,*-' >-;.60*.' .=*69' _; ,*'0 *-*2,/ d ,' .'>/*6-',)6,',)*' /119' ;=12',)*?' 21' /125*-'6.' ?12.,*-.' ,)6,',)*' ')6+*',1'6'>*-,6 2'*L^ ,*2,' *2,*-*0' 2,1',)*-' 0*6.' ,)6,',)*' ')6+*' / +*0' 8 ,)' ,)*?d 620',)6,C-*/6, 12.' 620' *+*2' 6' .1-,' 1' . ?=6,) ')6+*' D**2' *.,6D/ .)*0' D*,8**2',)*?%J' ( ) ; .',)*' ? 20.' 1 'D1,)' D ; ,' =6-, >;/6-/ ' 1 ',)*' -;^ .60*-.' 8*-*' =6-,/ ' 0*/ +*-*0' -1?',)1.*' =-*A;0 1*.' 8) >)' 6-*',)*' 1 .=- 25' 1 ' 521-62>*% ' .,*=' 86.' ,69*2' ,186-0.' ,)*' *2 -62>) .*?*2,' 1 ',)*') ; ?62' ? 20%J' *>120/ ' ,)*' -;.60*-.' 8*-*' D-1 ;5),' 2,1' >12,6>,' 8 ,)' ,81' > + / [6, 12. ' - >)*-' 620' ?1-*' 60^ +62>*0',)62',)*-' 182 ' ,)*' 4-**9'620',)*' 6-6>*2 >' 620' ,' .' D* 120'6//_;*., 12',)6,',)*' '8*-*' ? 5), / ' .,-;>9' 8 ,)',)*' 8*6/,)'620'>1?=6-6, +*'-* 2*?*2,' 1' ,)*' 6.,% () -0/ ',)*'>/1.*'-*/6, 12.) ='D*,8**2',)*' *) * '/6 ?*2' 1 ',)*' & *.,'620',)*') ;->)' 1>>6. 12*0' D ',)D' >-;.60*.' *26D/*0',)*' 1-?*-' ,1' 2.=*>,7?1-*' 26--18/ ',)*'=1/ > '620' ?1, +*.' 1 ',)*'=6=6/ >1;-,%J' ()*' -*.;/,' 86.' +*- '0 .6.,-1;.',1',)6,'.= - ,' 1 '+*2^ *-6, 12' 620' D*/ * '12' 8) >)',)*') ;->)'/ +*.' 620' 2' ?62 ' >6.*.' 62' *L,-61-0 26- ' -**01?' 1 'A;05?*2,' 620')6-0)110' 1 '1= 2 12' 8*-*' 20;>*0' .;>)' 6.' ;^ -1=*')60' 2*+*-' D* 1-*' 0-Z76?*0' 1 % 1;-,)/ ' 5-*6,' .1> 6/ >)625*.' 8*-*' D-1 ;5),' 6D1;,% '>1?? *->*' D*^ ,8**2',)*' 6.,' 620' & *.,'.=-625' ;=' 620',182. ' ,)*' *6-/ ')1?*.' 1 '/ D*-, ' 2' ;-1=*' 7D*562',1' 5-18' 5-*6,' ,20'=18*- ;/% ()*'>-;.60*.' 20**0' '56+*' ?6- , ?*' >1?? *->*',)*' .,-125*.,' ?=;/.*' ,')60'*+*-'-*>* +*0%J' .',)*'>-;.60*.' +*-*' 6'- . 25'1',)*')- ., 62' 26, 12.' 1 ' ;-1=*' 1-',)*',-;?=)' 1 ',)*') ;->)' ;20*-',)*' 0 -*>,'>12,-1/1 ',)*'=1=*.',)*' '26,,-6// '56+*' 6'=18^ *- ;/ 2 /;*2>*',1',)*') *-6->) >6/ =/62.' 1 ',)*' =1=*.% ()*'*?=*-1-.'620'9 25.'D ' 1//18 25',)*'*L)1-,6, 12.' 1 ',)*' =1=*.' 620',69 25',)*' >-1.. ' 6>9218/*05*0',)*' >/6 ?.' 1 ',)*' =1=*.',)6,',)*' *>>/*. 6., >6/ =18*-' 86.' %) 5)*-',)62',)*' .*> /6-C .',)*'=1=*.' 0 0' 21,'=*-.12^ 6// ' A1 2',)*' >-;.60*.' D ;,' 8*-*' -*=-*.*2,*0' D ' /*^ 56,*.',)*'. .,*?'1 '=6=6/ /*56,*.' 86.' 0*+*/1=*0' 8) >)' D*>6?*' 2',)*')620.' 1 ',)*' =1=*.' 6' =18*- ;/ 8*6=1277 1-'>;-,6 / 25',)*'A;- .0 >, 12' 1 '6->)D .)1=.' 620' D .)^ 1=.% ()*' 1- 5 2' 1 'D .)1=.' '% ' * ' >62' 6/.1' D*' ,-6>*0',1',)*' >-;.60*.% ()*' -6 725' 1 ' ?C7 ?*2._ 6-? *.' 86.' 6' 5110'=-*,*L,' 1-',)*' =1=*.',1'*LC' ,1-,/6-5*' .;?.' 1 ' ?12* ' -1?' =- 2>*.' 620' 26, 12.% ()*' 86-/ 9*' *2,);. 6.?' 656 2.,' ,)*' <1)6? ?*062.' 9 20/*0',)*'=1=;/6-' 626, > .?'656 2.,'6//)*-*, >.' 620' ., ? ;/6,*0',)*' D/110 ' =*-.*>;., 12.' 1 ' ,)*' 6,)6- ' % &6/0*2.*.' 620'1,)*-' .*>,.' 2' & *.,*-2' ;-1=*% ()*' 2 /;*2>*' 1 ',)*' >-;.I60*.' ;=12' .> *2, >',)*^ 1/15 ' 86.' 12/ ' 20 -*>,% ()*' D*,,*-' 6>_;6 2,62>*' 8 ,)',)*'=) /1.1=)>6/620',)*1/15 >6/ ,*-6,;-*'1 ',)*' 4-**9');->)'620',)*' <1)6? ?*062.' >1;/0'D;,' * 0' 6' 6+1-6D/*' 2 /;*2>*% 2' =6-, >;/6-' ,)*' .,;0 ' 1 ' - .,1,/*' 86.' 5-*6,/ ' =-12/1,*0' D ',)*' >-;.60*.' 620' .*+*-6/ 1 ') .' 81-9.' 8*-*' , *2' -.,' ?60*' 92182' 2' ,)*' 8*..*-2' >1;2,-*.' 1 ' ;-1=*' **')6?D*-.' A % '.% +%' -1>9)6;.' , % = ' L ' 'T " '5 ' L/ + ' T' : *-[15' 5 2(6 1' " %'+ ' T <1.)* ?' " "' # ' ' K' ' KNN' *,>%T < /?6$A ' " ' +1/% +T' & /9*2' ? " + ' ') // 'M * =.% Q CKS ' '+1/.%XT' " (# ' ' 'M 6- . ' QK T' ,-62./6,*0' D ' 1D.12' 12012' N' +1/.% K?1' Q XT' < //. ' /* ' ' ' ' 'M 120% QKQ' ,)'*0% K' +1/.% +1XT' * 5),/* ' -" ' 'M 12012' Q 'K+1/.% K?1XT' : ; ?*' # ' 6 = ' 'KKS*,' 6/%T 'S'*,'6/%T : 6.*' "'# T' =% RS' KK 'KSRT' D*/' ? " + ' ') // 'M * =. >' Q XT' ;5/*.' 6 '/ ' ? " + ' / ') / 'M ,;,,56-0,' QSSX% ' / .,' 1 '8-,*-.' 12',)_' .;DA7,' .' 5 +*2' D ' < >)6;0' ;" " ' ;' 'M 62.' QN ' '+1/.%X% -;.*% () .' 218' 1D.1/*,*' 25/ .)' 81-0' 0*21,*.' 6' .?6// +*..*/ 1-')1/0 25' 86,*-' 1-' 1,)*-' /_; 0.% ()-*-*' :*D-*8' 81-0.' 6-*',);.',-62./6,*0' 2',)*' % ** $/! % - : ' %% "("' M/ ,' .1?*,) 25' % ' (8' .' 6==/*0',1' 6' ;,*2./ M;.;6// ' >12. 0*-*0' f " ');; ?1-*' =-1D6D/ ' 6' .)6//18' %8' 1-')1/0 25' 86,*-' ' 6?% LL+ 'GM' K ST' ' 25.' L L ' X' 1-' 1 / M ' 25.' L+ ' K SX% 1?*'>/*8',1',)*' 26,;-*' 1',) .'+*.^ .*/ .'=*-)6=.'6 1-0*0' D ' ,.' ?*2, 12' 6.' D* 251' ;// 1' 86,*-'6,',)*')*60' 1 ' 6;/ 8)*2' 12') .' 2 5),'*L=*0 ^ , 12' 6 ,*-' 6+ 0' M ' 6?% LL+ ' K SX' 620' 6/.1' 1' / A6)'M ' 25.' L L ' X% 2' 6' . ? /6-'>6.*' 2',)*'=-*.^ *2,' 06 ',) .' 81;/0' D*' 6' 5/1D;/6-'+*..*/ 1 'D/;*'=1-1;.' >/6 ' 7,)*' 1-0 26- ' 46[6' =1,,*- ' 6D1;,' 2 2*' 2>)*.' 0 6?*,*-' 8 ,)' 6' 2*>9' 1 '6D1;,',)-*'' 2>)*.' /125' 6' .,-6 5),'.=1;,' 8 ,)' 62' 1- >*' 6D1;,',)*' .[*' 1 '6' .,-68 ',)-,1;5)' 8) >)',)*' 86,*-' .' 0-,29' 1-' .;>9*0%% ()*' 1-?' .'>1?? 12' 6/.1' 2' =6 2 '620' 8 //)*' 6? /^ 6-',1' ? 62 ' -1?'= >,;-*.' 1 ' =62 .)'/ *% ' . ? /6-' 5/1D;/6-'+*..*/=-1D6D/ '>12,6 2*0',)*' 1 / 1 ',)*' 8 0^ 18' 1 'U6-*=)6,)'M ' 25.' L+ ' K SX% 1-',)*' D1LJ' 1-')1-2J' 2' 8) >)',)*' >12.*>-6,*0' 1 / 86.' >6-- *0' 12' .=*> 6/ 1>>6. 12.' .*' 2% 1?*' 8-,*-.')6+*' .;==1.*0',)6,',D*I>-;.*' 1 ' 86,*-' ?*2, 12*0' 2' ,)*' -..,'=6..65*' M8)*2' 6;/ .' / *' 86.' .=6-*0' D ' 6^ + 0X' 86.' 6' % ' 1-' 12*' 1 ',)1.*' 86,*-C8 ,>)' ?*6.;-*.' ;.*0' D ' ,)*' 62> *2,.' D ' 8) >)' , ?*' 86.

?*6. ;-*0' D ' ,)*' 6// 25' 1 ' 86,*-' -1?' 12*' +*..*/' 2,1' 621,)*-' ,)*' ;20*-?1..' +*..*/ >12,6 2 25' 6' = *>*' 1 ' 7>1-9 ',)*' 0 *-*2,' 6/, ,;0*.' 1 ' 8) >)' 6.' ,' 5-60 ; 6// ' -1.*' ;=12' ,)*' - . 25' 86,*-' ?6-950' ,)*' =-15-*..' 1 ' , ?*' ;,' 8*' >62')6-0/ ' .;==1.*' ,)6,' .;>)' , ?*0' ?*6. ;-*.' 8*-*' 92182' 6,' ,)6,' *6-/ ' =*- 10' ,' .' ;.;6/' 1-' =*-.12.' 2',)*' 6..' 2',)*' =-*.*2,' 6 A' 8)*2' ,)*' ,-6+*/',1',69*' 8 ,)',)*?' 6' /6k9 1-' D1/0 25P' 86^ ,*-' 620' 6/.1' 8)*2',)*' ./**=' 2',)*' 1=*2' 6 -',1',)6+*' 6' .?6//+*..*/ 1' 86,*-' 8 ,) 2',)* -' -*6>)' M()1?.12' ' '; "1' 'K X' ()*.*' /6.9.' 6-*' 1' +6- 1;.' 1-?.' 620' 6-*' .1?*, ?*.' >1+*-*0' 8 ,)' 6' 8 >9*-C>6.*' **' '!

' " +" +J M -1?',)*' ' & 2' *?=C , 25X '=*-)6=.' 6' 'M6.' ,' .',-62./6,*0' 2' B*-' L L' / X' 1-')1/0 25' 62 '/_; 0' 6.')12* 'M' 25.' L + NX' D ;,' ?1-*' =-1D6D/ ' 6' / ' 'M_'+ X

N' ,(- ,6' " "(M ,' ,)6,' 2,1' 8) >)' /; 0.' 6-*' % ' E' -% 'MK', 25.' 'K X' () .' 86.' =-1D^ 6D/ ' 6' /6,' ?*,6/' .6;>*-' 1',)*' 1-?' ., //' >1?? 12' 2' ,)*' 6.,' ,'1>>;-.' 2' K' 25.' 'K ' >-;.*' LL ' N' 0 .)TJ' K')-12' LLL+ ' N' =62TII' 6/.1' -1+' L L 'K T' LL+ ' S' 8)*-*',)*' 5;-*' .' 1D.>;-*0' D ',)*' >)1>*' 1',)*' +-1-0' D1.1?%J' **' + . g ' *,7

2 .0 ' ' ' %' ' ' 6' ? 2 .,*-'1 ',)*' -1,^ *.,62,' = .>1=6/);->)' 86.' D1?' B;2*' K R ' 2') /60*/=) 6' 1 ' ;,)*-62'=6-*2,65*' : *' *2,*-*0',)*' $2 +*-. ,'1 ' *22. /+62 6' 2' Q K'620' 5-60;6,*0' B62' Q '8 ,)'0 ., 25; .)*0')121-.' : *' 86.' 6==1 2,^ *0' =-1 *..1-' 2',)*' $2 +*? ,' 2' QN '620' -*. 52*0' 2' QNN' : *' 86.' 1-06 2*0' D '.)1=' &) ,*' 6D1;,' QKK' D*>6?*' -*>,1-' 1' (-2 ,' 6- .)' .)9 //' ' ' 2' =-/' Q 4' D;,' -*. 527',)*' >;-*' 2' Q '620' 6 ,*-^ 86-0.')60' 21' =6- .' : *' .112' 6 ,*-' -*?1+*0',1',)*' 4*2*-6/ ()*1/15 >6/ *? 26- '8)*-*' 6.'/ D-6- 62 ',)*')60' 6?=/*' 1==1-,;2 ,*.' 1-',)1.*' ..;0 *.' 2' 8) >)') *' 86.' .1'.;>>*.. ;/' 2',)*' 62> *2,'/625;65*. ' - 6>' : *D-*8' 620' 4-**9 ' -' -;.*' 86.'+*- ?8*//' 2 1-?^ *0' : *',-62./6,*0' 620' *0 ,*0' ;.*D ;. ' "' # =' ,1-W' 620') .' *0 , 12' .',)*' D*.,')' 25/ .)' : *' 0 *0' 2' *8' 1-9' >,1D*-' QS ' ' "' 5 'B62;6^ - ' QSS

2 .;.' ' ' $ $ '6' 4*-?62' ,)*1/1^ 5 62' 86.' D1?' 6,' *;26'2*6-' <*-.*D;-5' B62;6- ' ' : *' .,;0 *0' 6,' * =[>' 8)*-*')*' 6 ,*-86-0.' D*^ >6?*' =-1 *..1-' 1' =) /1.1=) ' 2' '1',)*1/15 ' 2' ' 620' =- ?6- ;.' 1',)*1/15 ' 2' ' : *' 0 *0' >,1D*-' Q ' ..6, . *0' 8 ,)',)*' *L ., 25'=) /C 1.1=) >6/ . .,*?.')*' 6,,*?=,*0' 6' 2*8' 12*' 8) >)') *' .1;5),' 'D- 25' 2,1')6-?12 '8 ,)' 1-,)101L',)*1/15 ' ()*' .>)11/ 8) >)')*' -*=-*.*2,*0' 2' * =[5' ?6 ' D*' 0*. 526,*0' D ' ,)*' 26?*' 1' 6') /1.1=) >1C D/ >6/ 3 >6/ .?' .' 6' =) /1.1=)*-')*' 86.' 12*' 1 ',)*' ?1.,' ? =1-,7,' 1==12*2,.' 1',)*' 0*6/ .?' 620' ?*>)62 .?' 1',)*' * D2 ,[C& 1/ 62' =) /1.1=) ' 8) /*' 6.' 6' D/*' ,)*1/15 62')*' ?6 2,6 2*0',)*') .,1- >6/ 620' / ,*-6/ 6.' 1==1.*0',1' 62' *L>/;. +*/ ' .= - ,;6/ .,>' *L*5*.' .' 2' ' ')*' 0-*8') .' >12>/;. 12.7 21,' -1?',)*' >12^ >*=, 12.' 1',)*' 2,*//*>,' D;',)*' .;55*., 12.' I1',)*' 8 // 620' >12.> *2>*' : *' 0*- +*0',)*' 21, 12' 1 '0;,' -1?' ?1-7/ 2*>*.. ,' -' f' : *' 6..*-,*0',)*' -**C65*2> '1',)*') ;?62' ? 20' M8) >)')*' >12,*?=/6^ ,*0' =- 2> =6// ' 2' 6' 2*56, +*' =1 2,'1 '+ *8' ' *' 6.' ;2^ 2 /;*2>*0' D ' =) . >6/ 1-' ?6,*- 6/ /68 .X' 620' 0*+*/^ 1=*0',)*' 1-?6/ >120 , 12.' 1 '1 ;-' -**C8 // 6>, 12.' 620' ,)*' ?1, +*.' 1 ',)*?' ()*' =- 2> =/*' 1 '6' ?1-6/ /68' /*0') ?',1',)6,' 1 '6' ?1-6/ 41+*-21-' 620' *5 ./6,1-' 620' >12.* ;*2,/ ',1',)*') =1,)*. .' 8) >)' 6.>- D*.' 6// ?1-6/ 1D/ 56, 12.' 620' /68 .' ,1',)*' 0 + 2*' 6;,)1- , '0*0;> 25' 6.' ,)*' .>)11/?*2')60' 012*' ,)*' =- 2> =/*.' 1' ?1-6/.' -1?',)*' 8 // 1' 410' ()6,' 8) >)' .' >12^ . .,*2,' 8 ,)',)*' 26,;-*' 1',)*' 0 + 2*' =*- *>, 12.' 620' 6>>1-0.' 8 ,)',)*' 0*. 52.' 1' 410' .' 5110' 620' D*>1?*.' 1D/ 56,1-A7 12' 6// -6, 126/ D* 25.' 410' 0*?620.' 1') .' -6, 126/ >-*6, 12' 2',)*' -.,'=/6>*',)6,',)* '.)1;/0

D*' 5110' 620' 6/.1' 8 //.',)*' -')6== 2*..' 6.' 6' >12.*^ _;*2>*' 1' +-,;*J' M(*22*?622X' : .'=- 2> =6/' 81-9.' 6-*d +' !' !' '/'? + ' !' . " ' !' FH " " 6 + I"1/ 1 (' KO' *O' SKV' 6 2' ' !' " = ' N " " ' M =[' T' NO' *O' C SSX' & '/!' ' M =[' T' NO' *O' S X' & ' !' "' ' ; "1" ' =' "' ' + ' +/ + ' M =[' R' K' +1/.' KX' ; ' !' # " ' >+ 1*%/ N W' K' +1/.' X' **' *-*-' 2 = + ' +' T' 6) C 2 .' ? ' + ' M O 2D' Q S K 21' =' XT' */ ,[.>)' ' ' +A% %" 2 h" ' -" ' " ' @ =' "2 ' "' " ' ' *,>' M =[' Q XT' (*22*^ ?622' '# ' " !' g NSQ

- *-' O ' '6' & *./* 62' ? .. 126 '1' -6-*' = ^ *,' 620' ;.* ;/2*..' 86.' D1?' 6, 25/* Y2' 1-9.) -*' 2' Q % ,' K ')*' 86.' >12+*-,*0' 620' 86.' >6//*0' 2,1' ,)*' ? 2 .,- '6D1;,'.*+*2` *6-.' 6 ,*-' 620' /6D1-*0' 1-' 6' *8' ?12,),)' 2' 62' 25/ .)' > ->; ,' : *' 86.' ,)*2' 6=^ =1 2,*0' 6' ? .. 126- ',1' 20 6' 620' *?D6-9*0' 1-',)6,' >1;2,-' 2' QKR' 1-' KK' *6-.')*' /6D1-*0' 1-',)*' .6/^ +6, 12' 1',)*')*6,)*2' 620') .' 26?*' + // D*' /125'-*^ ?*?D*-*0' 2',)*' 6.,' 2' .= ,*' 1' 1==1. , 12' 620' 1',)*' /125' 0*/6 ' 1' =-17*-.,A1' 8) >)' .',)*' 5-*6,' 620' =*>;/ 6-',- 6/' 1',)*' 6.,*-2' ? .. 126- ' 2' .= ,*' 1',)*' ? 17' 6>;,*' =*-.126/' 620' 6? / '6 /> , 12.') .')*6-,' 86.' ;206;2,*0' 620') .' 6 ,)' ;2.;D0;*0' *8' 1') .' */18C? .. 126-*.' *L>*//*0') ?' 2' =18*-' 1';,^ ,*-62>*' 2',)*' 60-1 ,2*..' 620' * /*>,7 ,)' 8) >)')*' *L^ =1.*0',)*' .1=) .?.' 1',)*' -6) ? 2' 1-' 2' .*6->) 25' 620' =*-.;6. +*6==*6/.',1',)*' >12.> *2>*' : *' 0*,*-? 2*0' ,1' 9218' 21,) 25' D ;,')-.,' 620') ?' >-;> *0 J' ;>)' 6' ? 2 .,*-' >1;/0') 6-0/ ' 6/' 1' 8 22 25' .1;/.' 620' ?62' 8 //' D*',)*' >-182' 1') .'-*A1 > 25' 2',)*' 06' 1' B*.;.')-.,' 21,' 12/ ' -1?' 6?125',)*' *' 26, +*.' 1' 2^ 0 6' D;,' 6/.1' -1?' 6?125',)*' ;-1=*62.' -*. 0*2,' 2' ,)6,' >1;2,-' : *' 0 *0' 1' 0) 1/*-6' >,1/TP*-' T' Q K' Q N' 3

- =,' M4-' >=;(--BA' 6' '=/6>*T' 6,' % 1' ,' % 8

?125',)*' 62> *2,' 4-**9. 620' 1?62.' 6' % 86.' =- ?6- / '6' /125' 126--18' 56//*- '6D1+*' ,)*' /*+*/ 1',)*' 5-1;20' .;--1;20 25' 6' >1;-,C 6-0' 620')6+ 25' 86//.' 12' D1,)' 1' ,.' . 0*.' 8 ,)' 8 2018.' 2',)*' 86// 6>^ 25',)*' >1;-,' ()*' .*-+*0' 6.' 6'=/6>*' 1' =-1?*260*' 0;- 25',)*')1,' 1-' 8*,' 8*6,)*-' 620' 8*-*' 26// ' .1' *L,*2. +*7';.*0',)6,' ,)*' 8*-*' *+*2' D; /,' 1-',)*' 1 >*-.'2*6-',)*' -6.,1- 62' >6?=.' 2' 1?' -A=,.' . ?/6-' 2' >12.,-;>, 12' 620' /1>6, 12' 8*-*' D; /,' 1-' .,1- 25' 8 2*.' +*5*,6D/*.' 620' 1,)*-' 6-, >/*.' / 9*' ,)*' ?10*-2' .;D,*--62*62' >*//6-' &)*2'7 ',)*' 8 2018.' 8*-*' >/1.*0',)*' 8*-*' 06-9' 620' >11/' 620')*)>*',)*' 81-0' 86.' 6==/ *0' *+*2' D ',)*' 62^ > *2,.',1' 62' 06-9' 620' /125'>)6?D*-' 1-'=6..65*' 6.',)*' 06-9' .,6D/*.' 8)*-*')1-.*.' 8*-*' 9*=,';20*-',)*' 6?=)^ ,)*6,-*' ',)*' ' 6,' 1?*' ,)*' ,;22*/' 6,' 6=/*.' 620',1' 6' 5-1,,1' 8)0-*' #;6-, //6' 1 *-*0' .6>- ^ >*' I' 7 I

' ()*' 81-0' % 86.' 6==/ *0' D ',)*' *6-/ ')-.^ ,62.',1',)1.*' .;D,*--62*62' D;-6/C=/6>*.' 8/7>)' 8*-*' 6 ,*-86-0.' >6//*0' 6,6>1?D.' M' +%X' ()*',*-?' ;6.'/6^ ,*-' / ?,*0',1',)*' /6-5*-' >)6?D*-.' 2',)*' 6,6>1?D.' 8)*-*' 12*' 1-' ?1-*' ?6-, -.' 8*-*' D; ()*.*'>-A_X,-' 8*-*'/6-5*-',)62',)*'1',)*-'-11?.' 2',)*' 6,6>1?D.' 620' 8*-*' 1 ,*2' 1-26?*2,*0' 620' 0*+1,*0',1' 0 + 2*' 81-.) =' G7-',) .' =;-=1.*' ,)* ' 8*-*' 01;D/*' 12*' =6-,' .*-+_AAA7 1-',) ' ?*2' 620' 9*' 1,)*-' 1-',)*' 81?*2' C8,)' .?6// 62,*>)6?D*-.' 1-',)*' >6,*>), ?*2.' 1?*' 1',)*.*' >- =,.')60' 1=*2 25.' 2,1',)*' */0.' 6D1+*%

' &)*2' =*-.*>;, 12' >*6.*0' 620')-., 62.' D; /,' >);->)' *0 >*.' 6D1+*' 5-1;20' ,)*' >;.,1?' 86.' 601=,*0' 1 '=/6> 25',)*' -*?6 2.' 1 '?6-,-. ' /6,*-' 1 '6->) D .)^ 1=.' D .)1=.' 6DD1,.' 620' 1,)*-') 5)' >);->)' >6/*' 2' >- =,.' ;20*-',)*' 2,*-.*>, 12' 1',)*' >-1..' 2',)*' =/62' 1',)*' >);->)' 2',)*' 6. />62' "*- 10' 1' 6->) ,*>,;-*

,)*.*' > =,.' 8*-*' 1 ,*2' >6//*0'D ' ,)*' 26?*' f' 2' ,)*' 1?62*._;*' =*- 10' ,)*')6?*' >- =,' 86.' -*^ .;?*0% 2',)*' >) ;->)*.' 1',) .' =*- 10',)*' >- =,'*L^ ,*20*0' ;20*-',)*') 5)'6/,6-'620'D6>9' ;20*-',)*' 2, -*' >)1 -' '6=. .' .1?*, ?*.' *+*2' 2>/;0 25',)*' .=6>*' ;2^ 0*-',)*',-62. *=,% ( ) .' >- =,' 1-?*0'6/?1.,'6' .*=6-6,*' 3 ' >) ;->) '620'>6; .*0',)*' /11-'6)1+7' .',' 1',)*' ?6 2'D10 ' 1',)*' >) ; -7',1'D*' -6 .*0') 5)*-',)62',)6,'1',)*' 26+*' ,1'8) >)',/?'6;0 *2>*')60'6>>*..%) ;->)*.' 1;20*0' 2',)*'/6,,*-'=6-,'1',)*' : 1?62*._;*'=*- 10'620',)*-*^ 6 ,*-')60' 21' >- =,.%)*' -*6.12' 1',)* -'0 .6==*6-^ 62>*' -1?' >) ;->)'6->) ,*>,;-*' .' 21,'8*/' ;20*-.,110% ' ;D9*' ? + " ' '& " + :' >)' P>kI606-' '? +' '5 '& 4

-N-=,1C 6/+ 1 ., >' 12,-1+*-. ',)*' 26?*' 5 +*2',1'6'0 .=;,*'8 ,) 2',)*' ;,)*-62') ;->)'1'4*-^ ?62 'M K© X>12>*-2 25',)*'01>,- 2*'1',)*' 1-0 .' 6==*-% ()*' 1//18*-.'1',)*' <*/62>,)12 62'01>,- 2*' 6.'0 ., 25; .)*0% -1?',)*' .,- >,' ;,)*-62. '8*-*' ., /*0' % ,M 'M6/.1') / == .,. ' < */62>,)12 62.X% % < */62>,)12' ,' .' 8*// 92182'*6-2*../ ' 0*. -*0' 6' ;2 12' 1',)*' ;,)*-62' 620' 6/+ 2 ., >'0 + . 12.' 1' ,)*' -1,*.,62,'D10 % : .'=*20*2> ',186-0.',)*' 6/^ + 2 ., >'+ *8'1',)*' 1-0 .' ;==*-'86.'*6-/ '.)182' 2' ,)*'0 *-*2>*'D*,8**2',)*' ;5.D;-5' 12 *.. 1' =' 'M X'620',)*' 'M KX' 2',)*' 1-?*-'6-,% d'0*' ' ' 1' ,' .',6,*0',),6,',)*' D10 '620' D/110'1 ')- .,'6-*',-;/ '=-*.*2,' 2',)*' 1-0 .' ;==*-' M 2',)*' 1-?'1 'D //)0'620'8 2*X'620'6-*',)*-*'0 .,- D^ ;,*0'620'-*>* +*0'M0 .,- D;;2,;-' " X',)*-*' 1-*' ,)*'1==1. ,*'01>,- 2*' .'-*A*>,*0%J' 2',)*' 'M 6,^ 2'1 'K X',)*'-*60 25' .'([] '% ' ' ' ' " = " '>1-=;.' *,'.625;.')- .,' +*.>*2,);.' 2' >1*26 1? 2 %J' ()*' >120*?26, 12' 1',)*' 1==1. ,*'01>^ ,- 2* J' '*,,)*' U8 25/62' .' 1? ,,*0% () .' 6/,*-6^ ,12'0 0'21,' ?**,',)*' 6==-1D6, 12'1' ;,)*-'8)1'2*+^ *-,)*/*..' ,1/*-6,*0' <*/62>,)12.' >)625*' 1'01>,- 2*%' ;,' ?62' ;,)*-62.' M*% 5% /6> ;.'6%+%X'8*-*' /*..' ,1/*-62,T' 620'0;-25' <*/62>,)12.' / *, ?*')*' 86.' =-1^)70'D' ?62' ,1' D*' 6' >12>*6/*0' M>-A=,1CX' 6/+ 2 .,% 7)*',-;,)' .**?.',1'D*' 6 -/ '..6,*0'D ' :6.*'6.' 1/^ /18.a' .' < */62>,)12' 86.' >12+ 2>*0',)7,' 2*,)*-' ;,)*-.' 21' 6/+ 2 .' 01>,- 2*.' 2' =-1+ 2> 6/ 6, 2'D* 25' 2^ 62' 2.;=*-6D/*'D?',1'.6+ 25'>1?2;2 12'8 ,)')-.,')*',)1;5),')*' ? 5),'6//18' D1,)' 1',)*?',1'>12, 2;*' 2',)*');->)% ;' 8)*2',)*' 01>,- 2*' 1',)*' 1?2^ =-*.*2>*' 1')-.,.' D10 ' M;D _;, '_%+%X' 86.' =-1^ =1.*0'6.',)*' 12/' .6+ 25'D6. .' 1',)*' : 1/ ' ;==*-' 620'?60*'D ' -*2,[' M.**' 8 $ 3',)*' /68' 1',)*');->)' 2' -,*?D*-5')*' *L=-*..*0' 0 .6==-1D6, 12' 1'.;>)' 21+*/ 01>,- 2*.' 2' =-1+ 2> 6/ 6, 2'D* 25' 2^ ,-10;>*0' 2,1',)*' . ?D1/.'1' 6 ,)J'> " "' # 1' g'N X% < */62>,)12'620' ;,)*-' 2*+*-' _;6--*//*0'12' ,)*'.;DA*>,T D;,',)*'>12,-1+*-. '*+*2'0;-25' <*/62>^ ,)12.'/ *, ?*'D*562', 1'D*' D ,,*-% : *' 0 0' 21,'/ +*' B)18*+*-',1'.**',)*' *->*' .,- *' 8) >)' 26// '6-1.*'12' ,)*' .;DA*>,' 8 ,) 2',)*' D1.1?' 1',)*');->)' M0 *0' S X% K% ;,',)*' >12,-1+*-. '6.'.;>)'D*562' 2',)*' *6-' K'8)*2'B16>) ?' & *.,=)6/'6' =-*6>)*-' 2' :6?^ D;-5'=-1>/6 ?*0',)*' 6/+ 2 ., >'01>,- 2*'1',)*' 1-0 .' ;==*-')*-*, >6/% ()*' >_=,-1+*-. ' 86.' *.=*> 6// ' + 1/*2,'6,' -*?*2'D*,8**2' (/* 622' : *.);. ;.' 620' /D*-,' : 6-0*2D*-5'>6,)*0-6/=-*6>)*-'8)1'6>,*0' 1-,)*' 6/+ 2 ., >'01>,- 2*'620',' 8*2,'12' ;2, /' : 6-0*2^ D*-5'86.'0 .?..*0' -1?') .' =1. , 12%)1-,/ 76 ,*- ///7*.) ;. ;.'.)-6*0'6'/9*' 6,% 2' Q' :*.);. ;.'86.' ?60*' 5*2*-6/ .;=*- 2,*20*2,' 6,' : * 0*/D*-5' 620')1' .112'0*,*>,*0' ' - =,1C 6/+ 2 .?J' 2'0*6>12' & /)*/?' -*D,[% 2'D1,)' > ,*.' ;,)*-62 .?' 86.' 26// ' *L^ =*//*0' 620' -*0*- >9' ' */*>,1-' 1' ,)*' 6/6, 26,*' 8*2,'1+*-',1',)*' * 1-?*0' ;->)% 2' & ;-,*?D*-5' -*2,[';-5*0',)*' ;/,-6C ;,)*-62'01>,- 2*'M.**'6D1+*X' D;')- .,1=)'0;9*'1' & ;-,*?D*-5'*20*6+1-*0',1'6/^ /6 ',)*' ,-* *' 620' 26// ' .;>>**0*0' 2' S '6,',)*' -.,*2,65'M *,'1' - 2>*.X'6,' 6; ?D;-5' 2' 1D,6 2^ 25',)*'-*>152, 12'1',)*'6777(*0 ;5.D_-5' 12 *.. 12%

( )*'*/*>,1-' -*0*- >9' '1',)*' 6/6, 26,*' 8 ,)0-*8' -1?',)*' >12,-1+*-. '620' 2,-10;>*0' 2' SN' 2').' 01? 2 12.'6'? L*0'01>,- 2*'1'<A*/62>,)12 62',*20*2^ > 'D ',)*' 2>1-=1-6, 12'1',)*' : * 0*/D*-5' 6,*>) .?' 2,1',)*'.,6,*'/68l% 2',)*' 6L12'*/*>,1-6,*',)*' & ,,*2D*-5'620' * =CC' [5',)*1/15 62.' ;20*-.119'6'/9*' >1?D 26, 12'1',)*' 01>,- 2*.% 6.=6-' *;>*-'.12C 2C/68'1'<*/62>,)12' -6>18' >);,[' 620' ,1..*/' 4% <6A1-' % D*-' 6;/ -*//'620'/6,*-' % -;>5*-' *[*/' <1//*-'620'1,)^ *-.' 2',)*' -'8-, 25.'620'6/.1' 2',)*' 8*//92182' 6,C *>)*./.' 6+1-*0',)*' + *8' 620',)*.*' <*/62>,)12 62' ,)*1/15 62.' 8*-*' >6//*0') / == .,.% ()*' ( );- 25 62' ,)*1/15 62.' 2' B*26' *.=*> 6// ' /6> ;.' 6/.1' & 5620' 1/*.,- 2' ->)2*-'620'1,)*-.'8*-*' .,- >,' ;,)*-62.' 620'D ,,*-/ '1==1.*0',)*' */*>,1-6,*' 6L12.% ' >12^ *-*2>*'D*,8**2',)*' & ,,*2D*-5'620'B*26',)*1/15 62.' 86.')*/0'6, /,*2D;-5'M >,1D*-' SQ',1'<6->)' SSR% 2' 8) >)'+*-' 2,*?=*-6,*' >>;.6, 12.'8*-*' ?60*' 656 2.',)*') / == .,.% ()*' -;=,;-*' 86.' 8 0*2*0% ()*'*/*>,1-6/0;9*' ;5;.,;' ' 6L12 '>6//*0') .',)^ 1/15 62.',15*,)*-' 2' -*.0*2'12',)*' C/ ,)'1' >,1D*-' % ()*' '65-**0';=12',)*' ' '620' ,)*' " '8) >)'1==1.*0',D*' 01>,- 2*' 1';D _;, 'D;;.*0' ;,)*-62'/625;65*' 2' ?10*-6,*' ,*-?. I'<*/62>,)12 62' 2'.= - ,T 1-',)*',?*' ,'86.' ,)1;5),',)6,',)*' .,- *' 86.' *20*0% ;,' 2' 6=^ =*6-*0'62'6212 ?1;.'81-9'*2, ,/*0'6 % % ' ' ' ;' ' ' 8) >)' .,-125/'60+1>6,*0',)*' 6/+ 2 ., >'+ *8'1',)*' ;=^ =*-% M,')6.'D**2' .)182'D ' :*==*' ? " " ' ' +' !' SQ',)6,',) .' 81-9' 8-,,*2'D ' ,)*' =) . > 62'B16>) ?' ;-*2.'\0 *0' NA'6-0'86.% 21,'1-5 26// ' 2,*20*0' 1-' =;D/>6, 12% ()*' 81-9' >6;.*0'6'D ,,*-' -*2*86,'1',)*' >12,-1+*-. '620',)*' */*>,1-'0*,*-?2*0',1' .;==*-*..' 6/+ 2 .?'620',)*'0*^ =1.*0'1-' ?=-.12*0',)*' */*60*-.'620'>1?2620*0'.;D^ .>-=,12',1',)*' 12 *.. 12'1' (1-56$'M<6 ' X' *;>*-'86.' ?=-.12*0'1-',8*/+*'A*6-.% 2' SQS',)*' */*>,1-'0*0'620') .' .12')- ., 62' .;>>**0*0') ?%)62>*//1-' >1/6.' -*// M_%+%X'620'1,)*-.' 2/;*2>*0') ?',1'6+1-',)*' 6/+ 2 .,>'+ *8% ,*-') .'0*6,) ',)*' 0;9*' -*0*- >9' &// 6?'1' 6L*C& * -66-' 8)1' 86.'-*5*2,'=;,'0182') / == .?'D'D-;,*' 1->*7*+*-' *L*>;,25' -*// 2' S % **' 1.>)*-' ' =' KN' :*==*'? " " ' ' 2 + ' 1' 'Q K K'+1/.T . " ' ' !" '-" !' QS ' +T 4 *.*/*-' " "' # 'M ? ,) .X' +'g'N NQT' 46..' ? " " ' !% '-" ' 'SN._%T :65*2D6>) '# ' 1 '' 'gK ST' :*-[15'5 26 D %'+ ' K % - .,6/% ()*-*'6-*' .*+*-6/81-0.'8) >)'6==*6-',1')6+*',) .' ?*62 25' 2',)*' D/*%7 **? 'g + ! ' f ("'M=-1=*-/ ' '6.' ,' .' -*20*-*0'B1D + ' ST' LLL+ ' KRT' -1., J' 4*2% LLL ' T' IB1D' LLL+ ' T' B*-%'LLL+ 'N T' *=,%7>=+1(,,771>X'1>>;-.' // [*9% 'KK'8)*-*',)*'*=,)*,',*-- D/*J',*g?.',1'D* 600*0'D ' 86 '1'0 ., 2>, 12' -1?',)*'1-0 26-A'. 52 ^ >6, 12'1',)*'81-0% K% N111 "('M=-1=*-/ ' :' *=,% $ 8'1>>;-.' 12/ ' 2'B1D'LL+ ' Q'8)*-*' ,' .' -*20*-*0' =*6-/.J' 2'1;-'+*-. 12% N% / + + +('M/,% 8)6,' .'% '1-',-62.=6^ -*2,'T *=,%+6d1>X'1>>;-.'12/ ' 2'B1D'L+ ' '8)*-*' .1?*'-*56-0',' 6.'0*21, 25'%=*8. % =L--6dd1>'M=-1=' 8'1>>;-.' 2' *+' +'S%' LL T' LL ' '*+0*2,/ ' 2',)*' .*2.*' 1' '620' 2' 3.;>)'>122*>, 12.'6.',1'0*2, AJ ,' 2'6'5110'0*5-*' 8 ,)',)*'=-*>*0 25',*-?.% ' - .,6/86.'62> *2,/ ')*/0',1'D*' 12/A!'=;-*' 86,*-' >125*6/*0'D '5-*6,'/*25,)'1',' ?*' 2,1' >*')6-0*-',)62' ,)*' >1?2?12'M *0% >' ' K' / 2% # !'7 !' ! (KX'620')*2>*',)*'4-**9'81-0'1-' ,' 2',.'?1-*'=-1=*-' . 52 >6, 12'6/.1'. 52 *.' >*% -1?',)' .',' 2*>*..6^ -/ ' 1//18*0',)6,' > ..6/ >1;/0'12/ 'D*' =-10;>*0' 2' ,)*'-*5 12.'1'=*-=*,;6/ >*'620',) .' 86.' 6>>1-0 25/ ' ,)*'62> *2,'D*/ * T D;,'8>'218'9218',)6,' ,' .' 1;20

in the warmest regions. Theophrastus (54) reckons crystal among the pellucid stones used for engraved seals. In common parlance we apply the term *crystal* (as the ancients apparently did) to a glass-like transparent stone, commonly of a hexagonal form, which, from being found in rocks, is called by mineralogists rock-crystal. It is a stone of the flint family, the most refined kind of quartz" (Kitto). See GLASS.

Cubit (in Heb. אַמָּה, *ammah'*, lit. *mother*, i. e. of the arm, the *fore*-arm; Greek πῆχυς, an *ell*) is a word derived immediately from the Latin *cubitus*, the lower arm. The length of the cubit has varied in different nations and at different times. Derived as the measure is from a part of the human body, and as the human stature has been of very dissimilar length, the cubit must of necessity have been various. The lower arm, moreover, may take in the entire length from the elbow to the tip of the third or longest finger, or it may be considered as extending from the elbow merely to the root of the hand at the wrist, omitting the whole length of the hand itself. If the definition of Celsus (viii, 1) is taken, and the cubit is identified with the *ulna*, the under and longer of the two bones of which the arm consists, still a fixed and invariable measure is not gained. That the cubit among the Hebrews was derived as a measure from the human body is clear from Deut. iii, 11—"after the cubit of a man" (אַמַּת אִישׁ, see Böttcher, *Proben alttest. Schrift*. p. 288). But it is difficult to determine whether this cubit was understood as extending to the wrist or the end of the third finger. As, however, the latter seems most natural, since men, when ignorant of anatomy, and seeking in their own frames standards of measure, were likely to take both the entire foot and the entire fore-arm, the probability is that the longer was the original cubit, namely, the length from the elbow to the extremity of the longest finger. The Egyptian cubit, which it is likely the Hebrews would adopt, consisting of six hand-breadths, is found on the ruins of Memphis (*Journal des Savans*, 1822, Nov., Dec.; comp. Herod. ii, 149). The Rabbins also (Mishna, *Chelim*, xvii, 9) assign six hand-breadths to the Mosaic cubit. By comparing Josephus (*Ant*. iii, 6, 5) with Exod. xxv, 10, it will, moreover, be found that the weight of his authority is in the same scale. According to him, a cubit is equal to two spans. Now a span is equal to three hand-breadths (Schmidt, *Bibl. Mathemat*. p. 117; Eisen-Schmidt, *De Ponderibus*, p. 110); a cubit, therefore, is equal to six hand-breadths. The hand-breadth is found as a measure in 1 Kings vii, 26; comp. Jer. lii, 21. In the latter passage the finger-breadth is another measure. The span also occurs Exod. xxviii, 16. So that, it appears, measures of length were, for the most part, borrowed by the Hebrews from members of the human body. Still no absolute and invariable standard presents itself. If the question, What is a hand or finger-breadth? be asked, the answer can be only an approximation to fact. If, however, the palm or hand-breadth be taken at 3½ inches, then the cubit will amount to 21 inches. In addition to the common cubit, the Egyptians had a longer one of six palms four inches. The Hebrews also have been thought to have had a longer cubit, for in Ezek. xl, 5, we read of a cubit which seems to be an ordinary "cubit and an hand-breadth;" see also Ezek. xliii, 13, where it is expressly said, "the cubit is a cubit and an hand-breadth." The prophet has been supposed to refer here to the then current Babylonian cubit, a measure which it is thought the Jews borrowed during the period of their captivity. The Rabbins make a distinction between the common cubit of five hand-breadths and the sacred cubit of six hand-breadths—a distinction which is held to be insufficiently supported by De Wette (*Archäologie*, p. 178). Consult Lamy, *De Tabernaculo*, c. 8; Carpzov, *Apparat*. p. 676.—Kitto, s. v. An ancient Egyptian cubit now in the Royal Museum of Paris measures 20.484 inches. The Hebrew cubit, according to Bishop Cumberland and M. Pelletier, is twenty-one inches; and the Talmudists observe that the Hebrew cubit (meaning probably the longer or sacred measure) was larger by one quarter than the Roman, which would make it contain 21.843 inches. Many writers fix it at eighteen inches, confounding it with the Greek and Roman measure of a foot and a half. The most approved computation assigns each kind of Jewish cubits the same length as the corresponding Egyptian, namely, 20.24 inches for the ordinary one, and 21.888 for the sacred, which is confirmed by the mean length of several ancient cubits marked on the Egyptian monuments (Wilkinson's *Anc. Egyptians*, 2d series, i, 30), by a comparison of the dimensions of the Pyramids with those given in ancient authorities (Vyse's *Pyramids of Gizeh*, iii, 104, 105), and which we shall find to correspond remarkably with the Talmudical statement of the circuit of the Temple. In a later edition of his *Ancient Egyptians*, however ("*Popular Account*," ii, 258), Wilkinson makes the ordinary Egyptian cubit to have consisted of seven palms or twenty-eight digits, and gives nine exact computations of its length, varying from 20.4729 to 20.7484 inches, which yield an average of 20.6169 inches; and he states the cubit on the Nilometer at Elephantine, from actual measurement, to be 20.625 inches. This last is perhaps the most accurate dimension attainable for the standard cubit. (See Böckh, *Metrol. Untersuch*. Berl. 1838, p. 12; Thenius, in the *Stud. u. Krit*. 1846, i, 770; ii, 299; Lepsius, *Die alt-ägyptische Elle*, Berl. 1865.) See METROLOGY.

In Judg. iii, 16, the term translated "cubit" is in the original גֹּמֶד, *go'med* (literally, a *cut*), a *rod* or staff, as the measure of a cubit. In the New Testament our Lord characteristically employs the term cubit (Matt. xxvii, 6; Luke xii, 25) for the enforcement of a moral and spiritual lesson. The term also occurs in John xxi, 8, and in Rev. xxi, 17; and in the Apocrypha (2 Macc. xiii, 5). See MEASURE.

Cucius. See KAUTZ.

Cuckoo (שַׁחַף, *shach'aph*, prob. from its *leanness*; Sept. and Vulg. *sea-gull*; A.V. "cuckow") occurs only in Lev. xi, 16; Deut. xiv, 15, among birds of prey not clearly identified, but declared to be unclean. None of the various ancient or modern versions of this word give a bird possessing any affinity with the other species enumerated; and although the cuckoo is a winter and spring bird, distinctly heard, it appears, by Mr. Buckingham, early in April, while crossing the mountains between Damascus and Sidon, at that time covered with snow, it could scarcely deserve to be included in the prohibited list, for the species is everywhere scarce. The identifications proposed by late writers on the subject all equally lack a sufficient foundation. Bochart (*Hieroz*. vol. ii, c. 18) thinks the *sea-gull* is meant. Upon the whole, while so much obscurity still remains on the subject, the interpretation of "cuckoo" may as well remain undisturbed. (See *Penny Cyclopædia*, s. v.) The word *shachaph* was a

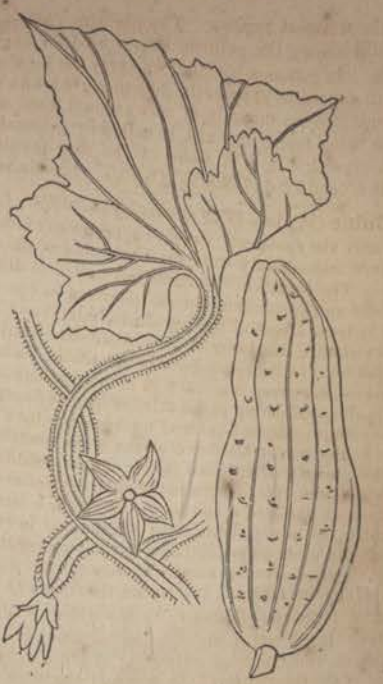
Common Cuckoo (*Cuculus Canorus*).

good imitation of the dissyllabic voice of this bird, as our word *cuckoo*, variously repeated in all European languages, and *yakoob*, which the bird is supposed by the Arabs to utter. The latter, indeed, call it *tir el-Yakûb*, or "Jacob's bird," on this account (Kitto, *Phys. Hist. of Palest.* p. ccccliii). The common cuckoo (*Cuculus canorus*) is a bird of considerable size, unfit for food, because habitually feeding on reptiles and large insects. It is spread over the whole of Asia and Africa as well as Europe, migrating northward in spring, and probably not breeding in Palestine, although passing the winter there. The American cuckoo (*Erythiophrys Americanus*), often called "cow-bird," is a different species of the family of the *Cuculinæ*, all the members of which are distinguished by laying their eggs in the nests of other birds, and rearing no young themselves.—Kitto, s. v.; Fairbairn, s. v.

Eastern Black Cuckoo (*Eudynamys Orientalis*).

Cucullus. See Cowl.

Cucumber is the translation of קִשֻּׁא, *kishshu'* (so called probably from its *difficulty of digestion;* Sept. σίκυος), in our Auth. Vers., and the correctness of this rendering has been almost universally admitted. It occurs in Num. xi, 5, where the Israelites, when in the desert, express their longings for the melons and the *cucumbers* of Egypt. The Heb. is so similar to the Arabic *kissa* that there can be very little doubt of their both meaning the same thing. Celsus (*Hierobot.* ii, 247) gives *keta*, *kati*, and *kusaia* as different pronunciations of the same word in different Oriental languages. It does not follow that these names always indicate exactly the same species, since in the different countries they would probably be applied to the kinds of cucumber most common, or perhaps to those which were most esteemed in particular localities. Thus, in Egypt (see Prosp. Alpin, *Plantt. Æg.* c. 38, p. 54), the name *kati* appears to be applied to the species which is called *Cucumis chate* by botanists, and "queen of cucumbers" by Hasselquist, who describes it as the most highly esteemed of all those cultivated in Egypt (*Trav.* p. 258). See Mélon. In India the name *kissa* is applied by the Mohammedans to the *Cucumus utilissimus*, or the common *kukree* of the natives, while in Persia and Syria the same name would probably be applied only to the common cucumber, or *Cucumis sativus*, as the two preceding species are not likely to



Syrian Cucumber (*Cucumis sativus*).

be much known in either country. The Talmudists (*Maaser.* i, 4; *Terumoth*, ii, 6; vi, 6; *Baba Mez.* vii, 5) have קִשּׁוּת, and the Phœnicians had the word Κουσίμεζαρ (Diosc. iv, 152), which is probably קִשֻּׁא מִצְרִי, "cucumber of Egypt" = σίκυος ἄγριος. The same name for cucumber exists in all cognate languages. (For an account of the cucumbers of Syria and Egypt, see Forskal, *Flora Ægypt.* p. 169; Celsii *Hierobot.* ii, 249.) See Botany.

All travellers in the East notice the extensive cultivation and consumption of cucumbers and other vegetables of the same tribe, especially where there is any moisture of soil, or the possibility of irrigation (see Burckhardt, *Arabic Proverbs*, No. 660). Thus, even in the driest parts, the neighborhood of a well is often occupied by a field of cucurbitaceous plants, generally with a man or boy set to guard it from plunder, perched up on a temporary scaffolding, with a slight protection from the sun, where he may himself be safe from the attacks of the more powerful wild animals. That such plants appear to have been similarly cultivated among the Hebrews is evident from Isa. i, 8, "The daughter of Zion is left like a cottage in a vineyard, like a lodge in a *garden of cucumbers*" (מִקְשָׁה, *mikshah'*, Sept. σικυήρατον), as well as from Baruch vi, 70, "as a scarecrow in a *garden of cucumbers* (σικυήρατον) keepeth nothing, so are their gods of wood."—Kitto. See Garden; Cottage.

Cud (גֵּרָה, *gerah'*, *rumination*), the pellet of half-chewed food brought up from the first stomach of ruminant animals to be thoroughly masticated (Lev. xi, 3–7, 26; Deut. xiv, 6–8). See Clean (animals).

Cudworth, Ralph, an eminent English divine and philosopher, was born at Aller, Somersetshire, in 1617, and entered Emmanuel College, Cambridge, in 1630, became M.A. 1639, rector of N. Cadbury 1641, and master of Clare Hall 1644. In 1645 he became professor of Hebrew; in 1654, master of Christ Col-

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'D* 25' ?*-*',)*, C' >6/ 1-' 6>, , 1;.') 25.' ?60*' D '6-D ,-6- ' 8 // 620' >1?? 620' 12/ X† ,)*',) -0' 620' /6.,'.;>)' 6',)* .?' 6.' 6>9218/*05*.' 21,' 12/ '6' 410' 1-' 1?2 =1,*2,' ;20*-^ .,620 25' * 25 'D;,'6/.1' 26,;-6/A;.,>*' 620' ?1-6/, ' 1;20*0' 2') ?' 620' 0*- +*0' -1?') ?† 2*+*-,)*/*..' 21' / D*-,' -1?'2*>*.., '62 8)*-*' 620',)*-* 1-*' 21' 0 ,-D;,+*' 1-'-*,-D;,+*'A;.,>*' 2',)*' 81-/0¾J' *^ 1-*' *-*>, 25',)*',-,*' 2,*//*>,;6/. .,*?' 1',)*' ;2 C' +* C.*' M,)*' *=.,)*,' 'D* 25' ;.*0' 6.')*',*//.' ;.' ,1' 0 .,25;.)' ,' -1?',)*' 1,)*-'+;/56-/ '.1'>6//^ *0' . .,*?.' 1',)*' 81-/0',)6,'.',)*' + .D/*' 620' >1-^ =1-*6/ 81-/0',)*' ,1/*?6>' (>)12>' 620' 1=*-2 C' >62JX',' 86.') .'1DA*>,',1'0*?1/.)',)*.*' 6/.*' .,*?.¼ 20',)*' -.,'1',)*?'6,)* .?' 1-',)*' 6,)* .,>' 6,*' .' 0*?1/.)*0' 2',)*' -.,'=6-,'1',)*' 2,*//*>,;6/ .C ,*27J' ,' .' 6' 81-9' 1 '5-*6,'/*6-2 25' 620' 6>;,*2*..¼ 2' 6,,6>9 25',)*' 6,)* .,>' 6 ,)¼ -¼ ;081-,)' 0*^ .>-D*.',)*' 6,1? >' =) .1/15 '8) >)'6.')*/0' D '*^ ?1>-,.' 620' 1,)*-' 62> *2,' =) /1.1=*-.' 2+1/+*0' 6,)* .?¼ 1-',)*' D*,,*-' >12 ;,6, 12' 1 '1,)*-' 1-?.' 1 '6,)* .?',1'8) >)')*'5 +*',)*' 26?*.' : I/1[1>620' ¾ 1.?1C=/6.,>')*' ?69*.',)*')A7A1,)*. .¾1 '62' 6-,^ >6/'+5;/6-' 620' =/6.,>' 26,;-* J' 81-9 25' 2' >1?^ =/*,*' .;D1-0 26, 12',1',)*' * , ¼ 20',1' 6+*-,'62' 6-5;?*2,'D-1;5),'656 2.,',)*' 12*2*..' 1 ',)*' //*,E ' -1?',.';226,;-6/2*..'6.').182'D ',)*' 5*2*-6/=-*+6^ /*2>*' 1 '=1/ ,)* .?'6?125',)*'=6562' 26, 12.')*' >12^ ,*20.',)6,' ',)*'=6562',)*1/15*-.' 6// 6/125' 6>9218/^ *05*0' 12*' .1+*-* 52' 620' 1?2 =1,*2,' * , ' -1?'8) >)' 6//,)*' -' 1,)*-' 510.' 8*-*' 5*2*-6,*0' 1-' >-*6,*0 J' 6=0' ,)6,',)* -'=17,)* .?'86.'D;,'6'=1/ 12 ?' 1 '12*' 410¼ ()*' - ' '6 ' 'D " ' '>1-^ -*.=120.',1',)*' .*>120' =6-,'1 ',)*' '$ ¶ ,' .'0 -*>,*0' 656 2.,' : 1DD*.' 620',)1.*' 8)1'8 ,)') ?' 6 /-?'A;.,>*' 620' 2A;.,>*' ,1' D*' 12/ 'D /6 8 ' 620' 21,' D '26,;-*%J' *. 0*.',)*' '$ ';0^ 81-,)'=;D/.)*0' ¶&' ' ' ' " ' 7 =' ' '" ' ('$ %% ' 6' 8) >)')*' ?6 2,6 2.' 6.' < 6-D;-,12')6.'. 2>*' ?6 2,6 2*0',)6,',)*' 1-0 .' ;=^ =*-' .' 6' *6.';=12' 6' .6> >*ST W -" ' 2 ' " ' ' " ' '" $" S ' &($ ' 'D " '2' N' '=-* D)*0' 2' S 'D* 1-*',)*' :1;.*' 1 ' 1?? 12.å ' ¶&'$ '% " ' ' SS ' (' ' ' ' !' ON' [Ha' ¶' 'D ' " '&' ' ' '5 % !' :*' /*,' .*+*-6/ 81-9.' 2' < ¶' 12/ '12*' 1 '8) >)')6.' 'D**2' =;D/.)*0'26?*/ ',)*' - ' '6 ' 'D ' '>1-^ ' 'M N X¶ ()*' -*.,' 6-*' ¶&' ' 9 ' ' ' ?' 6 S ' K¾' ' ' ' ' '7 ' ' " '" " '?' " '& " 9 ' " %" ' ' ' ' ' ' ' % S=1!'&' ' ' ' ('%" ' '" '$ ' + S ' ¶ , ' " ' 'N ' ' " ' " ' 5 ' ' " ' ' 'D S ' ¶&' ' ' ' " ' 9 ' ' " ' ' ' '>" '$ S ' S¶&' - ' '# ' S ' H ' & '6 % ' ' # ('7 ' '? ' ' ' + '6 ' '$% 9 ! ()*.*' < ¶6-*' 218' 2',)*' - , .)' < ;.*;?¶ 2' NN' 6' 6, 2',-62./6, 12' 1 ',)*' '$ ' 86.' =;D/.)*0' D ' <1.)* ?' M ;50¶ 6,¶ K' +1/.¶ ,1X¶ ()*' X ,' *0¶ 1 ',)*' 25/.)' 81-9' .' :6-- .12 .' M 12012 ' Q N' +1/.¶ Q+1 '8 ,)' 20*LX¶ '5110' 620' >)*6=' *0 ^ ,12' .',)6,' 1 ' 201+*-' M QN ' K' +1/.¶ Q+1X' 8) >)' 2^ >/;0*.' 6//',)*';D/.)*0' 8-, 25.' 1 ' ;081-,)' D;,' " ' 21' 20*L¶ **' ->) ' " M=-* L*0',1' ?1.','*0, 12.' 1 ') .' 81-9.X† 6 ! ' % :' <6>9^ 2,1.)' 6 " ' " %" '=¶ N¾ ;A6>,.' M=-1=*-/ ' ' ' * 8' (M$ '6' 0 ., 2^ 5;.)*0',*6>)*-' 1 '>6217' /68' 86.' D1-2' 2' KK' 6,' 3 (1;/1;.*¶ :*' D*>6?*' 2' '6' =-1 *..1-' 1 '/68' 6,' 6D1-.' 2' S '6,' 1;-5*.' 2' S '6,')/*2>>' 620' 2' '656 2' 6,' 1;-5*.¶ ()*' > + / 86-' 2' -62>*' 20;>*0') ?'.)1-,/ '6 ,*-',1' 51',1' 6-.' 081-*')*-*')*6'.1' -*>* +*0'=*-? .. 12',1' 5 +*' /*>,;-*.' 12' /68¶ 2' ')*' 12>*' ?1-*' -*,;-2*0',1' 1;-5*.' 8)*-*')*',)66>*'C' 1-,)' -*?6 2*0' 21,8 ,).,620 25',)*' ?1.',=-1 ,6D/*' 1 *-.' -1?',)*' $2 +*-. , ' 1' 1/1526¾ :*' 0 *0' >,¾ R ¶ ;A6>;.' 86.',)*' ?1.,' 6?1;.',*6>)*-' 1 ',)*' 1?62' /68' 2',)*' . L,**2,)' >*2,;- '620') .' -*=;,6^ ,12'6,,-6>,*0'/6-5*' 2;?D*-.' 1 '.,;0*2,.' -1?'6// >1;2^ -*.' 1 ';-1=*¶ :*' >1--*>,*0' 2;?*-1;.'=6..65*.' 1 ',)*' 1?62' /68CD119.' -1?',)*' ?1-*',)62' '?62;^ .>-=,.' 8)>)')*')60' >1//*>,*0' 620' 6' 5-*6,'?62 '1D^ .>;-*'=1 2,.'8*-*' D ') ?' 1-',)*' -.,', ?*' */;> 06,*0¶ :*' 56 2*0',)*'/1+*' 1 ',)*',)1;.620.' 1 ') .' =;=./.',1' 6 -6-*' 0*5-**' DX!',)*' 6 *>, 126,*'6,,*2, 12' 8) >)')*'=6 0' ,1',)*' 8*/ 6-*' 1 '*6>)¼ -1?',)*',)*'1/15 >6/>12,-1^ +*-.*.' 1 ') .',?*')*' >6;, 1;./ '6D..,6 2*0',)1;5)')*' 86.'6/86 .'6'.,*60 6.,'60)*-*2,'1',)*'>6;.*' 1 ' : *2- ¶ 2') .' 8 //)*' -* *--*0') .' 8 *' 620') .' 06;5)^ ,*-',1',)*'/*.,*-' 1 ',)*' =;-*' D/*' 8 ,)1;,'21,*' 1-' >1?? *2,'6.',)*'.1/*'-;/*' 1 ',)*-' 6 ,)¼ :*' =;D/.)*0') ?.*/'6'>1//*>,12' 1 ') .' 81-9.' M 6- .' X' 8) >)')18*+*-' .'21,'>1?=/*,*¶ ()*' *0 , 12.' D ' 1/1?D*,' M 6-.' S '620' S7X' 01*.' / 9*8 .*' 21,' >12,6 2' 6//,)*' 81-9.' 1 ' ;A6>;.¶ '>1?=/*,*' *0 , 12' 86.' =-*^ =6-*0'D '6D-1,' M 6-.' S Q '+1/.¾' 8) >)')6.'.*+^ *-6/,?*.' D**2' -*=- 2,*0'8 ,)'.1?*' 600 , 12.' M/6,*.,' *0 , 12' -6,1' N +1/.¶ QNSX¶ '/ *' 1 ' ;A6>;.' 86.' =;D/.)*0' R 'D ' 6= - ;.' <6..12');,)*' D*.,' 6>>1;2,'1 ' ;A6>;.' .'D ' 6 2,' - L' M6==*20 L',1')' 81-9' # ' ' 5 ' 6-.' QK T' 62' *L^ ,-6>,' -1?',)' 2' 4*-?62' D ' =625*2D*-5' * ' !' ' . ' *=[¶ QKKX¶ ' ' -1>9)6;.' = = 'Q¶+¾T' & *,[*-';¾ */,*') +!= ! ' RNN¾ ;/D*-,.12' ' / ' ¾ ¾' 6' -*.C' DA,*-62'? 2..,*-'620' ?.. 126- '86.' D1-2' 6,')6?C' D*-.D;-5)' 6¾' B62¶ Q Q R'620' 86.'*0;>6,*0' 6,',Dp' < /,6- ' >60*? ' & *.,' 1 2,¶ &) /*' .*-+ 25' 6.' 1 / *;,*262,'1 '6-,//*-A')*' ?60*' 6' -*/ 5 1;.'=-1 *..12' 620' 8*2,',1',)*' ()*1/15 >6/ *? 26-A7'6,' - 2>*,12' 8)*-*')*' 5-60;6,*0' 2' Q ¶ 2',)6,' *6-')*' 86.' / >*2.*0' 620' 1-06 2*0' 6.' ?.. 126- ',1') 26¶ :*' /6D1-*0',15*,)*-' 8 ,)' - 05*?62' 1-'.*+*-6/A7*6-.' 2' =-*=6- 25' 6' -*+ .*0',-62./6, 12' 1 ',)*' >-=,;-*.' 2') 2*.*' 620' 8-1,*' + ' " '@ ' ' ' 5 ' 7 ' ' % '$ % ' 7 "' " 'M ¶ ¶ Q ' K?1X¶ :1' 0 *0' 1 ')1/*-6' ;^ 5;.,' QSK ' 7& /.12' -*.S¶ /?626>' QSN'=¶ SN ;/0**.'¶ ()*' 26?*' ;/0**' .'+6- 1;./ '0*- +*0' 620' *L=/6 2*0'D '.*+*-6/0 *-*2,'6;,)1- ,*.¶ D-6-0' 5 +*.' ' /*' *J ' ?62' 1 '4 10TJ' -¶ -6;2 *J ' '.*-+62,'1 '410%J' ;',)*'/6,*.,'620'=*-)6=.' D*.,'6;,)1- ,'5 +*.';.' '" 6.',)*' 12/ '26?*' 1 ',)*' ;/0**.'92182' 6?125' 26, +*' */,.¶ ()' 81-0' ?*62.' 6' .*>/;0*0' >1?*-TJ' 6' ;/0**',)*-*' 1-*' ' ',)*' ?62' 1 ',)*'-*>*..%J' ()' .'6>>;-6,*/ '*21-,)5)'0*^ .>-D*.',)*' ;/0**.'?10*' 1 '/ *† ,)1;5)'21,' ?129.' 1' ,)*' 8*-*' 2' 6' >*-,6 2' .*2.*' ->*)/;.*.¶ 3 ()*' >1,,.)');->) '8)*2' ,' -.,'?**.',)*'A7*' 1 ' > + / [6, 12' .'21,' 1? .)'21-'+*2'=-*/6, >6/¶ &)*2' ,)*' ?129' ;5;.,2*' 8 ,)').' 1-,' ?.. 126- *.' 2' ,)*' ,?*' 1',)*' 6L12' : *=,6->) '>6?*' 1+*-',1' -,^ 6 2' ;20*-',)*' 6;.= >*.' 1 '4-*51-A7',/A>' D.)1=' 1' 1?*' 1',1'>12+*-',)*' D6-D6- 62' 6L12.' D*' 1;20',)*' 21-,)^ *-2' =6-,' 1' ,)*' ./620' 6/-*60 ' 8*//C2 5)' //*0' 8 ,)')-.,62.' 620')-.,62' 2.,;,12.¶ ()*.*')-.C

, 62.' 8*-*' ,)*' ;/0**.7 (+)1.* >) * '.*6,' 86.' ,)*' / ,,/*' 3' ./620' 1 ' : '1-' 126' 12',)*' 8*.,*-2'>16.,'1 ' >1,/620 2' - .)' =-*.D ,*-' 1/;?D6' **/ 25') ?.*/' ., --*0' 8 ,)' ? .. 126- ' [*6/' 620' 01;D,/*..' 9218 25' ,)*' 8-*,>/A*0' >120 , 12' 1 ',)*' .6+65*' >1,.' 720' *,.' 2' ,)*' *6-' ',119' 8 ,)') ?',8*/+*' 1,)*-' ? .. 126- *. ' =6..*0' 1+*-',1' >1, 627 ( )* ' L*0',)* -' .*.,/*^ ?*2,' 12' ,)*' / .,/*' ./620' A; .,' 26?*0' 620' -1?' ,)6,' =1 2,' D*>6?*' ,)*' ? .. 126- *.' 1 ' 6// >1,/620' 620' *+*2' =*2*,-6,*0' 2,1' 25/620' * 1-*',)*' *20' 1 ',)*' S,)' >*2,;-',)* ')60' //*0',)*' >1;2,-'8 ,)',)* -' 2^ .,,;, 12.' 620 .;DA*>,*0' ,' 6,' /*6.,' 21? 26// ' ,1')-.,' 2+ ,*0',1' 25/620' D ' .86/0'9 25'1 ' 1-^ ,);?D*-/620',1'=-*6>)',)*' 41.=*/,1') .'=*1=/*',)* ' .*2,'4*-?62' 8)1' 6/*0' D*>6;.*' 1 ',11' 5-*6,'6;.,*-^ , ' 1 ' D*)6+ 1-' 620',)*2' 062' 8)1' 8 ,)1;,' 9218^ 25',)*' =*1=/* .'/625;65*' .;>>**0*0' 620'=-1+*0') ?^ .*/' 12*' 1 ',)*' 21D/*.,'1 ' ? .. 126- *.' ( )*' =*1=/*' 2' ,)*' .1;,)' 1 ' 25/620' >12+*-,*0' D ' ;5;.,2*' 620') .' 6.. .,62,.' 620',)1.*' 2',)*' 21-,)' 8)1' D60' D**2' 812' D ' ;/0**' /6D1-' .112' ?*,'6.')-., 62' >12_;*.,' 60^ +62>*0' -1?' D1,)' .0*.' 620' 8)*2',)*' >6?*' ,15*,)^ *-' ,' 86.' .112' .**2',)6,' :1?62' 620' ;/0**')-.,^ 62 , ' +*-' 0*> 0*0/ ' 0 *-*0' 2' 6' 5-*6,' ?62 ' -*^ .=*>,.' ( )*' ;/0**.' 1-',)*' ?1..;=6-,')60' 6' .?=/*' 620' =-?,+*' 1-?' 1 ')-., 62, ' 8) /*:1?*' =-*^ .*2,*0' 6' +6.,'6>>;?;/6, 12' 1 ' .;=*-.,, 12.' 620' 86.' 6--6 *0' 2')*-' 8*//C92182' =1?=' ( )*' -*.;/,' 86.' ,)6,' 2' 25/620',)*' ;/0**' .112' 56+*'=/6>*',1',)*' 1C' ?62' 620' -*, -*0',1') ' 1-,)*-2')1?*' 1/;?D6' 211' 01;D,'>)1.*',)*' / ,,/*' ./620' 1 ' 126' 6.' 6'=/6>*' 1 '.6 *^ , ' -1?' D6-D6- 62'6,,6>9'6.' 6/.1'D*>6;.*' ,' 86.' 2*6-' ,1' -*/620' 8)*2>*')*')60'D-1;5),') .'0 + 2*' ?*..65*' *. 0*.',)*' /12*/ 2*..'1 '6'.?6// ./620' 2',)*' .*6' 86. 6+1-6D/*' '?*0 ,6, 12' 620' 6>>1-0*0' 8 ,)',)*' 6.>*, >' ,*20*2> *.'8)>)'6,'/*6.,' " ',)*' D*.,'?*2'1',)1.* 65*.' ( )*' 2.,;,, 12' .*,' ;=' D ' 1/;?D6') 6.' D**2' >6//*0' 6' ?126.,*- 'D;,' 2',-;,)',)60' 21' >/6 $',1' ,)6,' 26?*' (-;*',)*' ?*?D*-.' 1',)*' >1?? ;2,' / +*0' 2' >*//.C,1' 8)>)',)*' -*, -*0' 1-' 0*+1, 12' 620' .,;0 ' D;,' ,) .' 21' ?1-*' ?60*' ,)*?' ?129.',)62' 6' . ? /6-'/ *' ?69*.'?129.'1',)*1/15 >6/..;0*2..'1';-' 182' 06 ( )*' ;/0**' -*>/;.*.' 8*-*' 21,' =/*05*0',1' >*/ D6> 1' ?62 '1',)*?' 8*-*' ?6-- *0' ?62 '1',)*?' 8*-*'.;>>**0*0' 2'1 >*D ',)*' -' 182'.12.',)*' 8*-*' 21,'0*0 >6,*0' 1-'/ *',1',)*' -'>6// 25'D;,'8* *' -**' 6,' 62 ',?*',1'>)625*' ,' 1-'621,)*-' ( )*' -' 6?/*.'0 0' 21,'/ +*' 8 ,) 2',)*'.6>-*0'*2>/1. *'D;,',)*') ;.D620.' ,)*-' 81-9'8 ,) 2'D* 25'012*'=6..*0'1;,',1'.=*20',)*' -*..' 1 ',)*-' ,?*' 8 ,)',)*-' 6? /*, ' 1-' 20**0' 86.',)*' 6 ?' 1 ',)*' 2.,;,, 12' 6,' 6// 9 20-*0',1',)6,' 1 '?126>) .?( )*' ?129' 5*2*-6// ' -*, -*.' 1-') .' 182' ?=-1+*?*2,' .1/*/)*' .' 8*6- ' 1 ',)*' 81-/0' 620' 8 //)6+*'21' ?1-*'>12,6>,'8 ,)',' : *'-*21;2>*.' ,' ( )*' ;A0**' 8*2',1 126',)6,' 2' _; *,' 8 ,)',)'?*0^ ,6, 12' .,;0 '620'=-6 *-')*' ? 5),' ') ?.*/' 1-'51^ 25'=;,' 2,1',)*' 81-/0'6.'6'? .. 126-EW 20**0' 126' 86.' 6' 5-*6,*? .. 12' 2.,,;,*' 8)*-*' =-*6>)*-.' 8*-*' -6 2*0' 8)1' *+625*/ [*0',)*' -;0*',-D*.' 1 ' >1,/620' 2'6' *-' .)1-',?*' (1')6+*'012*'.;>)'6' 81-9'6.' ,) .' 2' /*..',)62')6/'6'>*2,;- ' ?=/*.'6=1.,1/>'6>^ ,+,'=;-,'620'.;>>*..' & ,)',)*'<L>*6>=,12'1',)*' =- 2> =6/?*2',)* '?;.,')6+*'D**2?;>)'?1-*'1;,'1 ',)*.*' ?*2' (-6>*.'1',)*'.>)11/.'620' >);->)*.',)* '*.,6D/.)*0'6-*' 1;20'6//1+*-' >1,/620' ()*'-*6.12'1',) .' -**01?' -1?' 1? .)' 6.>*,>.?' 7' ?6 'D*' 1;20'6,'/*6.,' 2'=6-,' 2',)*'01>,-2*.'1';-56,1- '26'.6 2,'81-^ .) =' 21' 81-9.'1 '.;=*-*-156, 12' 21' 6;- >;/6-'>12 *.^ . 12' 1-'=*262>*' 1-'6D.1/;, 12' 21' ?6..' 21',-62.;D(.,62, 6, 12' 21' >)- .A2J' 2' D6=, .?' 21' =- *.,)110' 620' 21',) -0' 1-0*-' MD .)1=.X ( )*' 92*8' 21,) 25' 1 '62 '6;,)1- ,6, +*' -;/*' *L>*=;',)*' : 1/' >- =,;-*.' ' ( )*.*' 8*-*')*/0',1'D*',)*' 12*' .,6206-0'1 ',-;,)'620' 8*-*' ?60*' D ',)*' ? .. 126- *.' 6' .;DA*>,'1 '>/1.*' 620' >12.,62,' .,;0 ' 1/;?D6 .' 182')1?*' 81-9' 620',)6,' 1 ') .'0 .> =/*.' 86.',-62.>- D 25',)*' >- =,;-*.' ( )*.* *6-/ ' ? .. 126- *.' 8*-*',)1-1;5)/ ' D/ >6/ 1/;?^ D6 .'/ *' DA' 06?262' -*=-*.*2,.') ?' 2' 6/-61 ,'*+*- ' =65*' 6.' 6?/6-' 8 ,)',)*' & 1-0' 1 ' 410' 620' -*60 ',1' _;1,*','12'6//1>>6.12.'6.'1 '.;=-*?*' 6;,)1-, %J'%%' 3( )*' 5-*6,' .;DA*>,' 1 ',)*' -',*6>) 25' 86.',)*' .?=/1' ,-;,)'1',)*' 41.=*/1 ' .6/+6, 12 ,' 86.' 1 " ' 8 (' ,)*' & 1-0' 1 ' 410 06?262' .6 .' 1 ' 1/;?D6',)6,' -1?') .' D1)110')*' 86.' 2..-;>,*0' 2',)*' /6+*' 1 ') -.,J' ( )*' .= -,' 1 ',)*' ;/0*62');->)' ?6 ' .;,6D/ '620'-5), ;// 'D*' 0*.>-D*0'6.'62'*+625*/ >6/' .= -,'D*>6;.*' ,' 86.' -**' 620' 20*=*20*2,'1 1-2*1' 620' 8)*2',' 620',)*' =6=6/);->)'>6?*' 2,1' >12,6>,' ,'6/86 .' 620'1D., 26,*/ '-*=;0 6,*0',.'6;,)1-, ';2^ 0*-.,110',)*' >-=,;-*.' 2',)*-'1-5 26/,*L,.' 7)*-C' *+*-',)*' >6?*',-62./6,*0',)*?'1-6// ' 620' 2' 8-, 25' 2,1',)*' /625;65*' 1 ',)*' >1;2,-'*L=/6 2 25' ,)*?',1',)*' 2)6D ,62,.'*L)1-, 25',)*?',1' 0 / 5*2, 620'-*5;/6-' D/*'-*60 25 F',)*' >-=,;-*.' 8*-*' ?1-*',1',)*?',)62'6'>10*L'1'66,)1-,6, +*'01*-?*.' 1 ' 6 ,) ( )*' 8*-*',)*' / + 25' 81-0' 1 ')-.,' 2' ,)*' ?1..'*6-2*.,' ?622*-',)*' =-*6>)*0',)*' 26,;-6/' 2D1-2' 26D / , ' 1 ' ?62' 1-' 5110',)*' 6,12 25' 0*6,)' 1 ')-.,T A;.,, >6, 12'8 ,)1;,'6// ?*-',' 1 '81-9.T ,)*' 81-,)/*..2*..'*.=*> 6// ' 1 '6//?*-*' 1;,86-0' 81-9.' T 620',)*' 2*>*.., '1 ',)*' 2*8'D -,)J M D-6-0X ( )*.*' + *8.' 1 '/ *' 620' 01>,-2*'-*+*6/.; > *2,/ ',)7-*6C' .12' 8) ',)*' ;/0**.' 8*-*' ? .. 126- *.' -6,)*-',)62' ?129. ( )*',-;,).' 1 ',)*' 417*/ =;-*' 620' . ?=/*' A;.,'6.',)*' 8622*0',)*')*6-,.' 1 ',)*' 6=1.,/*.')60' =1..*.. 12' 1 ',)*?7' 620' 6//,/*, ' 81-9' 86.',1' ?69*' ?*2' **/ 620' 6>>*=;',)*?* ( )*-' ,)*1-' 1 ')->) 51+*-2?*2,'86.'+*-' .?=/* ( )*' 2.,;,, 12' 6,' 126' 86.';20*-',)*=-*.0*2>' 1 '6'=,*.D ,*-'>6//*0'6'=-*.^ D ,*-'6DD1,'8)1')60'6..1> 6,*0'8 ,)') ?',*8/+*1,)^ *-'=-*.D ,*-.' 2'>6.*'1 '6'+6>62>' 2',)*')*60.)=' ,)*.*' D-*,)-*2' */*>,*0',)*-'6DD1, ( )6,')*' 86.'6' =-*.D ,*-'. ?=/ ',)*-*'>62'D*' 21'01;D, *0*' 8)1' D*/125*0',1',)*' 1?.)');->)') ?.*/'=*=,12.',6,' 6'+*-' .,-625*',) 25' ,)6,'6' ?62' 8)1' .'?*-*/' 6' =-*.D ,*-'.)1;/0'51+*-27'0 1>*.*'620')6+*'+*2'D .)^ 1=.';20*-') ?J' ( )*',-;,)' .',)6,',)*' ?.. 126- *.' .*2,'1;,'-1?',)*.*' ;/0**'.*? 26-*.'8,-*'6==1 2,*0' 620' 1-06 2*0' =6.,1-'1 ',)*' >);->)*.',)*' 1 20*0' 620',)*'=6.,1-'1',)*' >);->)'86.',)*' 1+*-.**-'1 ',' *,)*' D .)1= ( )*'=-*.D ,*-'6DD1,',)*-* 1-*')70'1-^ 06 2*0' 62' */0*-'D;,'D '6==1 2,?*2,',1' 6'=6-.)')60' ?60*')?'6'D .)1= ( )* '*+ 0*2,/ '92*8'21,) 25'1 ',)*'0.,2>, 12'D*.8**2',)*'1-0*-'1'=-*.D ,*-'620',)6,' 1'D.)1= ,*-',)*' .;>>*..' 1 ;5;.,2*' 620') .' ?129.' 2' 25/620',)*' ;/0**.')60'.);,',)*?.*/+*.' ;=' 8 ,)2',)*'/?,.'1 >1,/620'620')60'.-*. .,*0' 1-' >*2,;-*Y'6//,)*' 1-.'1 1?*',1'8 2',)*?'1+*-* ,'/6.,')18*+*-',)* '8*-*'1+*-,)-182'D ',)* -'182' -;/*-.* <6-56-*,',)*'06;5),*-'1'& // 6?',)*' 12^ _;*-1-',)*' ;**2'1' /6/>1/?' 6)?1-*'0*+1,*0',1',)*' >6;.*'1' 1?*'21,6D/*' 1-'=*, '1'=18*-;/?20'620' .9/;/2',)*'?6265*?*2,'1'1,)*-.'.*,')*-')*6-,';=12' *L>)625 25',)*' ;/0** 1-',)*' 1? .)');->)'2' >1,^ /620)*' 51,',)*' ;/0**'=-*.D ,*-.',15*,)*-7' 620' 1-',)-*'*'06 .'0.>;..*0',)*'?6,,*-'8 ,)',)*?' 2' =*-^ .12)*.;>>**0*0'D '=*-.;6.12'620'6-, >*' ( ).' 86.' 2',)*'/6,,*-'=6-,' 1',)*' 1' ,)' >*2,;-W ,'86.' 21,')18*+*-',/',)*' N,)'>*2,;-',)6,' ;/0** .?'86.' >1?=/*.*/' 1+*-,;-2*0' 620' 1?62 .?' *.,6D/ .)*0' 6 ' ,' .' ?1-*',)62'=-1D6D/*',)6,' ;/0** .?'8 ,)',.' . ?=/*' 620' =18*- ;/ 41.=*/ 2/;*2>*' >12, 2;*0',1' 1-?'.'620' 2 ..,-6, 12.')60'D**2'D;-*0'D*2*6,)',)*' 2*-' 1 ' ,-;?=)62,' 1?62 .?' ( )*-*' 86.' 6' -*60 2*..' 6?125',)*' >1,>)',1'*?D-6>*',)*' * 1-?6, 12'8)*2',' >6?*'8)>)',15*,)*-' 8 ,)',)* -' ,;-0' *+625*/>6/' >)6-6>,*-'-*?20.',)*')<> 6;>)/62'-" '6 '$ "' " "1(

from the 1st to the 12th centuries (Edinb. 1865, 8vo); Alexander, *Iona* (Edinb. 1866); Ebrard, *Kirchen-und Dogmengeschichte* (4 vols., vol. ii); *Zeitschr. f. d. hist. Theol.* 1862, 1863; King, *The Culdees and their Remains*, 1864; *Meth. Quart. Rev.* Oct. 1861; *Brit. and For. Ev. Rev.* Jan. 1866; *Princeton Rev.* Jan. 1867; *The Church of Iona*, by the Bishop of Argyll, 1866. See IONA.

Culon (Κουλόν v. r. Κουλόμ, Jerome *Caulon*), the fifth named of the group of eleven cities added by the Septuagint to those in the mountains of Judah (between ver. 59 and 60 of Josh. xv); thought to be the modern *Kulonieh*, a trace of which appears in the notice of the Crusades (Wilken, *Gesch. der Kreuz.* iv, 509), a village with ruins about 1½ h. W. of Jerusalem towards Jaffa (Van de Velde, *Memoir*, p. 305); but, as this lay beyond the border of Judah (Schwarz, *Palest.* p. 118), the authenticity of the names in the Sept. being, moreover, dubious (Wilson, *Bible Lands*, ii, 266 n.), the place perhaps only represents some station or *Colonia* of the Romans (Robinson, *Later Res.* p. 158).

Cultus. See WORSHIP.

Culverwell, NATHANIEL, M.A., a pious and learned writer. He was fellow of Emmanuel College, Cambridge, and died about 1650. We have of him an *Elegant and learned Discourse on the Light of Nature* (on Prov. xx, 27), with several other treatises (Lond. 1661, 4to). The *Light of Nature* abounds in striking thoughts, and has passages of rare eloquence.

Cumanus, VENTIDIUS, procurator of Judæa immediately next to Alexander (a short time after Fadus), and partly in conjunction with Felix (q. v.), B.C. 49–53; under his administration the commotions broke out that led eventually to the final war with the Romans (Josephus, *Ant.* xx, 5, 2 and 3; 6, 1–3; *War*, ii, 12, 1–7).

Cumberland Presbyterian Church. See PRESBYTERIAN (CUMBERLAND) CHURCH.

Cumberland Presbyterians. See PRESBYTERIANS.

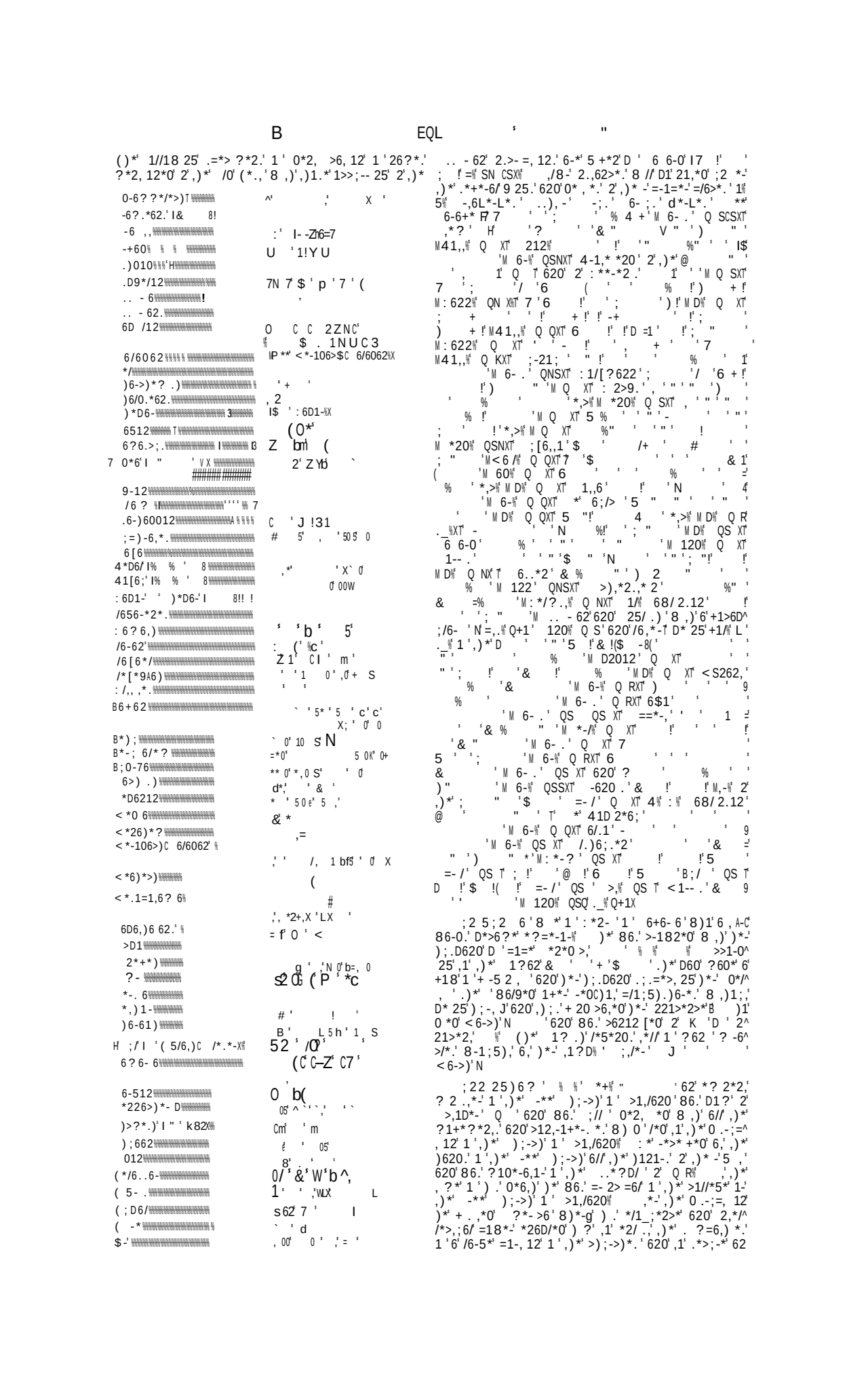
Cumberland, RICHARD, D.D., bishop of Peterborough, a learned divine and archæologist, was born in London in 1632, and was educated at St. Paul's School, and Magdalen College, Cambridge. He was made rector of Brampton, and in 1667 vicar of All Hallows, Stamford. In 1691 he was raised to the see of Peterborough without any solicitation on his part. He was previously known by his treatise *De Legibus Naturæ* (Lond. 1672, 4to), in answer to Hobbes, and by his *Essay on Jewish Weights and Measures* (London, 1686, 8vo). He was indefatigable in performing his episcopal duties. Being advised, on account of his age and infirm state, to relax a little, he replied, "It is better to wear out than rust out." After his death appeared his *Origines Gentium* (Lond. 1724, 8vo), and his translation of *Sanchoniatho's Phœnician History* (London, 1720, 8vo). At the age of eighty-three, Dr. Cumberland, having been presented by Dr. Wilkins with a copy of his Coptic Testament, then just published, commenced, like another Cato, the study of Coptic. "At this age," says Mr. Payne, "he mastered the language, and went through great part of this version, and would often give me excellent hints and remarks as he proceeded in reading of it." He died Oct. 9, 1718. Cumberland's theory of morals is set forth in his treatise *De Legibus Naturæ*. Tendency to effect the general good is made the standard of morality. To endeavor to effect the greatest amount of general good is the one great duty, or the one great "law of nature;" and we know, according to Cumberland, that it is a duty or law of nature, or law of God, because we know that an individual derives the greatest happiness from the exercise of benevolence, and that God desires the greatest possible happiness of all his creatures. Carrying out the fundamental principle that the greatest general good is to be sought, he deduces the several particular duties or particular "laws of nature." He founds government upon, and tests it by the same principle. An abridged translation of the work was published by Tyrrel in 1701. Maxwell, an Irish clergyman, published a translation in 1727; Barbeyrac published a French version in 1744. A third English translation, by the Rev. John Towers, D.D., appeared in 1750. On Cumberland as a moralist, see Mackintosh, *Hist. of Ethical Philosophy*, p. 70; Whewell, *Hist. of Moral Philosophy*, p. 52.

Cu'mi (κοῦμι), a mode of Græcizing the Heb. imperative קוּמִי (*ku'mi*), signifying *rise*, as it is immediately explained (Mark v, 41).

Cumin (כַּמּוֹן, *kammon'*, lit. a *condiment*, from its use; Greek κύμινον; and names of similar sound in all the Oriental dialects) is an umbelliferous plant, mentioned both in the Old and New Testaments, and, like the dill and the coriander, continues to be cultivated in modern as it was in ancient times in Eastern countries (Pliny, xix, 47). These are similar to and used for many of the same purposes as the anise

Cumin (*Cuminum Cyminum*), with enlarged view of the Flower, Capsule, and semisection of the last.

and caraway, which supply their place, and are more common in Europe. All these plants produce fruits, commonly called seeds, which abound in essential oil of a more or less grateful flavor, and warm, stimulating nature; hence they were employed in ancient as in modern times both as condiments (Pliny, xix, 8; Apicius, i, 32; iii, 18; Polyæn. iv, 3, 32) and as medicines (Mishna, *Shabb.* xix, 2). A native of Upper Egypt and Ethiopia, it is still extensively cultivated in Sicily and Malta. It would appear to have been a favorite herb among the Hebrews, and as late as the last century it retained a place of some importance in pharmacy (see Ehrmann, *De cumino*, Argent. 1733). Cumin is first mentioned in Isaiah (xxviii, 25): "When he (the ploughman) hath made plain the face thereof, doth he not cast abroad the fitches, and scatter the *cumin*?" showing that it was extensively cultivated, as it is in the present day, in Eastern countries, as far even as India. In the south of Europe it is also cultivated to some extent. In the above chapter of Isaiah (ver. 27) cumin is again mentioned: "For the fitches are not threshed with a threshing instrument, neither is a cart-wheel turned about upon the *cumin*; but the fitches are beaten out with a staff, and the *cumin* with a rod." This is most applicable to the fruit of the common cumin, which, when ripe, may be separated from the stalk with the slightest stroke, and would be completely destroyed by the turning round of a wheel, which, bruising the seed, would press out the oil on which its virtues depend (see Dioscor. iii.



6?1;2,'1 '?6,*- 6/ 6 0'6,',D6,', ?*'5-*6,/ '2**0*0'D ' ,)*' -**');->)% : *'0 *0'6,'D .')1;.*' 2' 0 2D;-5) I' >1,/620' *>*?D*-' QS % : .' =- 2> =6/ 8- , 25.' 8*-*' >1//*>,*0'6 ,*-') .' 0*6,)' D ') .' / ,*-6- ' *L*>;^ ,1-..' 6.' 1//187' + [%% -" '5 $' " ' -" ' '" '5 'M 0 2D% QSK"Q+1X' ' ' " "' % 'M 0 2D% QSN'Q+1X' # '-" =' 'M 0 2D% QS 'K' +1/.% Q+1X%' ()*' -.',81' 81-9.' >12. .',>) * / '1 ' -% ;22 25)6?.' *+ *8' 6-, >/*.' ,)*' /6.,'1 ') .' /*>,;-*.' 2',)*' -**');->)' 1//*5*% ()* '?62 *.',/6-5*' /*6-2 25'5-*6,'5-6.=' 1 ',)*1/15^ >6/ .> *2>*'D1,)') .,1- >6/ 620' 01>,- 26/' 620' 6',)1-^ 1;5)/ '*+625*/ >6/ .= -,% 2' -*56-0',1');->)'51+^ *-2?*2,' -% ;22 25)6?'86.' 6' -*.D ,*- 62' D*^ / *+ 25',)6,')- .,')6.'>1?? ,,*0',)*' 51+*-2?*2,' 1 ') .');->)' 21,',1' >125-*56, 12.' 21-',1' =-*/6, >' D .)1=.' D;,',1' =-*.D ,*-.' 1-' */0*-.'1,)*-8 .*' >6//*0' D .)1=.% ;,'6D1+*' 6//')*' 86.' 6' 6/+ 2 .,'?6 2^ ,6 2 25',)6,' ?62' .' D '26,;-*')*/=/*../'/1.,'620' .' 620' >62' D*' .6+*0'12/ 'D ',)*' -**' 620' .1+*-* 52'/1+*' 1 '410' 7+ 25' .6/+6, 12',1' 8)1?')*' 8 //' 2' 8),' ?622*-')*' 8 A/' D*>6;.*')*' 8 //.' ,% :*' 8 //'D*'-*>15^ 2 .*0' 2') .,1- '21,'6.' 6' -**');->)?62'21-'6.' 6' -*.D ,*- 62' D;,' 6.' 6' 5-*6, 6/+ 2 .,'1>>;= 25' 6' =/6>*' 2') .' 5*2*-6, 12' .;>)' 6.' 6/+ 2' 620' (;--*C' , 2*' 1>>;= *0' 2',)* -.% ()*' 6/+ 2 .,>' . .,*?' -% ;22 25)6?')1/0.' 21,' =-1+ . 126// '6.' 6')6/ C86 ')1;.*',1' .1?*' ?1-*' >1?=-*)*2. +*' . .,*?' '% 1' `/11? 25' 2',)*' ;,;-* 'D;,'0* 2 ,*/ '6.' 8)6,')6.' 3D**2' 6.>*-,6 2*0',1' D*' "' . .,*?'-*+*6/*0' 2' 410 .' &1-0' " ' '% ' *L) D , 12' 1 '6//',)*' >- =,;-*' 6>,.' -*56-0 25' 410' 620' ?62',)*' 12/ '.>- =,;-6/ 0*^ .>- =, 12' 1 '8)6,'410'6>,;6// ' .' '620')6.'012*'620' .' 01 25' 2') .'-*/6, 12',1'-6, 126/>-*6,;-*.'620'.=*> 6/^ / ' 2' 1-0*-',1'?62 .'.6/+6, 12% : *',)*-* 1-*' ?? 1+6^ D/ '-*..,' 2',)*' >12+ >, 12',)6,'21'218'0 .>1+*-E'>62' D*' ?60*' 2',)*1/15 T',)6,'62E'=-*,*20*0'21+*/, ' .' > ,)*-' 6/+ 2 .?';20*-'6'2*8' 1-?'1-'.1?*'1',)*'1/0' *--1-.' 2'0 .5; .*' 8)>)')6+*' D**2' 60+62>*0'656 2.,' 6/+ 2 .?'620' 8)>)' ' %%% ',1' 6/+ 2 .?'6-*' % W 1'.)182',1' 2+1/+*' 6'/ *%J ' ; ' '@ !' D6 '5 1' B62' QSN'=% RN' ._%T & /.12' !'& 1' QSN'=% SNT' '5 1' =- /' QSN'=%K QT ; "'5 1' *D% QSN% ;='M;.;6// ' '"8 '=-1='6' % :' *!'0!' 4' % 1'6' , ' G'0*21,*.'1-5 26// '6' 8 2*C>;=' M4*2% L/' CK X'+6-1;.' 1-?.'1'8)>)'1'0 *-*2,' ?6,*-6/.'6 *'0*/2*7*0'12',)*' 5 =, 62'620' .. -^ 62'?12;?*2,.% *** " ! ()*'>;=.'1',)*'B*8.' 8)*,)*-'1'?*,6/1-'*6-,)*286-*'8*-*'=1.. D/ 'D1-^ -18*0' 2'=1 2,'1'.)6=*'620'0*. 52' -1?' 5 =,'620' -=?',)*')>*2>62.'8)1'8*-*' >*/*D-6,*0' 2',)6,' D-62>)'1'81-9?62.) =' MVV% LL ' NT , ! +'S ' S Q% ?125',)*' 5 =, 62.',)*' 1-?.'1'>;=.'620' +6.*.'8*-*'+*- '+6- *0',)*'=6 2, 25.';=12',)*',1?D.' -*=-*.*2, 25'?62 '1'?1.','*/*562,'0*. 52',)1;5)'1,)C *-.'6-*'*_;6// '0* >*2,' 2',)*'=-1=*-, *.'1'1-?'620' =-1=1=-, 12% ()*' 1-?.' ;.*0' 0;- 25',)*' 1;-,)'620' 1,)*-'*6-/ '0 26.,*.'M ' % %X'>12, 2;*0',1'D*'>1?^ ?12',1'6'/6,*'06,*'M *2- >9'6 % ' '- ' ' " =' +$' 120% Q '=% QX% ()*-*' 6-*' 21,'62E' -*=-*^ .*2,6, 12.'1'>;=.'/9*',)*')*'60'1'62'62?6/'M 121? ' 7 "' ' ' 1' NO' *0,%<'K K SX% <62' 1',)*' 5 =, 62'+6.*.'>;=.'620'D18/.' 8*-*'1'51/0' M:*-10' ' X'620'. /+*-'M4*2% L/ +'KT' >1?=% ;?% + 'Q X'.1?*'D* 25'- >)/ '.,;00*0'8,)'=-*> 1;.'.,12*.' 2/6 0'8,)'+,-* *0'.;D.,62>*.' 2'D- // 62,'>1/1-.'620' *+*2'*26?*//*0% 2' 1/1?12.', ?*'6//).'0- 29 25C' +*..*/.' 8*-*'1'51/0'212*'1'. /+*-'M ' 25.' L'K X% 6D /12' .'>1?=6-*0',1'6'51/0*2'>;='MB*-%/' X% .^ . -62'>;=.' -1?')1-.6D60'620' ?-1;0' 8*-*' 1' 51/0'620'D-12[*' M 6 6A-0'7 "' 'KNST' 7 !' ' ; '=% S T 121?'7 "'='% N X'6.'8*//6.'1' 5/6..'620'=1,,*- % ()*' 8*-*'=*-)6=.' 1')>*2>62' 81-9?62.)='-1?'8)>)'.1;->*' D1,)' 1/1?12' 620' ,)*' .. -62' ?126->)'=1.. D/ '0*- +*0' D1,)',)* -' 81-9?*2' 620',)*' 81-9.',)*?.*/+*.% ()*'>;=.'620' 1,)*-'+*..*/.'D-1;5),',1' 6D77/1=' D ' *D;>)602*[[6-

2> *2,' .. -62' ;=.& '620'K% 12C)*60*0'M,)*/6,.*-'8,)')620/*XT' N% >;/=,;-*0T' % *0'=1,,*- T' % 6 2,*0T' ' % -12[*%

?6',),;.')6+*'D**2'1'1*2>62'1-5 2'M 62%+'KX' **'8 M$ ' 2',)*'D6.C-*/*.',6,' *-.*=1/.'?62' 5;-*.'6-*' -*=-*.*2,*0'D*6-25'>;=.'1-'+6.*.C+7>)' ?6' 6 -/ 'D*',69*2'6.', =*.'1',)*'+*..*/.'1',)6,'.1-,' 0*.>-D*0'2',)*'D119'1' .,)*-'M .,D% ' T' *D;)-' - ' '/ 4T)6-0 2'N '+ 'KSQ'=% + X' ()*'5-*6,'/6+*-'1-' .*6 J'86.'?60*'8,)'6'-?'/9*' ,)*'*05*'1'6'>;=' I 8' '8,)'/18*-.'1'/ /*.J'M ' 25.' + 'KSX'6' 1-?'8)>)' ,)*' *-.*=1/,62' >;=. -*.*2)A*' MB6)2' '->7% 7 - g X% ?/6-'/6-5*' +6.*.')6+*'D**2'1;20' -*=-*.*2,*0'6,')1-.6^ D60'M 1,,6'=% LL+ X% ()*' ;.*'1'51/0'620' ./+*-'>;=.'86.' 2,-1C o 0;>*0'2,14-**>*'6 ,*-',)*', ?*'1' /*L620*-'M ,)*2% + 'KKR'KN T L ' S' S T ->)'& ' !((E' RX% ()*>;=.'1',)*' % 8' 8*-*' 1 ,*2' 21' 01;D,' 1-?*0'12'4-**9'620' 1?62' ?10*/.% M **' ? ,)' ' ' !'& 4!' %+% 6,*-6%X ()*'8*-*'.1?*,?*.'1'51/0 M *+%L+ ' X% ' ? ,)'.'+%T @@@@@ 6 -D6 -2'.% +% ()*' >1?C 7 C ?12' 6.,*-2'0- 29 25C>;=' .' j' é 1?=*2% 1'D-6..'620' -*_;*2,/ ')6.'0*+>*.'620' .1?*,?*.' .*2,*2>*.' -1?',)*' 1-62' *25-6+*0' 12',)*' 2. 0*' M 62*' !'6 !' 'KKKX% .',)*' <1./*?'/68')18*+^ *-' 1-D 0.',)*' 0- 29 25'1'8 2*',1'5110' <1)6?2*^ 062.',)*'>1?12'D*+*,65*' 2' ,'=/6>*' .'>1 **'8)>)' .' 2+6- 6D/ '1 *-*0',1'+ . ,1-.% ()*'3>1 **'I" " " %C*%,)*'0- 29%' .'?60*'+*- '.,-125'620'8,)1;',.;56-' 1-' ?/9% ()*'>1 **C>;=' M8)>)' .'>6//*0' . .?6//'5*2*-6// 'B 1/0 25'21,'_;,*'62'1;2>*'620'6')6/

2> *2,' 5 =, 62' - 29 25C+*..*/.& K N% 6.*'51D/*,'620' >;=' -1?' =6 2- 25.T ' 1-->*/6 2T % 4-*%*2 *6-,)*286-*'T S' 416-.*' =1,,*- T F & 110T Q% --6512 ,*T R% 6;>*-' 1' *6-,)*286 *%

Modern Oriental Cups.

of liquid. It is of porcelain or Dutch-ware, and, being without a handle, is placed within another cup (called *zarf*) of silver or brass, according to the circumstances of the owner, and both in shape and size nearly like an egg-cup. In a full service there are ten *fingans* and *zarfs* of uniform kinds, and often another *fingan* and *zarf* of a superior kind for the master of the house or for a distinguished guest. In the accompanying sketch, the coffee-pot (*bekreg* or *bakrag*) and the *zarfs* and tray are of silver, and are represented on a scale of one eighth of the real size. Below this set are a similar *zarf* and *fingan*, on a scale of one fourth, and a brass *zarf*, with the *fingan* placed in it. Some *zarfs* are of plain or gilt silver filigree, and a few opulent persons have them of gold. Many Moslems, however, religiously disallow all utensils of gold and of silver (Lane, *Mod. Eg.* i, 205). See CUP-BEARER.

Modern Oriental Coffee-service.

The practice of divining by means of a cup (גָּבִיעַ, *gabi'a*, Gen. xliv, 2-17; a *goblet*, distinguished from the preceding or smaller cups used in drinking; rendered "pot" in Jer. xxxv, 5; spoken of the calix-form "bowls" of the golden candlestick, Exod. xxv, 31-34; xxxviii, 17-20) was a practice of great antiquity in the East. We read in early Persian authors of the mystical cup of Jemshid (Bonomi, *Nineveh*, 3d ed. p. 306), which was imagined to display all the occurrences on the face of the globe (Tieroff, *De Scypho Josephi*, Jen. 1657; Tittel, *id.* Tor. 1727). See DIVINATION. The bronze cup, with the sacred beetle engraved in the bottom, found by Layard among the ruins of Nimroud, may have been used for such a purpose (*Nineveh and Babylon*, p. 157). Κόνδυ, the word used in Gen. by the Sept., occurs in Hipparchus (*ap. Athen.* p. 478, A), and is curiously, like the Indian *kundi*, a sacred Indian cup (Boblen on *Gen.* p. 403; Kalisch, *Comment.* p. 673). In Isa. xxii, 24, the word translated "cup" is אַגָּן (*aggan'*, literally a trough for *washing* garments), and signifies a *laver* or basin (as it is rendered in Exod. xxiv, 6; "goblet," Cant. vii, 2). The "*cup* of trembling" (סַף, *saph*, elsewhere "basin" or "bowl") signifies a broad convex *dish*, such as is easily made to rock or vibrate. The "cups" referred to in 1 Chron. xxviii, 17, were the כָּסָוֹת (*kesavoth'*), or broad *bowls* for libation (elsewhere improperly rendered "covers," Exod. xxv, 29; xxxviii, 16; Num. iv, 7). Such vessels appear in the hands of the Assyrian king on the monuments, apparently in festive

Ancient Assyrian Cup of Libation after a Bull-hunt.

or religious drinking after public exploits (Bonomi, *Nineveh*, p. 252). In the Apocrypha we find the sacred vessels of Jehovah called *σπονδεῖα*, *goblets* (1 Esd. ii, 13. "In their *cups*" 1 Esd. iii, 22, is a rendering for *ὅταν πίνωσι*, *when they drink*). See BASIN; BOWL; DISH; VASE; VIAL, etc.

"The word 'cup' is used in both Testaments in some curious metaphorical phrases. Such are *the cup of salvation* (Psa. cxvi, 13), which Grotius, after Kimchi, explains as 'poculum gratiarum actionis,' a cup of wine lifted in thanksgiving to God (comp. Matt. xxvi, 27). That it alludes to a paschal *libation* cannot be proved; and that it was understood by the Jews to be expressive of gratitude we may see from 3 Macc. vi, 27, where the Jews offer 'cups of salvation' in token of deliverance. In Jer. xvi, 7 we have the term '*cup of consolation*,' which is a reference to the wine drunk at the *περιδεῖπνα*, or funeral feasts of the Jews (2 Sam. iii, 35; Prov. xxxi, 6; Joseph. *War*, ii, 1). In 1 Cor. x, 16, we find the well-known expression '*cup of blessing*' (*ποτήριον τῆς εὐλογίας*), contrasted (ver. 21) with the '*cup of devils*.' The sacramental cup is called the cup of blessing because of the blessing pronounced over it (Matt. xxvi, 27; Luke xxii, 17; see Lightfoot, *Hor. Hebr.* in loc.). No doubt Paul uses the expression with a reference to the Jewish 'cup of blessing' (כּוֹס שֶׁל בְּרָכָה), the third of the *four* cups drunk by the Jews at their Paschal feast (Schöttgen, *Hor. Hebr.* in 1 Cor.; Jahn, *Bibl. Arch.* § 353), but it is scarcely necessary to add that to this Jewish custom our Lord, in his solemn institution of the Lord's Supper, gave an infinitely nobler and diviner significance (Buxtorf, *De Sacrâ Cenâ*, § 46, p. 310). Indeed, of itself, the *Jewish* custom was liable to abuse, and similar abuses arose even in Christian times (Augustine, *Serm.* cxxxii, *de tempore*; Carpzov, *App. Critic*, p. 380 sq.). See PASSOVER. In Psa. xi, 5; xvi, 5, 'the portion of *the cup*' is a general expression for the condition of life, either prosperous or miserable (Psa. xxiii, 5). A *cup* is also in Scripture the natural type of sensual allurement (Jer. li, 7; Prov. xxiii, 31; Rev. xvii, 4; xviii, 6). See BANQUET.

Ancient Assyrian Mystical Cup.

"But in by far the majority of passages, the cup is a 'cup of astonishment,' a 'cup of trembling,' the full red flaming wine-cup of God's wrath and retributive

20 526, 12' M .6% LL+ ' QT .6% $' T B*-% LL+ ' T 6?% + ' K T [*9% LL ' QKT U*>)% L ' KT *+% L+, ' *,>%X% ()*-*' .' 2' 6_,' 2',)*' =-1=)*,,' 21' ?1-*' -*_;*2,'1-',*-- >' ?65*T 620' ,' .' -*=*6,*0' 8 ,)'=6^ ,)*, >' 1->*' 2',)*/625;65*' 1 '1;-' 1-0 .' 6512 'M<6,,' LL+ ' N ' KT B1)2' L+ ' //TP<6- I L ' NQX% 410' .')*-*' -*=-*.*2,*0' 6.',)*' ?6.,*-' 1 '6' D62_;*,' 0*6/ 25' ,)*' ?602*..' 620' .,;=1-' 1 '+*25*62>*',1' 5; /, '5;*.,.' M ,- 256' 2' .6% / ' T & >)?622.)6;.*2 ' R8[' ' ' [' 2' -" '7 ' -+ ' " ! ' R S' ._ %X% ()*>;=',);.'D*>6?*' 62' 1D+ 1;.' . ?D1/ 1 '0*6,)': 4' (AA=,1+' % % UHE% ') ' ; ' , ?% <%X T 620')*2>*',)*' - *2,6/ =)-6.*',1' `,6.,*' 1 '0*6,) ' .1' >1?? 12' X',)*' %(% M<6,,'L+ 'KQT' <6-9' L ' T B1)2' + ' KT :*D% ' RX' 2',)*' 6DD .' M >)0,,5*2'D ' # ' 2' <6,,' L+ X' 2',)*' -6D 62' =1*?' 2,6-' 620' 6?125',)*' *-. 62.' M >)/*;.2*-' !' 7 !' -! ' .% +% 4' % (' B6)2';' & "!' g K NX% ()*' 1;.,1?' 1 '5 +^ 25' 6';=' 1' 8 2*' 620' ? --)',1' >120*?2*0' >- ? 26/.' M ,)1' !';' !N% +% <1-.X .' 6//;0*0' ,1' 2' <6,,' LL+ 7' N T <6-9' L+ 'KK/ M ,,1' .% + X% **` *? .' + ' $ ' .% + %T ,*-' ' 'D 1' 'N Q ._ **' $. !

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+:' .1' 4-% 1 1L71>' 1% :' ;/5% % - 8' 62' 1 >*-' 1 ') 5)'-629' 8 ,)' 5 =,62' *-. 62' .. -^ 62'6.'8*//6.'8*8 .)'?12C 6->).% ()*>) * >;=CD*6-^ *-' 1-' D;/*-' ,1',)*' 9 25' 1 ' 5 =,' 86.',)*' ?*62.' 1 '-6 . 25' B1.*=)',=') ') 5)'=1. , 12' M 4*2% L/ ' C K T L/ ' RX% 6D.)69*)' 8)1' 86.' .*2,' D ' *226^ >)*- D' ' :*[*9 6)' 6=^ =*6-.' -1?') .' 26?*' ,1')6+*' //*0' 60 9*' 1 >*' 2' ,)*' .. - 62' >1;-,' MK 25.' L+ ' T 4*.*2% -" ' =% KK X' 620' ' .**?.' =-1D6D/*' -1?') .' 6..1> 6, 12' 8 ,)' 6DC.6-.' I " ' ' " ' " (81' 620' ' 6.,*-2' >;.,1?' 2' 5*2*-6/',)6,')*' 86.' / 9*') ?' 6' *;2;>)' M 4*.*2% = ' R NX% **' . . ' : *-10' ,)*' 4-*6,')60' 62' 2> *2,' 65 - 62' ;=CD*6-*-' *.,6D/.)?*2,'1'*;2;>).' % 8 ,)' 62%

1 '8)1?' 12*' 86.' 6' >;=^ D*6-*-' MB1.*=);.'& !' L+ 'Q X% *)*? 6)' 86.' >;=^ D*6-*-',1' -,6L*-L*.' 125 ?62;.'9 25'1' *-. 6' M *)% ' : ! ' X' ;=CD*6-*-.' 6-*' ?*2, 12*0' 6?125',)*' 6,,*2062,.' 1 ' 1/1?12' M ' 25.' L ' T K')-12% L ' T .1' >) 6>)6-;.' (1D,' 'KKX% ' ?,)'.% +% ()*' 6-*' -*_;*2,/ ' -*=-*.*2,*0' 12',)*' .. - 62' ?12;?*2,.' M 121?' 7 !' =' K X' 6/86 .' 6.' *;2;>).' M 6 6-0' 7 !' 'K NX%

;=D16-0'I) O) 81' 6'=/6>*' 1 '0*=1. ,' 1-' +6.*.' 0.)*.' *,>% M.1' ,)*2% ' % !' L '>% K'=% QT U126-6.' !' >1/% KSQX'*% 5% 1-',)*' -1 6/=/6,*' M ' <6>>% L+ 'NKX% ;-6,*'/,*-6// '12*' 8)1')6.',)*' >;-*' M 6,% >;-6' >6-*X' 1 '.1;/.' 2' 8)>)'.*2.*' ,' ';.*0' 2',)*');->)' 1' 25/620' -6 *-CD119 7`6//' D .)1=.' 620' >;-6,*.%J' 2',)*');->)' 1' 1?*' ,' 86.' 1-5 26// ' 6==-1=-6,*0' ,1' 6.. .,62,.' 620' + >6-.' 6==1 2,*0' D ',)*' D .)1=.% ,' .' 218' 5*2*-6// ';.*0',1' 0*21,*',)*'); ?D/*.,'0*5-*** 1 ' ? 2 .,*-.' "A',)*');->)' 1' 25/620% ';>;-6,*' 2',) .' .*2.*' .' 6' ? 2 .,*-' *?=/1 *0' D ',)*' 2>;?D*2,' 1 ' 6' >);->)' M-*>,1-' 1-' + >6-X' * ,)*-' 6.' 6.. .,62,',1') ?' 2' ,)*' .6?*' >);->)' 1-' */. , 2' 6' >)6=*/1 '*6.*' 8 ,) 2',)*' =6-.)' D*/125 25',1',)*' ?1,)*-' >);->)% : *' ?;.,' D*' / >*2.*0' 620' 60?,,*0' D ',)*' D .)1=' 1 ',)*' 0 1>*.*' 1-

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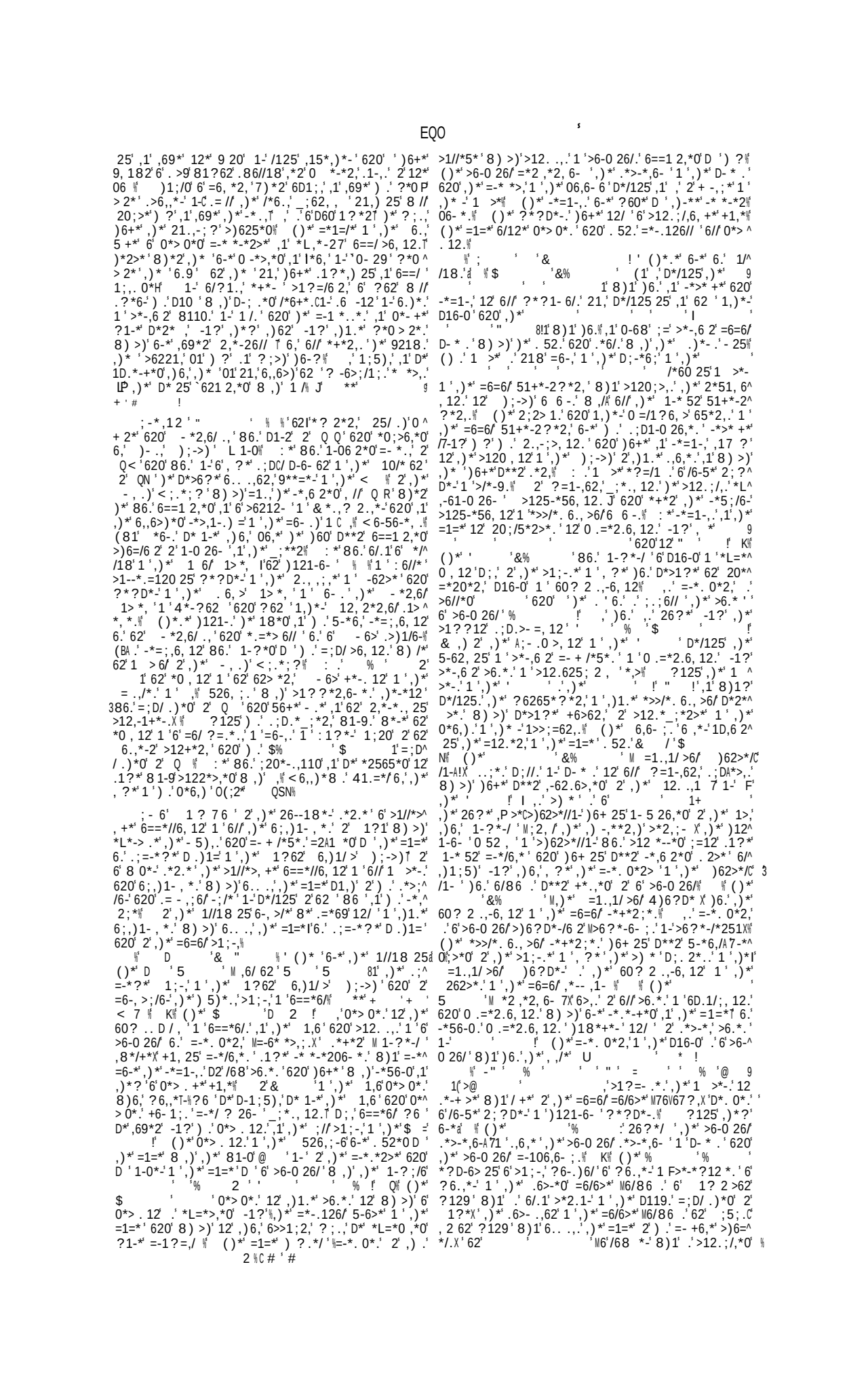

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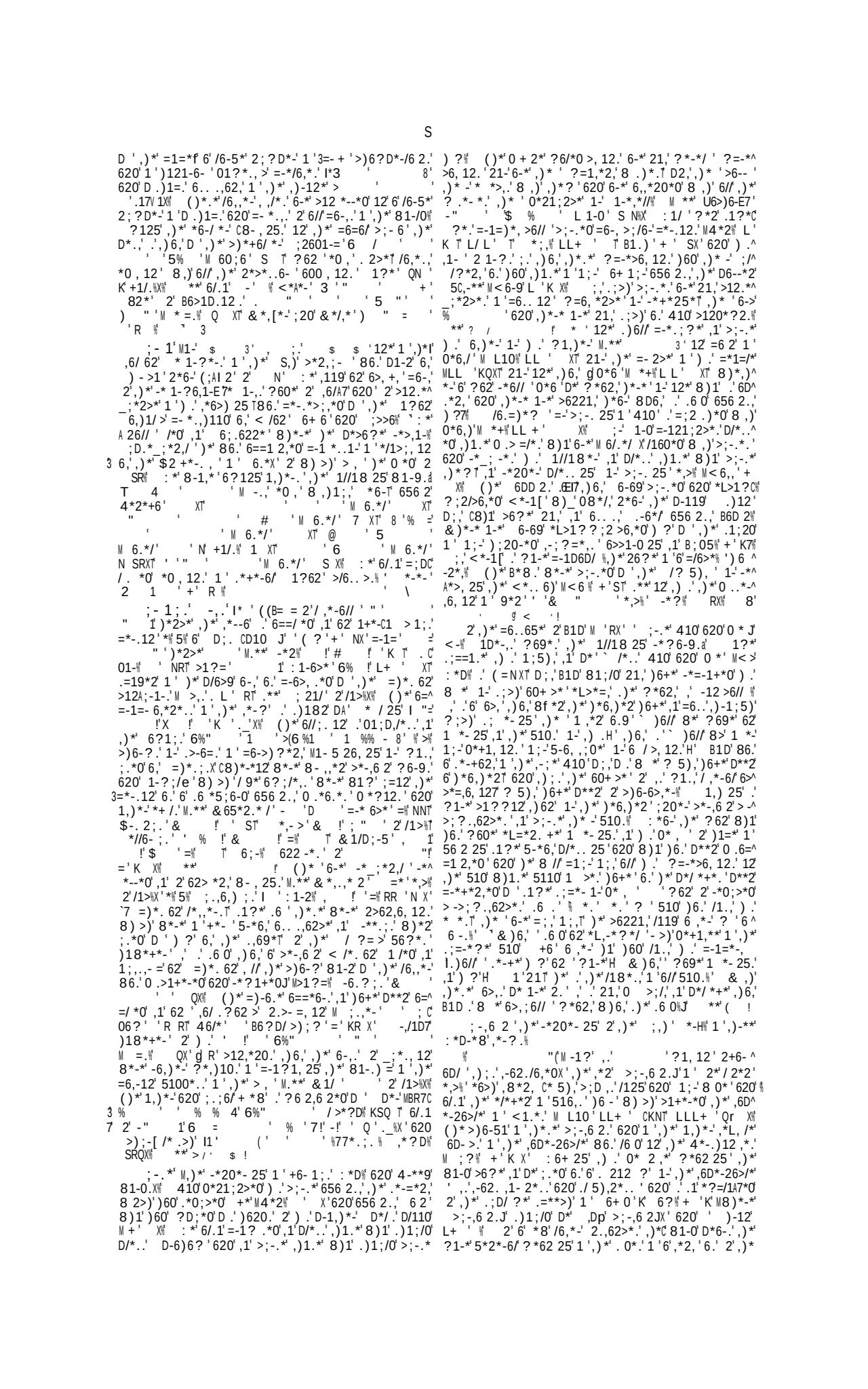
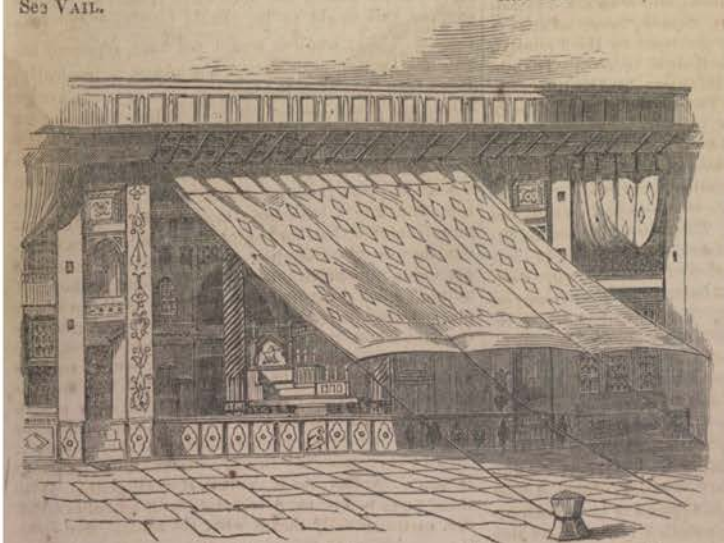


beautiful figure of Isa. liv, 2 (where "habitations" should be "tabernacles," מִשְׁכְּנוֹת, poetic word for "tents"); Jer. iv, 20; x, 20 (here "tabernacle" and "tent" are both one word, אֹהֶל, *tent*); Psa. civ, 2 (where "stretch," נָטָה, is the word usually employed for extending a tent). Also specially of nomadic people, Jer. xlix, 29; Hab. iii, 7 (of the black hair-cloth of which the tents of the real Bedouin are still composed); but Cant. i, 5 rather refers to the hangings of the palace. See TENT.

2. מָסָךְ, *masak'*, the "hanging" for the doorway of the tabernacle (Exod. xxvi, 36, 37; xxxv, 15; xxxvi, 37; xxxix, 38; xl, 5; Num. iii, 25; iv, 25); and also for the gate of the court round the tabernacle (Exod. xxvii, 16; xxxv, 17; xxxviii, 18; xxxix, 40; xl, 33; Num. iii, 26; iv, 26). Among these the rendering "curtain" occurs but once (Num. iii, 26), while "hanging" is shared equally between *masak* and a very different word—קְלָעִים, *kelaí'*. See HANGING. Besides "curtain" and "hanging," *masak* is rendered "covering" in Exod. xxxv, 12; xxxix, 34; xl, 21; Num. iv, 5; 2 Sam. xvii, 19; Psa. cv, 39; Isa. xxii, 8. The idea in the root of *masak* seems to be of shielding or protecting (סָכַךְ, Gesenius, *Thes. Heb.* p. 951). If this be so, the object denoted may have been not a curtain or veil, but an awning to shade the entrances—a thing natural and common in the fierce sun of the East (see Fergusson's *Nineveh and Persepolis*, p. 184).—Smith, s. v. See TABERNACLE. The sacred curtain separating the holy of holies from the sanctuary is designated by an entirely different term, פָּרֹכֶת, *pero'keth* (Exod. xxvi, 31 sq.; Lev. xvi, 2; Num. xviii, 7, etc.). See VAIL.



Awning before the Throne-room at Teheran.

3. דַּק, *dok* (prop. *fineness*), fine cloth for a garment, specially a *curtain*, apparently a tent-covering of superior fineness (Isa. xl, 22), such as the rich Orientals spread for a *screen* over their courts in summer (Henderson, in loc.). See COURT.

Curtius, VALENTIN, a prominent Lutheran minister of the sixteenth century, was born at Lebus Jan. 6, 1493. He studied at the University of Rostock, and early entered the order of Franciscans. He was one of the earliest adherents of the Reformation of Luther, and became its leader, first in the city of Rostock, and subsequently in that of Lubeck. In 1554 he was appointed superintendent of all the churches of Lubeck, and in this position exercised a most beneficent influence upon the religious life of the city. He also took a prominent part in many of the theological conferences of the Lutheran Church. Thus he was present at the "convent of Brunswick" in 1557, which was to settle the adiaphoristic controversies, and in 1561 at the "convent of Luneburg," when the "Luneburg Articles" were drawn up, which were incorporated with the symbolical books of Brunswick. Curtius is also the author of the so-called "Lubeck Formula" (*Formula consensus*, etc.), which he drew up in concert with the secular authorities and the entire clergy of the city. By it the ministers pledge themselve to abide by the doctrine of the prophets and the apostles, the Apostolic Creed, the Augsburg Confession, the Apology, and the Articles of Schmalkald. It was signed by Curtius and all the other ministers of Lubeck in 1560, and afterwards by all ministers appointed in Lubeck until 1683, when the signing of it was no longer required. Curtius also drew up, in the name of the clergy, a "*Protestatio contra Synodum Tridentinam*." He died Nov. 28, 1573.—Herzog, *Real-Encykl.* xix, 373; Starke, *Lüb. Kirch-Hist.* (Hamburg, 1724, 2 vols., where both the "*Formula Consensus*" and the *Protestatio* are printed).

Cusa, NICHOLAS DE, or CUSANUS, a cardinal of great learning. His name was properly NICHOLAS KHRYPFFS (KREBS), but he was named *Cusanus* or *De Cusa* from Cues on the Mosel, where he was born in 1401. He was the son of a poor fisher, who wished him to learn the same trade. Rather than comply with this request, Nicholas left the paternal home, and found employment with the count of Manderscheid, who, having discovered the eminent talent of his servant, sent him to the school of the Brothers of Common Life at Deventer, and subsequently to the University of Padua. At the age of 23 Nicholas became doctor of law, but when he lost his first lawsuit he left the profession of law for the study of theology. Possessing a thorough knowledge of the Greek, Latin, and Hebrew languages, and a rare degree of eloquence, he soon attracted attention. After holding several ecclesiastical benefices at St. Wendel and Coblentz, he was present as archdeacon of the cathedral church of Liege at the Council of Basel, where he presented to the assembled bishops the celebrated work *De Concordantia Catholica*. This is one of the ablest works published during the Middle Ages in favor of the opinion that the pope is subordinate to an œcumenical council; it attacks the pretended donation of Constantine, and the authority of the false decretals, and insists on the reformation of the Church and the Germanic empire. Cusa was opposed to the dissolution of the council which was attempted by Eugene IV, and showed himself favorable to the reforms which the council decreed. But soon after he left the reformatory party and became an adherent of the pope, who added him to the legation which was sent over to Constantinople to dissuade the Greeks from going to Basel, and to induce them to go to Ferrara. After the rupture between the pope and the council, Cusa accompanied the papal legate, Thomas de Sarzana, on his missions to Germany and France. When the latter became pope, under the name of Nicholas V, Cusa was made a cardinal (1449), and bishop of Brixen, in the

(-1/' 2' R% : *' 86.' 6/.1' .*2,' 12' ?=1-,62,' ? .^ . 12.' ,1' 4*-?62 ' 25/620' 620' -; .. 6% * 25' >)6-5*0' 8 ,)' ,)*' -*C*..,6D/ .) ?*2,' 1 ' *>>/*. 6., >6/ 0 .> =/ 2*' 2' : 1//620' D*' 6>_; c,*0') ?.*/ '1 ',) $',6.9' 8 ,)'5-*6,' -?2*..% : .'-* 1-?' ?*6.;-*.' 2') .'182' 0 1>*.*' 2+1/+*0') ?' 2' 6' _;6--*/ 8 ,)',)*' 6->)0;9*' 5 .?120' 1 ' ;.,- 6% ;.6' *L>1? ?;2 >6,*0' ,)*' 6->)0;9*' 8)1' 2') .',;-2' ?=- .12*0' ,)*' >6-0 26/' 620' >1?=*//*0' $?' ,1' 65-**' ,1' 6' >1?=-1? .*% ()*' ?6,,*-' 86.' 21,' ;// ' .*,,/*0' 8)*)',)*' >6-0 26/'0 *0'6,' (10' 2' S % % ()*',-62. A 12' 1 I ;.6' -1?',D7'-* 1-?'=6-, ',1',)*' 60)*-*2,.' 1 ',)*' >1;-,' 1 ' 1?*')6.'D ' .1?*' 8-,*-.' D**2')>)6-5*0',1' 521D/*' ?1, +*.' D;, ' 2' + *8' 1 ',)*' =;-, ' 1 ') .'/ *' 620',)*')12*., '1 ') ;=';-=1.*.' *L^) D ,*0' 2' 6//) .' =;D/ >' 6>,. ' ?1.,'1 ',)*' 8-,* '>12^ . 0*-' ,'6.'62')12*.,'>)625*' 1 '1= 2 12% ,' .',)1;5),' ,)6,' ;.6') ?.*/ ' 0 .>1+*-*0' ,)*' 2>12. .,*2> ' 1 ' .1?*' 1 ') .' + *8.' 12',)*' ;2 , '1 ',)*');->) ',)*' =6^ =6/ =-*-156, +*.' 620',)*' 6;,)1- , '1 ',)*' >1;2> /. ' 6.' /6 0' 0182' 2',)*' 81-9' ' ' 2+ 1' 620' ,)6, ' 20 25' ,' 2*>*..6- ' ,'1' 0 .>6-0',)*' 12*' 1-',)*' 1,)*-')*' /6 0' 5-*6,*-' .,-*..' 12',)*' ?126->) >6/ 51+C' *? ?*2,' 1 ',)*');->',)62' 12' ,)*' -*=-*.*2,6, +*' >1;2> /.% ()*' 65-**.' 8 ,)',)*' .,-125' 6,,6>)?*2,' 8)>)' ;.6' .)18.',1' ,)*' ?126->) >6/ =- 2> =/*' 2' 5*2*-6/% ** -1>9)6;.' 7 % 'M =[5% QS X% .'6')=) /1.1=)*-' ;.6' 86.'6?125',)*' -.',1'6D62^ 012',)*' .>)1/6.,>'>-**0% ': *'6--625*0'620'-*=;D/ .)^ *0',)*' ,)651-*62' 0*6.',1' 8)>)')*' 86.' ?;Z)' 2^ >/ 2*0' 2'6'+*- '1- 5 26/?622*-'D ',)*'6 0'1 ' .'?6,)^ *?6, >6/9218/*05*% : *'>12. 0*-*0'410'6.',)*';2>12^ 0 , 126/ < 6L ?;?'8)>)'6,',)*' .6?*', ?*'6.'& ' 2' .'6/.1',)*';2>120 , 126/ < 2 ?;?'620'D*5*,.' 1')?.*/'620'1;,'1')?.*/'*_;6/ , '620',)*' >1?D^ 26, 12' 1'*_;6/ , '8 ,)',;2 , 'M 12'620' : 1/ '4)1.,%% >>1-0 25',1')?',' .' ?=1.. D/*',1'9218'0 -*>,/ '620' ?*?0 6,*/ ',) .'6D.1/;,*;2 , 'M,)* + 2 , X'D*>6;.*' 8*'>62' ?69*6==-16>)*.',1',)*'9218/*05*' 1')?'12/ ' D ',)*' ?*62.' 1 '2;?D*-' 1-'=/;-6/ , % 12.*_;*2,/ ')*'6//18.' ;.'12/ ',)*'=1..*.. 12' 1'+*- ' ?=*-.*>,'21^ , 12.' 1 '410'620',)1.*' D '?6,)*?6, >6/ . ?D1/.% ' ?;.,'D*' 60?,,*0',),)*'>6-0 26/0 0'21,'=;.;*,.' 3,)1;5),'+*- ' >12.*_;*2,/ '620',)6,') .'+*8'1 ',)*' ;2 +*-.*'8)>)')*'>122*>,*0'8 ,)',' 620'8)>)'-*=-*^ .*2,*0',)*' ;2 +*-.*' 6.',)*' ?6L ?;?' 1 '620' ,);.' * '86.'+*-'1D.>;-*% 1-'86.')*'?1-* .;>>*.. ;/ 2') .'+*8'1 ',)*' '1 ',)*' -*6,1-'620' 1 '>-*6, 12' 1-' 2') .'6,,*?=,',1'*L=/6 2',)*'? .,*-.*.' 1 ',)*' (-2 , '620' 2>6-26, 12'D '?*62.'1 ',) .'=62,)*^ .,>',)*.?% *+*-,)/*.. '2;?*-1;.'=-1 1;20',)1;5)' ;20*+*/1=*0' 1D.*-+6, 12.' 12',)*' 6>;/, '1 '>152 , 12' 6-*' 1;20' 2') .' 8-, 25.' 2,*-.=*-.*0' 8 ,)') .' =-*^ +6 / 25' ? .,>.?% 1-' 2.,62>*')*' 1D.*-+*.' ,)6, ',)*' =-2>=/*.' 1' 9218/*05*' =1.. D/*',1' ;.' 6-*' >12^ ,6 2*0' 2' 1 ;-' 0*6.' 1 '2;?D*-' I ' % 8' 620' ,)*' -' .*+*-6/ -*/6, 12.'T ,)6,' 6D.1/;,*' 9218/*05*' .' ;26,,6 26D/*',1' ;.' I% ' 1 ' 8)>)')*'., /*0' 8' 620',)6,'6// 8)>)' .'6,,6 26D/*',1';.' .' % '9218/*05*' I * 8!' & ,)'.;>)'1= 2 12.')*' *L=-*..*0'6'.1+*-* 52'>12,*?=,' 1-',)*' 015?6$.?' 1',)*' .>)11/.%J' ()*' 81-9.' 1' ;.6' 8-*'=;D/.)*0' 2' '6,' 6-.'MN'+1/.%' 1/%7'620' 656 2' 2' S'6,' 6.*/'MN'+1/.%' 1/%X% ()*'/6,,*-' *0^ , 12' .',)*' ?1-*I>1?=/*.*% ** (*22*?622' ' # !' " !' g'KQST' >)6-= ' ' ' ; " %' 7 !' ' 'M+1/%' '<6 2[' Q NT' ,)*' KO'+1/%)6.' 321,' 6==*6-*0XT' ;L' ' ' " ' ' 7 ' 'M 6, .D12' Q 'K'+1/.%XT' /*?*2.'?' ; ' ' 7!' ' 'M 122' Q XT' U ?>--6622' ' "' D-C' ' / 'M *226' Q KX% ;.)'M:*D') "' 'N' 0*-+% ;2>*-,6 2T % (% ;).' J' 4*2' L' S' 'QT' ')-12% Q' R T' .6% !+ ,/*T .6' L' T ,) 1= 6 J' 4*2% ' NT' K 25.' L L 'RT' .,)% ' T' + 'RT' B1D'LL+ ' RT' .6% L+ N T' LLL+ ' T' .6% L+ ' T' LL' N' T' LLL+ 'RT' L/2 'NT' L/+' T' [*9% LL L' T' LLL' ' T' LLL+ ' T' 6)% 'RT' U*=) ' ' T' ,) 1= 62. J' .6% LL' T' B*-% L/+ 'RT' [*9% LLL 'RX',)*' 26?*' 1',81'?*2' 620' 1',)*',*-- ,1-' 1-',*-- ,1-*.' 1>>;=*0' D ',)*' 0*^ .>*2062,.' 1 '12*' 1 ',)*?% % M *=,% O ';/5% + 1' ' .1;' M6==6-*2,/ ',)*' */0*.,X' 1 ' : 6?% % %>-% K M ' 2',)*' 5*2*6/1^ 5 '1 ' 16) .'>) /0-*2' ;.)' .**?.',1'D*'62' 20 + 0;6/' 1-' ,' .' .6 0 I ;.)' D*56,' ?-10J' M4*2% L' QT' ')-12% ' X% ',)*' 26?*' D*' 1/0*-',)62') .', ?*')*' ?6 ')6+*' D**2' >6//*0' 6 ,*-' 6'>1;2,A '6//1,,*0',1') ?% ()*' 1//18 25' 0*.>*2062,.' 1 ' ;.)' 6-*' *2;?*-6,*0%) .' .12.' *D6' : 6+ /6)' 6D,6)' 1-' 6D,6' 66?6)' 620' 6D,*>)6)' 1-' 6D,*>)6T) .' 5-620.12.',)*' .12.' 1' 66?6)')*D6' 620' *062T 620' ?-10' 8)1' 6.' ?*2, 12*0' 6 ,*-',)*' -*..' .**?.',1') 6+*' D**2' 6' -*^ ?1,*-' 0*.>*2062,',)62',)* ',)*',*L,' 21,' 2*>*..6- / '=-1+ 25') ?',1') 6+*' D**2' 6' .12% **' % ! ()*' 12/ '0 -*>,'5*15-6=) >6/ 2 1-?6, 12' 5 +*2' 2',) .' =6.^ .65*' .' 8 ,)%-* *-*2>*',1' ?-10',)*' D*5 22 25' 1' 8)1.*'9 2501?' 86.' 2' 6D /12 6' 620' 8)1' 6 ,*-86-0.' 8*2,' 6>>1-0 25',1',)*' -*60 25' 8)>)' 8*' =-* *-' 2,1' ..77 6' 620' 1;20*0' 2*+*)' 620' *,)*-' >, *.% ()*' -*6.12.' 1-' 1;-' =-* *-*2>*' 6-*a' M X',)6,' 8*' -*60' ';'1',)6,/620' 8*2,' 1-,)' ..);-' J' 2.,*60' 1' ')*' 8*2,' 1-,)' \ 2,1h' ..);-' J' %' *% .. -6',)*-' .' 21' 6>>1;2,' 5 +*2' D;,' 1',)*' D*5 22 25J' 1' ?-10.' 9 2501?' 620' MKX',)6,' ..);-',)*' =6,- 6->)' 81;/0' .**?')*-*',1' D*'_;,*' 1;,' 1 '=/6>*' 2',)*' 5*2*6/15 % ' ?,)' Q% ' **' * !) 55 ' $ '!' -1?',)*' */0*.,'.12' 1 ' : 6?'M4*2% d' ST' ')-12 ' 'QX' .**?.',1')6+*' D**2' 0*- +*0',)*' 26?*' 1',)*' '1 ' .)'8)>)' .'>1??12/ '-*20*-*0' D ',)*' *=,% & ; , - '620' D ',)*' ;/56,*'!6 % :' 2' 8)>)I',)* ')6+*' D**2' 1//18*0' D '6/?1.,'6// 1,)*-' +*-. 12. 'V62> *2,'6- 0' ?10*-2% ()*' 4*-?62',-62./6^ , 12' 1 ' ;,)*-')6.' " '8)>)'.'*_;+6/*2,',1' *5-1/620' 1-',)*' 1;2,- '1',)*' /6>9.% & 26, +*' 86.'>6//*0' " (MI7//NAP V1 V'*) " % 'B*-%L 'KNX' ,)*' *? 2 2*' 1'8)>)' 86.' " "(M- B '& ; -- '*6 " % X EJ()E 'L' X'620',)*'=/;-6/' "= P a0g B!1 " % ' ?1.' L' X% ** > ' / f ',)*' 1;-' .12.'1' : 6? J' 'B1.*^ =);.'I& !' 'S' KX' , ?*')6.'21,'6,'6//');-',)*' 26?*' 1');.' 1-',)*' ,) 1= 62.'1+*-'8)1?')*' *52*0' 6-*' *+*2' 6,',) .'06 'D1,)' D ',)*?.*/+*.'620' D '6//' ?*2' 2' .6'>6//*0' " !(P ()*' *.),1' -6>'+*-.12' 1' >,.' + 'K ' ., /*.' D1,)' _;**2' 6206>*' 620')*-' ,-*6.;-*-' " ' ** ! ()*/1>6/, '1',)*'/620'1 ' ;.)' .'6' _;*., 12' I;=12 8)>)' *? 2*2,' 6;,)1-, *.')6+*' D**2' 0 + 0*0' 1-' 8)/* ; "= '!I " ' +'KX' ?6 2,6 2*0',)6,' ,' 86.' *L>/;,.+*/' 2' -6D 6' 4*.*2;.' I ' 2' +1>*X')*/0' 8 ,)'21'/*..;-=*-, 26> , ',)6,',' .',;D*'.1;5),' 1-'21^ 8)*-*'D;,' 2' ->6% 2',) .' 1= 2-12')*' .' .;==1-,*0' D ' >);/,)*..' 1'U;->)' 2') .' 'M=% X% ,)*-.' 656 2' .;>)'6.'<>)6*/.' I$% ' ? ' ; ' 6 '>6=% K'=% KN X' 620' 1.*2?;//*-' I ; ' ? ' D' <1--*2' 'QMXT $' KQ X')6+*' .;==1.*0',)6,'7,)1' 26?*' ;.)' 86.' 6==/ *0',1',-6>,.'1'>1;2,-'D1,)' 2' -6D 6' 620' ->6'6'>->;?.,62>*' 8)>)' 81;/0' *6. /'/*' 6>^ >1;2,*0' 1-'12',)*'+*-'=-1D6D/*' .;==1. ,12',)6,',)*' 0*.>*2062,.' 1',)*'=- ? ,+*' ;.),*',- D*.' 8)1')60' .*,,/*0' 2',)*' 1-?*-'>1;2,-'*? 5-6,*0' 6>-1..',)*' *0' *6',1',)*'/6,,*-'-*5 12' 1',)*'*6-,)'>6-- 25' 8 ,)',)*?',)*' 26?*' 1' ;.)',)*-'-*?1,*=-15*2 ,1-' ()' 0*6')60'D**2'0*+*/1=*0'D ' >))1-2'I' '=%)-0;' X% ()*',*-?' ;.)' .' 5*2*-6// '6=^ =/ *0' ;%,)*' /0' (*.,6?*2,',1',)*' >1;2,-*.'.1;,)'1' ,)*' .-6*/,*.%' ,' 86.',)*' .1;,)*-2' / ?,' 1' 5 =,' M [*9% LL L' X' 620' 6==6-*2,/',)*' ?1.,' 8*.,*-/' 1',)*'=-1+ 2>*.'1+*-' 8)>)',)*-;/*' 1')6.;*--.'*L^ ,*20*0' -1?' 20 6'*+*2';2,1' ,) 1= 6J' M .,)% ' T' + 'RX% 5 =,'620' ;.)' 6-*' 6..1>6,*0' 2/' ?,' 1' 5 =,' , '1' 2.,62>*.' 2' 8)>)',)*' 81-0' 1>>;-.' M .6% L+

N T .6 L+ T B*-L/+ R *,>XT D ; , 2 , 81 =6.^ .65*. ; .) . ,620. I 2 >/1.* A ; L,6=1. , 12 8 ,) /6 ? M .6 L X 620 *-. 6 M [*9 LLL+ XL ( ) * ; .)^ ,* 9 25 U*-6) 86. ; ,,*-/ 0* *6,*0 D .6 6, < 6-*C .)6) 620 = ; -. ; *0 6. 6- 6. 4 *-6- 6 ,182 1 ,) *) ^ / ., 2*. 12 ,) * .1 ; ,) *-2 D1-0*- 1 6/*., 2* 8) >) 86. 6==6-*2,/ ; ;20*-) .* . 86 MK) -17L + R *,>XL 2 K) -12 LL S ,) * -6D 62. 6-* 0*. >- D*0 6. 08*// 25 D*. 0* ,) * ; -,) *- ; .) 620 *D6 M .6 L/ NX ; .) 620 ,) * 6D6 6 ; . M .6 L/+ X 6-* 6..1> 6,*0 2 6 ? 622*-> 12.1262, 8 ,) ,) * 5*2*6/15 1 ,) * 0*^ .>*2062,. 1 : 6 ? M4*2 L X 2 8) >) *D6 . ,) * .12 1 ; .) -1 ? 6// ,) *. * > -> ; ? . ,62 >*. , . *+ ^ 0*2, ,) 6, ; 20*- ,) * 0*21 ? 26, 12 ; .) 8*-* 2>/ ; 0*0 D1,) -6D 6 620 ,) * >1 ; 2,- 1 . ; ,) 1 5 =, 12 ,) * 8*. , *-2 >16. , 1 ,) * *0 *6 , . =1.. D/* 6/.1 ,) 6, ,) * +6. , 0*. *-, , -6 > , . 8*. , 1 5 =, 8*-* 9218 2 , 1 ,) * : *D-*8. 6. ,) * /620 1 1.) D ; , 1 ,) . 8*) 6+* 21 >*-, 6 2 =-11 ( ) * (6-5 ; ? . , 12 .6 L .) 6-^ 25 ,) * =-*+6 / 25 *--1- 1) . , ? * , -62 ./6, * . ; .) ID 20 6 D ; ,) 6, 6 D *, ,*- 9218/*05* 1 ,) * -*/6, +* =1. , 12 . 1 ,) *. * >1 ; 2,- *. 86 . 62> *2, / =1. . *. . *0 . >/*6- -1 ? . ,) 1 ?*) 6+* .1 ; 5) , 1- 621,) *- ; .) 2 ?1-* 21-,) ^ *-/ -*5 12 . 1 . 6 6 . 2 ,) * *-. 62 =-1+ 2>* 1 + 1- ; . 626 2 " "1 6 0 . , - >, D 6D /1^ 2 6 * , > 620 6 . ?-10 ,) * 1 ; 25*. , . 12 M1- 0*^ .>*2062, X 1 ; .) . =-*60) . >12 _ ; *. , . 2 ,) 6, 0 -*>^ , 12 , . 21 01 ; D , =1.. D/* ,) 6,) . 6,) *- . 26 ? * ? 5) , D* =-* . *-+*0 2 ,) * 0*. 526, 12 1 . 1 ? * =6-, 1 ,) * , *-- , 1- 1 -* =1 = /* ; ,) *-* 656 2 ,) * 06, 6 6-* 21, +*- . 6, . 6>, 1- 20**0 ,) * >) * ,) 25 8) >) /*0 , 1 ,) * . ; ==1. , 12 . ,) * ? *2, 12 2 ,) * 0*. >- =, 12 1 ,) * . , * 1 6-60 . *M4*2 NX 1 6 /620 1 ; .) >1 ? =6. *0 " ,) *- +*- 4) 12 *, *+*2 ,) 1 ; 5) ,) * 26 ? * 1 ; .) 8*-* ? 1-* +6- 1 ; . / 6== / *0 2 >- =^ , ; -* , / 62 , -*6// . , 81 ; /0 21, D* ?1-* .1 ,) 62 86. ,) * >1--*. =120 25 , *- ? ,) 1= 6 6 ? 125 ,) * 4-**9. 620 1 ? 62. 8) >) ' >1 ? =- . *0 6 5-*6, ? 62 26, 12. 6- 0 . , 62, 6. 8*// 6. 8) 1 // 0 . , 2 >, -1 ? *6>) 1 ,) *- 620) 6+ 25 21,) 25 2 >1 ? ? 12 D ; ,) * - . 8 6-,) . ; 2 D ; -2, >1 ? = /*L 12 * & , 2 _ O g -4 [E 1 * D ; -2, D/6>9 2 ,) * 6>*J : 1 ? *- I , ! KKX .=*69. 1 ,) * ? 6. 6 0 + 0*0 -6>* ,) * /6. , 1 ? *2 . 1 ? * 1 ,) * ? 6,) * *L,-* ? * 8*. , 620 1,) *-. 6,) * *L,-* ? * *6. ,J -6D1 M S X 0*. >- D*. ,) * ? 6. 6 , 81 1/0 =*1= / * 25 *L,*20*0 2 6 /125 , -6>, -1 ? ,) * - . 25 , 1 ,) * .*, , 25 . ; 2J : *-101, ; . M SR X 0 . , 25 ; .) *. ,) * *6. , *-2 ,) 1= 62. 2 . 6 -1 ? ,) * 8*. , *-2 ,) 1= 62. 2 - >6 D , D* . , -6 5) ,) 6 - 1 ,) * 1- ? *- 620 ,) * > ; -/) 6 - 1 I ,) * /6, , *- ( ) * 620 *2, . 2 .) 1-, 8 ,) ,) * ; . ; 6/ /11. *^ 2 * . 1 ,) * I 5 */7-6=) >6/ 0*0= , 12 . ; 20*-. , 110 D ,) 1= 6 " 1 ' " 2 6/ ,) * * , , .) ./125 , ; 0* 620 8) >) / 25 6. ,) * ,) 1 ; 5) , >/1. * ; =12 ,) * *- [12* * L=1. *0 ,) * 2) 6D , 62, . , 1 ,) * . ; 2 . >1->) 25 -6 . 8) >) D ; -2*0 ,) * ? D/6>9 , . ,) * ? . , 69*2 0*6 1 ,) * . >- =, ; -6/ , *-? ' ; .) D* 25 ; . *0 2 ,) * .6 ? * 620 *2, . * .>- =, ; -6/ , *-? 26, * ? 622*-,) 6,) 6. / *0 , 1 ; ? ; >) I >12 ; . 12 12 ,) . ; DA*>, T 620 12* 8 - , *- M ; , , ?) 22 & ! 6 +! ! ! = 21, X 2) . 0*. -* , 1 >6-- 1 ; ,) * =6-6//* D*, 8**2 ,) 1= 6 620 ; .) 0*- +* .) * /6, , *- 81-0 -1 ? ,) * -11, // I+ "1 + 2 ' , 1 D ; -2TJ D ; ,) 6, . 1==1. *0 , 1 6// ,) * -; /* . 1 * , ? 1/15 >6/ 626/15 2 ,) * 1- ? 6, 12 1 ' : * D-*8 =-1=*- 26 ? *. M>1 ? = , , * - . 6 + !1 KKKT : **-*2 . & 7 25/ , -62. / KQRX **3 $ (:

 ( ) * *L .,*2>* 1 62 & ; .) >6221, -*6.12^ 6D/ D* _ ; *., 12*0 ,) 1 ; 5) ,) * , *-? / *?=/1 *0 2 >- =, ; -* 8 ,) 5-*6, /6, , ; 0* .1 ? *, ? *. 0*21, 25 62 * / ; . + * D ; , ; 20=72*0 >1 ; 2, M ,) 1= 6X 620 6, 1,) *- , ? *. 12* =6-, > ; /6-1 9 2501 ? M *-1 X , . *L=-* ../ 0*.>- D*0 D [*9 */ 6. /7 25 , 1 ,) * .1 ; ,) 1 5 =, D* 120 *_* MLL L >1 ? = d LL CS , -6D1 L+ Q /2 # ! 7 ! + N B1. *=) ; . + X , . / ? , . 12 ,) * 8*. , 620 .1 ; ,) & * ; 20* 2*0 D ; , , 86. =-1D6D/ -*56-0*0 6. *L, *20 25 *6. , 86-0 6. 6- 6. ,) * *0 *6 21, 6. 2>/ ; 0 25 .1 ? * 1 ,) * ./620. 2 ,) 6, . *6 . ; >) 6. ,) * 6 ? 1 ; . (1=6[./* MB1D LL+ RT / 2 # ! 7 ! + KR LLL+ QT ,-6D1 L+ ST 10 > INR7 , ,) ; . >1--*. =120*0 ,) 1 ; 5) 12/ 2 6 +65 ; * 620 5*2*-^ 6/ . *2. * , 1 ,) * >1 ; 2,- *. 92182 , 1 ; . 6. ; D 6 620 D .. 2 6 . 1 6 ? 1 ; . 1- ,) * /* 620 1,) *- 5-*6, - +^ *-. : *2>* ,) * 6// ; . 12. 2 >- =, ; -* M .6 L+ T U*=) X , 1 ,) * 6-C0 . , 62, - +*-. 1 ,) 1= 6 J 6 > 1 ; 2, - 8) >) . 6/. 1 . =19*2 1 M .6 L+ I KX 2 1 ; - +*-. 12 6. ,) * /620 8) >) ,) * - +*-.) 6+* % ,) * -* D* 25 6 . ; ==1. *0 -* *-*2>* , 1 ,) * -6+65*. > 1 ? ^ ? , , *0 2 ; 206, 12. M -; >* . - Q 620 (6 /1- . M NC XT D ; , -*>*2, , -62. /6, 1 -. =-*^ *- , 1 -*20*- D 0 + 0* J _ O 6 /620 2, *-^ . *>, *0 D . , -*6 ? . J .6 6) / /7*8 . * , 69*. 21, >* M 2 ,) * 6D1+* =6. .65*X 1 ,) * D ; /- ; .) JCD16, . 1 -+*. . */. 1 =6= - ; . 8) >) ,) * ,) 1= 62. * ?=/1 *0 ; =12 ,) * 86, *- . 6 6>, 8) >) . > 12 -? *0 D : */ 101- ; . 2) . *6 " % ML S X 620 6/. 1 D -; >* 8) 1 . , 6, * . ,) 6, ,) * 12/ 9 20 1 D16-2 D .. 2 6 . ,) 6, >6// *0 8) >) . ? 60* 1 -** 0. 6 = *>* 1 , D* 6>6C > 6C, -** D* 25 = ; 2 ,) * D1, , 1 ? , 1 . *-+* 6. 6 9** / , 1 8) >) ,) * =/62, . 6-* A1 2*0 D* 25 -. , . *8*0 , 15* ,) ^ *- ,) *2 56,) *-*0 ; =6, . , *? 620 . , *-2 620 ,) * *20. 1 ,) * =/62, . , *0 6. ,) ,) *-*J , . , 1 , D* . 8 , 2*. . 1 ,) * . *=6=E (; . +* . */.) 6, B1D M L KSX >1 ? =6-*. ,) * -6= 0 . =** 0 1) $ 06 . -1 ? , . =-1L ? , , 1 5 =, 8* 20 < [-6 ? 620 ; .) M * 5 =, 620 ,) 1= 6X 1 1 , *2 >/6. *0 , 15* ,) *- D ,) * =-1=) *, . M* 5 .6 L+ N T .6 L T LL A/ NT L/+ T 6) RX ( ) * 2) 6D , 62, . 6-* */. *8) *-* . =19*2 1 2 >122*>, 12 8 ,) ,) * ; D ? 620 ; 99 ? MK) -12 L NT L+ QT B*- L/+ T 62 L NX . ; ==1. *0 , 1 D* ,) * D 62. 620 , D 1= > (-15/10 , *. 620 >*-, 6 2/ 26, 12. 1 - >6 1- ,) * D*/125*0 , 1 ,) * +6. , 6- ? 8 ,) 8) >) / .) 69 9 25 1 5 =, >6 ? * 1 ; , J 1 ,) 6, >1 ; 2, - 656 2. , *) 1D16 ? 9 25 1 B ; 06 - ; .) * . * 620 20**0 2 ? 1 . , 1,) *-* =6. . 65*. 8) *-* ; .) J 1 >>; -. -6D 6 . 21, , 1 D* ,) 1 ; 5) , 1 ,) * ,) 1= 6 1 - >6 . D* 120 6// 01 ; D, * L>/ ; . +*/ 2, *20*0 * *> $ / ! 2 ,) * 62> *2, 5 =, 62 2. >- =, 12. ,) 1= 6 6D1+* 5 =, . , *- ? *0) "1-) " 620 ,) . , *-- , 1- =-1D^ 6D/ 1 -*. =120. =*- *>, / , 1 ,) * - >62 ; .) 1 ,) * D/* M & /9 2.12 & ! 6 ! 6D- 05 ? *2, X ( ) * ; .) , *. 18*+*- 60 >/*6-/ 6 8 0*- *L, *2. 12 / 9 * ,) 1= 62. 1 ,) * 4-**9. D ; , 6==6-*2, / 8 ,) 6 ? 1-* 0* 2 , * *,) 2 -*/6, 12 ( ) * . *, /* ? *2, . 1 ,) * .12. 620 0* . >*2062, . 1 ; .) ? *2, 12*0 2 4*2 L ? 6 D* , -6>*0 -1 ? < *-11 , 1 6D /12 620 =-1D6D/ 12 , 1 2*+*) ( ) ; . ,) * ; .) , *. 6==6-* , 1) 6+* . =-*60 6/125 , -6>, . *L, *20 25 -1 ? ,) *) 5) *- /* , 1 ,) * ; =) -6, *. 620 (5- .) /1/15 >6/ 620 * ,) 21/15^ >6/ 06, 6 /*60 , 1 ,) * .6 ? * >12>/ ; . 12 ( ) *-* 6-* . , -125 -*6.12. 1-0 *- + 25 ,) * 212C) * ? , > - =- ? , + * /625 ; 65* 1 6D /12 6 +6- 1 ; . / >6// *0 D . >) 1/6-. ; .) , * 620 > ,) > -1 ? 62 62, C) * ? , > 0 6/ * >, 1 ,) 1= 6 620 1- . ; ==1. 25 , 8 1 . , -*6 ? . 1 ? 5-6, 12 -1 ? - >6 2, 1 . 6 2 +*- ? 1, * =*- 10. ! ,) * 12* 1 5- , 62. ,) -1 ; 5) ,) * =-* . *2, < 6/6 62 -*5 127 ,) * 1,) *- 620 /6, *- 12* 1 ; .) , *. -1 ? ,) 1= 6 =-1=^ */ >6// *0 ,) -1 ; 5) -6D 6 6D /12 6 620 *-. 6 3 & *. , *-2 20 6J M 11/* ? " 6 " = K . K X - : 6 6 /, 2.12) 6. ' D-1 ; 5) , 1-8 6-0 -* ? 6-96^ D/* + 0*2 > * , *20 25 , 1 , -6 > * ,) * *6-/ 6D /12 62. , 1 ,) 1= 6 =6-, > ; /6-/ ,) * . ? /6- , X 1 ,) * - ? 10* 1 8 . , 25 , 1 ,) * 5 =, 62 620 ,) * 20 >6, 12 2 ,) * , -6^ 0 , 12. 1 6D /12 6 620 . . - 6 1 6 >122*>, 12 2 + * - * 6-/ , ? *. D* , 8 **2 ,) 1= 6 1 ; ,) *-2 -6D 6

620' ,)*' > , *.' 12' ,)*' 18*-' 2=)-6,*HVI',)*' ;.) ,*' 26?*' 1 ' ?-10') ?.*/' 6.' 6' 0* *0')*-1' D* 25' ,)*' .6?*' 6.',)6,'D '8) >)' < *-1*' .'>6//*0' 2',)*' .. - 62' 2.>- =, 12.' M 68/ 2.12 .' # ' 'N N 2%X% : .,1- ' 6 1-0.' ?62 ',-6)*.' 1 ',) .'-*/6, 12' 1 ' 6D /12 6 ' -6^ D 6' 620' ,) 1= 6% U*-6)' ,)*' *) ,*' M % % ,) ^ 1= 62JX' 8)1' 86.'0* *6,*0'D ' .6' 87.'?1.',=-1D6D/ ' Y 9 25' 1 ' 5A7=,'>*-,6 2/ ',)*'/*60*-' 1 ' 62' 5 =, 62' 6-? T ,)*'0 26., ',)*2'-;/ 25'M,)*' KKOX'D*6-.'26?*.' ,)6,')7+7'>6;.*0' ,',1'D*' .;==1.*0',1')6+*' D60'6' 6D^ /12 62' 1-' ..E(62' 1-5 2' 6.' D*.)129') .)69')*.)69T 6?;-*,' ?-10T (*9?, (*9/;, (5/6,)% ()*' *6-/ '.=-*60' 1 ',)*' < [-6,*.' //;.,-6,*.',)6,'1 ',)*' ;.) ,*.' \.**' / ' ;'T ,'?6 'D*' >12. 0*-*0'6. 6' =6-,' 1 '12*' 5-*6,' . .,*?' 1 '? 5-6, 12.% 2',)*.'* 5-1;20.'8D' .;==1.*',)6,',)*.*' :6?,*'-6>*.'+*- '.112' 6 ,*-' .)* -' 6-- +6/ 2' - >6 'D*562',1' .=-*60',1',)* *6.,'.1',)*' 21-,)'620',1',)*' 8*.,T ,)*' ;.) ,*.'*..6D^ / .) 25'.*,,/*?*2,.' 6/125',)*' .1;,)*-2' -6D 62' >16.,' 12',)*' -6D 62'.)1-*' 1',)*' *-. 62' 4 ;/'620' 2' 6D ^ /12 6 720',)*2>*' 1286-0',1',)*' 20;.' 620'=-1D6D/ ' 21-,)86-0',1'BA 2*+*)T 620',)*' < [-6,*.' .=-*60 25' 6/125',)*' .1;,)'620'*6I.,'.)1-*.' 1',)*' <*0 ,*--62*62' 12'=6-,' 1 ',)*' 21-,)'.)1-*' 620' 2',)*' 5-*6,' ./620.% ()*.*' ?;..')6+*' D**2' .*6 6- 25'=*1=/*.' 21,' 8)1// ' ;2/9*',)*' ?10*?' <6/6A.'8)1')6+*' . ? /6-/ '.=-*60' 12',)*'.)1-*.' 1',)*' 20 627>*62% ()*' ?6 'D*' 6/^ 86 .',-6>*0'8)*-*' +*- '?6.. +*'6->),*>,;-6/-*?6 2.' 6-*' .**2' 8)*-*',)*' 26, +*'/625;65*' .'=6-,/ '(;-62 62' 620'=6-,/ ')*? , >'620' 8)*-*',)*' 26, +*' -*/ 5 12' .' =6-,/ ' >1.?>' 1-')5)C26,;-*' 81-.)='620'=6-,/ '*C ,>).?'1-'/18C26,;-*' 81-.)% ()*.*' 20 >6, 12.'01' 21,' 6/ 2'62 '.*,,/*?*2,'1 ' ;.),*.'1-' <[-6,*.'8,)' 8)>)'8*'6-*' 8*/' 6>_;6 2,*0% *' ' #! ;',)6,'=6-,' 1 ',) .'+6..'-*5 1,' 1 ' ;.)' 8)>)' .**?.' >) * / ' 2,*20*0' 2',)*.*' 620'?1.,'1,)*-'=6.^ .65*.' 1 ' >-=,;-*' .',)*',-6>,' 1 '>1;2,-' 2' $==*-' ;D 6' 8)>)'D*>6?*' 6?1;.' 2'62, _;, '6.',)*'+ 9 '6" % 1'1-',)*'..6,*'1'<*-14% ()*' ,) 1= 62' 26, 12.'5*2*-6// '-629*0'/18' 2',)*'.>6/*' 1 '>) / [6C ,12T 2*+*-,)*/*.. J'.6 .' :**-*2' ,)*-*' 0 0'*L .,' 6' D*,,*-' >;/,+6,*0'620',1'6'>*-,6 2'0*5-** 6' >+^ / [*0' ,) 1= 62' =*1=/*' 8)1'08*/,' 2' >, *.T %8)1' *-*>,*0',*?=/*.'620'1,)*-'*0 >*.T 8)1',)1;5)'8,)^ 1;'/*,,*-.')60')*-15/ =) >.'T 8)1')60'51+*-2?*2,' 620'/68.T 620',)*' 6?*' 1'8)1.*' =-15-*..' 2'9218/^ *05*' 620',)*' .1>6/6-,.' .=-*60' 2',)*' *6-/*.,' 65*.' 1+*-' 6'>12. 0*-6D/*'=6-,'1',)*' *6-,)%J' <*-14' -1=^ *-'/6 'D*,8**2',)*' -+*-' .,6D1-6.'M2 8',)*' ,D6-6' 1-' (6>6[[4X' 12',)*' *6.,'620',)*' /*' 12',)*' 8*.,% ()1;5)' 21,' >1?=/*,*/ ' *2>/1.*0' 8 ,)' -+*-.' ,' 86.' >6//*0'62' ./620'D*>6;.*' 6.' / 2 '1D.*-+*.',)*'+6- ^ 1;'.,-*6?.'8)>)' /18*0'6-1;20','8*-*'6//>12. 0*-*0' 6.'D-62>)*.'1',)*' /*' .1',)6,',1' ,',)*' 6D1+*' 0*^ .>-=, 12'1'6' >1;2,-'1'-+*-.J'86.'=*>;/6-/ *.,' 65*.' =-1=-6,% ,.' .;-6>*'*L>**0*0',)6,'1' >/ 7 ?1-*' ,)62'6')6/ '620' ,' >1--*.=120*0'=-*,,'2*6-/ ',1',)*' =-*.*2,'=-1+ 2>*' 1' ,D6-6'D*,8**2' Nj'620' Qj' % /6,*' 2' ?10*?', ?*.' ,' 1-?*0'6'5-*6,'=6-,'1',)*' 9 2501?'1' *2266-'620',)*'.1;,)*-2'=1-, 12'D*/125.' ,1' D .. 2 6% $=12',)*' . 620'1'<*-1*'/6 '6'>, '1' ,)*' .6?*' 26?*'>,)*' ?*,-1=1/' 1',)*' 9 2501?',)*' . ,*' 1'8)>)'6.'D**2'0 .>1+*-*0'2*6-'6'=6>*' >6//*0' ..;-'6D1;',8*2, '?/*.'21-,)'1',)*',182'1')*2C 0 ';20*-' j' %/6,% ()*'.=/*20 0'-;2.'1',*?=/*.' = -6?0.'620'1,)*-'*0 >*.'1;20')*-*' 620')-1;5)C 1;',)*'0 .-> ,')6+*'D**2'0*.>-D*0D' 6//6;0'46;' $;==*//' */[12 '&600 25,12' :1.9 2.' 620'1,)*-' -6+*//*-.' 620'6,,*.,',)*')5)'0*5-*-*' 1 '>+/[6, 12' 620'6-,'6?125',)*'62> */,' ,)1=62.% **' ! B1.*=);.' 2').'6>>1;2,'1',)*'*L=*0 ,12'1'<1.*' 8)*2'>1?620*-'1',)*' 5 =, 62'6-?'656 2.',)*' ,)1=62.'.6 .',)6,',)*' /6,,*-' 6,'/*25,)'-*,-*0' ' 6D6'6'-1 6/>,'1' ,)1=6'8)>)' 6?D .*.'6 ,*-^ 86-0.'>6//*0'<*-1*'6 ,*-',)*'26?*'1')..'182'..,*-J' I&' !' 'KX% ()*.6?*'1-5 2'1',)*:?6?*.'5+*2' D1,)'D ' ,-6D1'620' 101-;.' >;/;.'D;,' .**'<62C 2*-,.'? ' '"'? +' '5 'L' RR% ()*-*' .',, // 6'=/6>*'>6//*0' '>12. 0I*-6D '21-,)'1',)*' ./620'620'2*6-'<1;2,' *-96/'8)*-*' :**-*2',)29.' ,)*-*'?6')6+*'D**2'6'.*,,/*?*2,'1',)*'=6-*2,'.,6,*' >6//*0'D',)*'.6?*'26?*%' ()7'1=2 12'1'B1.*=);.' ,)6,'<*-1*'&6.'0*2,>6/8,)' *D6'6>>1-0.'8*// 8,)' ,)*'.,6,*?*2,' 2'4*2%L' ',)6,' *D6'86.',)*'*/0*.,' .12'1' "'8)1.*'26?*'M X'.'21,',1'D*'>12 1;20^ *0'8,)'*,)*-'1',)*')*D6.' 8)1'6-*' ?*2^ ,12*0'6.'0*.>*2062,.'1'$" 'M4*2%L'KQT LL+'NX% 18',)'.'>1;2,-'1' ->62' *D6' .'>/6..*0'8,)',)*' -6D 62')*D6'6.'6'->)' D;,' 6-C0 .,62,'/620'M ..7 LL 'X' 2' .6%L$ 'N'410 .6 .',1' .-6*/' ')6+*' 5 +*2' 5 =,' 1-',)A'-62.1?T ;.)'620' *D6%' 2',) ' .,*60' 620' 2' .6%L/+' ' ()*38*6/,)'1' 5 =,'620' ,)*' ?*->)620 .*' 1' ;.)'620'1',)*' *D6 ?' ?*2'1' .,6,;-*'.)6// =6..'1+*-',1',)*'*' 620' .)6// D1',) 2*%J')6-/*.' (6 /1-',)*' 25*2 1;.' D;,' 62> ;/ *0 ,1-' 1' ')60',)*'.25;/6-'21, 12',)6,'D ',)*'*L=-*.. 12' ?*2'1' .,6,;-*J' 2',)6,'=6..65*' .' ?*62,' ?*2'1' " '?*6.;-*' 1-'086-.T 620')*2>*')*' 0*2, *.C,)*' ,) 1= 62.'8 ,)',)*'=5?*.'1'62, _;, 'I@ ' '>>>LL X% ;',)*' :*D-*8'=)-6.*' =/6 2/ ' 0*21,*.' ',6//2*..'1'.,6,;-*J'M>1?=%)-12%L'KNX I' 620',)*' ,) 1= 62.'6-*' 0*.>-D*0'D ':*-101,;.'6.'1' 5 562,>'.,6,;-*' I % ' + ' ' T % ' %"D- 'N' 'K XT 620' 1$2;.'6 -?.',)6,',)*'8*-*' ,8*/+*' **,' 2')*5),'I " '>6=% LLLX%' 2'>1?^ ?12'8,)',)*'1,)*-' ;.),*',-D*.'1' ->6',)*.9 2' 86.'D/6>9',1'8)>)',)*-*' .'62' D+1;.'6//;.12'2'B*-% L 'KN' 62',)*' ;.),*'>)625*').'.9 2'HJ' -;>*' 20.' *D6'2' [6D'6'.>6C=1-,'12',)*' *6.,'>16.,'1' ^ ->6'2*6-',)*' *2,-62>*',1',)*' *0' *6'620'2',) .')* .' 1//18*0'D ':**-*2'8)/*' 1,)*-.',) 29'1'6'=/6>* >6//*0' ;D6)'6D1;,'/6,% j' %'8)*-*'6-*'.*?*'1',)* ?1.,'-*?6-96D/*'-;2.'1' ;D 62'5-620*;-T D;,'D1,)' 1= 2 12.'67* ?*-*/ '>12%*>,;-6/% ** f 6 ?125'1,)*-',-D*.'1' ->6'.6 0',1')6+*'D**2' 2' 6// 62>*' 8,)' 5 =,' ,)*' =-1=)*,' [*9*/ MLLL' X' ?*2, 12.'6/125'8,)' ,)1=6',)*'26?*'1'MW8S98)>)' <>)6*/.'>122*>,.' 8,)') "'6',-60 25',182'0*^ .>-D*0'D' 1,1/*?'6.'12',)*'8*.',)>16.,'1',)*' *0' *6% ;',' 2',)*' -6D>',-62./6, 12'?60*' -1?',)* *=,;65 2,'2.,*60'1' " '8*' 20' ,)*' =*1=/*'1' 78)A1J'6'26?*'*6./'2,*->)625*0'1-',)*'1,)*-'620' 2'.1?*' :*,' <%6>,;6// '-*60',)*-*% B)*-*'6-* ., //,81'0.,->,.'60A1 2 25'<*-1*'12',)*'.1;,)C8*.,' >6//*0' '620'7 '8)>)'6-*' .6 0',1'6D1;20' 2' 51/0% ()*'$ ++ '8)1'6/125'8,)',)*' ;.),*'620I' ;)?'1-' D 62.'1-?*0'=6-,'1',)*')1.,'1').)69' MK)-12%L 'NX'6->'2',)*' *=,'0*.526,*0'6.'(-15^ /10 ,*.'%>%6W7*C08*//*-.'620'f+*-*'21'01;D,',)*'=*1^ =/*'92182',1',)*'4-**9.'D',)*' .6?*'26?*'6.'2)6D^ ,25',)*'?1;2,6 2'>6+*-2.'12',)*'8*.,'1',)* *0' *6'M 10% >*' 'NKT' ,-6D1'L+ '=*Q X% ()*' 8*-*'21,*0'1-'.8 ,2*..'1' 11,'620' 2',)* ;.*'1',)*'./ 257620')*2>*'8*-*'*?=/1 *7'6.':*/101C -;.'2 1-?.';.'I 6 " '+ ' SX'6.'/5),'-11=.% / 2 '?69*.'?*2, 12'1'6' 1 '$ "'2',)6,'-*5 12' M7K V% 7 !'+ 'KR'N X'620',)*-*' .'.,//12',)*.6?*' >16.,'6'=/6>*'>6//*0' ;69?'0*.>-D*0'D' ; L9)6-0,' 2).'- '7 !' ')18*+*-',)*',*-?'$ +=' # 'D*'1':*D-*8'0*-+6,12',' 81;/0'.=*>6// '0*^ 21,*',)1.*' 8)1/+*0' 2'D11,).'%*' ,6D*-26>/*.'?60*' 1',)*' " ' :'620',)0*.*-+*.'-*?6-9',)6,',)*)6256//6.'8)1'2)6D ',),)6,'>1;2,-'.,//08*//0;-25' ,7/*5110'.*6.12'2'6-D1-.' ,,*0';=' 1-',*2,.'-*=6-25' 2'8 2,*-',1',)*-'-1>9'>6+*.% **' $! 2',)*'65*'1':*-101,;.',)*'>1;2,-*.'92182' ' 6.' ;D 6'620' *2266-'8*-*'1>>;=*0'D',81'0 *-*2,' -6>*%.'12*'1'8)1?')*' 2>/;0*.';20*-',)*'5*2*-6/6=^ =*//6, 12'1' ,) 1= 62.',)*'1,)*-'62' ? ? 5-6,1-' -6^ D 62'-6>*'/*60 25' 1-',)*'?1.,'=6-,'6'21?60>/ *% ()./0.,2>, 12')6.'>12, 2;*0'0182',1',)*'=-*.*2,'06 % ?125',)*'1-5 26/ 2)6D,62,.',)*' -.;=/6>*' .'(;,1',)*' ;D 62.'8)1'6-*'8*//C 1-?*0'.,-125'620'2-1C

2/6-' 620' 8 ,)' 21,) 25' 8) 6,+*-' 1 ',) *' 2*5-1' =) . ^ 1521? ⅋ ()* 5Z7 6-?*0' 8 ,)' .=*6-' .81-0' 620' 6' .) */0' 1 ' ,) *' .9 2' 1 ' ,) *') ==1=1,6?;.⅋ 1;,)' 1 ' 7 1251/6' .' ,) *' >1;2,- ' 1 ',) *' >)* 5 6. ' 8) 1.*' 86-^ - 1-.' 6-*')1-.*?*27 6/.1' 6-?*0' 8 ,)' 6' 01;D/*C=1 2,*0' .=*6-' . 81-0' 620' 6' /6-5*' .) */0' M>1?=⅋B*-⅋ L/+ ' R' ,) *' ' ;.) ,*.' 8) 1') 620/*' ,) *' .) */0JX⅋ ()* ' 8*-*' >1?=/*,*/ '% 20*=*20*2,' , //' .;D0;*0' D ' <*)*?*;' / ' =6>)6' 1 ' 5 =,⅋ ;' .' 2' ,) * -' >1;2,- ' ,) 6,' ,) *I= C -6? 06/ ?12;?*2,.' 8, >)' 601-2*0' ,) *' 62> *2,' <*-1 ' 6-*' -.,' ?*,' 8 ,) ' 620' *+*2' 26?*') 6.' D**=' =-*C 3.*-+*0' 2' ,) 6,' 1 ',) * -' >) * '=/6>*' <*-68 ',) 1;5)' ,) *' 1-5 26/ <*-1 ' ?;.' D*' .1;5),' 6-,) *-' .1;,)⅋ *L,' >1?*.' ,) *' ,*-- ,1- ' 1 ',) *' *-D*-.' .,- >,/ ' .1' >6//*0' 8)1',) 1;5)' .=*69 25' -6D > ' *+ 0*2,/ 'D*/125',1',) *' ;D 62' -6>*⅋ D1+*' ,) *.*' 1*5 12.' D* 120' ,) *' (6C >6[[7' 620' 6/125',) *' /*' ,) *' 5-*6,' ?6..' 1 ',) *' 2^)6D ,62,.' ,) 1;5)' .1?*, - *.' 8 ,)' 6' ? L,;-*' 1 '1,) *-' D/110' ?6 ' D*' -*56-0*0' 6.' 1 ' -6D' 1- 5 2⅋ ;' ,' D*^ ,8**2' ,) *' +6//*' 1 ',) *' /*' 620' ,) *' *0' *6' ,) *-*' .,//' 6.' 1 '1/0' 6'+6- *, ' 1 '.>6,,*-*0' 6D1- 5 26/,-D*. ' 6?125D' 8)1?' ,) *' -6D >' .' ?;>)'/*.,' >1?? 12?' ,) *' 6-*' 01;D,/*.. ' =6-,/ ' ,) *' 0*.>*2062,.' 1 ',) *' 6D1+*C ?*2, 12*0' ;99 ?' 1-' (-15/10 ,*.' 620' 1 ',) *' >)C ,) 1=)65 '1-' .)C*6,*-⅋ 1?*' 1 ',) *?' .=-*60',) *?^ .*/+*.' 1+*-' ,) *' =/6 2.' 1 ',) *' .,6D1-6. '1-' (6>6[[' D* 25' >1?=*//*0',1' -*?1+*' ,) *.-' *2>6?=?*2,. ' .12 =C 3, ?*.' D ' ,) *' 2;206, 12.' 1 ',) *' - +*-' 6,⅋1,) *-' ,?*.' D ' ,) *' 6,,6>9.' 1 ' ,) *' 0-*60*0' / "1' 1-' 560C / ' 0*^ .>-D*0' D ' -;>*' 620' 8) >)') *' .;==1.*.' ,1' D*' ,) *' / ' 8) >)' .' 2' ,) *' ;,?1.',=6-,' 1 ' ,) *' - +*-.' 1 ' 5 =,J' M .6⅋ + ' QX⅋ 21,) *-' -*?6-96D/*' ,) 1=>' -6>*' 2' 62> *2,' ,?*.' 86.' ,) *' " 1' .1' >6//*0' -1?',) *-' .;==1.*0' /125*+ , ⅋ ()* '8*-*'=-*.*2,^ *0' D ' ,) *' 6?D6..601-.' 1 ' 6?D .*.' 6.' 6' +*- ' ,6//3 -6>*' 8)1'*/*>,*0',) *') 5)*..' 2' .,6,;-*' 6.'9 25ⅆ 51/0' 86.' .1' 6D;2062,',) 6,',) * 'D1;20',) * -'=- .12*-.' 8 ,)' 51/0*2' *,,*-. ' > ->;?..62>*.' 8) >)' 656 2' -*? 20' 2.' 1 ' .6 6) .' 0*.>- =, 12' 1 ' ,) 1= 6' 620' *D6' 2' >)⅋ L/+ //⅋ M **' ;01/ '# '!1 + % *' ⅋' 60' <⅋ /' 8 ,)') .' ' ,) *-*12' D⅋ SR ' 620') .' (!' 2(" !' ' D⅋ SRNX⅋ **' !

K⅋ ()6,' .1?*1',) *' =1.,*- , '1 ' ;.) ' .*,,/*0' 2',) *'18',) 6,',) *' 26?*' 1 ' ;.) ' 86.' *+*-' 6==/ *0',1' 62 ' .1;,)' '& ' ?6 '-*60 / 'D*' 5-62,*0T D;',) 6,') *' 56+*' 6' =*-?62*2,' 26?*' ,1' 62 ' =1-, 12' * ,) *-' 1 ',) *' >1;2,- ' 1-'=*1=/*' .' D ' 21' ?*62.' .1' *+ 0*2,' ,' . ' 6,' /*6..' ?1-*' 6' ?6,,*-' 1 ' 2 *-*2, 6/ >12A*>,;-*' ,) 62' 1 ') .,1- >6/' >*-,6 2, ⅋ /?1.,'6//',) *' =6..65*.' ;.;6// ' > ,*0' 2' .;==1-,' 1 ',) *' 6+*-?*2,'6-*' .;.>*=, D/*' 1 '6' 0 *-*2,' 2,*-=-*,6, 12⅋ M ⅋X 1-' *L6?=/*' 2' ;?⅋ ' K ' < -6?' 620' 6-12' 6-*' .6 0' ,_')6+*' ,69*2' 1 *2>*' 6,' <1.*.' 1-') 6+ 25' ?6-- *0' 6' ;.) ,*..TJ' 620' ;=12' ,) *' =-*.;?=, 12',) 6,',) .' 86.',) *' .6?*' =* 712' 6.' U =C =1-6) ' 06;5),*-' 1 ',) *' =- *.,' 1 ' < 0 62' M L10⅋ ' S' K X' ,' .' 2 *--*0',) 6,' < 0 6D' 86.' 2' ;.) ⅋ ;,' ,1' .6 '21,) 25' 1 'U ==1-6) .') 5)'-629 ' -' 1 ',) *' ..*-+ >*.' 1 ') *-' 6? / ',1//.-6*/',) *-*' 81;/0') 6+*' D**2' .1?*^ ,) 25' .1' 5-1../ ' 2>125-;1;.' 620' 6D.;-0' 2' <1.*.' ! D-1,) *-' 620' . .,*-' >1?=/6 2 25' 1-',) *' -.,', ?*' 1 ') .' .*/*>, 12' 1 ' 6' 8 *' 6 ,*-',) *' ?6-- 65*') 60' .;D. .,*0' 1-' ?1-*' ,) 62' 1-, ' *6-.' ,) 6,' ,' .' *+ 0*2,' U ==1-6D' 86.' 218' 0*60' 620',) .' .*>120' 8 *',) 1;5)' 01;D,/*.' 6' =-1.*/ ,*' ,1' B;06 .?' 86.' M8) *,) *-' D1-2' 2' . 6' 1-' - >6⅋ 6' 0*.>*2062,' 1 ' ;.) ' 620',) *-* 1-*' 6' # ' 620' 21,' 12*' 1 ',) *' < 0 6) ,*.' 8) 1' 8*-*' 1 ' $+ ' 1-5 2' D* 25',) *' >) /0-*2' 1 ' D-6) 6?' D ' *,;-7) ⅋ ;,' 60? ,, 25',) 6,' ,' .' 6' .*>120' ?6-- 65*' 8) >)' .' ,) ;.'-* *--*0',1',) *' >6.*' .' 21,' ?6,*- 6// '6/,*-*0' 1-' ., //' ;.) ' ?=.,' D*' .1;5),' 2*6-',) *' =/6>*' 1 ' .-6*/ .' *2>6?=?*2,' 6.' ,' >6221,' D*' .;==1.*0',) 6,' <1.*.' 81;/0' 51',1' ,) 1= 6',1' *,>)' 6' 8 *⅋ **2 ,, ' ! MK⅋X ,) *-.' 0 .>1+*-' 6' >122*>, 12' D*,8**2' ;.)' 620' < 0 62' D*>6;.*' 2' : 6D⅋ ' ',) *' >/6;.*' .68',) *' ,*2,.' 1 ' ;.) 62' 2' 6 />, 12 J' 20.' 6' =6-6//*/ .?' 2' ',) *' >;-,6 2.' 1 ',) *' /620' 1 ' < 0 62' 0 0',-*?D/*J ' " 'D* 25')*/0',1' D*' ,) *' =1*, >6/' 620') 5)C.1;20C 1-?' 1 ' "' ;',) .' 0*6' .' ?*,' D ' 621,) *- 0*2, >6, 12' 1-' 8) /*' ,' .' 6>9218/*05*0' ,) 6,' =6-,' 1',) *' .;D/ ?*' 0*.>- =, 12' 2',) 6,'>)6=,*-'-* *-.',1',) *' L10;.' 620',) *' ,-62.6>, 12.' 6,' 26 '1,) *-' =1-, 12.' M.;>)' 6.' ,) *' =6..65*' 1 ',) *' B1-062' +*-.*' ' 620',) *' .,620 25'., // 1 ',) *' .;2' +*-.*' X')6+*⅋=/6 2/ ' 6' -* ^ *-*2>*',1' 2> 0*2,.' 2',) *' D119.' 1 'B1.) ;6' 620'B;05*.⅋ 18' 2',) *' /6,,*-' D119M ' ' ?+ ' KX 8*' 20' 6'-*>^ 1-0'1 '. 526/+ >,1- *.' .;>>*.. +*/ '1D,6 2*0'D ' ,)2 */ 1+*-' " ' . 66,D6 ?' 9 25' 1 ' <*.1=1,6? 6' 620' D ' 4 0*12' 1+*-',) *' =- 2>*.' 1 ' f **' g $ f MN⅋X ;';=*-)6=.' 6' .,-125*-' 6-5;?*2,' .',) *' ?*2, 12' 1 ' -6D 62.' 6.' >12, 5;1;.',1',) *' ;.) .*⅋ ();.' 2' K)-12⅋ LL ' S' 6?125',) 1.*' 8) 1' 8*-*' .,--*0' ;=' 656 2..',) *' :*D-*8.' 6-*' ?*2, 12*0',) *') /.,2*.' 620' -6D.',) 6,' 8*-*' 2*6-',) *' ;.) ,*. J' 620',) *' *L=-*.. 12' 2*6- I M 7' 2',) .' >122*>, 12' >62' 3.>6->*/E7 ;==, ',1' 62 'D;,' 08*//*-.' 2',) *' -6D 62' =*^ 2 2.;/6⅋ ,) *-' 6-5;?*2,.' 600;>*0' D ' < >)6*/.' I$% ' ? %"!' " ' ' RX 2' 6+1-' 1 ',) *' -6^ D 62' ;.)' 6-*' 21,'0*>.+*' 620',) *' =6..65*.' 12' 8) >)') *'-*/ *.' 6==/ ' 8 ,)' 5-*6,*-'=-1D6D / ,' ,1',) *' / ->62' ;.) ⅋ ();.',) *' -*,-*6,'1 ' *226>)*- D' -1?' B;0.*6' 2'1-0*-',1'?**,(-D696D'MK' 25.'L L 'RT' .6⅋ LLL+ ' RX' 01>.' 21,' 2*>*..6-/ ' ?=/ ',) 6,',) *' /6,,*-' =6..*0' ,)-1;5)' 6/*., 2*' . 2>*' ,) *' 57=, 626') 60' -*6>)*0' 6->)*? .)' 12' ,) *' ;=)-6,*.I' 8 ,) 1;,' 01 25ⅆ.1' MK')-12⅋ LLL+ ' K X' 620' (-)696)' 86.' ;201;D,*0, ' 6-,' - >62' =- 2>*⅋ **' 0 · ·! 56 2' ,') 6.' D**2' -6.)/ '>12>/;0*0',) 6,'U*-6)',) *' ;.) ,*' 8) 1' 6,,6>9*0' .6' 9 25' 1 'B;06) ' 8 ,)' .1' ? ?*2.*' 6') 1.',MK')-12⅋ L +' RX' >1;/0' 21,') 6+*' D**2' 62' ,) 1= 62' 1 ' - >6' 620' *,',) *' 6>,' 1 ') .' 6-? ') 6+ 25' 2>/;0*0' DA 62.' ML+ ' X' 6.' 8*// 6.' ,) 1= 62.' .**?.' 0*> .+*' 1 ',) *' 6>,',) 6,',) *' /6,,*-' 8*-*' 1 ' - >62' 1- 5 2⅋ ()* -' 62^ >*.,1-.' ?6 ') 6+*' D*/125*0',1',) *' =*1=/*' 8 ,) 1;,' 2;?D*-J' 8) 1?') .) 69') 60' /*0' 1 ,)' 656 2.,' .6.' 5-620 6,) *-' *) 1D16?' ML ' NX' 620',) *' .*' ,) *' -' 0*^ .>*2062,.' ?6 ') 6+*' -*,6 2*0' =1..*.. 12' 1 ',) *' 21-,)' 1 ' -6D 6' *,-.*6' D*,8**2' 6/*., 2*' 620' 5 =,' M.**' -;>*.' - ' 'N X⅋ **' 2 · !

*,' ,) 1;5)' ,) *-*' .' 6' 5-*6,' /6>9' 1 ' *+ 0*2>*',1' 6=-,' 1 ' -6D 6' ,) *-*' .**?.' 21' -*6.12',1' 01;D,',) 6,' 6' =1-, 12' 1 ',) *' ;.) ,*' -7>*' 0 0' *6-/ '.*,,/*',) *-*⅋ >^ >1-0 25',1',) *' *,) 215-6=) >' ,6D/*' 2',) *' ,)' >) 6=,*-' 1' 4*2*. .' ;.)' 86.',) *' 6,/A=-' 1' *D6' : 6+ /6) ' 6D' ,6' 66-66)' M8) 1.*' .12.' 8*-*')*D6' 620' *062X' ODC ,*>) 6) ' 620' 6/.1' 1 ' ?-10' M4*2⅋ L ' ' ! ')-12⅋ ' R X⅋ ()*' /6.,' ?*2, 12*0' 6==*6-.' ,1') 6+*' ?1+*0' 21-,) 86-0' -.,' 2,1' 6D /12 6' 620',) *2' 2,1' & 1 ' D;',) *' 1,) *-.' .**?',1') 6+*' ? 5-6,*0',1',) *' .1;,) ' ,) 1;5)' ,' .' ?=1.. D/*' 6>>;-6,*/ ',1',-6>*' 1;',) *' -' .*,,/*?*2,.⅋ *,' *+*2' ' 8*' 5 +*' *D6',1' - >6' 620'=6..' 1+*-7.' 01;D, ;/',) *' 26?*.' 1 ' : 6+ /6) ') *^ D6' 620' *062' M 1-',) *.*' 8*-*' 6/.1',) *' 26?*.' 1 ')*C ? ,>' D*.' 4*2⅋ L ' KQ' KRT' LL+ ' NX' ., //' 2' [*9⅋ LL+ ' ' 66?6)' .' =/6 2/ '>/6..*0' 8 ,)' ,) *' ,-D*.' 1 ' -6D 6' 620' 218) *-*' 6-*' 62 ',-6>*.' 1 ' 6D,6D' 620' 6D,**D6)',1' D*' 1;20' D;',' 2',) *' .6?*' >1;2,- ' -* *-- 25') 18*+*-',1',) *' -*/6, +*' 5*15-6=) >6/ =1. ^ ,12.' 1 ',) *' .1;,) C8*.,' >16..' 1 ' -6D 6' 620',) *' *6.,' >16..' 1 ' - >6' ,' 8 // D*' .**2',) 6,' 21,) 25' .*=6-6,*.' ,) *' ?' D;',) *' *0' *6' 620',' .' 21,';2/ 9*, ',) 6,' 8) /*' 6'=6-,' 1',) *' ;.) ,*' =1=;/6, 12' ?? 5-6,*0',1' - >6' 1,) *-.' 7?6 2*0' D*) 20' 620' 8*-*Y1>>6. 126// ' >6//*0' " ',) *' .6?*' 26?*⅋ 2',) *' ,)' >*2,;-' 1' 1';-' *-6' ,) *' : ?6-A ,*.' 2',) *' .1;,)' 1' -6D 6' 8*-*' ., /*0' D' - 62' 8- ,*-.' ;.) *62.' 620' ,) 1= 62.' M ..*?622' ; !' ' 'NS ' SQX⅋ ()*') 6/0*'*=6-6=)-6.,' 7(126,)62' 6,' 4*2⅋ ' 620' 621,) *-' =6-6=)-6.,' 6,')-12⅋ ' ' *L=/6 2' ;.) J') ' -6D 6⅋ *D;)-' >; " ! =⅋ KQRX' 1;20I' 2' *?*2' 6',- D*' >6//*0' ; ' " ! ()*' D119' 1 'B1D' MLL+ ' RX' .=*69.' 1 ',) *' ,1^ =6[' 1 ' ;.) ' 620',) *-*' 86.' 6' (1=6[' ./620' 2',) *' *0'

&

; .) 12%' *>' 8 'g + !
d
; .) ? 6 2 ' > ' '6' 6=, ..' ? 2 .,*- ' 86.' D1-2' 6,' 25.,12 ' <6..%' 6 ' K ' QQ%' : *' 86.' 1-06 2*0' =6.,1-' 1 ',) *' -.,' 6=, .,') ;->)' #' : 6-, 1-0 ' B ; 2*'
Q N%' 2' QK ') *' 86.' ? 60*' <% %M) 121-6- X' D ' 6/*' 1//*5*%' 2' QK ') *' -*052*0') .' >) 6-5*' 2' : 6-, 1-0 ' 620' D*>6 ? *' =6.,1-' 1 ',) *' *8' < 6-9*,' ,-**' 6=, .,') ;->)' 1 ') /60*/=) 6%' 2' *=,*? D*-' QKR') *' -*,;-2*0',1' 122*>, >;,' 620 ' ,*-'=-*6>) 25' .1 ? *' , ?*' 6,' ,-6, */0 ' 86.' 2' =- / ' QN ' >6//*0',1' ,) *' =6.,1-6/ >) 6-5*' 1 ',) *' 6=, ..' >) ;->) ' 2' *8' : 6+*2%' 2' QN ') *' -*? 1+*0',1' / ? 1 ;,) ' < 6..%' D ; ,' -*,;-2*0' ,1' : 6-, 1-0' 2' QNQ' 620' -*. ; ? *0',) *' *0 ,1-.) =' 1 ' -" !
" '$ ' 6'-*/ 5 1 ;. '=6=*-' 1 ' 8) >) ') *') 60' D**2' ,) *' 1- 5 26/ *0 ,1-' 2' QKK%' : *' 0 *0' >,1D*-' KS' QNQ%' <-%' ; .) ? 62 .' =-*6>) 25' 86.' . ?=/*' 2 .-; ->^ , +*' 620' 1 ,*2' */1_ ; *2,%' : *' I=; D/ .) *0' 6' 2 ; ? D*-' 1 ' 1>>6. 126/ .*-? 12.' 620' 600-*..*.% ' =-65 ; *' & ' + ' SK%

; . = ; %' **' $!

; . ,1 ? ' M) 6/0%' " "('6' 86 C,6L ' %'*%' ' [-6' + ' N ' K T + ' K T 4-%' - d1>' 6' ' ' <6>>%' L ' N T <6,,%' L+ %K T' 1 ? %' L ' T' 1=1>' ' K' <6>>%' + ' KQ' - * 4 '% ' ' <6>>%' L ' KRX' / ' ' I E 8N ,N ' ((' ' %' *%' =" ! ' <6,, ' L ' RT' : 6-9' ' T' ; 9*' + ' K X%' **' o ' $20*-',) *' *-^ . 62' 620' - 62' . ; =-*? 6> ' ? =1.,.' 1 '+6- 1 ; .' 9 20.' 8*-*' >1//*>,*0' D ' /1>6/ 65*2,.%' $20*-',) *' 1 ? 62. ' ,) *' ? 6265*? *2,' 1 ',) *' =-1+ 2> 6/ -*+*2 ; *.' 86.' 5*2^ *-6// ' >1 ? ? ,,*0',1',) *' 1 ? 62' 92 5),. ' 8) 1' 8*-*' ,) *2>*' 0*21 ? 26,*0' " % ' 1-' >) * '>1//*>,1-.' 1 ',) *' ,6L*.T',) *' ,6LC56,) *-*-.' 1-' *L6>,1-.' 8) 1 ? ' ,) *' *?=/1 *0' 8*-*' &!% ! ,' 86.' 0 *-^ *2,' 2' B ; 06*6' 1-' ,) *-*' ,) *' ? 6265*? *2,' 1 ',) *' -*+*^ 2 ; *.' 86.' >1 ? ? ,,*0',1',) *' B* 8 .',) * ? .*/+*. ' 620',) 1.*' 8) 1') *0',) .' 1 >*' *+*2,; 6// ' 1D,6 2*0' 62' *_ ; 6/ -629' 8 ,)' ,) *' 92 5),.' 1 I' 1 ? *' M ;9*' L L ' KT' B1.*=) ; . ' ' RX%' ( ) *' . ; D1-0 26,*' 65*2,. ' '% ' 2' >1//*>, 25',) *' -*+*2 ; *. ' ,119',) *' -' =1. , 12' 6,' ,) *' 56,*.' 1 ' > , *.' 620' 2',) *' =; D/ > ' 86 . ' 620 ' 6,' ,) *' =/6>*' 6==1 2,*0' 1-',) 6,' =; -=1.* ' >6//*0' ,) *' (~(= %' ' (P' *L6 ? 2*0',7*' 5110.' ,) 6,' =6..*0 ' 620' -*^ >* +*0',) *' ? 12* .' ,) 6,' 8*-*',1' D*' =6 0' M < 6,,' L ' KT' < 6-9' ' T' ; 9*' + ' K KRX%' ( ) *.*' ,6LC56,) *-*-.' ' 8*' ? 6 ' D*/ '+*' >*-1' > '@ ! ' KQX' 8*-*' ? 1-*' 2>/ 2*0',1' *L6>,',11' ? ;>) ',) 62',1' 1-5*',' ,) *' =-1 ? .*' 78) >) ',) *') 60' ? 60*',1',) * -' ? 6.,*-.' 620' 8*-*' 6>^ >1-0 25/ ' 2' >12.*_ ; *2>*' 1 ',) *' -' *L,1-, 12.' *+*- ^ 8) *-*' ? 1-*' =6-, >;/6-/ ' 2' B ; 0 >6' 1DA*>,.' 1 ')6,+*0' 620' 8*-*' =/6>*0' 2',) *' .6 ? *' >/6..' 8 ,)' 21,1- 1 ; .' . 2^ 2*-.' M < 6-9' ' ST' ; 9*' ' K NX%' ( ) *') 6- C' '.**.') */0' 21' >1 ? ? ; 2 >6, 12' 8 ,)' ,) *' ? T' 620' 12*' 5-1 ; 20' 1 ' ,) *-' -*=-16>) *.' 656 2.',) *' 6+ 1 ; -' 86.' ,) 6,') *' 0 0' 21,'-* ; .*' ,1' . ' 6,' ? *6,' 8 ,)' =*-.12.' 1 ' .;>)' 6' >) 6-6>,*-' M < 6,,' +' S' T' L ' T' L ' RT' L+ ' T' LL 'N 'QKX' ( ) *' " " -1 ' ' 86.' 6',6L' 1-',- D) ;.*' ,1' D*' 76 0' 622 ; 6// ' D ' *+*- ' 60 ; /,' B* 8' 6,' ,) *' (*?=/*%' ,' 86.' 2,-10 ; >*0' 6 .*-',) *' >6=, + , ' 2' >12.*_ ; *2>*' 1 ' 6' 8-125' 2.*-=-*,6, 12' 1 ' >*-,6 2' *L^ =-*.. 12.' 2' ,) *' *2,6,*;>) ' 620' 0 *-*0C -1?' ,) *' -*+*2 ;*' 8) >)' 6>>-;*0' ,1' ,) *' 9 25. ' ,*-6>-). I' 620' *,) 26>-). ' 620' -1?',) *' 5*2*-6/ ,6L',) 6,' 86.%6..*..*0' 1-',) *' 1 ? 62' A>.6-.%' ,' 86.' -*_ ; -*0',) 6,',) .',6L' .)1 ; /0' D*' =6 0' 2' B*8 .)' >1 2' M < 6,,' LL ' C RT' < 6-9' L ' X%' ( ) *' =-1 ? 2*2,'1DA*>,' 1 ',) *',*? =/*' ? 12^ * C>) 625*-.' M_%' %X' 86.' ,) * -' 182' =*-.126/ *? 1/ ; C %? *2,T D ; ,' ,) *' 6>_ ; . , 12' 1 ' =-1=*-, ' 2',) .' 86 ' 86.' >12,-6- ' ,1',) *' .= - ' 1 ',) *' /68' 2' *2,' LL 'K K %' ,' 86.' 1-',) .' -*6.12',) 6,' B*. ; ' 0-1+*',) *' ?' -1 ?',) *' ,*?=/*' M < 6,,' LL ' KKT' < 6-9' L ' T' B1) 2' ' SX%' < *..*25*-.' 8*-*' .*2,' 2,1' 1,) *-' > , *.' 1-',) *' =; -=1.*' 1 '>1//*>, 25',) .' ,6L' M < 6,,' L+ 'K X%' ( ) *' B* 8 .' 8) 1' 01//*>,*0',) .' ,6L' -1?',) * -' >1; 2,- ? *2' 08*// 25' 2' 1 72' 26, 12.',-62. ? ,,*0',) *' .; ? .' >1//*>,*0' *+*- ' *6-',1' B*-; .6/*? ' ( ) .' 6>>1; 2,.' 1-',) *' ? ? *2.* 6? 1 ; 2,' 1 ',) *',-*6. ; -*.' 8) >)' 018*0' 2,1',) *' (*?=/*' MB1.*=) ; . '& 'L + ' 'KX%' **' O .

; ,) ' 0%>' ? %' [O' < ' < ' 0%>' +><+) >!' **' $ ' *,>%T' > . $!

; ,) ' M : *D -*8 ') " ' 27/ ' . 52 %' ; 2921821' *=,%' O 81 ' K' 25.' L+ ' N X' 1-' ; ,) 6) ' M : *D%') + "(' 227/ ' *?%' 1 ' . 6? *T *=,%' d1270 ' +*-%' K X' 12*' 1 ',) *' 0 .,- >,.' 2' . 6' 8) *2>*') 6/? 62*. *-',-62. =/62,*0' >*-^ ,6 2' >1/12 .,' 2,1',) *' /620' 1 ' .-6*/ ' 8) >)') *') 60' 0*. 1/6,*0%' *>' ! -1?',) *' 2,*-? L,;-*' 1 ' ,) *.*' >1/12 .,' 8 ,) ' ,) *' -*? 6 2 25' 26, +*.' .=-; 25',) *' 6? 6- ,62.' M_%' +%X' 8) 1' 6-*' >6//*0' ; ,) ,*.' M2I -%B NX' 2' ,) *') 6/0**' 620',) *' (6/? ; 01' M.**' ; L,1- ' - ' >1/%' K X' 620' 1-',) *' .6? *' -*6.12' 6' 2 ; ? D*-' 1 ' 212C) *? ,/>' 81-0.' 8) >)' 1>>; -' 2',) *' 6? 6- ,62' 0 6^ /*>,' 6-*' >6//*0' ; ,) 62' M>1? =6-*' O 1 ' B1.*=) ; . ' & ' L ' 'NT' >1? = ' L 'R X%' B1.*=) ; .' =/6>*.' ; C ,) 6)' 2' >*2,-6/' *-. 6' M>1? = ' U126-%' ' =%' X' 620' 20.' ,) *-*' 6'- + *-' 1 ',) *' .6? *' 22? *' IO 1! '& 1 ' ' NT' F ' R X%' 1.*2? / //*-' 620' 1,/ *-.' 2>/ 2*' ,1' .**g' ,' 2',) *' -6D 62' -69 ' 8) 1-*' D ;) *06' 620' 1,) *-' -6D >' 620' *-. 62' 8- ,*-.' =/6>*' 6',18 2' 1 ',) *' 26? *' 1 ') =' " ' 2',) *' ,-6>,' 2*6-',) *' 6)-C/ 6/96' 1-' -1 6/ >626/' M,) *' 1 ; -,) ' 2' d*21=) 12' & " ' ' X' 8) >)' >122*>,*0' ,) *' ; =)-6,*.' 620' (5- .' ,1' ,) *' .1 ; ,) ' 1 ',) *' =-*.*2,' 65060%' % ( ) *' . ,*') 6.' D**2' 0*2, *0' 8 ,) ',) *' -; 2.' 1 ' - "' ? ? *0 6,*/ ' 60A6>*2,',1' 6D /12' M 2.^ 81-,) .' & '=%' S T' 21D*/ ' N + * ' =%' K KXT' ,) *' >626/ ? 6 ' D*',) *' - +*-',1' 8) >)' B1.*=) ; .' -* *-.%' ,) *-.' =-* *-' ,) *' >12A*>, ; -*' 1 ' ,*=) *2' <1-2' M 2' $51/ 2 ' -" ' + X' 620' 1' /*->' 8) >)' 0*2, *.' ,) *' ; ,) ,*.' 8 ,) ' ,) *' 1 ' 2' ; . 626' M -- 62 ' ' L / T / 2%' # ' 7 ' + ' N T' 10%' >%' L+ ' T' < 622*-,' ' RNX' 6' 86-/ 9*' ,- D*' 8) 1' 1>>; = *0',) *' ? 1 ; 2,6 2' -625*.' 0 + 0 25',) 1.*' ,81' >1 ; 2,- *. ' 620' 8) 1.*' /68^ /*..') 6D ,.' ? 60*' ,) *? ' 6',*--1-' *+*2',1',) *' *-. 62' ? *=*-1-.' M ,-6D%' L ' K T' L+ ' X%' ( ) *' 8*-*' 2*+^ *-' 8) 1// ' .; D0 ; *0' ; 2, /' /*L620*- .' *L=*0 , 12' 620' ,' ,) *-* 1-*' 6==*6-.' 00 ; D, ; /' 8) *,) *-') 6/? 62*.*-' >1 ; /0') 6+*' 56 2*0' .; > *2,' 6 ; ,) 1- , ' 1+*-',) *? ' ,1' * ^ *>,' ,) *' -*? 1+6/ 1 ' 62 ' >12. 0*-6D/*' 2 ; ? D*-T' ,) *-') 6D ,.' 81 ; /0') 6+*' ? 60*' .; >) ' 6' .,*=') 5) / ' *L=*0 *2, ' '=-6>, >6D/*%' -.,' ># ' '.%+%X' 0*2, *.' ,) .' 0 .,- >,' 80,) ',) *' ? 10*-2') + ' 1 ' ; . 626' ,) *' =-1+ 2>*' D * ' 1 ',) *' >; 2* 1-?' 2.>- = , 12.' 1 ' *) .,; 2' M *2 1 ' ' ' !') " '=%' Q' KX%' //' ,) *.*' >12A*>, ; -*.'-* *-' *..*2, 6// ',1',) *' .6? *' _ ; 6-,*-' 620' 62 ' 1 ',) *? ' .' =-* *-6D/*' ,1',) *' 12*' . ; 55*.,*0' D ' < >) 6*/ .' >$% ' ' X',) 6,',) *' ; ,) ,*.' 8*-*') 1*^ 2 > 62.' -1?' ,) 1' 2* 5) D1-) 110' 1 ' 0121' % 1 ; 20 25' ; =12',) *' >122*>, 12' D*, 8**2',) 1' 6? 6- ,62.' 620',) *' 012 62.' 6.' ..6,*0' 2',) *-' /*,,*-',1' /*L620*-',) *' 4-*6,' MB1.*=) %' & 'X' ST' L ' SX' 620%D*, 8**2',) *' 012 62.' 620',) 7' ; ,) *62.' 6.' *L=-*..*0' 2',) *'+*-^ . 12' 1 ',) 1') 6/0**' 6-6=) -6.,' .*; 01CB126,) 62' 2' 4*2%' F ' R' 8) 1' . ; D. , ,;,*.' 1-' 620' 2 ,) ; (6-5; ? ' ' N' 8) *-*' 6' . ? /6-' >) 625*' .' ? 60*' T ,) .' .' 8 ,) 1 ; ' 01 ; D ; ,' 1' D*' -* *--*0',1',) 1 -60 C' , 126/ D*/ * ' ,) 6, ' ,) *' 1- 5 26/ . *6,' 1 ',) *') 1*2 > 62.' & ' 12',) *' .) 1-*.' 1 ',) *' *-. 62' 4 ; / ' M : *-10 ' ' X%' 68/ 2.12' .' >12 0*2',) 6,',) *' 62> *2,' ; ,) ' .' 0*2, ^ >6/ 8 ,) ',) 1' ? 10*-2' -; 2*0' . ,*' " ' 6D1 ; ',8*/+*' ? /*.' 7 ? ' 6D /12' ># ' ' K N ' T' # !' 6 !' =%' N ' ._%X%' **' * ! ,*-' 6// ' ,' .' =1.. D/*',) 6,' ,) *-*' .' .1 ? *') .,1- >6/' 620' *, ? 1/15 >6/' >122*>, 12' M/$' >) 625*0',1' (X' D*, 8**2' $2 ' 620',) *' '" 1 ' 4*2%' ' N' 8) >)' ? ; .') 6+*' /6 2' .1 ? *8) *-*' 2',) *' .6 ? *' _ ; 6-^ ,*-%' **' $ ' !

; ,) D*-,' ! ' 62' *? 2*2,' ? 129 D1-2' 2',) *' 21-,) ' 1 ' 25/620' 2',) *' D*5 22 25' 1 ',) *' S,) ' >*2, ; - %' : .' / * ' ,f(,,*2' D ' *0*' .' ; // 1 ' ? 6-+*//1 ; .' .,1- *.' T D ; ,' .' >/*6-',) 6,') *' 86.' 62' *6-2*.' 620' 6 ,) ; /' ? 2 .,*-%' : *' 86.' *0 ; >6,*0' D ' ,) .' >1,, .) ' ? 129.' 6,' >1/? 9 //%' ,*-' D* 25' 1-' .1 ? *' , ? *' 6' ? 129' 2',) *' ? 126.,*- ' 1

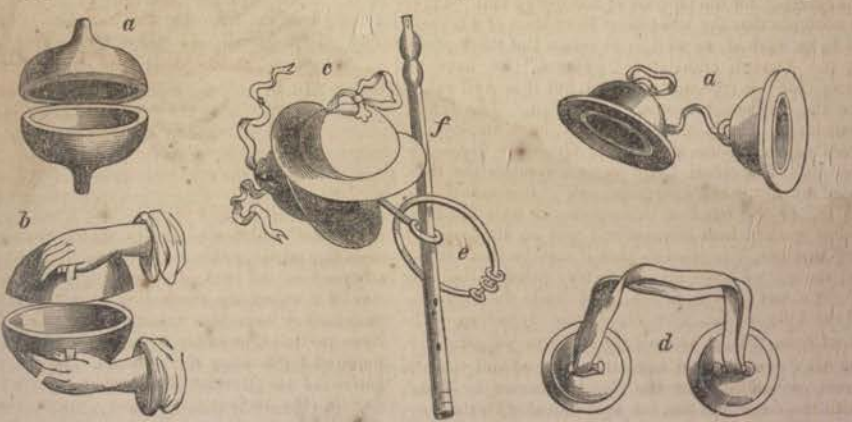
>2.. 12',119'=/6>*' 2',)*'>1//*5*'/D-6- ',)*'=-2>=6/'.=*69*-.' D* 25',)*'-*>,1-'620'<-% 6?;*/B1)2.12'M6,*-86-0.' -%B1)2.12'1':6-,1-0X12',)*12*.0*'3620'51+*-21-']6/,12..,6//12',)*1,)*-% ()*'-*.;/,'86.',)6,',)*'-*>,1-'0*>/6-*0')?.*/''>12 -?*0'2')'= .>1=6/=-1>/+,*.'620'2' >,1D*-' 1//18 25',)*'0*5-**'1'% %-1?'D1,)' L 1-0'620' 6?D-05*' 2' KN'12')..'-*,;-2')*'86.'6==1 2,*0'?..126-',1',)*1>*,'1-',)*-1=656, 12'1',)*41.=*/'620'D*^>6?*'-*>,1-'1')-.,');->)'1..12% 2',)6,'..,6^,12')*'0*0';5% S%:*'=;D/.)*0'.*+*-6/1>^>6.126/.*-?12.%'=-65;*'& 1'+'% 3

;,, 25':''''3'*L=-*..*0',*>)2>6// 'D'('M*+%LL'QX'1-' 2+'M*+%LL''8)*-*',)*'>1526,*'+*-D' (1'.';.*0'2',)*'.6?*'>122*>, 12X'6' "'1-'2>.12'M*=,' =-1V,*' ;/5% 8'2',)*'/*.)'M7DKNXT'6/.1'D'(MB*-%L/+ 'N X'6' '2',)*'.9 2'M*%5%,)*')620'6.',)*-*,)*'+*-D' (' 1>>;-.' 2',)*'.6?*'.*2.*'8,)'-*'*-*2>*',1',)*7>*-*?12*.'1'?1;-2 25'B*-%L+A'ST'L/''T'L/+ '1-'6.'6'=6-,'1'01/81-.)='*;,%L+'T''25.'L+ 'KQXT'620'D'" + (*'6''?6-9J'=;2>,;-*0'12',)*'=*-.12'M*+%LL'KQXT'>1?=6-*',)*'06.?12 6>'2'<6-9'+'')---DN+ '>;.,25')?.*/J'8,)'.,12*.%?125',)*'=-1)D,1-'/68.'8)>)'410'56+*',)*'.C'-6*/,*.',)*-*'86.'12*',)6,'*L=-*../'1-D60',)*'=-6>^,>*'*?D-6>*0'2',)1.*'81-0.'+[%'*'.)6//21,'?69*'62'>;,,25.'2'1;-/*.)'1-',)*'0*60J'M*+%LL'KQX%',''.'*+0*2,'-1?',)./'68',)6,'.;>)'6'.=*>*.'1'+=*'',1-,;-*'1D,6 2*0'6?125',)*'26, 12.'1'626621'620',' 86.'01;D,/*..',1'5;6-0')..'*=1=/*'656 2..',)*'601=, 12'1'.1'D6-D6-1;.'6')6D,'2',.'01/6,-1;.'1-?'6.'8*/6.'.1'-*.,-6 2'0*.=*-6,*'5-*'M>1?=%'()*..%'+'NT'.**'<6>0126/0'D !'''"1'0 2D%'QS'=%'NX',)6,'410'/*0'<1.*.',1' ',)*'=-1^)D,12a' ()*'.)6//21,'?69*'D6/02*..';=12',)*-')*60.'2*.)*-'.)6//,)*'.)6+*'1',)*'>1-2*-'1',)*-'D*6-0.'21-'?69*'62'>;,,25.'2',)*-'/*.)J'M*+%LL'T'*2,'L+'X% M**'B%4%<>)6*/.'''' "'' !'%% '1'60'%NN%X'**' !%()*'62>*2,.'8*-*'+*-''+1/*2,'2',)*'-'*L=-*.^.12.'1'.1--18% -5/-*=-*.*2,.',)*'..,*-'1'01'6.',*6-25'>*-'6>*'8,)'>*-'26/.'620'D*6,25'>*-'D-*6.,.'8,)'>*-'.,.'MB 78% +'S K%% 1?*'1',)*'/*6-2*0',)29',)6,',)6,'/68'1'1/12.'8)>)'86.',-62.*--*0'D',)*'1?62.'2,1',)*'(8*/+*'(6D/*.I'M>*-1''''!'' 'KNX''"'''''"'' '%%'

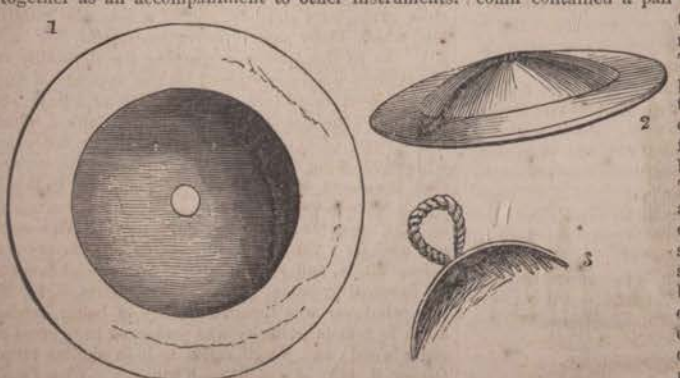
> ?*,*-' .,;>9',)-1;5)',)*' /*.) ' =6-,'1 ') .' . 0*' 8,)' ,)-**')*6+ ' -12' .= 9*.',).-;'.',)-1;5)',)*' ?;.>/*.'1 ') .' 6-?7'620'8 ,)' 6' *6,)*-' 2.* ,*0' 2,1'6'>;,' 2') .' 1-*)*60% :*' ?1+*.' 6D1;,' 8 ,)' 5-*6,' >1?=1.;-*' 620'*20;-*.'6//',)*.*' .; *- 25.'7= 25' 1--*>1?=*2.*' 2',)*' 6-60 .*'1' <1)6?7*0% 00',1',) .',)*' >1-2I' ?12'6>>1;2,.' 1',)*' 56.)*.' 8) >)' ,)*' *-. 62' 0*+1P' ,**.' 2 />,' ;=12',)*?.*/+*.' 2',)*' 7*2['1',)* -'/1+*' 620'5- * '0;- 25',)I*722;6/ ?1;-2 25' 1-' :6..62'620' :1..* 2'M.**' <-.% 1..62.' 2',)*D !'$!' !1'B;/ ' Q Q'=% X% ()*' <*L >62.'620' *-;+ 62.'1 *-*0');*?62'.6>- >*.'D1,)'6,' ;2*-6/.'620' *., +6/.% ()*' 41C .6 *2.'1' 20 6'6'>/6..'1' -6)?2>6/' -6.'*20*)+1-' 2' .1?* >6.*.' ,1' *L,1-,' 6/?.'D' 56.) 25',)*-' /?D.' 8 ,)'92 +*.% ?125',)*' 26, +*' 2*5-1' ->62',-D*.' 6/.1',)*' =-6>, >*' 6==*6-.',1'=-*+6/'1 '1 *- 25');?62' .6>- >*.' 6,',)*' 0*6,)'1'>) *.% M **')6-0 2'N ^ $'+' QKT' L' Q' R T' /*6- ;.' - 1' =% KN T' 62*' !6 ' ' RT' -*.>1,,' !' ' N SNT' 1' ' T' /=) 2.,12*' # ' ' !' ' ST' ,-6D1'L+' ' *,' .%T' *D;)-' NU 1' ' T' + 25.,12*' - "=' N Q' QQT' !' "' !' 1% >LLL ' RT' < ;-6,1- '& !' +'RR X% **' ! N% ;',)*-*' .'621,)*-';.65*' >12,*?=/6,*0'?1-*' -*^ ?1,*/ 'D',)*' =-1) D,12'+ [',)6,'1'=- 2, 25'?6-9.' M -, V6-6X',6,,11 25',1' 20 >6,*'6//*5 62>*',1'6'0*, ' 2',)*' .6?*' ?622*-' 6.' .1/0 *-.' 620' ./6+*.' D1-*' ,6,^ ,11*0'?6-9.',1' 20 >6,*'6//*5 62>*'1-'60.>- =, 12% M *>' *0*-?622'' ' " !' 4 % ' % ' - D% S %X ().' .'*+ 0*2,/ '6//;0*0',1' 2',)*' *+*/6, 12'1'B1)2' ML ' ST' L L'K T' L+ ' X',)1;5)' 2'6'>12,-6-'0^ -*>, 12'D ' [*9 */ M L' X'D ' 6;/ M46/% + ' X' 2',)*' *+*/6, 12'M+ 'NX'620'=*-)6=.'D ' .6 6)'ML/ +' X'620' U*>)6-7'M7)' XF ;>62'.=*69 25'1',)*'=- *,.'1' ,)*' - 62' *, '.6 .',)6,',)* '620'2'6>,',)*' .^ . - 62.'5*2*-6// 'D*6-' .;>)' ?6-9.'12' .1?*=6-',' 1' ,)* -' D10 'I 8 ' ' '$!' 'SQ X% ',-60, 12'?*2^ ,12*0'D 'B*-1?*'86.' >;--*2,'6?125',)*'B*8.',)6,' 9 25'B>)1 69 ?'D1-*' 12') .'D10 '?6-9.'1',) .'9 20' 8)>)' 8*-*' 0 .>1+*-*0'6 ,*-') .' 0*6,)'M =*2>*-' ' ' !';!' 'LL' X%) /1' _;1,*0'D ' =*2>*-'0*^ .>- D*.',)*'?6-9.'1',6,,11 25' ?=-*.*0'12',)1.*'8)1-?1;2 /)6D.',)*'?6-9.'1',6,,11 25',)*-' 6>*.'620'1,)*-'=6-,.'1',)*'D10 '620',)*' ?*?D*-.'1' -6)?2>6/.*>,.' 2' 20 6'6-*'0 ., 25; .)^ *0'D'?6-9.'12',)*' 1-*)*60'1,*2'*--12*1;./' .;=^ =1.*0'D' ;-1=*62.',1'D*' ?6-9.'1'>6.,*'M *D;)-' ' !' 'N& !'=% T N ' 'K KT' &*//.,*0' -1C' ' 'K S T' /*6- ;.' - '=%KRRT' /=) 2.,12*' ' ' R X% ' ,,1'.%+%T ?,)'.'+% **' ' :1L' (:' + 3! $ ((4' ' : ' ' + / 3' **' >.L $! ;,, C.,11/',)*' .,11/1-'.*6,'1'-*=*2,62>*' 2',)*' >1,>)'9 -9.'=/6>*0'2*6-',)*' -11'620'=6 2,*0'D/6>9'1'8)>)'1 *20*-.'656 2.,'>)6.,,'.,'0;- 25'.*-+ >*' =-1 *.. 25'-*=*2,62>*' 620'-*>* + 25',)*'?2 2.,*-.'-*^ D;9*.% ,' .'.1?*8)6,'-*?6-96D/*',)6,'6'D-*6>)'1' ,)*' .*+*2,)'>1?2?620?*2,'.)1;/0'D*',)*'12/A'. 2'.;D^ A*>, 25',)*'1 *20*-' 2',)*' >1,>)');->)',1',) .' .1-,' 1'0 .>=/2*% ' ;>9'-" !' ' !' !'+% ; /*-' $' !' % %'D1-2'6,' /D62' T' %' *D-;6-AW QNT' 5-60;6,*0'6,'$2 12' 1:*5*' Q ST' .,;0 *0',)*1/15 ';20*-' *+% -.% + 25.,12'620' 6.^ .*,,T />*2.*0' Q Q' 2',)*' *1-?*0' ;,>)');->)T .*,,/*0' 2' 1;5)9**=. *' Q QC QNN'620' -1?',)6,' *>120' -*.D ,*-62');->)') /60*/=) 6% -% ; /*-' .'-*=^ -*.*2,*0'6.' '62'*L>*//*2,'?10*/1'0/5*2>*' 0*/, ' 620' 8 .01?J' 6' ?62' 1' .,-125'620' 8*//C ;-2.)*0' ? 20'62'*6-2*.,'620' * *>, +*=-*6>)*-'62'60*=,' 2' ,)*' ?6265*?*2,'1'*>>/*. 6., >6/D;. 2*..% : .' ? 2^ .,-' 86.' >)6-6>,#=[*0'D ' .*+*-6/=18*- ;/ -*+ +6/. 1'-*/5 12' 2'8)>)') .'8 .01?'[*6/'620'.;>>*..'8*-*' +*-E7 >12.=>;1;.% : .' =- 2,*0' 81-9.' >12. .,' 1'6' 2;?D*-'1'1>>6. 126/ .*-?12.',-6>,. '=6?=)/*,.'6-, ^ >/*.' 1-'=*-10>6/.'620'*..6 .' ;=12' .=*> 6/',1=>.'>% 5%,)*' .;DA*>,.'1' 6=, .?',)*' ,12*?*2,',)*' ;-, ' 1',)*' < 2 .,- ' 6= ,6/ ;2 .)2 *2,'*,>% ' =-65;*' & ' + ' NK% 6?12'M 8>-=8+T ;/56,*' " 8'6' =/6>*' 26?*0'12/ ' 2'B;0 ,)'+ 'N'6.'/ 25' 2',)*' =/6 2'I =' % % +6//* JX' 1+*-'656 2.,'I 8' .0-*C' /1?% 'D' ' .0-*/1?J'8*' ?6 ';20*-.,620'B*[-**/' ,) .'0*.>- =, 12'62.8*-.',1',)*'. .;6, 12'1',)*' ?10*?' + //65*' (*//) '12',)*' *6.,*-2' ./1=*.'1' 6-?*/' 12'6'>12.=>;1;.'=1. , 12'1+*-/119 25',)*' .)12'620' ,)*' 5-*6,'=/6 2'M 1D 2.12' '5 !=% T' 62'0*' */0*' 7 ' 'NN X% ()*' =/6>*' 86.'92182',1' ;.*D;.' IN %% 8'620'B*-1?*' I (8'620' .' ?*2, 12*0'D',)*?*' 2',)*' , 'M.% +% 6 212' 6V,;+X'8)*-*',)*'0*2, ',' 8 ,)' ',)*'D;-^ 6/C=/6>*'1 'B6 -',)*'4 /*60 ,*'MB;05%L' X% ' ?,)'.% ' >);/,['6..;?*.' 6?12',1'D*' 0*2, >6/ 8,)',)*' ?10*?') "'.1;,)C*6.,'1' ,,/*' :*-?12'I. " ! ! ' ?' ! ?') ' QXT' D;,' -% 1D 2.12'I ' %! =% NNRX' -*^ ,) 29.',) .' 2>12. .,*2,'8 ,)',)*',-;*'=1. , 12'M6>>1-0^ 25',1') .' /1>6, 12X'1' *,D;/6'M +%X'620'.;55*.,.' ID6, 1J ?6 'D*' 12/ ',)*' 4-**9' -*20*- 25' I % 8'1',)*' :*D% 26?*' M '% '6' P8 >1--*^ .=120 25',1',)*'=-*.*2,'@ "'12',)1'*6..' 0*'1',)*' =/6 2'1' .0-6*/12'6',-6>*'1'8) >)'6==*6-.' 2',)*' 21^ ,>*.'1',)*' -;.60*-.'M& /9*2'? "! ') //!' : ' 'KN KS X% ;.'.**' (! 6L7*.'I) O %-8'4-6*> .*0' 1-',)*' /0' *-.% OD " ' D*6;, ;/C* *0 J' 68/2.12'# ') ' X',)*'26?*'1',81'<*0 62'9 25.% **' ! % # . ' '86.'6>>1-0 25',1' :*-101,;.',) ' ,) -0'9 25'1'<*0 6'D* 25',)*'.12'1')-61-,*.'620' 5-620.12' '*A1>*.% : .' 6,)*-') 6+ 25'D**2'9 //*0' 8)/*'D*. *5 25' 2;.'M 2*+*)X')*' ?? *0 6,*/'12') .' 6>>*.. 12' % %'SN '>1//*>,*0'6//',)*' ? /6-'-*^ .1;->*.'1',)*'*?= -*',1'-*+*25*') .' 6,)*-.' 006,)' D;,')*'86.'>6//*0'686'<*0'12',)1.*'8)1-?' 2;.'D'62' 6,,6>9'1',)*' > ,) 62.'D'8)1?')*'86.'0*'*6,*0'620' -*0;>*0',1'6',-D;,6-'>120, 12'1'5-*6,'-51-'1-'?62' *6-.' % %'SN CS 'M:*-10' ' NX% :*-101,;.'*/.*^ 8)*-*'M' N'._%X'5+*.'6'0 *-*2,'6>>1;2,'1%,) .'86-' 6.')6+ 25'1-5 26,*0'2',)*',-*6>)*-'1' / 6,,*.'1' -6'8)1')60'.)*/,*-*0'.1?*' ;5 ,+*' >,) 62.',),)6,' D60'.*-f*0';=',1' 6L6-*.'6.'6'D62_;*,'12*'1') .'182' .12.'8)1?',)*')'60'9 //*0% ()*'86-'>6-- *0'12' 1-' +*' *6-.'656 2.',)*' 0 62.'D',)*'<*0 62'?126->)' 8)1'*+ 0*2,/'.,//-*,6 2*0'I).',)-12*'86.',*-? 26C' T*0'D',)*'?;,;6/68*' 2.=-*0'D'62'*>/=.*' 8)>)')6.'D**2'+6-1;./'>6/>;/6,*0'D;,'=-1D6D/'86.',)6,' 1'*=,% N' % % S 'M 6/' " !' - !' Q T' /,?622'$ " *!' ' ; !' & !' Q KC NT' :6/*.' & ' ' " ' ' C QT' 0*/*T' # "' ' " ' 'K R'._%T .>)*-'? "!'. !' .% 6' S X% 6L6-*.'6,*-',)' *L=*//*0',)1' *A7,)62. % %'S '620'2',)*'1//18 25' *6-'8,)',)*'6 0'1',)*' 9 25'1' 6D /12')*',119'620'0*.,-1 7*0',)*' .. 7-62' >6=,/6',),)6,',?*'51+*-2*0'D' 6-0626=6/.% ()' *+*2,'.'-* *--*0',1'2',)*' =1>-=)6'M(1D% L+' X' 8)*-*',)*'<*0 62'9 25'.'.,/*0' ' D6.;*?.J'M %+%X' 620') .' 6D /12 62'6// ' .' >6//*0' 6D;>)10121.1-' 01;D,/*..'-* *-- 25',1' 6D1=1/6..6-',)*' 6,)*-'.1' *D^ ;>)602*[[6-% **' 8 # ! ()*' -*.;/,'1',) .' >7=6 52'6>>1-0 25' ':*-101,;.'86.',)6,',)*'<*0>.' =60*',)*' ... - 62.',)*' -'.;DA*>,.'*L>*=,',)*'0 .,->,' 1' 6D 012'=-1D6D/''?*62 25',)6,',)*'9 25'1' 6D !C /12'218'1D,6 2*0'>1?=/*,*'0*/+*-62>*' -1?',)*' 19** 1' % 7-6% ()*' /*65;*' D*,8**2' 6L6-*.'620',"* 9 25'1' 6D /12'.'.6 0'D' 1/) .,1-'620' D 70*2;.' M6=% ;.1D% " !'& !1 '$!=% K 'D%',1')6+* D**2'>*?*2,*0'D',)*'D*,-1,)6/1' 2) .'1-' 2 , .' 3,)*'06;5),*-'1' 6L6-*.','1' 7D;>)60-1..6-'1-' 6DC'

Dancing Figures, with Castanets.—From Herculaneum.

is intended between the two kinds of cymbals mentioned in Psa. cl, 5, צִלְצְלֵי שָׁמַע, "loud cymbals," and צִלְצְלֵי תְרוּעָה, "high-sounding cymbals." "The former probably consisted of four small plates of brass or of some other hard metal; two plates were attached to each hand of the performer, and were smitten together to produce a loud noise. The latter consisted of two larger plates, one held in each hand, and struck together as an accompaniment to other instruments.



Ancient Cymbals.—From Herculaneum.



Ancient Egyptian Cymbals (5½ inches in diameter).—From the British Museum.

Asaph, Heman, and Jeduthun, the renowned conductors of the music of the sanctuary, employed the 'loud cymbals' possibly to beat time, and to give the signal to the choir when it was to take part in the sacred chant" (Smith). The ancient Egyptians likewise had cymbals and cylindrical *maces* (*crotala*, or clappers), two of which were struck together, and probably emitted a sharp metallic sound. The cymbals were of mixed metal, apparently brass, or a compound of brass and silver, and of a form exactly resembling those of modern times, though smaller, being only seven, or five inches and a half in diameter. The handle was also of brass, bound with leather, string, or any similar substance, and being inserted in a small hole at the summit, was secured by bending back the two ends. The same kind of instrument is used by the modern inhabitants of the country, and from them have been borrowed the very small cymbals played with the finger and thumb, which supply the place of castanets in the *almeh* dance. These were the origin of the Spanish castanet, having been introduced into that country by the Moors, and afterwards altered in form, and made of chestnut (castaña) and other wood instead of metal. The cymbals of modern Egypt (see *Descr. de l'Egypte*, xiii, 496 sq.) are chiefly used by the attendants of sheiks' tombs, who travel through the country at certain periods of the year to exact charitable donations from the credulous or the devout among the Moslems by the promise of some blessing from the indulgent saint. Drums and some other noisy instruments, which are used at marriages and some other occasions, accompany the cymbals, but these last are more peculiarly appropriated to the service of the sheiks, and the external ceremonies of religion, as among the ancient Egyptians; and a female, whose coffin contained a pair of cymbals, was described in the hieroglyphics of the exterior as the minstrel of a deity. The cylindrical maces, or clappers, were also admitted among the instruments used on solemn occasions, and they frequently formed part of the military band, or regulated the dance. They varied slightly in form, and some were of wood or of shells; others of brass, or some sonorous metal having a straight handle, surmounted by a head or other ornamental device. Sometimes the handle was slightly curved, and double, with two heads at the upper extremity; but in all cases the performer held one in

*6>)') 620 T 620',) *' .1 ; 20' 0*=*20*0' 12',) * -' . [*' 620' ,) *' ?6,*- 6/ 1 ' 8) >)' ,) * ' 8*-*' ?60*% &) *2' 1 ' 8110',) * ' >1--*.=120*0',1',) *' ' 1 ',) *' 4-**9.7 6' . ; ==1.*0' 2+*2, 12' 1 ',) *' > / 62. ' 620' -*=1-,*0',1')6+*' D**2' ; .*0' 1-' - 5), *2 25' 686 ',) *' 6D; /1; .' D -0.' 1 ' , ?=) 6/ ; .T 620',) *' =6 2, 25.' 1 ',) *' ,-; .>62.' .) 18',) 6,',) *' 8*-*' 601=,*0' D ',) 7*?' 6.' DA!',) *' 5 =^ , 62. ' 2',) *' 062>*' M & /9 2.12 ' & 0 A RR ._ %X% M **' *6>)' 2',.' 6/=) 6D*, >6/ 1-0*-%X ' 3 ?125',) *' 4-**9.' 620' *?62.' > ?D6/.' 1 '6' . ? /6-' 0*.>- =, 12' 8*-*' 62> *2,/ ' ; .*0' 2',) *' 81-.) =' 1 ' C D>/=' 6>>) ; . 'B ; 21 ' 620' 1,) *-' *6-/ *-' 0* , *.% ( ) * ' 8*-*' =-1D6D/ ' 0*- +*0' -1?',) *' 6.,% ,' 1-2*',) * ' 6-*' -.,' ?*2, 12*0' 2' + .' 6>>1; 2, MLLL L 'RX 1',) *' 6>>) > 1-5 *.' 2,-10; >*0' -1?' ,-; - 6' M ?,) ' ' ' !' & 4!' .% +% ?D6/; ?X% **' < *20*/..1) 2 .' -* 6>*',1' ; "' ' V ?>) T *8 . ' , ' 1 ; , 'M 120% K SC XT 1-9*/' ? "' ' +:' B6) 2' & + ' ?% *0% '>6=% + ' g RS' KT < ; 297] 2 E AW% ST .*20 *-' ' ' ' 1' ' K% 6?=*') 6.' 62' *L>*//*2,'0 ..*-,6, 12' ' ' ' 'M (-6A% 60') % NT 6/.1' 2' $51/ 2' -" ' LLL X% < 121^ 5-6=).' 12',) *' . ; DA*>,') 6+*' 6/.1' D**2' 8 - ,,*2' 2' 6, 2' D ' // . I' I@ ' $ 1' 1,,*-0% K ' = ' K CN QX' < 6- ; .' M ?.,% SS X' U1?' I , % ' ' C S7% **' $ '?. $. !

N(=-*. .' / "E' ' /. 6- 8*.7T *=,% % 1 O 1' D ; ,' ?1.,' >1= *.' 1? ,T ; /5% 8' .' ?*2, 12*0' 12/ ' 2' .6% L/ + ' T : *' M %*%',) *' >6-^ =*2,*-' +*-% NX') *8*,) I) ?' 0182' >*06-. ' 620' ,69*,)' ,) *' % 1PJ(1-',) *' =; -=1.*' 1 '?69 25'62' 01/% ( )*-*' .' 21' 01=D,',) 6,',) *' 8110' ? ; . ,') 6+*' D**2' 1 '6',*L, ; -*' ,',1' D*' 81-9*0 ' 6.' 8*// 6.' ,1' -*,6 2',) *' .) 6=*' 5 +*2' ,1' ,% ( ) 1 ; 5)' ,-62./6,*0' > =-*.. J' 81') 6+*' 21' =-11 ',) 6,',) . ' ,-7*' 86.' 2,*20*0 ' D ; ' ,' .' 8*// . ; ,*0' Z1-' ,) *' =; -=1.*' 20 >6,*0% **' ! ( ) *' 4-**9' ,-62./6,1-.' _ ; /6' 620' ( ) *101, 12') 6+*' *?=/1 *0' 6' 81-0' 8) >)' 0*21,*.',) *' 8 /0' 1-' 1-*.,' *69' MO =,1V OC' d?\1, IX% ( ) *' 1/0*.,' 6, 2' +*-. 12' -*20*-.' ,) *' : *D% 81-0' D ' , *-' ,) *' *+*-5-**2' 169J' M 1.*2?; $*-' =% N X% .' ,) *' 8110' 1 ',) .' .=*> *.' .' 8*// ,,*0' 1-' D* 25' 81-9*0' 2,1' ?65*. ' 620' 86.' .1' *?=/1 *0' D ' ,) *' 62> *2,. ' ,' .' =1.. D/*',) 6,',) ?6 ' D*' ,) 6,' 2,*20^ *0',) 1 ; 5) 8*') 6+*' 21' .6, . 6>,1- ' =-11 ' 1 ' ,.' D* 25' .1% */. ; .' I # f ' KOR' X 0* *20.',) *' -*20*- 25' 1 ',) *' ; /5% 2' .6% L/ + ' 'D ; ',) *' *, ?1/15 ' 1 ',) *' 81-0' -1?' ' '" ' M6.' 2' =, 2' 8*' 5*,' " ' 62' 169X' *_ ; 6// ' 8*// . ; ,' .) *' > =-*.. ' 620' ,) *-*' .' 5-*6,' =-1D6D / , ' ,) 6,' ,) *',-**' ?*2, 12*0' D ' .6 6) % 8 ,) ' ,) *' >*06-' 620',) *' 169' .' 0*2, >6/ f, ,) ',) *' > ^ =-*..J' I) N- 1 1' 1 ',) *' =1>- =) 6% 2' >>/; .% LL + ' N' ,' .' 0*.>- D*0' 6.' 5-18 25' ; =12',) *' ?1; 2,^ 6 2.' 1 ' : *-? 12T 620' ,') 6.' D**2' 1D.*-+*0' D ' ,,1' I1 " I' # ' ' ' =% >DLL +X ,) 6,' ',) .' D*' ; 20*-^ .,110' 1 ',) *' ' : *-? 12 ' ,' .' // ; .,-6,*0' D ' 1C

>1>9*' 8) 1',*//.' ; .',) 6,' ,' .',) *' 12/ ',-**' 8) >)' 5-18 .' ,186-0.' ,D*' .; ? ?, ' 1 ' *D6212% 2' >>/; .% ' ,) *') 5) C =- *.,' .' >1? =6-*0',1' 6' '> =-*..' ,18*- 25',1' ,) *I' >/1 ; 0 J' 12' 6>>1; 2,' 1 ') .' ,6// 620' 21D/*' 5 ; -*% ,' .' ; . ; 6// ' .; ==1.*0',) 6,',) *' 81-0.' ,-62./6,*0' 0- J' '51=) *-C8110 J' 620' ',) 2*C8110 J' 2' 1 ; -' +*-. 12' 1 ',) *' D/*' 20 >6,*'+6- *, *.' 1 ',) *' A ; 2 =*-' 1-' > =-*..% M **' *6>)' 2' ,.' 6/=) 6D*, >6/ 1-0*-%X ' 3 =-*.. ' ,) *')N- % ' 1 ' ,) *' 4-**9.' 620' ,) *' '1 ',) *' -6D. ' >6//*0' 6/.1' D ',) *' * 2 " 1' 1-' ,-**' 1 ' / *' .' ,) *' % ' % 1' 1-' ,) *' *+*-5-**2' > =-*..' 1 ' D1,62 .,% ( ) .' ,-**' .' 8*// 92182' 6.' D* 25',6=*- 25' 2' 1-?' 2' >12.*_ ; *2>*' 1 ' ,.' D-62>) *.' 5-18 25' ; =- 5),' 620' >/1.*' ,1' ,) *' ..*?' 620' 6/.1' ,) 6,' 2' ,.' 5*2*-6/' 6==*6-62>*' ,' -*.*?D/*.' ,) *' 1?D6-0 '=1=/6-' .1',) 6,',) *' 12*' .' 1 ,.*2' ? .,69*2' 1-' ,) *' 1,) *-' 8) *2' .**2' 2' - *2,6/' 0-68 25.% I' 2' .1 ; ,) *-2' /6, , ; 0*.' ,' ; . ; 6// '5-18 .',1' 6') * 5),' 1 ' ,' 1-' . L, ' **,% ,.' D-62>) *.' 6->' >/1.*/ ' >1+*-*0' 8 ,)

+*- ' .?6// ?D- >6,*0' /*6+*.' 8) >)' -*?6 2' 12',) *' ,-**.' +*' 1-' . L' *6-.% ;' : 6?*/ ..,6,*.',) 6,') *') 6.' 1D.*-+*0' 12',) *' D6-9' 1 ' 1725' > =-*..*.' . ?6// =6-, ' >/*.' 1 ' 6' . ; D.,62>*' -*.*?D/ 25' 5 ; ?' , -656>62,) ' 620' ,) 6,') *') 6.' .**2' D**.' ,69 25' 5-*6,' =6 2.' ,1' 0*,6>) ' ,) *.*' =6-, >/*. ' =-1D6D/ ' ,1' . ; ==/ ' .1?*' 1 ',) *' ?6,,*-' -*_ ; -*0' 1-' 1-? 25',) * -' >1?D.% ( ) .' > =-*..' .' 6' 6, +*' 1 ' ,) *' 4-*> 62' ->) =*/651 ' =6-, > ; /6-/ ' 1 ' 620 6' M,) *' 62> *2,' -*,*X 620' E!=-; .' 620' 6/.1' 1 ' . 6' < 21-' - 6' 620' *-. 6% ,' ?6 ' D*' .**2' 12' ,) *' >16.,' 1 ' 6/*., 2*' 6.' 8*// 6.' 2',) *' 2,*- 1-' 6.',) *' <1) 6? ?*062.' =/62,' ,' 2',) * -' >*?*,*- *.% ( ) 6,' ,' .' 1 ; 20' 12',) *' ?1 ; 2,6 2.' 1 ' - 6' .' +* 0*2,' -1?',) *' _ ; 1,6, 12.' D ' */. ; .' I1# "+f ' NNX' -1?' - / 1 ' /*L620- 6' I ' 6 1' =% Q QX' B*-1?*' I ' # ' L +T SX ' 620' 1,) *-.% ** ! ( ) *' 8110' 1 ' ,) *' > =-*..' .C) 6-0 ' -65-62, ' 620' 1 ' 6' -*?6-96D/ ' 2*' >/1.*' 5-6 2 ' +*- ' 0 ; -6D/*' 620' 1 ' 6' D*6 ; , ; / -*00 .) ') ; *' 8) >)' / 2 ' .6 .' ,' 2*+*-' /1.*.' I # f' 7 f' L+ NNX% .' ,1',) *' 1= 2 12' -*.=*>, 25',) *' 0 ; -6D / , ' 1 ' ,) *' > =-*..C8110' *2,*-,6 2*0' D ',) *' 62> *2,.' ,' ?6 ' D*' .; > *2,' ,1' 600 ; >*' ,) *' 6 ; ,) 1- , ' 1 ' / 2 ' 8) 1' .6 .' ,) 6,' ,) *' ..6, ; *' 1 'B ; = ,*-' 2',) *' 6= ,1/' &) >)' 86.' 1-?*0' 1 ' > =-*..') 60' *L .,*0' 6D1+*' S ' *6-.' 8 ,) 1 ; ,' .) 18 25',) *' ./ 5), *.,' . ?=,1?' 1 '0*>6A '620' ,) 6,' ,) *' 011-.' 1 ' ,) *' ,*?=/*' 1 ' 626' 6,' =) *. ; .' 8) >)' 8*-*' 6/.1' 1 ' > =-*..' 620' 8*-*' ' *6-.' 1/0') 60' ,) *' 6==*6-62>*' 1 ' D* 25' _ ; ,*' 2*8 J' ( ) .' 8110' 86.' ; .*0' 1-' 6' +6- *, ' 1 ' =; -=1.*.' 6.' 1-' 8 2*C=-*..*.' =1/*.' -6 ,*-.' 620' A1 ,.' 620' 86.' 62' *.=*> 6/ 6+1- ,* 1-' ; 2*-*6/ 5-1 ; 20.% : 1-6>*' .6 .' I f' ' 'KNX ,) 6,' 8) 6,*+*-' 86.' ,) 1 ; 5),' 81-,) ' 1 ' D* 25' D620*0' 0182' ,1' -*?1,*' =1.,*- , ' 86.' =-*..*-+*0' 2' >A =-*..' 1-' >*06-' 8110' 620' -5 / -* *-.' ,1' ,' 2' . ? /6-',*-?.' I? ' ' KT 1 !' + ' S X% ' ,,1' .% +% M **' ' % 1' .% +% ; =-*..; .%X **' 8 #!

= - 62' M +L=,1*X' 6' =- 1,' 1-' 2)6D ,62,' MK' / +*0' 2'6 /;*2>*' 620'5-620*;-% : .'/ *' .**?.',1')6+*' <6>>% +' KRX'1',)*' ./620'1' =-;.'M_% +%X% -*>* +*0' 2*8' ?=*,;.''>12>*2,-6,*0'=;-=1.*' 620',-;*' 2*62 25' -1?',)*', ?*'1') .'>12+*-. 12'620'D6=, .?' 8) >)'1>>;--*0' % %K S'8)*?)*' 86.'21,' 6-'.)1-,'1' =- 62'< 62; .>- =,': .' # / $ ' '>6//*0' , ' *6-.'1/0% : *')60'D**2'812',1')-., 62 ,A'D '6f 7 % -1?' ,.' =/6>*' 1'0 .>1+*- X' =-*.D ,*-' 6*>/;.'8)1'6/.1' 2.,-;>,*0'620'=-*=6-*0' ó ;.;6// '0*. 526,*0'6.' 1',)*') ?' 1-'D6=, .?'6,'8) >)', ?*' =- 62' 600*0',1') .' 41.=*/.'12*'1',)*' ?=1-,62,' 62?*',)6,'1' 6*>/;.''1;,'1'5-6, ,;0*',1') .')- ., 62' ;2>6/ V %1',)*' '(%'>12^ ,*6>)*-% * 1-*') .'>12+*-. 12')*'86.'*L*->.*0'D '6' ,6 2 25',)*' 1;-'41.=*/.'>1?^ 0**=' .*2.*'1',)*'+62, '1')*6,)*2.?% 2') .',-6>,'' ' =/*,*' 86.' D-1;5),' 2,1',)*' ? ' ' 1'600-*..*0',1') .' - *20' 126,;.'.112'6 ,*-' 1/D*-,' >1//*>, 12' -1?' C D .'>12+*-. 12'.=*69 25'1') .'.= - .;6/ .,6,*'8) /*' *,' 3 1 ' A 7' =-;.' 2' S N' 620' .' 218' 2' >'6//*0' 7 7 ' ? 1 6/1-' ?=*- 6/' D-6. 2'*)*6,)*2.?')*'.6 .á 2'06-92*..'620' /16,^ Z *! '6,' 6- .' 8)*-*',' .' 1% *0'12',)*'81-/0 .'D1 .,*-1;.'.*6'8 ,)'21'-*., 25C=/6>*' SN% ,' .' 62' 1D/125'_;6-,1' 1-'6 ' **,' 521-62,'1'? '=-1=*-'/ *' 620'*.,-625*0' 8-,,*2' 2'6'. 25/*'>1/;?2'1' -1?',-;,)'620'/5),%J' 410.' ?*-> ' 2').' D6=, .?' -' c' 6D1;',8*2, C12*' /2*.' 12)*' *+*-'=-6 .*.' 6.' D* 25' 6' ?6-9*0' *=1>)' 2').' / *% 5 *6>)' =65*' 2' /6-5*' ;=- 5), : *' */,') ?.*/',1'D*'6'2*8' ?62')6+ 25'-*>* +*0' 'D ' 620' >1?=*..*0' >)6-6>,*-. ?62.' 1',)*'-*5*2*-6, 25'86+*J',)*' .*>120'D-,)' .1?*8)6,' --*5;/6-*% '. 2^ D ',)*' =-,'0*-+*0' -1?'12') 5)%J' .'6'2*8' ?62' 5/*'=1 2,'1' 2,*-=;2>, 12'1^)*' 218'0*+1,*0') ?.*/' ;// ',1',)*'.,;0'1',)*')1/' ,*2'.,620 25'8)*-*',)*' .*2.*' >-=,;-*.'620'6/.1',1'6'/ *'1'>*/D6>'620'+1/;2,6-' 01*.'21,'-*_:-*' ,'.**?.',1' =1+*-,% :*'.,;0*0',)*')1/' >-=,;-*.'620'6/.1',1'6'/ *'1'>*/D6>'620'+1/;2,6-' 20>6,*',)6,' ,' 86.'>1=*0' 620'6/.1',)*'D*.,'*>>/*. 6.,>6/8-.*-.'92182'6?125' -1?'6',*L,'6--625*0' 2'1-\C' 8)1?'(*-,;// 62'86.') .' 6+1-,*'8,)'8)1?')*'>1?^ 7'O ! ()*'.;D.>-=, 12.' - -C' ?;2*0' 2' ? 20'*+*- '06 '>6// 25' 1-') ?'6.'B*-1?*' g' d1,' ?? 12 62'.*>, 12.'620' -*/6,*.'8,)',)*'. ?=/*'81-0' ': 620'?*',)*'<6.,*-%J' 7' 20>*.'1',)*' >>70d6 6'1',)*' :*'.1/0') .'*.,6,*'620'56+*',)*'=-1>**0.',15*.,)*-' /6.,',)-*'*' 41.=*/.'6-*'D*/*+^ 8,)'6/?1.,'6//*/.*',)6,')*'=1..*..*0' 1-',)*'.;==1-,' *0',1'D*',)*'81-9'1'6'/6,*-' 1',)*'=11-% ()*.')*'0 0'8, ',)*'01;D/*'20'2'+*8')620'',)*' ;.*D 62' >6212.' 1'-*21;2>25'620'0*.= .25'6//'.*>;/6-'2/;*2>*.'620' 6-*'6D.*2,% ()*'D-*6,),75.' 6,',)*'.6?*', ?*' ;/ // 25',)*'/68'1'>)6-, '8)>)' 620'6>>*2,.'6-*'D',)*' -.,')*'D*/*+*0'410'=-*.',1'6//.6>- >*.% *.0*.',)*')620'),;' 1,*2' 2>16-*>,/' 6D1+*C?*2,12*0'/*.,*-' ' E '6D1;',), .%,?*' I7 =/6>*0% ()*'8-,25'*,>% ?* 8-1,*'.+*-6/81-9.' 2'8)>)')*' ;2 1/0*0').' 2*8' ' D*',69*2'6.'=-11',)6,',)*' % =-2>=/*.'620'>12+>,12.'6.'1-'2..62>*' ' ' ' .'21,'1/0*-',)62',)*'?00/*1' 620')..' "' ' ' ' !'D !' ',)*'2 2,)'>*2,;-% & *,.,* 2' 1' 8120*-,//'5-*8')..')-.,62'-*=;,6,12',)6,' ÓN ;.*0'-*60 25.' -1?',' 1-') .' 12',/A*'0*6,)'1' 126,,.',)*ID.)1=' 1' 6-,)65*',)*-*' % (%'620' >)1/['6/.1'>1//6,*0' 86.'6'=-*.. 25'>-' -1?'D1,)'>/*-5'620'/6,A7',)6,' ,'D;,'21,'6>>;-6,*/% () .' =-62'?5),'D*'1-06 2*0'6.') .'.;>>*..1-% :*'?10^)6.'D**2'012*'?1-*',)1-1;5)^ *.,/'0*>/2*0',)*'21? 26, 12'D;,',)*'=*1=/*'81;/0' / 'D ' (.>)*201-'620'(-*C 21,'D*'=;,'1 % ()*'.1'D*.*5*0')?'8,)',)*'-'?^ 7*//*.% ()*'<%AO*/0.'?62' =1-,;2,*.',)6,')*'/*0'2,1'-*,-*?*2,',1'6+1 0',)*' +6/;6D/*'-*60 25.% >-+*2C =1=/*'.;--1;20*0').'>1);.*' 7' *-'D 2 f =% '._%T (-*C >/1.*0'*+*-'6+*2;*'1'*.>6=*'620'-*;.*0',1'8,)^ *1 5*//>.'2':1-2*.' f +' 0-68';2,/')*'.)1;/0' */0',1',)*-'-'8.)*.% :*'6,' ($ K '._% ** $ / ' /*+6,12',1'6.'D*25'., //12/'6'21+>*'2',)*');->)% 6' 8 **' f ()*.*'56+*')?'?;>)',-1;D/*% :*C 5' =-62'(.>;)' 4 ,-*6,*0',)*?'8,)'9202*..'D;,'6,',)*'.6?*',?*'?6 2^ %' >'8,)'.1?*'1',)*'-'-*20.'6?125',)*/6, '1==1.*0' ,6 2 25% ()*'-*=-*.*2,6,12')*'5+*.'6-/*-' ?? 1-6/ /*' .' ,6,;0'1'-*'?1-6//'6>>1-0 25',1',)*')*6,)*2',=*'1' 5*2*-6// '-*56-0*0'6.'62'*L655*-6,12'.=-25 25'-1?' ,-,1'-'1'6-,)65*%' :.'D 15-6=)*-',)*'0*6>12') ;?/,'620',)*'/*5*20',1',)*'*'*>,',)6,')*')60'5+^ ;;-%' :.'6,)*-'86.'8*6/,) '620'12*'1',)*'=-2>=6/.'*+*2')?.*/',1',)*'=->,>*'1'.1->*-'.'21,'6>>-*0,*0% 620'12*'1',)*'=-2>=6/.'*+*2')?.*/',1',)*'=->,>*'1'.1->*-'.'21,'6>>-*0,*0% :.'/*'8)/*')*'.,//.,110'2')*6,)*2.?'.'+*-' ?;>)'D;-*0'2'1D.>;-, '*+*2'6.',1',)*'=->,*',?*' 620'=/6>*'1'>).'D-,)% :.'D 15-6=)*-',)*'0*6>12' 12, ;.'-*56-0*0'6/',).'6.';281-,)'1'?*2,12'2'+*8'1',)6,'.=-,;7'5-*6,2*..J'8)>)'>)6-6>,*-[*0').'.;D.*_:*2,'/*%' .'.**?.'/*')18*+*-.',)6,')*'86.' 62'*6-2*.;' .,;0*2,'620',)6,')6+25'*2A1*0'6/',)*' 60+62,65*.' ;-2.)*0'2').',?*')*'*L>*//*0'2',)*' .,;0'1'1 7,1-'620'*/1_;*2>*'620'0*+1,*0')?.*/' ,1',)*',*6>)25'1'/68'620'-)*,1-*'2').'26,+*'>,' 8)*-*')*'86.'5-*6,/'60?-*0'D*>6?*'8*6/,)'620

8 ,)' + 1/*2>*' 0* ?620*0' / .' 0*6,) ' >- 25' % ' ' '\' ( ) *' >-;*/ *0 >,' >6?*' ,1' 6-, /65*' 6D1;,' ,) *' D*5 22 25' 1 ' % K ( ) *') *6,) *2')6 /*0' ,' 60' /*,, 25' /11.*' ,) * -' -65*' ;=12' 12*' 8)1 ')6+ 25' D;,' 6' *8' *6-.' D* 1-*' .,110' .1' =-1? 2*2,' 2')*6,) *2 .? ' 3' 218' 1>>;= *0',) *' -12,' -629' 2',) *')- ., 62') ;->) : *' 6>>1-0 25/ ' 86.' ,) * -' -.,' ?6-9 : *')18*+^ *-' .6+*0') ?.*/ 'D ' / 5), ' 8) >)' 86.' ?60*' ,) *' 1>>6^ . 12' ;-' -*.)' -*=-16>)*.' -1?' ,)1.*' 2' ,) *') ;->)' 8)1' ., // D1-*' ,) *' 1/0' 5-;05*' 656 2.,') ?' 1?*.68' >186-0 >*' 2' ,) .' .*/ C*L /*' D ;,' ?62 ' =-6 .*0' ,' -1?' >1 7. 0*-6, 12.' 1 ' =-;0*2>*' 620' 6.' 6' >1;-.*' 8) >)' 81)/0' ., // =-*.*-+*') .' 5-*6,' 81-,)' 620' 2 /;*2>*' ,1' ,) *') ;->)' 6 ,*-' =*6>*' .)1;/0' D*' -*.,1-*0 : *' 9*=,') ?.*/ ' 2' >12.,62,' >1--*.=120*2>*' 8 ,)' ,) *') ;->) ' 620' 2',) *' 0**=*.,' . ?=6,) ' 8 ,)',) *' ,- 6/.' 1 ',) *' >12^ *..1-.' 620' ?6-, -. : *' /125*0',1' D*' 8 ,)',) *? ' 620' /119*0' ;=12') ?.*/ '6.' 0*=- +*0' 1 '6// ,) .' D ' 6' 2*>*.^ . , ' =6 2 ;/ ,1') .') *6-, ' : *') ?.*/ '.** ?.' ,1')6+*' =1..*..*0' ,) *' >12.> 1;.2*..' 1 ') 6+ 25' D**2' 2' ,) *' =6,)' 1 ' /;, ' 620') *' 56+*' 6D;2062,' *+ 0*2>*' 2') .' 6 ,*-/ *' 2' , ?*.' 1 '=*.,/*2>*' 620' 2',) *'=*-.*>;,12' 1 ' 6/*- 62' ,) 6,') *' =1..*..*0',) *' / -?*.,')- ., 62' >1;-65*' 620' 92*8' 21' *6-' 1 ' 0*6,)' 2',) *' =6,)' 1 ' 0;, ( ) *' .,- >,' 620' .*+*-*' ?622*-' 2' 8) >)' 6 ,*-') .'-*,;-2' -1?' / 5), ') *' 0*6/,' 8 ,) .1.*' 8)1')60' 0*^ 2 *0',) *' 6 ,)' ;20*-',- 6/' 86.' 21,' 6+1-6D/E7-*56-0*0' *+*2' D ',)1.*' 8)1')60' 6 ,) ;// ' *20;-*0',) *' =*-.*^ >;, 12' 620' 86.' + *8*0' 6.' >1? 25' 8 ,)' /*.' >)6- , ' 620' 5-6>*' -1?') ?' 8)1')60') ?.*/ '8 ,)0-68 2' -1?' ,) *' \ -*( ) *' *>,.' 1 ',) *' =*-.*>;, 12')60' D**2' ,*-^ - D/ ' 0 .6.,-1;.(< ;/, , ;0*.' 8*-*' 0- +*2' -1?' ,) * 6 ,)'/ 9*' >)6 'D* 1-*',) *' 8 20(=- 62'/119*0';=12' ,' 6.' 6' =-1+ 0*2, 6/ . , 25' 1 ',) *) ;->)' ?60*' 2*>*.(.6-A' D ' ,.' =-*+ 1;.' 81-/0/ ' 620' ? ?1-6/ .,6,*' 620')*2>*' 86.' >12>*-2*0',) 6,' ,) *' /6=.*0' .)1;/0' 21,' D*' .-*^ .,1-*0' 8 ,)1;',) *' .,- >,*.' >6-*(',) *')6+1>' 620' >12 ;. 12' ,) ;.' =-10;>*0' 2',) *') ;->)' 620',) *',-1/15) *' >12 1-?*0') .' 182(/*.' 1 '-*.,1-6, 12') *' 5 +*.' 6' .60' = >,;-*' 2') .' 81-9(' ' % 2!' : .' .,- >,2*..' 8 ,)' ,) *' /6=.*0' 56+*' - .*' ,1' 2*8' ,-1;D/*.(( ) *' 6>, 12' 1 ' 0 .6 *>,*0' =-*.^ D ,*-.' 86.') *60*0' 218' D ' */ > .. ? ;.' 8 ,)' 8)1?' 8*-*' A1 2*0' 1+6, 62' 620' 1;-' 1,)*-.' 8)1' -* ;.*0',1' 6>9218/*05*') .' 6;,)1-, ' 2',) *' 1-?') *' *L*-> .*0' ,' 2',) *' >6.*' 1 ',) *' /6=.*0(( ) * ';20*-,119',1' *..6D^ / .)' 62' 20*=*20*2,'>) ;->) ' 2,1' 8) >)',) *' /6=.*0' 8*-*' ,1' D*' 6//18*0',1' *2,*-' 8 ,)1;',-,) *-' 0*/6 < 62 ' 1 ',) *' ?=6, *2,' 6?125',) *' /6=.*0' 8*-*' >)6-?*0' D ' ,) .' 1=*2' 011-' 1-' .=**0 ' -*.,1-6, 12(( ) *' -*.;/,' 86.' 6' .*- 1;.' .>) .?(7=- 62' ?6 2,6 2.') .' =1. ^ , 12' -?/ ' 620' 2' 6' /*,,*-' 86-2.' 6//' 656 2.,' ,) .' .26-*' 1 ',) *' 0*+ / = .,/*' NX(2' ?=1-,62,' .*- *.' 1 ' >12,-1+*-. *.' *2.;*.' -*/6, 25',1',) *' ;2 , ' 1 ',) *') ;->) ',) *' 26,;-*' 1 '.>) .?',) 0' +6/ 0 , ' 1 ' D6=, .?' D ') *-*, >.' 620' 6 / 6,*0' =1 2,.' 8) >)' D*>6?*,) *' 1>>6. 12' 1 '12*' 1 ',) *' ?1.,' ?=1-,62,' 81-9.' 1 ' =- ^ 62' 12' -" ' 2 ' '" ' " "!' ( ) .' >12,-1+*-. '7.1' 5-60;6// ' 2+1/+*0',) *' _;*., 12' 1 ',) *' 20*=*20*2> ' 1 ',) *' *= .>1=6,*' 620',) *' ?*-,.' 1 ',) *' >/6 ?.' 1 ' ,*=)62;.' ,) *' D .)1=' 1 ' 1?*' 1.' 1+*-' 656 2.,',) *' D .)1=' 1 ' 6-,)65*' M **' : *-[15 .' 5 26 2 % ' 'K R'KK 1' 6/.1' 1;-'6-, >/*.'12' =- 62' D ' -(*+ 2' 2',) *' " ' 5 1'+1/(+' Q K' =6-, >;/6-/ ' =(K C NS%X' 2',) .' 1+6, 62' >12,-1+*-. ' =- 62' .)18*0' 5-*6,'D ,,*-2*..' 6.' 8*// 6.' 5-*6,' -?2*..' 620') .' .6,*?*2,.'6.',1') .'60+*-.6- *.' 6-*',1'D*',69*2' 8 ,)' ?62 ' 5-6 2.' 1 '6//18 62>*' : 65*2D6>)' 2' : *-[15 .' 5 =6 +N% 1'D- * / ' .;?.';=',) *' >/1. 25'.>*2*' 1 ') .'/ *' 620'5 +*.'62'*., ?6,*'1 ') .'>)6-6>,*-' 8) >)' 8*' ,-62./6,*(,'/*25,)',) *', ?*' >6?*' 8)*2') *' .)1;/0')6+*' 1==1-,;2 , ' ,1' 8 =*' 5;',) *' .,6 2' 8) >)' 86.' .;=^ =1.*0',1'-*.,'12') .'26?*' 2'>12.*_;*2>*' 1 ') .' / 5),'D ' ,) *' D/110' 1 ') .' 182' ?6-,7(01?(,',119' =/6>*' 2',) *' 6/*- 62' =*-.*>;, 12(2',) *' 1 ' ;5;.,' K ' ,' 86.' 0*?620*0' 1 ') ?' D ',) *' 1?62' >12.;/' .=6. ;.' 6,*-2;.' ,1' 1 *-' ,1',) *' 510.(: 6+ 25' -* ;.*0') *' 86.' D6- .)*0',1' 6&D .' 6' 06 .' A1;-2* ' -1?' 6-(3' ' ,)65*(-1?' ,) .' =/6>*') *' >1? 1-,*0',) *') ;->)' ,)-1;5)' /*,,*-.%I' 2' 6' 0-*6?' D*' .68' 1-*.)6018*0' ,) *' D/110 ' 6,*' 8) >)' .)1;/0' 2' 6' *6-' D* 6//) ?(: 6+ 25' D**2' >6//*0' D6>9' -1?' *L /*') *' 8 ,)0-*8% 1-' 6' D- * '.*6.12',1') .' >1;2,-E!')1?*($20*-',) *' >12^ .;/ 46/*- ;.' <6L ?;.' ,) *' .;>>*..1-' 1 ' .=6. :.' 6(,*-2;.') *' -*>* +*0') .' 26/)*6- 25(& ,)' .*-*2*I' >1?=1.:-*' 620',) *' 81-0.' 410' D*' =-6 .*0 ') *' 8*/^ >1?*0',) *' .*2,*2>*' 8) >)' 86.',) 6,') *' .)1;/0' D*' *L(*>;,0*5 D ',) *' .81-0(1//18*0' D ' 6' /6-5*' >-180' 1 ' .=*>,6,1-.') *' 86.' /*0' 1;,' D* 120',) *' > , ' ,1' 6' .=1,' =/62,*0' 8 ,)',-**.(: *-*' D*' /6 0' 1 ') .' 1+*-C>/1,)*.' 92**/*0' 0182' =-6 *0' 620' -*>* +*0',) *' .,-19*' 1 ' ,) *' =/6>*' 8) *-*') *' .; *-*0' 0*6,) ' >) ;->) *.' 8*-*' 6 ^ ,*-86-0.' *-*>,*0' 8) >)' 8*-*')18*+*-' 0*?1/ .)*0' 6,) *' 2+6. 12' 1 ',) *' 6206/.' ;20*-' 4>2.>-> >^ >1-0 25',1' 6' /*5*20')6-/*?652*' >12+* *0') .' D12*.' ,1' -62>*' 8)*-*',) * ' 8*-*' -*.*-+*0' -.,' 6,' 12.' 620' 6 ,*-86-0.' 6,' -/*.%J' ,) *-' >) ;->) *.' 6/.1' M *2^ >*' 1?= 52*' 620' 1.26 ' 2' /620*-.X' >/6 ?',1' D*' 2' =1..*.. 12' 1 'D .' -*?6 2.% ( ) *' >)6-6>,*-' 1 ' =- 62' 620') .' 6>,. ' 2',) *' +6- ^ 1;.' > ->;?.,62>*.' 1 ') .' / * ')6+*' D**2' +6- 1;./ ' 1.77C ?6,*0(&) /*' .1?*' 60? -*' 620' =-6 .*') .' *L6/,*0' + *8.' 620' .) 2 25'+ -,;*.' 6.' 6') ;->)' 0 52 ,6- '1,)*-.')6-5*') ?' 8 ,)' =- 0*' 620' 0*.=1, .?(( ) *')1/7' *6-^ 2*..2*..' 8 ,)' 8) >)') *')121-*0') .' >6// 25' ,) *') 5)' 0*5-*' 1 '.*/ C0*2 6/) *' ?62 *.,*0' 2' / *' 620' 2' 0*6,)' 762' 6.' / ,,/*' D*' 0*2 *0') ?' 6.') .' *L,-61-0 26 '_;6/ ^ >6, 12.' 620' 6>, + , ' 6.' ?' /*60*-' 2' ,) *') ;->)' (: *-1 2' 8*' ?;.,' .**9') .' =*>;/ 6-' 5-*6,2*..(=7>;C' /6 +*',) 29 25' 86.' 21,') .' 1-,*(2',) .' -*.=*>,') *' .' *L>*//*0' 21,' 12/ ' D ',) *' /*L620- 62.' D;,' 6/.1' D ' (* : ;// 62',1' 8)1.*',) *' >12 1-?*0') .' 182(-1? 2*2,' 6?125') .' 01>,- 26/ =-*.*2,6, 12.' .',) 6,' 1 ',) *') ;->)',) *' ;2 , ' 1 ' 8) >)') *' 0*+*/1=. ' 21,' 1' ?;>)' 0 6/*>, >6// '620',) *1-*, >6// '6.') *' 6==-*) *20.' 2' 6>,;6/ / *' 620' .*..' 1-,)' 2' ,*// 25' = >,;-*.' 2' 6' >1->,>' 620' *2>-5*- >' 86 (M 1?=') .' 81-9' ' ' !!) "7!?' =- 62' 2,* 'D*' -*56-0*0' 6.',) *' 6^ ,) *-' 1 ',) *' 1?62' *= .>1=6/ . .,*?I' 2' >12.*^ _;*2>*' 1 ' >12 1;20 25',) *' 0*6.' 1 ',) *' + . D/*' 620' 2+ . D/*') ;->)') *' -* *--*0' 6//)- ., 62' / *' ,1' >1?? ;2 12' 8 ,)' 6' 0* 2,*' *L,*-26/' 10 (2') .' + *8',) *') ;->)' 86.' 62' 1;,86-0' 1-562 .?' 1;20*0' D ')- .,' 1' 8) >)',) *' D .)1=.' 8*-*',) *' = //6-.!',1' ,) *?',) *' :1/ ' = -,' 86.' >1?? ;2 >6,*0',)-1;5)',) *' 1-0 26, 12' 1',) *' 6=1../*.' 620') *2>*',) *' 8*-*',) *' 20 .=*2.6D/*' / 29.' 1-' >122*>, 25',) *') ;->)' 8,)')- .,' 2/ ',)-1;5)',) *?' >1;/0',) *' :1/ ' = -,' D*' ?=6-,*0' 620' 1;,' ,) *') ;-,) 21' 12*' >1;/0' D*' .6+*0' 6 ' '" ' "2 ' ' !' ,' .' 1 '21' 6+6 /' .6 .' =- 62' 8) 6,' 62' ?62',*6>) *.!' ,' .' *21;5)',) 6,') *' .*6>) *.' 1;,' 1',) *') ;->)' ,' >62' D*' 12/ ') ;?62' 1;,-65*1;.' 8 / ;/2*..' ,1' .;D.,,;,*' 62 ^ ,) 25' 1-' 6' 0 + 2*' 2.,,;, 12',1' *-*>,' 6') ;?62' 6/,6-' 2.,*60' 1',) *' 0 + 2*J' M *620*-X' 1-' >62' ,' D*' 0*^ 2 *0',) 6,' =- 62' /6 0',) *' 1;206, 12.' 1',) *' =- ?6> ' 1',) *' .**' 1 1?*(: *'=/6>*0',) *' ;2 , '1',) *') ;->)' ' 2',) *' *= .>1=6,*' ?69 25',) *' D .)1=.'-*=-*.*2,6, +*.' 1',) *' 6=1../*.' 620' ;-,)*-') *' ?60*',) *' >)6 -'1' ,(*.*-',) *' >*2,-*' 1 '*= .>1=6/ ;2 , ' 620',) *') ;->)' 6,' 1?*',) *' -11,'1 '6//I ' ' ' ' " 2 1' = .,(X(-6>, >6// ' 2') .' _;6--*/ 8 ,)' =1=*' .*^ =)*2' M.**' 6D1+*X') *' 0*2 *0',) .'=- ?6> ' D;,',) *' 01>^ ,- 2*' /6 ' 2') .' 182' 8- , 25.' 620' 6 ,*-') *') 60' =6..*0' 686 ',) *' /*5 , ?6,*' 2 *-*2>*.' -1?') .'01>,- 2*.' 8*-*' 0-682' D ') .' .;>>*..1-.' ;,' 8) /*',) *' 8-, 25.' 1' =- 62' 6 1-0*0' ;201;D,*0/ '6' D6. .' 12',) *' 12*') 620' 1-' 1?62' 620' =-*/6, >6/' >/6 ?.' ,) *') 6+*' ;2_;*.^ , 126D/*' ?*-, ' 12',) *' 1, >-' 1' .*,, 25' 1-,)' >-=,;-*' 6.' $*' .1/*' 5-1;20' 1' 6 ,) (; - 25') .' >12,-1+*-. ' 8 ,)' =1=*' ,*=) *2' 8) 1' ' >12, 2;6// ' ,6/9 25' 1

,- >B , 12 ' =- 62 , ,,*-*0 ,)*.)6-=620=-*52 2,6=)^ 1- . ? ; :.,1?' (,)1;,,- ; ,)' .' 12/ I62> *2,*--1-%J .' 62 2,*-=-*,*-1 ' >- =, ; -* ' =- 62 1>>; = *.' 6/,1^ 5*,)*-6=->, >6/ ..620C=1 2, ' 620)*2>* 01*.' 21,' 0*^ .= .* 6//*51- '8)*-*+*-' ,' 1->*.' ,.*/ ' ;=12) .' 62> % M **: *-[15 D1 26 + %f 'KK CKK %X : .'/ *)6. D**2 8- ,,*2 D ',)* - >62 =-*.D ,*-' 12, ; . ' ' ' % '\ 2 ; 26-,'& ' $'620 2 ,)*'*0 ^ , 12.' 1 ',)* 81-9.' 1 ' =- 62X ' & ,)',) . '>1?=6-* & ' ' ' % 'M 2 ; 26-,'K S ._%X 6>,62,% ! ' + ' ; .*D ; . ' #! 6 ! + ' NT 6/.1 /6,*-' 81-9.' 1 ' *6-.12 '& ' % 'M %7, % SQKX % : 6-62 ' N ' % :' : % 108*// ' ' ! % 'M L12% SQ X (//*?12, ' + ' S ._% M4*-+6 .*X ' ' ' $! % 'M 6- . ' ' ' +1/.%X -*==*/ '$! % 'N ' (& 4 ' ' ?IJI 'M 6- . ' QS Q+1X ! 5 1 12012 ' B ; / ' Q N ' 6-,% + ' 11=*-' @ ' " "" ' ' " ' =% K ' ._%M 120% Q Q ? 1X ;22 25)6 ? ' # 9 ' -" 1 >)% + 'g S% ()*' D*.,' *0 , 12.' 1 ' =- 62 .' 81-9.' > , % ' (8 6-*',)1.*' 1 ' L % SQK ' 1/% ' *0% */// ? ., ' ! 6-% ' *2*0 >, 2*' *0% ' KS ' 1/% ' 620 *2% KQ ' 1/% (-62.^ /6, 12 d -" ' ' + ' $! ' % 1 8 ,)') .' *' D ' 12, ; . ' D ' 6,)62 */ <6-.)6//' % % M 12012 ' 1/%X 6/.1 2 -*2>)' D ' 1 ? D*-,' M SQKX% (-62.^ /6, 12.' 1 ' .*=6-6,*' ,-6>,.d , ' ' 8 ,)' 1,)*-.' D ' / 1,' M N X ' D ' -*20*' M NX ' D ' ,1-A ' M SX ' 620 D ' ;=.*,' M S XT 12 -" ' ' 1 D ' 6 C 2*/ M NRXT 12 N 1 D ' 6-9.06/*' M S XT ' \ " ' 2 ' " ' " "' D ' D .)1=' */ M SQ ' ,1XT 620 D ' : 1-.D ; -5)' M Q X% ()*' 6% ' ,-62./6,*0 ' W 1= ' " ' @ " ' +1/ ' L+ ' M L % Q XT ,)*' - ' ' @ " ' +1/ ' ' M L 1-0 ' Q X% ()*' / *' 620 ?6-, -01?' 1 ' =- 62 ' D ' 12, ; . ') .' 2, ?6,*' - *20 ' .' ., // *L,62, ' 620 =- 2,*0 2 .*+*-6/ *0 , 12.' 1 ',)*' , % ' , ' D ; ',)*' ., /*% .',11 -)*,1- >6/ 1- . ?=/*' ,-; ,) % ' >1?=6>,' *0 , 12 1 ' =- 62 1 -=-6>, >6/ ; .*' .' % ' , % ' ? ' *0 % 41/0)1?' M * =. % QNQC R ' K =6-,.X % ' 2*8 ' ' % ' D ' 11/*' 86.' =;D/ .)*0 2 Q ' M L % Q+1XT 621,)*-' D ' *,,D*-5 ' 2 QN ' M41,, 25*2 ' Q+1XT 621,)*-' 2 $ ' % ' M 2+-*.' >1?=/*,*. ' ,-60 ; >, ' 4 ; //12 M 6-% QNS ' K +1/. % Q+1X % *8 *0 , 12.' 1 ' .*+*-6/ 1 ' ,)*' *= ../*.' 8*-*' =;D/ .)*0 D ' -6D 25*-' M (; D 25% Q NC Q Q ' ._%X % =- 6->)' M (-= 7=L7>' 51+*-21-' 1 ' =-; .JX ,)*' , ,/*' 1 ' >621-' M_% +%X 6.' - 62 + >*-1 ' 1 ' ,)*' ./^ 620 1 ' =-; .' MK < 6>>% L ' KX % =-1 .' M V((=1>' % *% % 81)53 1(=3 1 ' .*+^ 3 (8 ,3=(83# 0,')53 3 0*%(1 ,(=%89 33 $ ' % 2 0 ; ?6*62 M1-' -6D 62X 1 ' 21D/*' 6? / ' 8 *' 1 ' 2, =6,>-' ,)*' */0*-' D ' 8)1?')*')60 1 ;-' .12. ')6.6*/ ; . ' : *-10 M,)*' 4-*6,X ' B1.*=) ' 620)*-1-6. ' 620 6 06 ; 5),*-' 6/1?*' MB1.*=)% & ' L + ' NT ' ' R ' RX % K % ()*' .*>120 1 ',)*' ,81 06 ; 5),*-.' 1 ' : *-10 M,)*' 4-*6,X ' < 6- 6?2*' .)*' 86.' ?6-- *0 ,1)*-' >1 ; . 2 2, =6,*-' ,)*' .12 1 ' 6/1?*' : *-10 .' . .,*-' MB1.* /D% & ! L + ' ' X % N % ()*' .*>120 1 ',)*' ,81 06 ; 5),*-.' 1 ' D6.7/ ; . M : *-10 ,)*' 4-*6, .' D-1,)*-X D ') .' 2 *>*' 6/6?=. 1 .)*' 86.' ?6-- *0 ,1 5- ==6 ' ,)*' .12 1 ' - .,1/ ; /: * ' D ' 8)1?' .)*')60 ,81 .12.' 620 ,)-**' 06 ; 5),*-.' MB1 .*=) % & ' L + ' ' ' ' ' S% ')*' 12>*' 0 +*-,*0)*-') ; .D620 -1?') .' =; -=1.*' 1 ' .; > 0*' I & ' L + ' S KX % % ()*' 06 ; 5),*-' 1 ',)*' 6D1+*' M 1% KX 8 *' 1 ' ?' , =6,*-' .)*' 86.' ?6-- *0 ,1 /*L6.' */> 6.' MB1.*=) ' & ' L + ' ' X % % ' 06 ; 5),*-' D ',)*' ?6-- 65* I =-*>*0 25 I !8! =- ; .' M ; ((=1>X ',)*' ?10*-2) " ' 12*' 1 ',)* /6-5*.,' ./620.' 2 ,)*' < *0 ,*2 ; 2*62 ' 620 2*L,' ,1 >I / ' 2 ?=1-,62>*% ,' .' 6D1 ; ' ' ? /*.' 2 /*25,) ' 620 +6- *.' 2 D-*60,)' -1?' ' ,1 ' ? /*.% ()*' 2,*- 1-1 ',)*' ./620 .' ?1 ; 2,6 21 ; .' 6' - 05*' D* 25 0-6 8 2 6>-1..' ,)*' *2, -*' /*25,) ' 6,,6 2 25 ,.') 5)*.,' */*+6I , 12 2*6-',)*' >*2,-6/ -*5 12 62> *2,/ ' >6//*0 / ?=; .% ,')60 .*+*-6/ 26?*.' 2 >6-/A ' 65*.' ?1.,, ' =1*, >6/% 1?' ,.' 2 ; ?*-1 ; .')*60/620.' 620 =-1?12,1-*.' ,' 86.' >6//*0 *=612*' 1-' " ' # :' 620 ' ,.' *L ; D*-62, ' *-, / , ' < 6?= 2 ' 1-' " ' ; ' , M : 1-6>*' ! ' KS ' RX % ,.' =-1L ? , ' ,1 . 6 < ^ 21- ')>*2 > 6 ' 620 5E =, ' 620 ,.' 2 ; ?*-1 ; .')6+*2. ' ?60*' .' 6 5*2*-6/ -*20*[+1 ; .' 1-' ?*->)62,.% ' 1-2 ' 8 2*' 620 1 / J 8) >)' 6-*' .1 1 ,*2 ?*2, 12*0 2 ' ,)*' /0 (*.,6?*2,' 6.' ,)*' >)1 >*.,'=-10 ; >, 12.' 1 ' 6/*., 2*' M *; ,' L ' ')-12% L ' KRT *)% L ' QRT B*-% LLL KX ' 8*-*' 1 ; 20)*-*' 2 ' ,)*') 5)*.,' =*- *>, 12% ()* 1-*.,' 6/.1 ' ; -2 .)*0 /6-5*' .; ==/ *.' 1 ', ? D*-' 1-' .) =^ D ; /0 25 ' 8) >)' -*20*-*0 ,)*' >12 _ ; *.,' 1 ',)*' ./620 K 6+1- ,*' =-1A*>,' 1 ' ,)*' 5A 7=, 62 9 25. % ,' &6.' ,)*

D16.,' 1 ',) *' 7 =- 62.' .,) 6,',) * '>1;/0' D; /0' 620' 1?^ =/*,*' ,) * .'+*. .*/.' 8 ,)1;,' 62 '6 0' -1?' 1-* 52' >1;2^ ,- *.' M ? ? 62% <6->*//' L + ' Q ' g X% ?125' ,)*' ? 2*-6/ =-10;>,.' 8*-*' 0 6?120. ' *?*-6/0. ' 620' 1,)*-' 3=-*> 1; .' .,12*. '6/; ? '620'6.D*.,1.† D*. 0*.' -12 '/*60 ' [2>' 8 ,)' 6' =1-, 12' 1 '. /+*- ' 620 ' 6D1+*' 6// ' >1==*-' ,)*' 6-C 6?*0' Y' % ' ( )*' =- 2> =6/ ? 2*.' 8*-*' 2' ,)*' 2* 5)D1-)110' 1 ' (6?6. .;.' M ,-6D1 ' L + ' S† ' K ' *0% (6;>)2%X% / 2 ' 6.>- D*.' ,)*' 2+*2, 12' 1 ' D-6. ',1',) .' ./620'I7 '# 'LLL + ' KX% =-;,' .' 6' 6?1;.' =/6>*' 2' ? ,)1/15 >6/') ,.1- % ( )*' =-*. 0 25' 0 + 2 , '1 ',)*' ./620' 86.' *2;. '8)1')60' 6' >*/*D-6,*0' ,*A2=/*' 6,' 6=)1. ' 620' .')*2>*' 1 ,*2' >6//*0' ,)*' 6=) C 62' 5100*..% ( )*' 2)6D ,62,.' 8*-*' /;L;- 1;.' 620' * ^ *? 26,*' M :*-10 ' ' RR† ,)*2% K' =% S† /*6->)% % '& " ' S' =% K X% *+*-,)*/*..' / ,*-6,;-*' 620' ,)*' 6-,.' /1;- .)*0')*-*' ,1' 6' >12. 0*-6D/*' *L,*2, ' *+*2' J6,'62' *6-/ '=*- 10' 6.',)*' 26?*' 1 ',)*' , *% ' 1' 6.>- D*0' D '.1?*',1' : 1?*-' .; > *2,/ '6,,*.,.'M : *-10% ' QT ,)*2% ' =% SQKX% ,;6,*0' 2' ,)*' *L,-*?*' 16.,*-2' >1-2*-' 1 ',)*' < *0 ,*--62*62 ' 8 ,)' ,)*' -625*' 1 ' *D6212' 12',)*' *6.,'620',)6,'1 %(6;-:,' 12',)*' 21-,)' 0 .,2>,/ '+ . D/*' ,'2*+*-' D*>6?*' 6',)1-1;5)/ ' 4-**9' D/620% ,.' -*/ 5 1;.'- ,*.' 8*-*')6/ ' - *2,6/ '620' ,.' =1/ ,>6/') .,1-A ')6 ' 6/?1.,' 6/86 .' D**2' 6..1> 6,*0' 8 ,)' . 6' 620' - >6% ' ? ,) .' ' ' ' ? ' .% ' **' + / ' ! =-;.' 86.' 1- 5 26// ' =*1=/*0' -1?')1*2 > 6' M4*C .*2 ;.' ! " ! =% KKX% ?6. .' '9 25' 1 ' 5EI=,' .;D0;*0' ,)*' 8)1/*' ./620' M :*-10 ' ' QKX' 2' ,)*' , ?*' 1 ' : *-101,;.',)*' =1=;/6, 12' >12.D,*0' 1 ' ,)*2^ 62.' ->60 62.')1*2 > 62.' 620' ,) 1= 62.' M+ ' R X I' 620' 1-' 6' /125',?.',)*' 8)1/*' ./620' 86.' 0 + 0*0' 2,1' 2 2*' =*,, ' .1+*-* 52, *.' M d *21=) % ' S' K † / 2 ' ' N † 1>/' >% L+ ' KX% ,' D*>6?*' 6' =6-,' 1 ',)*' *-. 62' *?= -*' M :*-10' ' R' R X' 620' ;-2 .) I' >0' .) =.' 65; 2.,' 4-**>*' 2',)*' *L=*0 , 12' 1 ' d *-L*.' I ' + ' R X% 1-' 6' , ?*' ,' 86.' ; D A*>,',1' 4-**9' 2^ /;*2>*' D;,' 656 2' D*>6?*' ,- D;,6- ',1' *-. 6% ,*-' ,)*' D6,,/*' 1 ' ..;.' ,'A1 2*0' /*L620*-' 620' 6 ,*-') .' 0*6,)' */*' ,1',)*' .)6-*' 1 ' ,1/*? % 2' 6' 0*.=*-6,*' .*6C 5),' 1 ' 6/6? Q M % +% ' 6,',)*' *6.,' *20' 1 ' =-;.' M % % N SX',)*' +>,1- 86.' 812' D ' *?*,-;.' 1/ 1-C' N,*.† D;',)*' D/620' 86.' -*>1+*-*0' D ') .' - +6/ ' 620' 6 ,*-86-0.' ,'-*?6 2*0' 2',)*' =18 *-' 1 ',)*' ,1/*? *.' 620' 86.' -*56-0*0' 6.' 12*' 1 ',)*' -' ?1.,' >)*- .)*0' =1.^ .*.. 12.' M + ' L/+' KT B1.*=);.' & !' L; ' ' T' ,-6D1 ' L + ' SQ † 10% *% L L ' R' RT LL ' K ' X% ,' D*>6?*' 6' 1?62' =-1+ 2>*' M % % QX ;20*-' > ->;?^ .,62>*.' 0 .>-*0 ,6D/*' ,1' 1?*' M ,-6D1 ' L + ' SQ † /1-% ' RT * /% 6,% ' NQT 12' 6.. ' LLL+ ' N † LLL L KKX% ,' -.,' .'60? 2 .,-6, 12' +-6.' A1 2*0' 8 ,)',)6,'1 ' / > 6 ' D;,' 6 /*-',)*' D6,,/*' 1 ' >, ;?' ,' 86.' .*=6-6,*/ ' 51+*-2*0% 2',)*' -.,'0 + . 12' ,' 86.' ?60*' 62' ?=*^ - 6/ =-1+ 2>*' M 12' 6.. '/ ' KX% -1?',) .' =6. .65*' 620' -1?' ,-6D1' ML + ' =% SQNX ,')6.' D*'2' .;==1.*0' D ' .1?*' 6.' D ' 6-12 2.',)6,' ;9*' M >,.' L ' X ;.*0',)*' 81-0' (1 -, ' I% 1' 0*=;, JX' D*>6;.*',)*' ./620' 86.' ., /// >122*>,*0' 8 ,)' / > 6' D '1,)*-.' 6.' D ' 4-1, ;.' 620' : 6?? 120',)6,',)*' *+625*/D,' *?^ =/1 .',)*' 81-0' 2' 6' /11.*' 620' 5*2*-6/' ? 622*-% ;,' 2' 6>,' 12' 6.. ;.') ?.*/'0 ., 2>,/ ',*//.' ;.' I f 620' $+' X',)6,',)*' *?=*-1-' 6 ,*-86-0.' ?60*',) .' ./620' 6' ,*26,1- 6/ =-1+ 2>*' .1',)6,' ;9*.' /625;65*' D' 2' ,)*' .,- >,*.,' .*2.*' >1--*>,% ;-,)*-' >12 -?6, 12' .' .;==/ *0' D '>1 2.'620' 2.>- =, 12.' 8 ,) >)' ?*2, 12' 1,)^ *-'=-1>1\[.<\'1 ' =-;.' 21,'+*- '-*?1,*' -1?',)*',?*' 1 ' *-5 ;.' M % +% 6;/;.' ( )*' 51+*-21-' 6==*6-.' ,1' / 6+1' -*. 0*0' 6,' 6=)1.' 12' ,)*' 8*.,' 1 ',)1' ./620% $20*-',)*' 1?62' *?= -*' 6' -160' >122*>,*0',)*',81' ,18 2.' 1' 6=)1.' 620' 6/6? H' 6.' 6==*6-.' -1?',)*' ! - ' 2*' 1 ',)*' ?1.,'-*?6-96D/*' *+*2,.' 2' ,) .' =6-,'1 ',/A*') .,1- '1' =-;.' 86.' 6',*-- D/*' 2.;-^ -*>,12' 1',)*' B*8.' 2',)*' -* 52' 1 ' (-8462' 8) >)' /*0' ,1' 6' ?6..6>-*' -.,' 1',)*' 4-**9' 2)6D ,62,.' 620',)*2' 1 ',)*' 2.;-5*2,.',)*?.*/+*.' M < /?62' # ' ' " ' JD X' ' ' KX% &)*2',)*' *?= -*' 86.' 0 + 0*0' ,

1==*-' -1>12.;/6-' 1 2' 1 ',/ -=?.'38 ,)' ,/8',)*60' 620',,/*' M 2' 6, 2E 1 ' 1' 620',)*' /*5*20' M 2' 4-**9. '$20*-' ? 2;.' -1_/;.' -1>12.;/ 1',)* =- 62.%J

// ,1',)' .)6-*' 1',)*' [62, 2*' *?=*-1-. % >)6-0' '1 ' 25/620' >12_;*-*0' ,' 2' R ' 620' 56+*' ,',1' 4 ; ;. 5262 ' D ' 8)1.*' 6? / ' ,' 86.' -*,6 2*0' 1-' 2*6-/ ',)-**' >*2,;-*.% 2' N',)*' =*;)6.' D/ >' 1 ' *2 >*' 1/P' ,6 2*0' =1..*.. 12' 1 ' ,† D;,' 2' ' ,' 86.' ,69*2' D ' ' */ ?' ' 620' *+*-'. 2>*')6.' D**2' ;20*-',)*' 01? 2 12' 1 ',)*' (;-9. ' =-;.' 86.' 6?*0' 6?125',)*' 62> *2,.' 1-' ,.' D*6;, ' 620' *-, / ,E ' 620' 6// ?10*-2' ,-6+*//*-.' 65-**',)6,' 5-*6,',)*')620.' 1 '62' 20;.,-1;.'-6>*' ,' 81;/0' D*' 12*' 1 ',)*' ?1.,'=-10;>, +*' >1;2,-*.' 2',)*' 81-/0' D;,' (;-9 .)', -622 ' 620' D6-D6-.?')6+*' -*0;>*0' ,' ,1' 6' 0*=/1-6D/*' >120 , 12% ( )-1;5)',)*' 2*5/*>,' 1 ' 0-6 265*',)*' .,-*6?.',)6,'0*.>*20' -1?',)*' ?1;2,6 2' -625*' 1-?' ?6-.)*.' 620' -*20*-',)*' ./620' =6-, >;/6-^ / ' ;2)*6/,) % ?=*- *>,/ ' 6.' ,' .' >;/, +6,*0')18^ *+*-' ',.,// 6D1;20.' 2' *+*- ' =-10;>, 12' 1 ' 26,;-*' 620' D*6-.'5-*6,' ;6>,' 2',,*.' 1 '>1 ?' 5.'1/ +*.'1-625*.' /*?12.'06,*.'620' 20**0' 1 '*+*- ' ? ,'.**2' 2',)*.*' >/ ?6,*.† ,' 21;-.)*.' 5-*6,'2;?D*-.' 1 '516,..' .)**=' = 5.' 620' 1L*2' 1 ',)*' /6,,*-' 1 ' 8)>)' ,')6.' 6,',?*.' *L=1-,*0' .;==/ *.',1' <6/,6% ()*' ?1.,' +6/;6D/*`=-10^ ;>,'6,'=-*.*2,.' >1,,12% ()*' ?6A1- ,' 1 ',)*' =1=;/6^ ,12' D*/125',1',)*' 4-**9' );->)† ,)*' 6->)D .)1=' -*^ .0*.' 6,' * 91. 6!T ' % 1' .% + %† < ` ;/C 1>) .' ? / ' .% + ' ( ) .' ./620' 86.' 2' *6-/ ', ?*.' 2'>/1.*' >1?? *-> 6/ >122*>,12' 8 ,)')>*2 > 6' 620',)*-*' .' / ,,/*' 01;D,'),6,' ,' .' -* *--*0',1' 2' .;>)' =6..65*.' 1 ',)*' % (% 6.' [*9% LL+ 'S% ** ' f B1.*=);.' ?69*.',) .' 0*2, >6, 12' 2',)*' ?1.,' *L=-*..',*-?.' I& ! ' S † .1' = =)62% # 'LLL 'K X% 1.. D/ 'B*8.' ?6 ')6+*' .*,,/*0' 2' =-;.' D* 1-*',)*' , ?*' 1 ' /*L620*-% 112' 6 ,*-') .', ?*',)* ' 8*-*' 2;?*-1;.' 2',)*' ./620' 6.' .' 0 ., 2>,/ ' ?=/ *0' B2' ' <6>>% L+ ' KN' M>1?=' B1.*=);.' & ' L ' ' T') /1 ' L%%!' ' Q X% ()*' 26?*' 6/.1' 1>>;-.' K' <6>>% L ' N ' L ' K% ()*' >1==*-' ? 2*.' 8*-*' 6,'12*' , ?*' 6-?*0',1' :*-10',)*' 4-*6,' M B1.*=);.' & ! L+ ' ' X' 620',)*-*' .' 6' =- 62' 2.>-=, 12' M 1>9) ' 1% KSKQX 8)>)' .** ?.',1' -* *-',1' 12*' 1 ',)*' :*-10.% ()*' -.,' 21, >*' 1 ' ,' 2',)*' % (% .' 2' >,.' +' NS' 8)*-*' .' ?*2, 12*0' 6.',)*' 26, +*' =/6>*' 1 ' 6-26D6.% 2' >,.' L ' R' K ' ,' 6==*6-.' =-1? 2*2,/ ' 2' >122*>I7 ,12' 8 ,)',)*' *6-/ *.,' .=-*60 25' 1 ')- ., 62, ' -.,' 6.' -*>* + 25' 62' ?=;/.*' 6?125',.' B*8 .)' =1=;/6, 12' -1?',)*' =*-.*>;, 12' 8)>)' 0-1+*' ,)*' 0 .> =/*.' -1?' B*-;.6/*?' 6,',)*' 0*6,)' 1 ' ,*=)*2' 620',)*2' 6.' ;-^ 2 .) 25' 0 .> =/*.' 8)1' =-*6>)*0',)*' 41.=*/,1' 4*2, /*.' 6,' 2, 1>)% ()*.' 8)*2' 6;/ 86.' .*2,' 8 ,)' 6-26^ D6.' -1?' 2, 1>)' 12') .' -.,' 2 .. 126- 'A1;-2*A7' ^ =-;.' 86.',)*' -.,'.>*2*' 1',)*' -'/6D1-.'M >,.' L ' r NX' 56 2' 8)*2' 6;/ 620' 6-26D6.' .*=6-6,*0' 620' ,119' 0 *-*2,' -1;,*.',)*' /6,,*-' 8*2,',1') .' 26, +*' ./620' ,69 25' 8 ,)') ?') .'-*/6, +*' <6-9' 8)1')60' 6/.1' D**2' ,)*-*' 12',)*' =-*+ 1;.' 1>>6. 12' M >,.' L+ ' NRX% 21,)^ *-')- ., 62' 1 ' =-;.' <26.12' >6//*0' `62' 1/0' 0 .> ^ =/* '620',)*-* 1-*' =-1D6D/ '62' *6-/ '>12+*-.' .' ?*2^ ,12*0' >,.' LL ' S% ()*' 1,)*-' 21, >*.' 1 ',)*' 620' 6-*' =;-*/ '5*15-6=) >6/% 2' 6;/ .' -*.;-2' -1?',)*' ,) -0' ? .. 126- 'A1;-2* ',)*' ` . 5),*0' =-;.' 6;0' .6 /*0',1',)*' .1;,)86-0' 1 ' ,' 12',)*' +1 65*' -1?' 6' ,6-6',1' (-*' M D% NX% ',)*' >1? ?*2>*?*2,' 1 ',)*' +1 65*',1' 1?*',)*' .k /*0',1',)*' 21-,)86-0' 1 ' ,' 12' /*6+ 25' 012' 2' 1-0*-',1' D1' ;20*-',)*' /**' 1 ',)*' /620' M >,.' LL ' X' 620' 6/.1' 2' 1-0*-',1' 1D,6 2',)*' 60'+62I

: 6 & / :

,65*' 1 ',)*' >;--*2,' 8/ >)' .*,.' 21-,)*-/ ' 6/125' ,)* >16.,'1 ')1*2 > 6 '620' 8*.,*-/ ' 8 ,)'>12. 0*-6D/*' 1->*' 6/125' / > 6J' M ? ,)' .% +%X0' **' ' / ' : ' + $ 3!

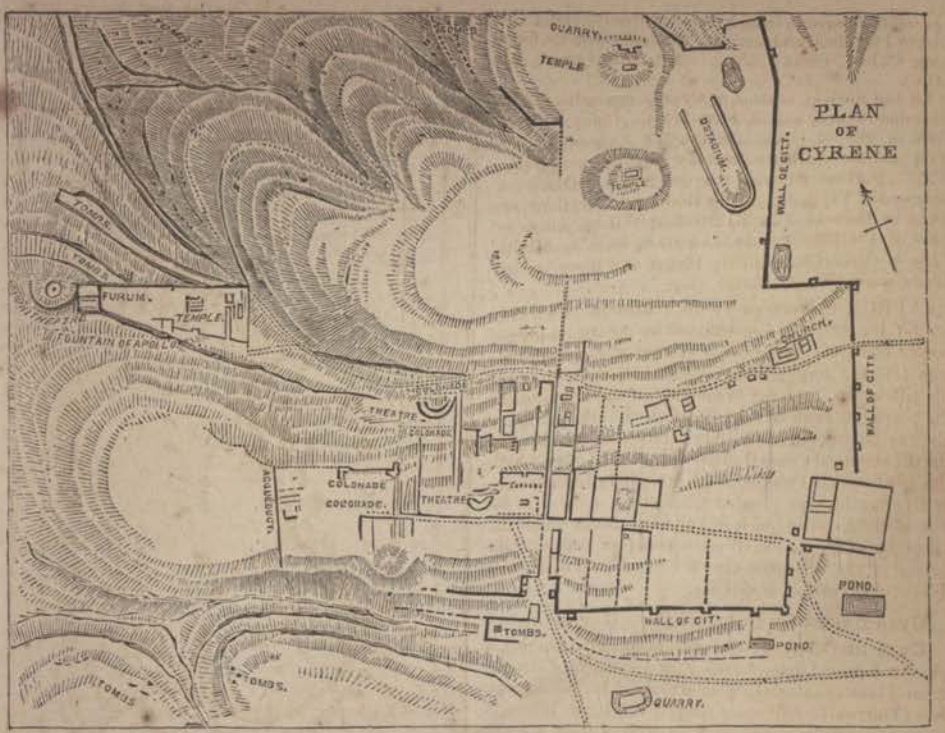
/!' ,)*' 62> *2,' 21, >*.' 1 ' =-;.' 6-*' >1//*>,*0' D ' <*;-. ;.' I, % 1' +1/% ' /1-% X% 1?=% *//6- ') !' ' KSS' ._%T .**' 6/.1' 25*/ .') % ' M *-/ 2 Q NX' 620' 1..' ; ' +' ! 'D ' % ' M : 6//*' Q KX% ;-,)*-' 6>>1;2,.' ?6 ' D*' 1;20' 2' <622*-,' ? %" !1 ' ' KKC % <10*-2' 0*.>- =, 12.' 6-*' 5 +*2' ' 1>1>9*') ' 'K CKN T' & /.12' ' ' ; 2 ' ' C R T' (;-2*-' ' ' ' KQT' < 6- , ' < !' ' % f' M /1-% S RXT' $25*-' 620' 1,.>) ' ' ' D ' % ' M & *2' QS X%

$ ' ' #' !' .)1=.' 1 ' A7-;.' 6-*' 1-' ,)*' -.', ?*' ?*2, 12*0' 2' ,)*' ,)' >*2,;-E% 112' 12..62, 6' D*>6?*' ,)*' .*6,' 1 '6' ?*,-1=1/ ,62 ' 8)1' 6..*-,*0' 620' ?6 2,6 2*0') .' 20*=*20*2>*' 1 ' 6//' ,)*' =6,- 6->).% ',',)*' D*5 22 25' 1 ',)*' ,)' >*2,;- ' ,)*' =6,- 6->)' B1)2' 1 ' 2, 1>)' ?60*' 62' * 1-,' ,1')6+*' =-;.' 2>1-=1-6,*0' 8 ,)') .' =6,- 6->)6/' 0 .,- >,' D;,' ,)*' M >;?*2 >6/' 1;2> /1 ' =)*.;.' M N X 'D* 1-*' 8) >)' ,)*' 2*8/ C*/*>,*0' ?*,-1=1/ ,62')*5 2;.' 620',81' 1,)^ *-' =- 62' D .)1=.' =/*60*0',)* -' - 5), ' 0*> 0*0' 2' 6^ +1-' 1 ',)*' 20*=*20*2>*' 1 ' =-;.% +*-' . 2>*' ,)*' >);->)*.' 1 ' =-;.')6+*' >12.,.;,*0' 62' 20*=*20*2,' 5-1;=' 1 ',)*' 1-,)101L' 4-**9');->)% ' & *,[*-' ;20' & */,*') " 1 ' 'RS '._%

-62 ' ,%' **' ' '% $!

-* 27'M =A-(V' ?+ ' 2' ?10*-2' -6D >X'6' > , ' 2' $==*-' D 6' 1;20*0' D ' 6' >1/12 ' 1 ' 4-**9.' -1?' ()*-6' M 62,1- 2 X' 6' .?6// ./620' 2',)*' C 5-*62' *6' M() -/86// .' ; ' '? ,' +1/% '>)% KX% ,.' 26?*' .' 5*2*-6// ' .;==1.*0',1' D*' 0*- +*0' -1?' 6' 1;2^ ,6 2' MD;,' 6>>1-0 25',1' B;., 2 ' # ' L '6' ?1;2,6 2X' >6//*0' +=A A' ' 2*6-' ,.' . ,*% ,' 86.' D; /,' 12' 6',7' !D/*C/620' Q ' **,' 6D1+*' ,)*' /*+*/ 1 ',)*' .*6' 2' 6' -*C ' 5 # ' 1 '*L,-61-0 26-A' *-, / , '620' D*6;, % ,' 86.',)*' >6= ,6/' 1 ' 6' 0 .,- >,' >6//*0' -1?' , ' ' M 6->6X' 8) >)' *L,*20*0' -1?',)*' 4;/ '1 ' /6, *6' M 1?D6X',1' ,)*' 4-*6,' -, .' M4;/ '1 ' 0-6X% & ,)' ,.' =1-,' =1/C' /12 6' M<;.6' 11.6X' 6D1;,',*2' ? /*.' 0 ..62,' 620',)*' > , *.' 6->6' (*;>) -6' 620' : *.=*- . ' 8) >)' 6,' 6' /6,*-' =*- 10' 8*-*' 26?*0' ,1/*?6 . ' -./21>' 620' *-*2 >*' M ,-6D1' L+ T' +1/% "' =% RS' *0' (6;>)2%X' ,' 1-?*0' ,)*' -*26 1' *2,6=1/ .' M<*/% ' 'QT' / 2 ' +' T' ,1/*?% +' ' : T' ??% <6->*// ' LL ' SX% ,' .' 1D^ .*-+6D/*' ,)6,',)*' *L=-*.. 12' ;.*0' 2' >,.' ' ' ,)*' =6-,.' 1 ' D 6' 6D1;,' I) - 8 -*2* J' *L6>,/ ' >1--*^ .=120.' 8 ,)' 6' =)-6.*' ;.*0' D ' 12' 6.. ;.' M MVN 7 8 ((=,) % * N'/ ' KX' 620' 6/.1' 8 ,)',)*' /625;65*' 1 ' B1.*=);.' MFX P--% ' < % * ' & % *(' & ' L+ ' S' X% **') # ! ,.' 2)6D ,62,.' 8*-*' +*- '/;L;-1;.' 620' -* 2*0' 620',86.' 2' 6' ?622*-' 6' >1? ?*-> 6/ - +6/' 1' 6-,)65*' M 1-D 5*-' D ' ' !' ? ' 'NQ ' ._%T ,',*-' 6 +' ' R S' ._%X% ()*' 4-**9' >1/12 [6, 12' 1' ,) .',=6-,'1 ' - >6';20*-' 6,,;.' D*562' 6.' *6-/ '6.' % % SN ' 620' ,' D*>6?*' >*/*D-6,*0' 21,' 12/ ' 1-' ,.' >1?^ ?*->*' D;,' 1-' ,.' =) . > 62. ' =) /1.1=)*-.' 620' =1*,.' M : *-10' +' S X% ,'81;/0' .**?',)6,',)*' 1/0' : */^ /*2 >' >1/12 .,.' >;/, +6,*0' - *20/ ' -*/6, 12.' 8 ,)' ,)*' 26, +*' D 62.' 620',1' 6' ?;>)' 5-*6,*-' *L,*2,',)62' ;.;6/' D*>6?*' 2,*-? 25/*0' 8 ,)',)*' ?' D ' ?6-- 65*' -*^ /6, 12.) =.' M : *-10' +' QSC QRX% 1-' 6D1+*' Q 'A>6-.' ,)*' 1-?' 1 '51+*-2?*2,' 86.' ?126->) >6/T ,',)*2' D*^ >6?*' -*=;D/ >62' 620' 6,'/6..',)*' >1;2,- 'D*>6?*',- D^ ;,6- ',1' 5 =,' ;20*-' ,1/*? ' *,*-% ,' 86.' D*^ _;*6,)*0',1',)*' 1?62.' D ' = 12',)*' 26,;-6/' .12' 1' ,1/*? ') .>12' 6D1;,' % % R ' M(6> ,;.' & ' L +' QT' >*-1' ' ' '& ' ' RX' 620' 2' % % ' 1-?^ *0' 2,1' 6' =-1+ 2>*' M ,-6D1' L+ 'QX% 2',)*' >12_;*.,' 1 ' -*,*' M % % S X',)*',81' 8*-*' ;2 ,*0' 2' 12*=-1+ 2>*' 620',15*,)*-' -*_;*2,/ ' >6//*0' 4-*,6C -*2*% **' ! 2' 2.;--*>,12' 2',)*' -* 52' 1' (-6A62' /*0',1' 5-*6,' 0 .6.,*-.' 620',1',)*' D*5 22 25' 1 ',.' 0*>6 % 2',)*' `,)' >*2,;- ' ,' 86.' 0*.,-1 *0' D ',)*' 56, ,*.' 1 <6=' 1 ',)* 16.,' 1 ' - >6 6ZA1 6/25' -*2*%

,)* DA762' 0*.*-,' 620' ..' 8*6/,)' 620')121-.' 8*-*' ,-62. *--*0',1',)*' *= .>1=6/ > , ' 1 ' ,1/*?6 . ' 2' ,.' 2* 5)D1-)110% ()* 6-6>*2.' >12F=/*,*0',)*' 81-9' 1 ' 0*..-;>, 12' 620' 1-' >*2,;- *.' 21,' 12/ ' ,)*' _ , ' D;,



the once populous and fertile district of which it was the ornament, has been almost lost to civilization. During three parts of the year the place is tenanted by wild animals of the desert, and during the fourth part the wandering Bedouins pitch their tents on the low grounds in its neighborhood.—Smith, *Dict. of Class. Geog.* s. v.; *Penny Cyclopædia*, s. v. Cyrenaica, Cyrene; Rawlinson's *Herodotus*, iii, 108 sq.

Coins of Cyrene, bearing the sacred *Silphium* Plant (which was the chief article of export).

Strabo (quoted by Josephus, *Ant.* xiv, 7) says that in Cyrene there were four classes of persons, namely, citizens, husbandmen, foreigners, and Jews, and that the latter enjoyed their own customs and laws (comp. Dio Cass. lviii, 32). Ptolemy, the son of Lagus, introduced them, because he thought they would contribute to the security of the place (Joseph. *c. Apion.* ii, 4). They became a prominent and influential class of the community (*Ant.* xiv, 7, 2), and they afterwards received much consideration from the Romans (xvi, 6, 5). See 1 Macc. xv, 23; comp. 2 Macc. ii, 23. We learn from Josephus (*Life*, 76) that soon after the Jewish war they rose against the Roman power. The notices above given of the numbers and position of the Jews in Cyrene (confirmed by Philo, who speaks of the diffusion of the Jews southward to Ethiopia, *adv. Flacc.* p. 523) prepare us for the frequent mention of the place in the N. T. in connection with Christianity. Simon, who bore our Saviour's cross (Matt. xxvii, 32; Mark xv, 21; Luke xxiii, 26), was a native of Cyrene. Jewish dwellers in Cyrenaica were in Jerusalem at Pentecost (Acts ii, 10). They even gave their name to one of the synagogues in Jerusalem (vi, 9). Christian converts from Cyrene were among those who contributed actively to the formation of the first Gentile church at Antioch (xi, 20), and among those who are specially mentioned as laboring at Antioch, when Barnabas and Saul were sent on their missionary journey, is Lucius of Cyrene (xiii, 1), traditionally said to have been the first bishop of his native district. Other traditions connect Mark with the first establishment of Christianity in this part of Africa. See AFRICA.

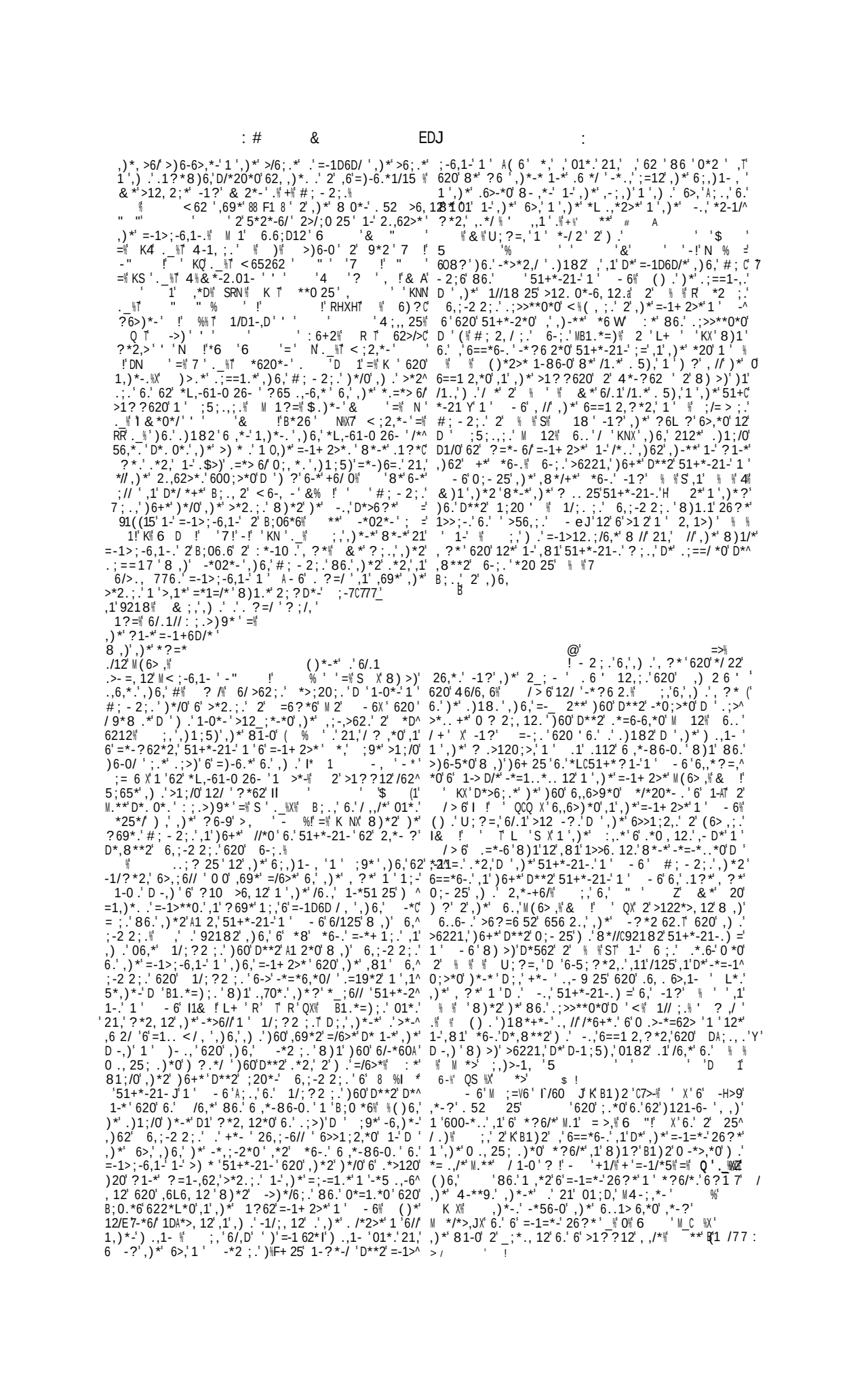
See Della Cella, *Viaggio da Tripoli*, etc. (Genoa, 1819); Pacho, *Voyage dans la Marmarique, la Cyrenaique* (Paris, 1827–29); Trige, *Res Cyrenenses* (Hafn. 1828); Beechey, *Expedition to Explore the north Coast of Africa* (London, 1828); Barth, *Wanderungen durch das Punische u. Kyrenäische Küstenland* (Berlin, 1849); Hamilton, *Wanderings in North Africa* (London, 1856), p. 78; Smith and Porcher, *Hist. of Discoveries at Cyrene* (Lond. 1865).

Cyre'nian (Κυρηναῖος, *Cyrenæan*, "of Cyrene," Matt. xxvii, 32; Acts xi, 20; xiii, 1), a native of Cyrene (q. v.) or Cyrenaica, in Africa (Mark xv, 21; Luke xxiii, 26; Acts vi, 9).

Cyre'nius (Græcized Κυρήνιος, Luke ii, 2; see Deyling, *Obss.* ii, 431 sq.), for the Latin *Quirinus* (prob. not *Quirinius*; see Meyer, *Comment.* in loc.). His full name was PUBLIUS SULPICIUS QUIRINUS (see Sueton. *Tiber.* 49; Tacit. *Ann.* ii, 30). He is the second of that name mentioned in Roman history (see Smith, *Dict. of Class. Biog.* s. v.), and was consul with M. Valerius Messala, B.C. 12. From the language of Tacitus (*Ann.* iii, 48), it would appear that he was of obscure origin, a supposition apparently favored by

2 ,2 , ' 1 ' ?6, ; ,>- =,.' 620' +*-. 12.' M.*1' 4- *.D6>)' 2' /1>%X ' .' ;2>- , >6/ 620' 1->*0% N% *A*>, 25'6//',)*.*' ?*,)10.'1 '-*>12> / 6, 12 ' .1?*')*-*' .;==1.*' 6' ? .,6/,*' 1-' ? .-*>1//*>, 12' 12' ;9* . o=6-,' M ? ?12 ' ; 2' -" G% ' K T ' ' ' ! -/625*2 ' Q T D 1' ' K ' ._%T () *..') ! ' ' NQ T ,-6;. . ' " ' D 1' =% KSK' . _%T * ..*' 6 "' ? + " ' ' K ' ._%X ' ,' D* 25 ' 6,' ,)*', ?*' 1 ' 8- , 25 ' ?62 ' *6-.' . 2>*',)*' 1>>;--*2>*% 1' 2*-' 8)1' ., //)1/0.' ,)*' >*2. ; .' 6.' 6' 6>,' 620' ,) 29.' # ; - 2 ;.' ?6 ')6+*' >120 ;>,*0' ,' M *620*-' =' " ' Bk <'=% K T' <*+1-' 12' ;9* ' ' KX ' ,)*' 12/ ' *--1-' D* 25' 2' 26? 25') ?' 51+*-21-' 1 ' - 6' M>1?=% &2 ' B) ' K '=% K X% >-,6 2/E7 ,' .' 21,' ,1' D*' . ;=^ =1.*0' ,)6,' ;9*')*-*' -* *-.' ,1' ,)*' 6D1+*C?*2, 12*0' >*2. ;.' 1 ' # ; - 2 ;.' M >,.' + ' N X' 620' ? .06,*.' ',) ; .' 1-' ,)*I'?*2, 12' 1 ' ,' 2' >,.' .)18.',)6,')1' 86.' 8*// 6>_;6 2,*0' 8 ,)' ,T' 620' *+*2' 2' ' K ',)*' & ! ' .**?.',1' ?=/ ',)*'1,)*-% ' & 2*-' ' KRK% % 21,)*-' ?10*' 1 ' 5*,, 25' 1+*-' ,)*' 0 >;/, ' .' .62>, 12*0' D ' ,)*' 26?*.' 1 ' 6/+ 2 ' 6/*. ; .' & *,C .,* 2 ' : 6/*. ' 620' 1,)*-.% -. ' >)625 25' 2,1' - 8' ,)* ' 1D,6 2' ,)*' .*2.*& 2' ,)1.*' 06 .' ,)*-*' 8*2,' 1-,)'6'0*>-** -1?' ;5 ; . ; ,)6,',)*' 8)1/*' /620' .)1;/0' D*' *2-1//*0T D ; ,' ,)*' ' 86.' -.,' ?60*' 8)*2' -*2 ;.' 86.' 51+*-21-' 1 ' - 6%J' ()*' .;==1. , 12')*-*' .',)6,',)*' >*2. ;.' 86.' >1?-*2>>0' ;2-/*-@ C ,;-2 22. ' D ;.' 86.' 21,' >1?=/*,*0', // ,81' *6-. ` ?7-% 1D 2.12' I& !' ' ,)*' *2, -*' 6DC *+*2' 2' ,6/ ' ? ;>)' ?1-*' ? ; .,' ,')6+*' 6==*6-*0' 2*>^ *..6- ' 2' , ; / D ; /*2, ' =-1+ 2>*.' / 9*' B ; 0.*6' 620' 46/ /**% ,' ,)*' =-*. *2,'A ; >, ; -*')18*+*-.' ,' 6==*6-.' ,)6,',)*' */.; ,' =-1>**0*0' 21' 6-,)*-',)62',)*' -.,' 6>,' 26?*^ / ',)*' *2-1/?*2,' 1 ' =*-.12.' 2' ,)*' 1?62' -*5 ..*-% 1-' : *-10' .*2,') .',-; ., ' ? 2 .,*-' >1/6.' 1 7 6?6.C >; .',1' 1?*' 8)1'D ') .' 600-*.' 620'=-*.*2,. ' 1 ;20' ?*62.',1' ?1// ' 620' ;20*>* +*',)*' *?=*-1-' .1',)6,')1' =-1>**0*0' 21' 6-,)*-' 2' ,)*' 0*. 52' 8) >)')*')60' *2,*-,6 2*O% ()1' >*2. ;.' 86.' >12.>_;*2,/A7 6,' ,) .' , ?*' . ; .=*20*0T D ;,' ,' 86.'6.'>6-- *0' 2,1' * ^ *>,' ;=12' ,)*' 0*=1.6/ 620' D62 .)?*2,' 1 ' ->)*/6; .' 620' ,)*' .*,,/*?*2,' 1 'B ; 06A6' 6.' 6' 1?62' =-1+ 2>*% 2' ,) .' 1>>6. 12' ,)1' ,-; ., ' -*2 ;.' 86.' .*2,' 656 2' 6.' =-*. 0*2,' 1 ' - 6 ' 8 ,)' 62' 6-?*0' 1->*' ,1' >12 .^ >6,*' ,)*' =-1=*-, ' 1 ' ->)*/6; .' 620' ,1' >1?=/*,*' ,)*' >*2. ;.' 1-' ,)*' =; -=1.*.' 1 ' ,6L6, 12% () .' ,6L6, 12' 86.' 6'=1//C,6L' 1 ',81'0-6>)?e' 6')*60' ;=12' ?6/*.' -1?' 1 ;-,**2' 620' *?6/*.' -1?' ,8*/+*' ,1' . L, C +*' *6-.' 1 ' 65* ' *_;6/ ,1' 6D1 ;' ,**2'=*2>*' 1 ' 1 ;-' ?12* % ()' .' 86.' _)1' ,- D ;,*' ?12*A7 ?*2, 12*0' 2' <6,, ' L+ ' K CK % ()*'=6 ?*2,' 1 ' ,' D*>6?*' +*- ' 1D21a 1 ;.' ,1' ,)*' B*8 . ' 620' ,)*' ?=1. , 12' 1 ' ,' 1>>6. 12>% ,)*' 2 .;--*>, 12' ;20*-' B206.' 1 ' 46/ /**' 8) >)' ;/C%) ?.*/ '0*.>- D*.' 6.')6+ 25' 1>>;--*0' ' 2',)*' 06 .' ,)*',6L 25J' M >,.' + ' N X% 7 ',) .' .,6,*?*2, ' >1227 ' 8.' ,)*' ./ 5),' *?*206, 12' 1',)*',*L,' 6/-*60 ' 0>6,*0' : 6/*.' >12. 0*-.',)6,' ,)*' +625*/ .,' ' >6// ' -*>12> /*0' 8 ,)',)*' +6- 25' 6>>1;2,.' =) ; .'B ; ., 2' <6-, -' 620' (*-,; // 62T 620' 6>,1- / '.1/+*0' 8) >)')6.' 1%J' (/ .' .' =*-)6 A' A.' ;201;D,*Z ' 12*' 1 ' ,)*' " 1' ' ,02*.% @@@@@@@@ @@@=D*//' 12' ;9. (; 0. : *-10')60' ?6->)*0' 62' 6 2(' >*-,6 2' 8-125.' 8) >)')*')60' -*>* +*0T 620' ,) .' =-1^ >**0 25')60' /N**2 .1' ? .-*=-*.*2,*0' ,1' ;5 ; . ,; .' ,) 6,')1' 8-1,*' 6' +*- ') -.)' /*,,*-' ,1' : *-10' ,)*' ; D.,62>*' 1 ' 8) >)' 86.' ,)6,')6f025') ,)*-,1' ,-*6,*0') ?' 6.' 6' - *20')*' 81 ;/0' 218' ,-*6,') ?' 6.' 6' .; DA*>,% ' 20' 8)*2' : *-10' .*2,' 62' *?D6.. ' ,1'>/*6-') ?.*/ ' ,)*' *?^ =*-1-' -*=*6,*0/ ' -* ; .*0' ,1')*6-' ,)*?' 620' .1' : *-10' 86.' 1->*0' ,1' .; D ? ' ,1' 6//' ,)*' * ' I1- % 8' ,1') ?' MB1.*=)% & !' L+ ' RX% 18' ,' ?6 ' D* >1//*>,*0' ,)6,',)*' >) * ' 1 ' ,)*.*' 2A; - *.' 86.' .)*' =*-^ 1-?62>*' 1 ') .' ,)-*6,' 1 ',-*6, 25') ?' 6.' 6' . ; DA*>,' D ' ,)*' 0*5-606, 12' 1 '/ .' 9 2501?' ,1' 6' 1?62' =-1+ 2>*% 1-' .112' 6 ,*-' B1.*=) ; .' 2> 0*2,6// ' ?*2, 12.' ,)6,' ',)*' 8)1/*26, 12' 1 ',)*' B*8 .' ,119' 62' 16,)' 1 ' 0*/ , ' ,1' .6-' 620' ,)*'9 25'A1 2, ,)J' *L>*=,' ' 1 ',)*')6-^ .**. ' 8)1' ,)-1;5)',)* -')1., / , ',1' ,)*'-*56/ 51+*-2^ ?*2, '-* ; .*0' ,1' ,69*' ,%J' ()*' 06,*' 1 ' ,) .' ,-62%.6>C , 12' .' 0*,*-? 2*0' D ' ,.')6+ 25' D**2' .)1-,/ ' D* 1-*' ,)*' 0*6,)' 1 ')*-1-6. ' 620' >1 2> 0*.' 8 ,)',)*' , ?*' 1 ' ,) .' 0*>-**' 1 ' *2-1/?*2,' 620' 1 ' ,)*' D -,)' 1 ')- .,% ()*' 16,)' 8) >)' B1.*=) ; .' ?*2, 12.' 81 ;/0' D*' 60? 2 .^ ,*-*0' 6,' ,)*' .6?*' , ?*' 6>>1-0 25',1' ,)*' ; .65*' 1 ',)*' 1?62' >*2. ;.' 2' 8) >)' 6'-*, ;-2' 1 '=*-.12.' 65*.' 620' =-1=*-, *.' 86.' -*_; -*0',1' D*' ?60*' ;=12' 16,)' ; 20*-' =*26/, ' 1 '>12 .>6, 12' 1 '5110. ' 6.' 8*' /*6-2' -1 ?' $/C =/62% ()6,' -*2 ; .' 6' 1?62' .*26,1-' 620' =-1>; -6^ ,1-' 86.' *?=/1 *0',1' ?69*' ,) .' *2-1/?*2, ' 8*' /*6-2' 21,' 12/ ' -1?' ;9*' D ; ,' D ' ,)*'A1 2, ',*., ?12 ' 1 'B ; .^ , 2' <6-, -' B ; / 62' ,)*' =1.,6,*' 620' ; .*D ; .T 620' ,' 86.' ?60*' 8) /*' 6, ; -2 2 ; .' 86.' =-*. 0*2,' 1 ' - 6' M,1' 8)1?' ,' 86.' 6,,- D ; ,*0' D ' (*-, ; // 62X' 2' ,)*',) -^ , C,) -0' *6-' 1 ' : *-10 .' -* 52' >1--*.=120 25',1' ,)*' 06,*' 1 ')- ., .' D -,)% -*2 ; .' 8)1' .' 0*.>- D*0' D ' (6> ,; .' 6.' '62' 6>, +*' .1/0 *-' 620' - 5 0' >1?= .. 12*- J' 86.' 8*// _;6/ *0' 1-' 62' *?=/1 ?*2,' .1' 10 1 ; .' ,1' : *-10' 620') .' . ; DA*>,.' 620' =-1D6D/ ' >6?*',1' *L*>; ,*)*' 0*>-**' 8 ,)' 62' 6-?*0' 1->*% ()*' *2-1/?*2,' 1 ' ,)*' 2)6D ,62, .' *6>)' 2') .' 182' > , J' 8) .' 2' >12^ 1-? , ' 8 ,)' ,)*' 86- '=1/ > ' 1 ' ,)*' 1?62' A ; - .=-; ^ 0*2>*' ,1' =-6+* ,' 2. ; --*>, 12.' 620' ,1' *L=*0 ,*' ,)*' D ; . 2*..T 620' ',) .' =-*>6 ; , 12' 86.' A ; 05*0' =-; 0*2, *+*2' 2' ,6/ ' ? ;>)' ?1-*' ? ; .,' ,')6+*' 6==*6-*0' 2*>^ *..6- ' 2' , ; / D ; /*2, ' =-1+ 2>*.' / 9*' B ; 0.*6' 620' 46/ /**% ,' ,)*' =-*. *2,'A ; >, ; -*')18*+*-.' ,' 6==*6-.' ,)6,',)*' */.; ,' =-1>**0*0' 21' 6-,)*-',)62',)*' -.,' 6>,' 26?*^ / ',)*' *2-1/?*2,' 1 ' =*-.12.' 2' ,)*' 1?62' -*5 ..*-% 1-' : *-10' .*2,') .',-; ., ' ? 2 .,*-' >1/6.' 1 7 6?6.C >; .',1' 1?*' 8)1'D ') .' 600-*.' 620'=-*.*2,. ' 1 ;20' ?*62.',1' ?1// ' 620' ;20*>* +*',)*' *?=*-1-' .1',)6,')1' =-1>**0*0' 21' 6-,)*-' 2' ,)*' 0*. 52' 8) >)')*')60' *2,*-,6 2*O% ()1' >*2. ;.' 86.' >12.>_;*2,/A7 6,' ,) .' , ?*' . ; .=*20*0T D ;,' ,' 86.'6.'>6-- *0' 2,1' * ^ *>,' ;=12' ,)*' 0*=1.6/ 620' D62 .)?*2,' 1 ' ->)*/6; .' 620' ,)*' .*,,/*?*2,' 1 'B ; 06A6' 6.' 6' 1?62' =-1+ 2>*% 2' ,) .' 1>>6. 12' ,)1' ,-; ., ' -*2 ;.' 86.' .*2,' 656 2' 6.' =-*. 0*2,' 1 ' - 6 ' 8 ,)' 62' 6-?*0' 1->*' ,1' >12 .^ >6,*' ,)*' =-1=*-, ' 1 ' ->)*/6; .' 620' ,1' >1?=/*,*' ,)*' >*2. ;.' 1-' ,)*' =; -=1.*.' 1 ' ,6L6, 12% () .' ,6L6, 12' 86.' 6'=1//C,6L' 1 ',81'0-6>)?e' 6')*60' ;=12' ?6/*.' -1?' 1 ;-,**2' 620' *?6/*.' -1?' ,8*/+*' ,1' . L, C +*' *6-.' 1 ' 65* ' *_;6/ ,1' 6D1 ;' ,**2'=*2>*' 1 ' 1 ;-' ?12* % ()' .' 86.' _)1' ,- D ;,*' ?12*A7 ?*2, 12*0' 2' <6,, ' L+ ' K CK % ()*'=6 ?*2,' 1 ' ,' D*>6?*' +*- ' 1D21a 1 ;.' ,1' ,)*' B*8 . ' 620' ,)*' ?=1. , 12' 1 ' ,' 1>>6. 12>% ,)*' 2 .;--*>, 12' ;20*-' B206.' 1 ' 46/ /**' 8) >)' ;/C%) ?.*/ '0*.>- D*.' 6.')6+ 25' 1>>;--*0' ' 2',)*' 06 .' ,)*',6L 25J' M >,.' + ' N X% 7 ',) .' .,6,*?*2, ' >1227 ' 8.' ,)*' ./ 5),' *?*206, 12' 1',)*',*L,' 6/-*60 ' 0>6,*0' : 6/*.' >12. 0*-.',)6,' ,)*' +625*/ .,' ' >6// ' -*>12> /*0' 8 ,)',)*' +6- 25' 6>>1;2,.' =) ; .'B ; ., 2' <6-, -' 620' (*-,; // 62T 620' 6>,1- / '.1/+*0' 8) >)')6.' 1%J' (/ .' .' =*-)6 A' A.' ;201;D,*Z ' 12*' 1 ' ,)*' " 1' ' ,02*.% @@@@@@@@ @@@=D*//' 12' ;9. 7 > %X % ' ,,1 'Q% % ( )*' =-*>*0 25' *L=/626, 12.' 6//' -*20*-' % 8' -., J' 6.' 62' 'D ; ,' ,' .' >/*6-/ ' 21,' . ; .>*: D/*' 1 ' .;>)' 6' >12. ,-;>, 12' D* 25' 62' * ' -*5 ; /6-/ ' _;6/ 25' -- % % ' *+ 0*2,/ ' 1-' ,)*' =; -=1.*' 1 ' 0 ., 25 ; .) 25' ,)*' =-*.*2,' ,6L 25J' -1?' 6' .; D. C _;*2,' 12*' ;20*-' ,)*' .6?*' 6 ; ,)1-, ' 26?*/ ' ,),6,' ?*2, 12*0' 2' ,)*' >,.% ()*' 8- ,*-' 1 ' 62' *6D1-6,*' 6-, >/*' 2' ,)*' D ' '$ ' ' M >,1D*- Q X 20**0' ; -5*.' ,)6,' ;9*' 1 ; 5),' ,1')6+*' .6 0' ' % 1% ' ' - % --8' 620' 600 ; >*.' ?62 ' > ,6, 12H' ,1' .)18',)*' 60+*-D 6/ 1->*' 1 ' - !- ,1 7) ; ',)*.*' 6-*' 2^ 6==-1=- 6,*' 1-',)*' ' 1 ; /0' -6,)*-'-*_; -*',)*' -*20*-^ 25' ,) .' C86.',)*' -.',69 25',)6,',119' =/6>* J' *,O% ' 6' .*2.*' *_;6// ' 0 >; /,T 620' ;91 ' 0*. 52' 01*.' 21,' 6==*6-' ,1' D*' ,1' >12,-6.,' .1' .,-125/A' ,)*' ,81',6L 25. ' . 2>*' ,)* ' 8*-*' 2' 6' ?*6. ; -*' 12*' ,) . ',)*' D*5 22 25' ,)*' 1,)*-',)*' >1?=/*, 12% & *' 6-*' 0 .=1.*0' ,)*-* 1-*' ,1' 601=,' 6' ?10 >6, 12' 1 ',) ./'/6.,'=-*>*0 25' *L=/626^ , 12' 620' 20' ,)*' 0 ., 2>, 12' D*, 8**2' ,)*.*' ,81' 06,*.' 2' ,)*' +*-D' - '-*20*- 25',' * *>,*0J' 1-' 9 % ',)1' *2-1/?*2,')6+ 25' 12/ ' D**2' ' 2' ,)*' =-*.*2,'>6.*% () .' < // >1?D 2** 6// ,)*') .,1- >6/ 21^ ,)*' 5-*6,*-' =-1=- *, ' 2' ,) .' .1/;, 12' 26. ?;>)' 6.' ;9*') ?.*/ '21,' 12/ ' */.*8)*-*' 6// ;0*.' ,1' ,)*' /6,*-' *2 1->*?*2,' 1 ',)*' ,6LC-1//' 2' _;*., 12' D ;,' 2' ,) .' +*- ' =6..65*' ;20*,'0 .>;.. 12')*' >/*6-/ ' ?=/*.' ,' D ' ,)*' +.1' = ' S% -8 ' T ',)*' -*20*- 25' 1 ' <) >' 6.' 6 -' 60+*-D' M -.,'1>>;--*0JX' ?69*.' ,)*' < 1-0' ,.*/ '> ,)*-' 36/,15*,)*-' 2 ; 56,1-A' 1-' =1. , +*/ ' 26==1. ,*' . 2>*' 21' /6,*-' >*2. ;.' 1 ',)*' 9 20' .' -*>1-0*0',)62',)6,' -* *--*0' ,1' 2',)*' >*2. ;.' 1 ',)*' 9 20' .' -*>1-0*0',)62',)6,' -* *--*0' -*6.12' 6.. 52*0' 1-' 600 25',) .' 0 ., 2>, +*',*-? ' *L^ >*=',1',)-18' 5-*6,*-' .,-*.' ;=12' + = ' 8) >)' 1,)*-C' <;.* 81;/0' 21,' 26,;-6// ' D*6-' .1' .,-125' 6' .*2.** 6.',)*' * ';20*-',)*' 0 -*>, 12' 1 '# ; - 2 ;.' 1 ' 8)6,')60' 6/-*60 ' D**2' 26;5;-6,*0' M8=72TX' ;20*-' 0 *-*2,' 6;.=>*.' M.**' / 1-0' ? !' - ' 2' /1>%B ' ()*' =6-*20' 0' *' P >,C1' 2C' >-,C' 'B1.*CC') .,1- >6/' \/ ,)*-,1' .*,' .6 25',11' ' 12*' 1 ' ,)*' " 1' '

: # & EDJ :



- 6>; . ' .6 0' ,1')6+*' D**2' =1=*' 620 ' 6>>1-0 25' ,1' 1? .)' ,-60 , 12 ' ,1')6+* ' 1-',) *' .69** 1 ' ,'$-. ; /6 620')*-' ' ?6 0*2. ' 1-.69*2',)*' =6=6/ .**' ,1' .; ^ *-' ?6-, -01?' 8 ,)' ,)*?' 6,' 1/152** M ;7Q,)X' : .' *L .,*2>*' .' =-1D6D/ '6.' ? ,) >6/620' >, , 1; .' 6.',) 6,' 1',)*' '+ -5 2.' ( )*>) ;->)' 620' >1//*5*' 1 ',' A7- 6> M 1-?*-/ ' ,' 12A . X' 6,' *;)6; .*2' 2*6-' & 1-?. ' >/6 ?.' ,1')6+*' =1..*.*0') .' -*/ >.' . 2>*' ,)*' D*5 22 25'1 ',)*' R,)' >*2,;- %

- 6>; . ' =6,- 6->)' 1 ' 12.,62, 21=/*' 6,' ,)*' *20' 1 ',)*' ,)' >*2,; - ' 1' .;>>*..1-' 1 'D 3+ 'D1 '6 ^ ,*-' R ',119 '/ 9*') .' =-*0*>*..1-',)*' , /*' 1 ' >%-10-1C --,( )) ' 8) >)')*' >6; .*0',1' D*' >12 -?*0' D ' 6'>1;2> /% ( )*' 1? .)' D .)1=' 4-*51- ',)*' 4-*6,' 1=^ =1.*0') ?' 6,' -.,' 8 ,)1;,' .;>>*..' D;,' D ' 5 + 25') . .;==1-,',1' ,)*' ;.;-=*-')1>6.')*' 26// ' 56 2*0') . *20' 620' - 6>; .')60',1' -*21;2>*') .' , /*% : *' . .6 0',1')6+*' 0 *0' 1 '5- * ' 2' S % ' : *-[15 ' + % ' 'KK %

- /' ! g' M ;=,ddl5X' '& '86.' D1-2' 2' /*L620- 6' ,186-0.' ,)*' *20' 1 ',)*' ,)' >*2,;- ' 620' 86.' *0;>6,*0' ;20*-') .' ;2>/*' ( )*1=) /;.' D .)1=' 1 ' ,)6,' =/6>*% ( )*1=) /;.' 0 *0' 2' K' 620' - /' 86.' */*>,*0'=6,- 6->)'1 ' /*L620- 6% 2*' 1 ') .' -.,'.,*=. ' 6>>1-0 25',1' 1>-6,*.' 86.',1'=/;20*-' 620' .);,';=',)*' >);->)*.' 1 ',)*' > , '620' ?60*') ?')*2>* 1-.)',)*' ?=/6^ >6D/*' 1==12*2,' 1 ',)*' D .)1=% 2' 6.,6>9' 86.' ?60*' 12',)*' 51+*-21-' 2') .' >)6- 1,'D '6'D620'1 ' '?129.! 620' 12*' 8)1' .*+*-*/ ' 81;20*0') ?')6+ 25' .; *-*0' 0*6,)' 12',)*' -6>9 - /' 2') .' >);->) '=-121;2>*0' 6' *;/15 ' 1+*-') .' D10 ' 6.',)6,' 1 ' 6' ?6-,A(' M 1>-6,*. N% + ' >% N X% : *' .' 6/.1' >)6-5*0' 8 ,)' ,)*' ?;-0*-' 1( ) .' +0 , 12' .' 1//18*0' D ' < 52*' 2') .' ! ' : =6, 6',)*' >*/*D-6,*0' 06;5),*-'1 ',)*' ?6,)*?6, > 62' (/ *12' D;') .' .)6-*' 2',) .' 6,-D*' , 86.' 12/ ' 20 ^ -*>,% **' % # / ! ()*' , /*.' 1 ',' ' ' ' 9 '620' " % ' '" 'N ')6+*' D**2' 5 +*2' ,1' - /' 12' 6>>1;2,'1 ') .' + 1/*2,'0 .=:,*' 8 ,)' *.,1C - ; .% ' ()*' >120*?26, 12' 620' 0*=1. , 12' 1 ' *.,1- ;.')6+ 25' D**2' 0*>-**0' D ' 1=*' */>., 2*' - /' 86.' 6=^ =1 2,*0',1' *L*>;,*',)*' .*2,*2>*' 1-' 8) >)')*=-*. 0*0' 6,'6'>1;2> /' 1 '. L, 'D .)1=.' 6,' =)*.;.% B1)2' =6,- ^ 6->)' 1 ' 2, 1>)')6+ 25' 6' *8' 06 .' 6 ,*-86-0.')*/0' 6' >1;2> /' 1 ' 1-, C12** D .)1=.' 8)1' .;==1-,*0' *.,1- ;.' 620' *L>1? ? ;2 >6,*0' - /' ,)*' ,81' =6-, *.' 6==*6/*0' ,1' ,)*' *?=*-1-' ()*101. ;.' 8)1' 1-,)8 ,)' >1? ? ,,*0' D1,)' - /' 620' *.,1- ;.' ,1'=- .12' 8)*-*',)*' '-*?6 2^ *0' 1-' .1?*' , ?*' ;20*-' - 51-1;.',-*6,?*2,% - /' D ' ,)*' 2 /;*2>*' 1 ' */*., 2*' 86.' 6,'/*25,)' / D*-6,*0' 620' -*.,1-*0' M N X',1',)*' .**' 1 ' /*L620- 6' 8) >)')*' -*,6 2^ *0' ;2, /') .' 0*6,) ' 8) >)' 1>>;--*0' 2' J' I6 ' 9 %f .$+%X% **' * $ f A7 / .' 01>,- 26/' 8 - ,^ 25.' 6-*' *D * A' 12' ,1=>.' >122*>,*0' 8 ,)',)*' >12,-1^ +*-. *.' 12',)*' (-2 , ' ()*' 1//18 25' 6-*' .1?*' 1 ',)*' =- 2> =6/',-*6, .*.'d -" ' ' 2,*20*0' 6.' 6'>1?=/*,*'-* ;,6, 12' 1 ' -62 .?' 2' ' " ' ' 2' @ ' ; " ' '7 ' 620' 2' W2' 6?=/*' ' '$!'D " ' ? % ' ,)*' .6?* .;D A*>,' .' >12, 2;*0% (*2' D119.' 'D ' >12^ ,6 2' -*=/*.' ,1' ,)6,' *?=*-1-.' ,)-*** D119.' 656 2.',)* 3 41.=*/.' 8) >)' ' -/.' _;1,6, 12.' 6-*' 6,) ;/' 8*-* 6.' 8*69' 620' 6D.;-0' 6.',)*' 62.8*-.% *+*2,**2' D119.' 7' ' " %' '$% ' '- "' .)18',)6,' 6//',)*' <1C '.6 >6/ 2.,,;, 12.' 8*-*' 62' 6//*51-E!' 1 ',)*' 41.=*/' 6' =-11 J' .6 .' -% 06?' /6-9*')18' >-=,;-*' ?6 ' D*' ,1-,;-*0',1' .6 '6?V,) 25%J' ()-,**2' D119.' 12',)* "' ' " ' %" ' 6-*' 8-.,*2' 8 ,)' 6' . ? /6-' + *8' ()-, '=6.>)6/ # ' 6221;2>*' =.' >;.C ,1?6-A' 6,' /*L620- 6',)*' ,?*' 1 ' 6.,*-% L, C12*' 6% '2*6-/ '6//-*/6,*',1',)*' *.,1- 62' >12,-1+*-. % -/.' $ ' >12,6 2.',8*/+*' .1/*?2' >;-.*.' 65= 2.,' *.,1- ;.' 8)1' 6.' .1/*?2/ '-*=/*0' 8 ,)',8*/+*' >;-.*.' 656 2.,' -/% : .' 8-, 25.' 6D1;20' 2' ,;-5 0 =-6 .*.' 1 ' <6-7 ',)1;5)')*' 0 0' 21,')1/0')*-',1')*' 8 ,)^ 1;,' . 2% ()*') ,.1- ' 1 '212** 6?125',)*')-., 62' 6,)*-.' .' ?1-*' 0 .5-6>* ;/,1',)*')-., 62' >)6>,*-' ,)62',)6,'1 ' ,% -/1 ' /*L620- 6 ' 6' ?62' ??10*-^ 6,*/ '6?D, 1;.'+ 1/*2,'620')*60.,-125' 6'D-**0*-'1 ' 0 .,;-D62>*.')6;5),E ' ?=*-1;.' 620' 6.' ;2 ,' 1-' 6' D.)1=' 6.'6' + 1/*2,' D 51,*0' ;2.9 / ;/,)*1/15 62' >1;/0' =1.. D/ 'D* ' D;,'-*.1/+*0',)6,' ',)*' ?**9' 2)*-,',)*' *6-,)',)*' + 1/*2,',)1;/0')6+*' =1..*.. 12' 1',)*' .**.J M /6-9*'$ ' $ ' ' N X% ' ;,' ,)*' 6;/,.' 1 ') .' =*-.126/' >)6-6>,*-' .)1;/0' 21,' D/ 20' ;.',1',)*' ?*-,.' 1 ' -/%6.' 6',)*1/15 62% :*' 86.' 6' ?62' 1 '+ 51-1;.' 620' 6>;,*' ? 20 '620' *L,*2. +*'/*6-2^ 25' 620' .'>/*6-/ ',1' D*'-*>912*0' 6?125',)*' ?1.,' ?^ =1-,62,' 015?6, >' 620' =1/*?>' 0 + 2*.' 1 ',)*' 4-*9');->)% ') .'>12,*?=1-6-*.' ()*101-*,'6/12*' 86.') .' ;=*-1-% :*' 86.',)*' /6.,'>12. 0*-6D/*' -*=-*.*2,^ 6, +*' 1 ',)*' /*L620- 62',)*1/15 ' 620' ,)*' /*L62^ 0- 62');->)' 8) >)')18*+*-' 86.'6/-*60 ' D*5 22 25' ,1' 0*5*2*-6,*' 620' ., *2?' 620',);.')*' 1 .*,.' ()*101^ -*,' 8)1' .',)*' ?1.,'/*6-2*0' -*=-*.*2,6, +*'= ',)*' 2^ , 1>) 62' .>)11/% :*' 6 ?*0',1' D*',)*' .6?*' ,1',)*' 01>^ ,- 2*' 1 ',)*' 2>6-26, 12' 620',)*' =*-.12' 1 ')- .',),)6,') .' =;-*-' 620' 5-*6,*-' =-*0*>*..1-' 2',)*' .**' 1 ' /*L^ 620- 6')60' D**2',1',)*' 01>,- 2*' 1 ',)*' (- 2 , ' 6' >62' ;,-A' D* 1-*% ;')*' 1+*-..-6 2*0',)*' .;=-626,;-6/ .?' 620' ? .,> .?' 1',)*' /*L620- 62',)*1/15 '620' 2') .' [*6/ 1-',)*' -*6/ , '1 ',)*' 2>6-26, 12' 620',)*' ;2 , ' 1 ',)*' =*-.12' 1 ')- .',)*' 8*2,',1',)*' D- 29' 1 ',)*' <121=) . ,*' *--1-' *+*2' .;.,6 2 25') ?.*/' D ' ,)*' 81-0.' ' ,)626. ;.',)1;5)'21,'D ') .' .= - ,' D*>6;.*' ,)*' >*2*' 65*')60' 21,' *,' L*0' D* 120' 6// 2,*-^ >)625*' ,)*' ,)*1/15 >6/ 0 ., 2>, 12' D*,8**2' '620' ?- P' M >)6 ' 8-> '# 'g X% ()*' D*.,' ' 86.'-*C*0 ,*0' 2' 6, 2' D ' % ' ' - / 2' 4-* 9' 620' 6, 2' M 6-.' SNQX' .' ,)6,' 1 ' ;/*-,' M ' +1/.% 1/%X% %1 ' M L+ C LL+ X% : .' , ! ' ' 6 = ' 86.'-*C*0 ,*0' 2' 6, 2' D ' % ' ? ,)' M L 1-0' Q QX' 620' 2' 62' 25/ .)' +*-. 12' D ' ,)*' .6?*' 8 ,)' 21,*.' M L % Q RX% **' /6-9*' % ;>6..,12' Z 6% ! ' N T 6+*' # ! ' ! 221' KT (//*?12, ' ' L + ' K KT ;,/*-' ' '$ ' B62% KQ.' >620>-' " "' # ' ' NC RQT' 6-02*-' + ' +1 ' +T' 1-2*-' ' ' " ' M 0 2D% ,-62.%X' 0 +% ' +1/% % - /' ! g' I) %O) 8' 'D ' .' .;==1.*0' ,1')6+*' D**2' D1-2' 2',)6,' > , '6D17,' % % N % : *' 86.' 1-06 2*0' 0*6>12' D ' <6>6-;.' 6D1;,' NN ' 620' =-*.,' D ',)*' =6,-6->)' <6L ?;.' 6D1;,' Q % 2',)*' 0*6,)' 1 ' <6L ?;. ' - /' 86.' >)1.*2',1' .;>>**0')?' % % N X% ' /;?21;.' 6==*6-62>*' 2',)*')*6+*2.' >6//*0',)*' ==6-, 12' 1 ',)*' -1.. J' .' .6 0',1')6+*' ?6-9*0',)*' D*5 22 25'1 ') .' *= .>1=6,*' M 1>-6,*.' # 6 ! ' KQX% : *' .112' D*>6?*' 2+1/+*0' 2' 0 .=;,*.' ! ' 8 ,)',)*' - 62' >6> 2.'D .)1=' 1 ' .*.6-*6' 8)1' >1?^ ?*2>*0' 6' =*-.*>;., 12' 656 2.,/ ?' 8) >)',*-? 26,*0' 2') .' 0*=1. , 12' D '6'>1;2> /' 2' % : *' 86.' -*.,1-*0' ,1') .' .** 'D;,'86.' 0*=1.*0' 6' .*>120' , ?*' D ',)*' - 62' 1;2> /' 1 ' 12.,62, 21=/*' 2' N % 2',)*' 6>>*.. 12' 1 'B;/ 62 ' - /' -*,;-2*0',1') .' D .)1=- >' D;,' 86.' *L^ =*//*0' 6',) -0',?*' M% % % NS X% 26// ';20*-' ()*1^ 01. ;.%)*' 86.'-*.,1-*0' D ',)*' 1;2> /' 1 ' 12.,62, 21^ =/*' 2' NQ '620' 0 *0' >/*6-*0' 1 '6//*>)6-5*.' 656 2.,') .' 1-,)101L ' <6 'NQS% 2' 2> 0*2,' 21, >*0' D ' 6//' ,)*' D 15-6=)*-.' 1 ' ,% - /' .',)*' >*/*D-6,*0' 6,,*?=,' 620' 6/;-*' 1 ',)*' *?=*-1-' B;/ 62',1' -*D; /0',)*',*-2C' =*' 1',)*' B*8.' 6,' B*-;.6/*?' 1..*2. D/ ' 1-',)*' =;-^ =1.*' 1 ' =-1?1, 25',)*' -' -*/ 5 12' D;,' -*6//E' 8 ,)',)*' . 2.,*-'+ *8' 1 ' 6/. 25',)*' =-1=)*>*.' -*.=*>, 25',,' --*=6-6D/*' 0*.,-;>, 12J' M.**' 4-*51- ' 6[62% ,' ' D '/ ()*101-*,' 1->6,*.') /1.,1-5;.' 1C [1?*2' 620' D .)1=' & 6-D;-,12 .' ..*-,6, 12' 12',)*' .;DA*>,'=% QQX%

()*' *L,62,' 8-, 25.' 1 ',% -/ 6-*' 2',)*' 4-**9' /625;65*' 620' >12. .,' 1 ' * 5),**2' D119.' 1 ' + ' 1-' .*-?12.' 0*/ +*-*0' 0;-25' *2',1',)*' >6,*>);?*2.' M>6//*0' D* 1-*' D6=, .?' 8! +*' . ? /6-' 0 .C

>/ ;->)>.' 1 ' 1/620' 620' ,) ; 62 6' 8 ,)' 1?1 ' .*-') .' -*,;-2' ,1') .' 26, +*' /620 ')*' 86.' .112' =-1?1,*0' D ' ,)*' =6,- 6->)' 1 ' /*L620- 6' ,1' ,) *' 0 52 , ' 1 '62' 6->) ?620- ,*% 2' S K' - /' .;>>**0*0' < */*, ; .' 6.' =6,- 6->)' 1 ' /*L620- 6% f) /*')1/0 25',) .'=1. , 12')*' >6-- *0' 12' 62' 6>, +*' >1--*.=120*2>*' 8 ,)' 6+ 0' /*' *2% 0*' /*/?' 620' ,)*' *?12.,-62,' $,*2D156*-,' 71 ' : 1//620' DD1, ' 6->)D .)1=' 1 ' 62,*-D ; - ' *5*-' =-1 *..1-' 1 ' 4*2*+6 ' ,)*' -*=; D/ >' 1 ' *2 >*' ,)*' 8*0^ .)' >25' 4 ; .,6+ ; .' 01/=) ; . ' 620') .' >)62>*//1-' L*/' L*2., *,26 ' < 62 ' 1 ' ,)*.*' /%*,,*-. ' 8 - .,.*2' 2' 0 *.^ *2,'/625 ; 65*. ' 6-*' ., //' *L,62,% ( )* ' .)18',) 6,' - /' 86.' 62' *6-2*.,'1==12*2,' 1 ' 1?*' 620' 6' 5-*6,'60? .-*-' 1 ' ,)*' -1,*.,62,' * 1-?6, 12% : *' .*2,' 1-' 6//' ,)*' ?=1-,62,' 81-9. ' -1,*.,62,' 620' 1?62' 6,)1/>' =; D/ .)*0' 2' ,)*' & *.,*-2' >1 ; 2,- *. ' 620' .*2,' .*+*-6/' 1 ; 25' ?*2' ,1' 25/620' ,1 5*,' 6' ,)1-1 ; 5)' ,)*1/15 >6/ *0 ; >6, 12% ( )*' - *20.' 1 ' - /' 2' 12.,62, 21=/*' 620' 6?125' ,)*?' ,)*' 25/ .) ' ; ,>) ' 620' 8*0 .)' 6?D6..601-.' *20*6+1-*0',1' */*+6,*' - /',1',)I*=6,- ^ 6->)6/ .*>' 1 ' 12.,62, 21=/*% ( )* ' 81 ; /0')6+*' .;>^ >**0*0' 2' 4 N' 6 ,*-',)*' D62 .) ?*2,' 1 ',)*' =6,- 6->)' (?1,)*; . ' D ; ,' 1-',)*' ; 28 // 252*..' 1 ' - /',1' =6 ' ,)*' 6?1 ; 2,' 0*?620*0' D ',)*' (; -9 .)' 51+*-2?*2,%' ,*-',)*' 0*6,)' 1 ' (?1,)*; .' 2' SK ')*' 8) .' */*>,*0') .' .; >>*..1-' D ')' ; 262 ?1 ; .' +1,*' 1 ',)*' . 210% : .' / *' 6.'=6,- 6->)' 86.' ; //' 1 '+ > .. , ; 0*.% ( )*' B*. ; ,. ' 2' ; 2 12' 8 ,)',)*' 65*2,.' 1 ' -62>*' .*+*-6/' , ?*.' =-1^ >; -*0') .' D62 .) ?*2, ' 8) /*') .' - *20. ' . ; ==1-,*0' D ' ,)*' 6?D6..601-.' 1 ',)*' -1,*.,62,' =18*-.' 2' 12.,62^ , 21=/*' 1D,6 2*0' D ' ?*62.' 1 '/6-5*' .; ?.' 1 ' ?12* ') .' -*>6//% ; - 25' 6/' ,)*.*' ,-1 ; D/*. ' 5 ?' 8 ,)' -*^ ?6-96D/*' *2*-5 ' =; -. ; *0' ,)*' 5-*6,',6.9' 1 ') .' / *% 2' SK ')*' 1D,6 2*0' 6' =- 2, 25C=-*..' -1?' 25/620 ' 620' 6,' 12>*' D*562',1' =- 2,') .' 12 *.. 12' 1 ' 6 ,/' 620' .*+*-6/' >6,*>) . ?.% ; ,' D* 1-*',)*.*' 01>; ?*2,.' 8*-*'-*60 ' 1-'=; D/ >6, 12 ',)*' =- 2, 25' *..6D/ .) ?*2,' 86.' 0*.,-1 *0' D ',)*' (; -9 .)' 51+*-2?*2,' 6,' ,)*' 2^ ., 56, 12' 1 ',)*' B*.; ,.% - /',)*2' .*2,') .' 12 *.^ . 12' 1 ' 6 ,)',1' 4*2*+6 ' 8)*-*' ,' 6==*6-*0 ' 2' SKR ' 2' ,)*' 6, 2' /625 ; 65*' ; 20*-' ,)*' ,-; *' 26?*' 1 ',)*' 6 ; ,)1-' 620' 8 ,)' 6' 0*0 >6, 12',1' 1-2*/ ; .' 0*' : 656% ,' >-*6,'0',)-1 ; 5)1 ; ,' ; -1=*' 6' =-1 1 ; 20' .*2.6, 12' 620' ?62 ' 8*-*' 2>/ 2*0',1'-*56-0' ,'6.' .=; - 1 ; .% ^ - /')18*+*-' =*2/ '>12 *..*0',)*'6 ; ,)1-.) =';D/ .)*0' 2' SNN 6' 4-**9' *0 , 12' 1 ',)*' 12 *.. 12' 620' 2' SN ' 2' 6' /*,,*-' ,1' ,)*' =-1 *..1-.' 1 ' 4*2*+6 ' 0*>/6-*0') .' >12>; --*2>*' 2' ,7*' =- 2> =6/ 01>,- 2*.' 1 ',)*' * 1-?*0') ; ->) % <6?I7 1==12*2,. ')18*+*-' 218' -1.*' 656 2.,') ?' 2' ,)*' 4-**9') ;->DZ' 620' 2' SQQ 6' . 210' >12^ +*2*0' 6,' 12.,62, 21=/*',1',-E') ?% ; ,' D* 1-*' .*2^ ,*2>*' 86.' =-121 ; 2>*0 ',)*' B62 ..6- *.' 6--*.,*0') ?' D ' 1-0*-' 1 ',)*' 51+*-2?*2,' >6-- *0') ?',1' 6' D16, ' .,-62^ 5/*0') ?' 620' >6.,' ,)*' >1-=.*' 2,1' ,)*' .*6% 1?*' - *20.' 1 ; 20' ,)*' >1-=.*' 620' D ; - *0' ,' ; =12' 62' ./620' 620',*2' *6-.' /6,*-' 6' .1/*?2' ; 2*-6/' 86.') */0' 6,' 12^ .,62, 21=/*% *+*-6/' . 210.' >120*?2*0' ,)*' 221+ 6C , 12.' 6,,*?=,*0' D ' A(/' D ; ,' ,)*' 12 *.. 12' 1 ' 6 ,)' 86.' 5*2*-6// ' ,-*6,*0' D ' ,)*?' 6.' .=; - 1 ; .% ( )*' 12 *.. 12' 1 ' 5 [' ; .*.' 1 ' ,)*' =-1>*.. 12' 1 ' 7,)*' : 1/ ' = - ,' ,)*' >1?=-1? . 25' 1-?; /6' , ' - % '$ ' 'I '% '% 'D2 8!' ,', *6>)*.' 6D.1^ /; ,*' =-*0*., 26, 12' 0*2 *.' ?1-6/' -**01?' =- 1-' ,1' -*^ 5*2*-6, 12' 0*>/6-*.' .,-125/ '656 2.',)*' - 5),.' >/6 ?^ *0' D ' ,)*' =1=*.' 620' 6>9218/*05*.' 12/ ' ,81' .6>-6^ ?*2,. ' D6=, . ?' 620',)*' 1-0 .' ; ==*-% ,'-*>1?*?*20.' ,)*' -*60 25' 1 ',)*' D/*' 0 ., 25; .)*.' ,)*' >6212 >6/ -1?',)*' 0>; ,*-1C>6212 >6/ D119. ' 620' -*A*>,.' ,)*' +*2^ *-6, 12' 1 ' ?65 + ' ,')6.' D**2' =; D/ .)*0' D ' -6?*/ 2') .' ' " ! (! ?I ; ;! ' ()1?% ? ,)' 1%C ' ' ' M *20% XT 1)2.,*0,' 9 ' ' M : 6//*' K XT : *-[15' 5 6 1' : 1=% + ' NQT >)/*-' ? " " ' ' @ ' ' ' , * " + ') + 1' *,>%M < ; 2 >)' QSK' +1XT ,62/* ' 6 ' " ":' 5 1' + ' N KT < ; -01>) .' <1.)* = ' " "' # ' ' Q ' 21,*' ' M % % Q X%

-; .' M : *D-6 [*0') "1' \,8 >* [-6' ' ' /6,%>/6 ; .*' Kh' K')-12% LLL+ ' KK' KNT' [-6' ' ' ' QT' ' T' + ' N' T' .6% L/ + ' KQT' L/+ ' T' 62% ' K T' d ' T')6/0% 0% [-6' + ' N' T' + ' N T' 62% + ' KQ A' 4-**9' +=1>' 6.' 2' ' .0-% ' NT' + ' % T' ' ' NT' + ' ' K T' 1-' ,)*' 1/0' *-. >'))' .; ==1.*0' D ' ,)*' 4-**9.' ,1' ?*62' ,)*' ' \ ,*. 6.' ' 6 ' RT' /; ,6->)' & !' h' D ; ,' -6,)*-' >12^ 2*>,*0' 8 ,)' ,)*' 62.>- ,') 2' 1 ' ; 2921822' . 52 %' 68/ 2.12' # ' ' X%1- 5 26// ' >6//*0' &' 9 ' M =670-A >' ,-6D1' L+ ' KRT' .** 1.*2?; //*-' &2' "! ' 'NS X' ,)*'>*/*D-6,*0' *-. 62'9 25'M H' (AHHX 620' >12_; *-1-' 1 ' 6D /12' 8)1' =-1?; /56,*0' ,)*' / -.' *0 >,' 1-' ,)*' -*.,1-6, 12' 1 ',)*' B*8.' ,1',)*' -' 182' /620' M [-6' ' *,>%X% 2' >12.*_; *2>*' 1 '6' 0-*6?' ., C' 65*.' ,' .'.6 0' 0*. 52*0',)*' 0*6,)' 1 ') .' 2 62,' 5-620C

+"' ' ' ' "

?D1/ >6/ 5 ; -*' 1 '- -, ' M -1?' /F* *-.*=1/ ,62' <12; ^ ?*2,.X' 620') .' 6?*' 2' >; 2<' 1-?')6-6>,*-.% 3

.12' D ; ' ,)*' >) /0' 86.' .=6-*0' D ' ,)1.*' 8)1?')*' >)6-5*0' 8 ,)' ,)*' >1?? .. 12' 1 ',)*' >- ?*' M : *-10' ' R' ._%X' 620' -; .' 5-*8' ; =' 2' 1D.>; - , ' ; 20*-' ,/7*' 26?*' 1 ' 5-606,*.' M ,-6D% L+ ' IKR% : .' -*6/' =6-*2^ ,65*' 86.' 0 .>1+*-*0' D ',)*' ?=*- 1; .' .= - ,' 8) >)')*' 0 .=/6 *0' 8) /*' *,' 6' D1 ' M : *-10% X' 620' 8)*27')*' 5-*8' ; =' ,1' ?62)110') .' >1; -65*' 620' 5*2 ; .' =/6>*0')?' 6,') *')*60' 1 ',)*' *-. 62.% ( )*' , -622 ' 1 ' .C , 65*.')60' 6,' ,)6,' , ?*' 6/ *26,*0' 6' /6-5*' 6>, 12' 1 ' ,)*' <*0*.' 620' -; .')*60*0' 6' -*+1/,' 8) >)' *20*0' 2' ,)*' 0* *6,' 620' >6=, ; -*' 1 ',)*' <*0 62' 9 25' % % R' 2*6-' 6.6-560.*' M218' < ; -5)C ; DX' M ,-6D1' L ' N X% ,*-' >12.1/ 06, 25',)*' *?=-*' 8) >)') *',) ; .' 56 2*0' -; .' *2,*-*0' 12' ,)6,' >6-**-' 1 ' >12_; *.,' 8) >)')6.' ?60*') ?',)*')*-1' 1 ',)*' 6.,% 2' % % S' MHX')*' 0*6,*0' -*1.; .' 620' ,)*' 9 2501?' 1 ' 0 6' 86.' ,)*' =- [*1 ') .' .; >>*..% &) /*') .' 5*2*-6/' : 6-=65 ; .' 86.' *2565*0' 2' >1?=/*, 25',)*' -*0 ; >, 12' 1 ' . 6' < 21-' -; ' , ; -2*0') .' 6-?.' 656 2.',)*' 6D /12 62.% 6DC E012' *// D* 1-*') .' 6-? ' 620',)*' 62> *2,' 01?2 12.' 1 ' .. - 6' 8*-*' 600*0',1') .' *?= -*' M % % NQX% ( )*' >12_; *.,' 1 ' 6D /12' 1=*2*0',)*' 86 ' 1-' 5-*6,*-' 0*^ . 52.% ,' .' =-1D6D/*',)6,' -; .' =/622*0' 62' 2+6. 12' 1 ' 5 =,' 620',)*-*' 6-*',-6>*.' 1 '>6?=6 52.' 2' *2^ ,-6/ . 6 ' 2' 8) >)')*' 6==*6-.' ,1')6+*' 6,,*?=,*0',1' *L,*20') .' =18*-',1',)*' 20; .' M ,*. 6.' f 1% ' ._%X% ,*-86-0.' D*' 6,,6>9*0',)*' <6..65*,7' 620' 6>>1-0^ 25',1' : *-101, ; .' M ' K ' >1?=%B1.*=) ; .' & !' L ' K' X')*' */// 2' 6' D6,,/*' 656 2.',)*?' % % KR' M / 2,12' @ !' # ' ' N ' ._%X% : .',1?D' .' ., //' .)182' 6,

6.6-560. ' M -- 62 ' 6 %1' & ' + ' KRX ' ,) *' .>*2*' 1 ') .' -.,' <*> . +*' + >,1- ' M7 8 / 2 . 1 2 ' # ' ' K NX ' , ' .' ?=1.. D/*',1' 2. ..' ;=12',) *' 0*,6 /.' 1 ',) *' 1 ; ,^ / 2*' ,) ; .' .9*,>) *0% 2' ,) *' , ?*' 1 ' : *-101, ; .' -;.' 86.' 6/-*60 ' -*56-0*0' 6.' ,) *' 26, 126/) *-1' 1 ' *-. 6 %620') .') ..,1- ') 60' -*>* +*0' +6- 1 ; .' =1=; /6-' *? D*/^ / .) ? *2, .' M : *-10 ' ' R T >1?=' ' Q S T d*21=)% %f ' K X ' 2' ,) *' 2*L,' >*2, ; - ' d*21=)12' >)1.*') ?' 6.' ,) *') *-1' 1 ') .' -1?62>*' 220' 6>,' 620' >, 12' D*>6?*' ,) *2>* 1-,) ') 1=*/*../ ' >12 ; .*0' 2' >/6.. >6/ 8 - ,*-. % ; , ' 2' ,) *' 6D.*2>*' 1 '6 ; ,) 2, >' 0*,6 /.' 1 ') .' 6>, 12. ' ,) *' *?= -*' 8) >)') *' /* , ' .' ,) *' D*.,' -*>1-0' 1 ') .' =18*-' 620' =/62. % 9*' 62' - *2,6/ /*L620*-') *' 6 ?*0' 6, ' ; 2 +*-.6/ 01? 2 12T 620' ,) *' 2 /:*2>*' 1 ' *-. 6 ' / 9*' ,) 6, '1 ' 4-**>*' . ; -+ +*0' ,) *0 26., ' -1?' 8) >)' , ' .=-; 25% 2' *+*-A ' 6.=*>, ' ,) *' -* 52' 1 '] $ ' ?6-9.' 62' *=1>) ' 2' ; 2 +*-.6/) ..,1-A % d ( ) *' 6// 1 ' 6-^ 0 .' 620' 6D /12' 86.' ,) *' ..,6-, 25C=1 2, ' 1 ' ; -1=*62' / *T 620' , .' 6' . 25 ; /6-' >1 2> 0*2>*' ,) 6, ' ,) *' D*5 2. ^ 2 25' 1 ' 4-*> 62' 6-, ' 620' =) /1.1=) ' 620' ,) *' 1 ; 206^ , 12' 1 ' ,) *' 1?62' >12., , ; , 12 ' . 2>)-12 [*' 8 , 7' ,) *' ,- ; ?=) ' 1 ' ,) *' - 62' -6>*' 2' ,) *' 6. , ' M *D ;) -' ? "!' & ' =% KNKX J ' M ? ,) ' .% +%X' ( ) *' 1//18 25' =1 2, .' 0*?620' *.=*> 6/ >12. 0*-6, 12' M1 ; -' .,6,*?*2, .' 12' 8) >)' 6-*' >) * / ' 0-682' -1?' ,,1' 620' ? ,) Xa M # 2' ' : *-101, ; .' M ' X 620' d*21=)12' % ' K X' 65-*' ,) 6, ') *' 86.' .12' 1 ' 6?D .*.' =- 2>*' 1 ' *-. 6 ' 620' 1 ' < 62062*' 06 ; 5), *-' 1 ' ., 6C 5*.' 9 25' 1 ' ,) *' < *0 62' *?= -*% 2' 62' .. - 62' 2^ .>- =, 12') *' .' >6//*0' ,) *' .' 12' = ' 6?D .*.' ,) *' =18^ *- ; / 9 25J' M 68/ 2.12 ' ! ' RNX% *. 6.' 0*2 5 .' ,) 6, ' ,) *-*' 86.' 62 ' -*/6, 12.) =' 6, ' 6//' D*, 8**2' -; .' 620' ., 65*.' > !' : ¡ ' KX% >>1-0 25', 1') ? ' 8) *2' -; .') 60' 0* *6, *0' 620' >6=, ; -*0' ., 65*. ') *' % ') ?' 6.' 6-520 6,) *-' 620' 2+*.,*0' -6 , . ' 1-' ? 2C' , . ' ,) *' 06 ; 5), *-' 1 ' ., 65*.' M 8) 1.*' 26 ? *' .' 2' 6// =-1D6D / , ' 12/ ' 621,) *-' 1-?' 1 ' < 62062*X' 8 ,) ' 6// ,) *') 121-'. 1 ' _ ; **2' 01865*-% : .' 1DA*>,' 2' .1' 01 25' 86.' , 1' 6> / , 6, *' ,) *' .; D ? .. 12' 1 ' ,) *' ?1-*' 0 .,62, ' =6-, .' 1 ' ,) *' *?= -*' 8) >)' 8*-*' 21, ' , *, ' >12 _ ; *-*0T 620') *' -*6=*0' *L>*//*2, ' -; .' 1 ') .' =1/ > ' 2' 8 22 25' ,) *') 1?65*' 1 ' ,) *' 62> *2, ' - >) ' 620' -*?1, *' =-1+ 2>*' 1 ' 6>,- 6% ,*. 6.' 600.') , 6, ' $' 6 ,*-86-0.' ?6-^ - *0' ? , .% , ' .' *6. ' , 1' .**' ,) 6, ' ,) *' /6, ,*-%6>>1 ; 2, ' .' D ' 6-' ,) *' ?1-*') .,1- >6/' 620' ,) 6, ' ,) *' .,1-A 1 1/^ /18*0' D ' : *-101, ; .' 620' d*21=)12' .' ,) 6, ' 8) >)' ,) *' >1 ; -, *-.' =; D/ .) *0' 2' 6 0' 1 ' ,) *' *-. 62' =- 2>*.' 0*^ . 52.% *, ' ,) *-*' .' 21' -*6.12' 1-' 01 ; D, 25' ,) 6, ' 12' ,) *' 6,) *-.' .' 0*' 5 $ ' D*/125*0', 1',) *' >)6*?>2 06* I' ,) *' -1 6/ >/62' 1 ' ,) *' ? / , 6- ' , - D*' 1 ' ,) *' *-. 62.% 6-,1- ; . ' ' ! ' ' % ! ' ' ' ' 1' O %" '% ' 4 ' # ! ' ' M ; DD*2' X% ' 0 *-*2, ' + *8' .' , 69*2' 2' ? ,) .' 1 ' ! ' ' ; ! .% +% ** $ ' : ' ' 3! K% # ' 6 ' ' " ' -" ' , ' 86.' ,) *' -*_ ; *2, ' =-6>, >*' 1 ' ,) *' *-. 62' ?126->) . ' 620' =-1D6D/ ' ,) *-*^ 1-*' 1 ' ,) *' < *0*.' D* 1-*' ,) *?' , 1' >) 11.*' ,) *' =-1+ 2^ > 6/ + >*-1 .' -1?' ,) *' -1 6/ 6? / *.' 1 ' ,) *' . ; DA*>, ' 26, 12.' 620' ,) *-*D ' , 1' /*6+*' , 1' ,) *' +62_ ; .) *0' ? ; >) ' D1,) ' 1 ' ,) *' .*?D/62>*' 620' 1 ' ,) *' -*6/ , ' 1 ' -**01?% ( ) .' 8 // D*' . ; > *2, ' , 1' 6>>1 ; 2, ' 1-' ,) *' -. , ' . , *=.' 1 ' -; .' , 186-0.' *? 2*2>*% ; , ' 6.' ,) *' *-. 62' 6-? *.' 8*-*' 6, ' ,) 6, ' , ? *' >1?=1.*0' 1 '-; 0*-' 620' D-6+*-' ?*2' ,) 62',) *' < *0*.' M 20**0' , 1' ,) .' 06 ' ,) *' ?*2' 1 ') ^ -6 [' 6-*' =-1+*-D 6// ' D-6+*-' ,) 62',) 1.*' 1 ' . 6) 62X' ,) *' 6>>1 ; 2, ' 1 ' d*21=)12' .' >-*0 D/*' ,) 6, ' 2' ,) *' 5*2*-^ 6/ ' 86.-' 1 ' ,) *' *?= -*' -; .' 812',) *' 6, , 6>) ?*2, ' 1 ' ,) *' 8) 1/*' 6-? ' D ') .' D-6+*-' 8) /*' 6.' > + / 86-T 2*+*-,) */*..' ,) *' .6?*' 8-, *-' 2') .' & 1' >12 *..*.' , ' M ' ' KX% : *-101, ; .' .*. 6.' .1>-6^ , *.' ,-6D1' 620' 2' 6>, ' 6// 8) 1' 6// ; 0*' , 1' ,) *' ?6, , *-' 6, ' 6// ' 65-*' ,) 6, ' , ' 86.' .1% 2' d*21=)12' MV% >%X' 8> 20' ,) *' $==*-' (5-.' , 1') 6+*' D**2' ,) *' .*6, ' 1 ' 12*' >6?=6 52' 8) *-*' ,) *' > , *.' 1 ' 6- ..6' 620' 9/*.= /6' 8*-*' D*. *5*0' 620' , 69*2' D ' -; .% -1?' , -6D1' 8*' /*6-2' ,) 6, ' ,) *' 0*> . +*' D6, , /*' 86.' 1 ; 5), ' 12' ,) *' .=1, ' 8) *-*' -; .' 6 , *-86-0.' D ; /, ' 6.6-5606*' 2' *-. . ' 1-') .' 26, +*' >6= , 6/% ( ) .' 65-_*.' 8 ,) ' : *-101, ; . ' 6>>1 ; 2, ' 1 ' , 81' 6-? *.' D* 25' . ; >>*.. +*GE' /1.. ' 8) >)' ?6A ' ? *62',) 6, ' ,) *' 86-' 86.' *20*0' 2' , 81' >6?=6 52.% *, ' , *. 6.' -*=-*.*2, .' ., 65*.' 6.' 26// ' >6=, ; -*0' 2' ,) *' =6/6>*' 1 ' >D6, 626T -; .' M.6 .' : *-101, ; .X' 0 0' ., 65*.' 21') 6-? ' D ; ' 9*=, ') ?' D ') .' . 0*' , 1' ,) *' *20' 1 ') .' / *% , *. 6. ') Z7+*+*-' ., 6, *, ' ,) 6, ') *' 86.' -., ?60*' -; /*-' 1 ' ,) *' 6->62 62. ' 620' 6 , *-86-0.' ? ; -^ 0*-*0' D ' 6' *; 2 ; >)' .*2, ' DE' -; .' , 1' D- 25') ?') 1?*' , 1' + . ') .' 6? /E% ( ) *' 06, *' 1 ' ,) *' 6>>*.. 12' 9 ' .' L*0' D ' ,) *' ; 262 ?1 ; .' >12.*2, ' 1 ' ,) *' 62> *2, ' >)-121/15*-.' 6.' 1>>; -- 25' 2' % % R' M ->62; .' %' 6 ! ' d ' T / 2,12 ' .' % 62%X% ( ) *' < *0*.' 8*-*' D ' 21' ?*62.' ?60*' . ; DA*>, ' , 1' ,) *' *-. 62.' 6, ' -.,% , ' .' D 5) /E' =-1D6D/*' ,) 6, ' 6.' : *^ -101, ; .' 620' d*21=)12' -*=-*.*2, ' ?62 ' 1 ' ,) *' 21D/*.' , < *0*.' . 0*0' 8 ,) ' 5 $ ' 620' 0 ; - 25') .' -* 52',) *' ?1., ,-' . ; *0' 5*2*-6/.' 1 ' ,) *' 6-? *.' 8*-*' < *0*.% *, ' +*+2' ,) . ') 6-0/ ' *L=/6 2.' ,) *' =) *21?*212' 1 ' 6' 6- ; .' ,) *' < *0*' 8) 1 ' 2' ,) *' D119' 1 ' 62 */' 1-', 8 1' A 7*6-.') 1/0.' ,) *' 51+*-2?*2, ' 2' 6D /12' 6 , *-' ,) *' >6=, ; -*' 1 ' ,) *' >, E' D ' ,) *' < *0*.' 620' *-. 62.% 20**0' ,) *' /62^ 5 ; 65*' ; .*0' >12>*-2 25',) *' 9 2501?' 1 ' 6- ; .' ? 5), ' D*' *L=/6 2*0' 6.' - *2,6/) A7=>-D1/*' 620' 6- ; .' D*' . ; ==1.*0' , 1') 6+*' D**2' 6' ?*-*' .6, -6=' 1 ' 6D /12' 8*-*' , ' 21, ' 1-' ,) *' 6>, ' ,) 6, ' -; .' .' >/*6-/ ' =; ' 1-86-0' 6.' 6' , 1' 6- ; .' ,) *' < *0*% < 62 ') 6+*' D**2' ,) *' 6, , *?=, ' , 1' -*>12> /*' ,) .' 8 ,) ' ,) *' >; --*2, ' 4-*> 62' 6>>1 ; 2, .' T D ; ' ,) *-*' .' 12*' 12/ ' ,) 6, ') 6.' ,) *' /*6../ ' =/6; . D / , E ' + [% ,) 6, ' 8) >) ' 8 ,) ' d*21=)12', *6>) *.' ,) 6, ' , 65*.') 60' 6' .12' ., // / +^ 25' M8) 1?' d*21=)12' >6//.' +6L6-*.X ' 720' ,) 6, ' , / .' .12' .' 21' 1,) *-' ,) 62' 6- ; .' ,) *' < *0*T , 1' 8) 1?' AC -; .' D ' 6' .1-', 1 ' 2*=) *87 .' = *, fW >12>*0*0' 6' 21? 26/ .' ; =-*?6> ' 6, ' 6DAO12% **' # . ! 2' ,) *' -* 52' 1 ' ,) *' .12' 1 ' 5 $ ' ,) *' 0*=-*.. 12' 1 ' ,) *' < *0*.' =-1D6D/ ' >1? ?*2>*0% , ') . ' 0*6,) ' ,) *' < 65 62' >12^ .= -6> ' , 119' =/6>*' 6 , *-' ,) *' 0* *6, ' 1 ' 8) >)' ,) *' < *0*.' 01 ; D, /*.' . ; 29' /18*-' . , //% , '6'/6, *-' , ? *' ,) *' ?60*' 6' 5*2*-6/ ? .?-*>, 12' 656 2.' ,) *' *-. 62' =18*-' 620' , .' . ; ==-*.. 12' . **?.' , 1') 6+*' D-1 ; 5), ' ,) *?' , 1' 6' /*+*/ 8 ,) ' : -*62 62. ' 6>,- 62. ' 620' 1 ,) *-' +6..6/ 26, 12.' 8) >)' .=19*' ,) *' , 125 ; *' 1 ' *-. 6T ,) *' 26, 12.' 1 ' ,) *' =1*, >6/ ') 60' 12/ ' 0 6/*>, ; 6/ +6- 6, 12.' 1 ' /62^ 5 ; 65*' M , -6D1 ' L+ ' K ' =% N X% I **' ! % ! ' ( ) *' 0*.>- =, 12.' 5 +*2' ; .' 2' , *. 6.' 620' 2' /; , 6->) .' -, 6L*-L*.' M,) *' /6, ^ , *-' =-1D6D/ ' , 69*2' -1?' , *. 6.X ' >12>*-2 25',) *' *-^ . 62' ?10*' 1 ' 5), 25' 6-*' _ ; , *' # ' 2',) *' -' >)6-^ 6>, *-% 1' .9 // .**?.' , 1' D*' 2**0*0' DA 7,) *' 5*2*-6/ 21', 6>, >.' 6-*',) 1 ; 5), ' 1 d) *' 01*.') .' 0 ; , ' D*.' , ' D' D*^) 6+ 25' 6.' ,) *' A-6+*.' , 1 ' >1?2' 12' .1/0 *-.' 620' D ' 6>, ^ 25',) *' =6-', 1 ' >) 6?= 12' / 9*' 6' 92 5), ' 2',) *' 06A .' 1 ' >) +6/- % *' >6221, ' .; ==1.*' ,) 6, ' ,) *-*' 86.' 62 ' '60+62>*' 1 ' ,) *' ? / , 6- ' 6-, ' 2',) *' 06 .' 1 ' ^ -; .% , ' .' 65-**0' D ' 6//' ,) 6, ') *' .; DO ; *0',) *' 0 62.' ,) *' 4-**9.' 1 ' . 6' < 21-' 620',) *' 6D /12 6, .T 8*' ?6 '01 ; D, /*..' 600' ; . 626' 8) >)' ? ; .') 6+*' D**2' 2^ >1-=1-6, *0' 8 ,) ') .' *?= -*' D* 1-*') *' >1? ?*2>*0') .' 86-' 8 ,) ' 6D /12T 8) *-*' 6/.1') *' L*0') .' ? / , 6- ' >6= , 6/ M ; .6' 1-') ; .) 62X' 6.' ?1-*' >*2, -6/ 1-',) *' 2*^ >*.. , *.' 1 ') .' 60? 2 .. -, 6, 12' ,) 62' 6.6-560. *% *; ' ,) *' 8) 1/*' 6-*.' >, ' >12, 2 ; *0' , 1' D*' ,) *' ?1-*' 6>-*0' 620' D*^ , *// . ' ,) *' 6, -1> 1 ; .' >-.' */, *.' 1 ' ., I65*.' ?6A ') 6+*' -*^ +1/, *0' ,) *') *6-, .' 1 ' ,) *' < *0 62' 21D / , E % **' + ! N% - ' ' " ' 6 % ' ' " ' ' ! ' d*21=)12 .' -1?62>*' 1? , .' ,) *' 6>, ' ,) 6, ' ,) *' , -62. *-*2>*' 1 ' ,) *' *?= -*' 86.' * *>, *0' D ' 6' > + / 86-T 2*+*-,) */*..' ,) *' .6?*' 8-, *-' 2') .' & 1' >12 *..*.' , ' M ' ' KX% : *-101, ; .' .*. 6.' .1>-6^ , *.' ,-6D1' 620' 2' 6>, ' 6// 8) 1' 6// ; 0*' , 1' ,) *' ?6, , *-' 6, ' 6// ' 65-*' ,) 6, ' , ' 86.' .1% 2' d*21=)12' MV% >%X' 8> 20' ,) *' $==*-' (5-.' , 1') 6+*' D**2' ,) *' .*6, ' 1 ' 12*' >6?=6 52' 8) *-*' ,) *' > , *.' 1 ' 6- ..6' 620' 9/*.= /6' 8*-*' D*. *5*0' 620' , 69*2' D ' -; .% -1?' , -6D1' 8*' /*6-2' ,) 6, ' ,) *' 0*> . +*' D6, , /*' 86.' 1 ; 5), ' 12' ,) *' .=1, ' 8) *-*' -; .' 6 , *-86-0.' D ; /, ' 6.6-5606*' 2' *-. . ' 1-') .' 26, +*' >6= , 6/% ( ) .' 65-_*.' 8 ,) ' : *-101, ; . ' 6>>1 ; 2, ' 1 ' , 81' 6-? *.' D* 25' . ; >>*.. +*GE' /1.. ' 8) >)' ?6A ' ? *62',) 6, ' ,) *' 86-' 86.' *20*0' 2' , 81' >6?=6 52.% *, ' , *. 6.' -*=-*.*2, .' ., 65*.' 6.' 26// ' >6=, ; -*0' 2' ,) *' =6/6>*' 1 ' >D6, 626T -; .' M.6 .' : *-101, ; .X' 0 0' ., 65*.' 21') 6-? ' D ; ' 9*=, ') ?' D ') .' . 0*' , 1' ,) *' *20' 1 ') .' / *% , *. 6. ') Z7+*+*-' ., 6, *, ' ,) 6, ') *' 86.' -., ?60*' -; /*-' 1 ' ,) *' 6->62 62. ' 620' 6 , *-86-0.' ? ; -^ 0*-*0' D ' 6' *; 2 ; >)' .*2, ' DE' -; .' , 1' D- 25') ?') 1?*' , 1' + . ') .' 6? /E% ( ) *' 06, *' 1 ' ,) *' 6>>*.. 12' 9 ' .' L*0' D ' ,) *' ; 262 ?1 ; .' >12.*2, ' 1 ' ,) *' 62> *2, ' >)-121/15*-.' 6.' 1>>; -- 25' 2' % % R' M ->62; .' %' 6 ! ' d ' T / 2,12 ' .' % 62%X% ( ) *' < *0*.' 8*-*' D ' 21' ?*62.' ?60*' . ; DA*>, ' , 1' ,) *' *-. 62.' 6, ' -.,% , ' .' D 5) /E' =-1D6D/*' ,) 6, ' 6.' : *^ -101, ; .' 620' d*21=)12' -*=-*.*2, ' ?62 ' 1 ' ,) *' 21D/*.' , < *0*.' . 0*0' 8 ,) ' 5 $ ' 620' 0 ; - 25') .' -* 52',) *' ?1., ,-' . ; *0' 5*2*-6/.' 1 ' ,) *' 6-? *.' 8*-*' < *0*.% *, ' +*+2' ,) . ') 6-0/ ' *L=/6 2.' ,) *' =) *21?*212' 1 ' 6' 6- ; .' ,) *' < *0*' 8) 1 ' 2' ,) *' D119' 1 ' 62 */' 1-', 8 1' A 7*6-.') 1/0.' ,) *' 51+*-2?*2, ' 2' 6D /12' 6 , *-' ,) *' >6=, ; -*' 1 ' ,) *' >, E' D ' ,) *' < *0*.' 620' *-. 62.% 20**0' ,) *' /62^ 5 ; 65*' ; .*0' >12>*-2 25',) *' 9 2501?' 1 ' 6- ; .' ? 5), ' D*' *L=/6 2*0' 6.' - *2,6/) A7=>-D1/*' 620' 6- ; .' D*' . ; ==1.*0' , 1') 6+*' D**2' 6' ?*-*' .6, -6=' 1 ' 6D /12' 8*-*' , ' 21, ' 1-' ,) *' 6>, ' ,) 6, ' -; .' .' >/*6-/ ' =; ' 1-86-0' 6.' 6' , 1' 6- ; .' ,) *' < *0*% < 62 ') 6+*' D**2' ,) *' 6, , *?=, ' , 1' -*>12> /*' ,) .' 8 ,) ' ,) *' >; --*2, ' 4-*> 62' 6>>1 ; 2, .' T D ; ' ,) *-*' .' 12*' 12/ ' ,) 6, ') 6.' ,) *' /*6../ ' =/6; . D / , E ' + [% ,) 6, ' 8) >) ' 8 ,) ' d*21=)12', *6>) *.' ,) 6, ' , 65*.') 60' 6' .12' ., // / +^ 25' M8) 1?' d*21=)12' >6//.' +6L6-*.X ' 720' ,) 6, ' , / .' .12' .' 21' 1,) *-' ,) 62' 6- ; .' ,) *' < *0*T , 1' 8) 1?' AC -; .' D ' 6' .1-', 1 ' 2*=) *87 .' = *, fW >12>*0*0' 6' 21? 26/ .' ; =-*?6> ' 6, ' 6DAO12% **' # . ! 2' ,) *' -* 52' 1 ' ,) *' .12' 1 ' 5 $ ' ,) *' 0*=-*.. 12' 1 ' ,) *' < *0*.' =-1D6D/ ' >1? ?*2>*0% , ') . ' 0*6,) ' ,) *' < 65 62' >12^ .= -6> ' , 119' =/6>*' 6 , *-' ,) *' 0* *6, ' 1 ' 8) >)' ,) *' < *0*.' 01 ; D, /*.' . ; 29' /18*-' . , //% , '6'/6, *-' , ? *' ,) *' ?60*' 6' 5*2*-6/ ? .?-*>, 12' 656 2.' ,) *' *-. 62' =18*-' 620' , .' . ; ==-*.. 12' . **?.' , 1') 6+*' D-1 ; 5), ' ,) *?' , 1' 6' /*+*/ 8 ,) ' : -*62 62. ' 6>,- 62. ' 620' 1 ,) *-' +6..6/ 26, 12.' 8) >)' .=19*' ,) *' , 125 ; *' 1 ' *-. 6T ,) *' 26, 12.' 1 ' ,) *' =1*, >6/ ') 60' 12/ ' 0 6/*>, ; 6/ +6- 6, 12.' 1 ' /62^ 5 ; 65*' M , -6D1 ' L+ ' K ' =% N X% I **' ! % ! ' ( ) *' 0*.>- =, 12.' 5 +*2' ; .' 2' , *. 6.' 620' 2' /; , 6->) .' -, 6L*-L*.' M,) *' /6, ^ , *-' =-1D6D/ ' , 69*2' -1?' , *. 6.X ' >12>*-2 25',) *' *-^ . 62' ?10*' 1 ' 5), 25' 6-*' _ ; , *' # ' 2',) *' -' >)6-^ 6>, *-% 1' .9 // .**?.' , 1' D*' 2**0*0' DA 7,) *' 5*2*-6/ 21', 6>, >.' 6-*',) 1 ; 5), ' 1 d) *' 01*.') .' 0 ; , ' D*.' , ' D' D*^) 6+ 25' 6.' ,) *' A-6+*.' , 1 ' >1?2' 12' .1/0 *-.' 620' D ' 6>, ^ 25',) *' =6-', 1 ' >) 6?= 12' / 9*' 6' 92 5), ' 2',) *' 06A .' 1 ' >) +6/- % *' >6221, ' .; ==1.*' ,) 6, ' ,) *-*' 86.' 62 ' '60+62>*' 1 ' ,) *' ? / , 6- ' 6-, ' 2',) *' 06 .' 1 ' ^ -; .' , ' .' 65-**0' D ' 6//' ,) 6, ') *' .; DO ; *0',) *' 0 62.' ,) *' 4-**9.' 1 ' . 6' < 21-' 620',) *' 6D /12 6, .T 8*' ?6 '01 ; D, /*..' 600' ; . 626' 8) >)' ? ; .') 6+*' D**2' 2^ >1-=1-6, *0' 8 ,) ') .' *?= -*' D* 1-*') *' >1? ?*2>*0') .' 86-' 8 ,) ' 6D /12T 8) *-*' 6/.1') *' L*0') .' ? / , 6- ' >6= , 6/ M ; .6' 1-') ; .) 62X' 6.' ?1-*' >*2, -6/ 1-',) *' 2*^ >*.. , *.' 1 ') .' 60? 2 .. -, 6, 12' ,) 62' 6.6-560. *% *; ' ,) *' 8) 1/*' 6-*.' >, ' >12, 2 ; *0' , 1' D*' ,) *' ?1-*' 6>-*0' 620' D*^ , *// . ' ,) *' 6, -1> 1 ; .' >-.' */, *.' 1 ' ., I65*.' ?6A ') 6+*' -*^ +1/, *0' ,) *') *6-, .' 1 ' ,) *' < *0 62' 21D / , E % **' + ! N% - ' ' " ' 6 % ' ' " ' ' ! ' d*21=)12 .' -1?62>*' 1? , .' ,) *' 6>, ' ,) 6, ' ,) *' , -62. *-*2>*' 1 ' ,) *' *?= -*' 86.' * *>, *0' D ' 6' > + / 86-T 2*+*-,) */*..' ,) *' .6?*' 8-, *-' 2') .' & 1' >12 *..*.' , ' M ' ' KX% : *-101, ; .' .*. 6.' .1>-6^ , *.' ,-6D1' 620' 2' 6>, ' 6// 8) 1' 6// ; 0*' , 1' ,) *' ?6, , *-' 6, ' 6// ' 65-*' ,) 6, ' , ' 86.' .1% 2' d*21=)12' MV% >%X' 8>

(i. e. a Slavonic) people, who seem to have dwelt, or perhaps rather roved, along the Oxus, from Bokhara to Khiva; and that, after alternate successes in battle, he attached the whole nation to himself in faithful allegiance. Their king is called Amorges by Ctesias. They are undoubtedly the same people that Herodotus (vii, 64) calls *Amyrgian* Sacians; and it is highly probable that they gave to the district of Margiana its name. Their women fought in ranks as systematically as the men. Strabo has cursorily told us of a tradition (xv, 2, p. 307) that Cyrus escaped with but seven men through the deserts of Gedrosia, fleeing from the "Indians"—which might denote an unsuccessful war against Candahar, etc., a country which certainly was not reduced to the Persian empire until the reign of Darius Hystaspis.

The closing scene of the career of Cyrus was in battle with a people living on one or both banks of the river Iaxartes, now the Syr-deria. Herodotus calls the enemy the Massagetans, who roamed along the north bank of the river; according to Ctesias it was the Derbices, who seem to have been on the south. Both may, in fact, have combined in the war. In other respects the narrative of Ctesias is beyond comparison more credible, and more agreeable with other known facts, except that he introduces the fiction of Indians *with elephants* aiding the enemy. Two battles were fought on successive days, in the former of which Cyrus was mortally wounded, but was carried off by his people (B.C. 529, according to Clinton). In the next, the Sacian cavalry and the faithful Amorges came to support him, and the Derbices sustained a total and bloody defeat. Cyrus died the third day after his wound: his body was conveyed to Pasargadæ, and buried in the celebrated monument, which was broken open by the Macedonians two centuries afterwards (Strabo, xv, 3). A description is given of the tomb in Arrian (vi, 29): it was a neat quadrangular edifice, with a low door leading into a little chamber, in which lay a golden sarcophagus, containing the body of Cyrus. The inscription, reported by Aristobulus, an eye-witness, is this: "O man, I am Cyrus, who acquired the empire for the Persians, and was king of Asia. Grudge me not, then, this monument." It is generally supposed to have perished, but Sir R. K. Porter has sought to identify it with an extant building known by the natives as that of "the mother of Suleiman" (*Travels*, i, 498). His name is found on monuments at Murghab, north of Persepolis (Höck, *Vet. Med. N. Pers. Monum.*).

Supposed Tomb of Cyrus.

5. *Conduct and Relations of Cyrus towards the Jews.*—Hitherto the great kings, with whom the Jews had been brought into contact, had been open oppressors or seductive allies; but Cyrus was a generous liberator and a just guardian of their rights. An inspired prophet (Isa. xliv, 28) recognised in him "a shepherd" of the Lord, an "anointed" king (Isa. xlv, 1; מָשִׁיחַ, *Messiah*); and the title seemed to later writers to invest him with the dignity of being in some sense a type of Christ himself (Jerome, *Comm. in Isa.* xlv, 1). His successes are connected in the prophecy with their religious issue; and if that appear to be a partial view of history which represents the restoration of a poor remnant of captive Israelites to their own land as the final cause of his victories (Isa. xliv, 28-xlv, 4), it may be answered that the permanent effects which Persia has wrought upon the world can be better traced through the Jewish people than through any other channel. The laws, the literature, the religion, the very ruins of the material grandeur of Persia have passed away, and still it is possible to distinguish the effects which they produced in preparing the Jews for the fulfilment of their last mission. In this respect, also, the parallel, which has already been hinted, holds good. Cyrus stands out clearly as the representative of the East, as Alexander afterwards of the West. The one led to the development of the idea of order, and the other to that of independence. Ecclesiastically the first crisis was signalized by the consolidation of a Church, the second by the distinction of sects. The one found its outward embodiment in "the great synagogue," the other in the dynasty of the Asmonæans.

The kings of Assyria and Babylon had carried the Jews into captivity, both to remove a disaffected nation from the frontier, and to people their new cities. By *un*doing this work, Cyrus attached the Jews to himself as a garrison at an important post. But we may believe that a nobler motive conspired with this. The Persian religion was primitively monotheistic, and strikingly free from idolatry; so little *pagan* in its spirit that, whatever of the mystical and obscure it may contain, not a single impure, cruel, or otherwise immoral practice was united to any of its ceremonies. It is credible, therefore, that a sincere admiration of the Jewish faith actuated the noble Persian when he exclaimed, in the words of the book of Ezra, "Go ye up and build in Jerusalem the house of Jehovah, God of Israel; *he is God!*"—and forced the Babylonian temples to disgorge their ill-gotten spoil. It is the more remarkable, since the Persians disapproved the confinement of temples. Nevertheless, impediments to the fortification of Jerusalem afterwards arose, even during the reign of Cyrus (Ezra iv, 5). See CAPTIVITY.

Perhaps no great conqueror ever left behind him a fairer fame than Cyrus the Great. His mighty achievements have been borne down to us on the voice of the nation which he elevated; his evil deeds had no historian to record them. What is more, it was his singular honor and privilege to be the first Gentile friend to the people of Jehovah in the time of their sorest trouble, and to restore them to the land whence light was to break forth for the illumination of all nations. To this high duty he is called *by name* by the prophet (Isa. xliv, 28; xlv, 1), and for performing it he seems to be entitled "the righteous man" (xli, 2; xlv, 13). There are also important passages in Jeremiah (xxv, 12; xxix, 10; xxiii, 7-13) that predict the same event, without mentioning the name of Cyrus as the agent. The corresponding history is found in the books of Daniel and Ezra. The language of the proclamation in Ezra i, 2, and 2 Chron. xxxvi, 22, seems to countenance the idea that he was

6>_;6 2,*0' 6.')*' *6. / ' ? 5),')1' ,)-1;5)' 62 */' 8 ,)' ,)*' =-1=)*> ' 1 ' .6 6)' -*.=*>, 25') ?% **'
!
( )*' ' -.,' *6-'1 ' -; .J',)*-*' .=19*2'1 ' .'21,',)*' *6-'1 ') .'*/*+6, 12',1'=18*-'1+*-',)*' <*0*] ' 21-',)*' 06,*' 1 ',)*' >12_;*.,' 1 ' *-. 6 ' 21-' *,',)6,' 1 ',)*' 6//' 1 ' 6D /12 ' % NQ" D;,'6,',)*' >/1.*' 1 ',)*',81' *6-.' .;>>**0 25',) .'/6.,' *+*2,' 0;- 25' 8)>)' ' 6- ;.',)*' <*0*J')*/0',)*' + >*-1 .) =' 1 ' 6D /12 ' % >% 2' % % NS% ,' 86.' 21,', //',)*2',)6,' -;.' D*>6?*' 6>,;6/ -;/*-' 1+*-' 6/*., 2*' 8)>)' >12, 2;*0',1' D*' 6,,6>)*0' ,1C,)*' 6D /12 62' 0*=6-,?*2,' 1 ') .' *?=-*' M.*>' -182* .' , ' $ " 1' =% NX% ()*' *0 >,' 1 ' ^ -;.' 1-',)*' -*D; /0 25'1 ',)*' (*?=/*'MK')-12 'LLL+ ' KK KN%T' [-6' ' C T' ' T' + 'NT' + ' N T' + 'NX' 86.' 2' 6>,' ,)*' D*5 22 25' 1 ' B;06 .?T' 620',)1' 5-*6,' >)625*.' D ' 8) >)',)1' 26, 12' 86.',-62. 1-?*0' 2,1' 6' >);->)' 6-*' >/*6-/ ' ?6-9*0% M 2',)1' 0*2, , ' 1 ',)1' , ?*.' 1 ' -;.' 620' 6; */' .*1' BD8-% Y 6>% ' B;/ ' Q ' =% N ' ._%T B62% Q ' =%N4 '._%X
M %X' ()*' /*..12' 1 ',)1' 9 2501?' 86.' >1?=/*,*0' D ',)*' >6=, + , % ()1'.86 ' 1 '6',*?=1-6/=- 2>*' 86.' 6,' /*25,)' */,',1' D*' 6,' D*.,' 12/ ' 6' 6 2,' ?651' 1 ',)6,' <*.. 62 >' 9 2501?' ,1' 8) >)' ,)*' =-1=)*,.' =1 2,*0% ()*' -1 6/'=18*-')60'/*0',1'6=1.,6. ' 2' .-6*/ 620',1' 01/6,-' 2' B;06) ' 620' ?*2' /119*0' 1-' .1?*' 1,)*-' 1;,86-0' 1-?' 2' 8) >)',)*' /68' ?5),' D*' + . D/ '-*6/^ [*0% *=*20*2>*' 12' *-.?'*L>/;0*0',)*')1=*' 1 '6D^ .1/;,*' =1/ ,>6/ -**01?' 620' 1 *-*0' 6' .;-*' 5;6-62,**' 1-',)*'/ D*-, '1 '-*/ 5 1;.' 1-562 [6, 12%

MK%X' ()1' >6=, + , ' 8) >)' 86.' ,)*' =;2 .)?*2,' 1 ' 01/6,-' 86.' 6/.1',)1'/ ? ,' 1 ',)6,' . 2% ()*2>* 1-,)' ,)1'B*8.'6==-*)*20*0' ;// ',)*' .= - ,;6/26,;-*' 1 ',)*-' 6 ,)' 620')*/0' ,' 6.',)-1;5)' =*-.*>;,12% ,',)1' .6?*' ,?*' 8 0*-'+ *8.' 8*-*' 1=*2*0',1',)*?' 1 ',)*';2^ .**2'81-/0% ()1'=18*-.' 1 '5110'620'*+ /8*-*'->15^ 2 .*0' 2',)* -'6>, 12' 2',)1' ?6,*- 6/81-/0'620' 2',) .' 86 '.1?*'=-*=6-6, 12'86.' ?60*' 1-',)1'>-182 25'01>^ ,- 2*'1 ')- ., 62 , %
MN%X' ()1' 1-562 [6, 12' 1 ',)1' 1;,86-0');->)' 86.' >122*>,*0' 8 ,)',)*' =;- 25' 1 '01>,-2*' 620' .*-+*0' 6.',)*' 1-?' 2' 8) >)'7)>',-;,)' ? 5),'D1'-*6/ [*0'D ',)7' ?6..% -6 *-' =;D/>' 620'=- +6,*' 'C6..;?*0' 6' 218' ?=1-,62>*% ()1'=-1=)*,>'81-9'>6?1',1'62'*20% ()1' >-=,;-.*.' 8*-1'>1//*>,*0% ()*' '/68'86.' *2>*0J' D '62' 1-6/',-60, 12% 26515;*.'A+*-*' *->,*0'620' .>)11/.' 1-?*0% >-D*.'.)6-*0',)*'-*.=*>,'1 '=-*,..' ',)* '0 0' 21,'.;=*-.*0*',)*?' 2'=1=;/6-'-*56-0%
M %X' D1+*' 6//',)*' D120'D ' 8) >)' ,)*' =*1=/*' 1 ' 410J'8*-*')*/0',15*,)*-'86.'6,'/*25,)' */,',1'D*'-*/ 5^ 1;.'620'21,'/1>6/'21-'*+*2'=-?6-/ '26, 126/% ()*' B*8.'8*-*' 2>1-=1-6,*0' 2'0 *-*2,'26, 12.'620'., //' /119*0',1'B*-;.6/*?'6.',)1'>*2,-*' 1 ',)* -' 6 ,)% ()1' D1;206-*.' 1 ' 62662' 8*-*' =6..*0T' 620',)*' D*5 2^ 2 25.' 1 '6'.=-,;6/ 0.=*2.6, 12' 8*-*' 6/-*60 ' ?60*' 8)*2',)*' .=*-. 12J' 86.' *.,6D/.)*0' 6?125',)1' 9 2501?.'1 ',)1'*6-,)'M>1?=% *D;)-.' ?"!& ' ';" 2*=%KK '._%T 86/0' ? "' !' N + 'D ' +'S'._%T B1.,' ? "!' 'D " 1' ' N._%X% **' / ': /'(3!

□

66)% **'& !
6D 6 -*/ ' 6' /*..' >1--*>,' ?10*' 1 ' 25/ > [25' MB1.)'LL 'KQX',)*' 26?*' -'M_%+%X%
6D6-,,6% **'&
6D D6.)*,//'M:*)%KP1B *. *Z ' 6'>6?*/. " %'6.' 2' .6%LLL'S'_%0% 6?*/C);?=' : //T *=,% & C $+' /*L% & * 1 ' 6,% 6,A0=6VN2T 2/5% ' "P8'6'=/6>*' 12',)*' D1;206 C/2*' 1 ',)*',- D*' 1 'U*D;/12'D*,8**2'<6-6/6)'620'B192*6?'MB1.)'L L ' 'T .**' * /' 2'/1>%XT 6==6-*2,/ ',)*' ?10^ *-2'D 1'8)>)'.**?.'/9*8 .*',1'>1--*.=120',1'12* 1',)*'=/6>*.'26?*0'? " +'M ;.*D%-OVN60'620' 6C VN17OX'/1>6,*0'D ' B*-1?*',! .% +% 46D6>)12X 2*6-' 1>6*.6-*6' 2',)*'=/6 2'1 ' *5 1'M 1D 2.12'5 &' " ' 'K '8)1.*' ?6=' =/6>*.' ,' *6.,'1 '$92; .' 6==6-*2,/ 'D '62'*--1-T .** 62'0*' */0*' '=% X% ,' 86.' 656 2' + . ,*0' D ' -% 1D 2.12' > ' 5 '=% NX' D;,' .' 21,'0*.>-D*0'D ')?'M>1?=% ,^ ,*-'6 + 'L+ ' QX% 21D*/ .;55*.,.' >D !' A' + '=% Q% ,)6,',)*' 26?*' 2',)*' , ' ?6 ')6+*' 6- .*2' -1?'6' :*D-*8' *=,)*,'M2HN ' % *% ? 1' "' _'0%,)*" ' ',)*'=/6 2X'6'+ *8'8)>)',.' .1/6^ , 12' -1?',)*' >6?*X - 05*' .**?.',1'>12 -?' M ,,*-' L+ ' X'6/,)1;5)',)*' ?10*?'+ //65*' .**?.',1' D*' ;=12'6'+*- './5),' '62 '*? 2*2>*%
6D *-6,0/'M:*D% ' " "(' \12>*'B1.) L L' K'8 ,)',)*' 6-,%" 1; "(' T 12>*')-12% + ' K' ' " "(' 6>>1-0 25',1' ;-.,'6 *?% 1-?'1 ' % :' *=,' 2'B1.)% 6V=ON'620' & $% 1 '+%-% & $% 1' 2')-12% V 85 +%-% 1VN8=T ;/5% ' "8'6',182' 2',)*',- D*'1 ' ..6>)6-'MB1.)' LL 'KQ'8)*-*',)*' % %)6.' 6D6-*)JX ;*6-',)*'D1-^ 0*-'1 'U*D;/12'MB1.)'L L ' K'8)*-*' ,' .' 26?*0'2*L,' ,1').,/1,)C,6D1-X'620'6.. 52*0',1',)*' *+ ,*.' M' D-12Z' + ' KX% ,' .'=-1D6D/',)*' .6?*' 8 ,)',)*' + /^ /65*' ' " ' >& 1 8' ?*2, 12*0' D ' ;.*D ;.' 620' C1 >, !'.% +%X' 6.' / 25'2*6-' <,' (6D1-' 2',)*' -*5 12' 1 ' 1>6*.6-*6' M */620' '=% N XT 620' 6/.1',)*' ' " ' -*=*6,*0/ ' ?*2, 12*0' 'B1.*=);.' >& 1 % --2 ') %G' ' 'K N'A & 1 -- '(' KST' & 1 % '+%-% & % ' 'SKX' 6.' / 25' 2' ,)*' 5-*6,' =/6 2' 12',)*' >12 2*.' 1 ' 46/7**' M */620' ! =%V N ',11' 2 >*/ ' 1DA*>,.',)6,',)*' D1-7>' D*^ ,8**2' ..)#)6-'620'U*D;/12' 81;/0' 21,'D*' 6.. 52*0',1' 46/ /**X% 2'*L6>,'65-**?*2,'8 ,)',)*.*' 21, >*.',)*-*' ., //'*L .,.' 12',)*' . 0*' 1 '6'/*05*' 1 '-1>9.'A;.,'6,',)*' D6.*' 1 '<,%(6D1-'12',)*' 21-,)C8*7',)*' + //65*' ' " ' '6'.?6//'=11-'620' /,) '=/6>*'>12,6 2 25',)*'D6-*' 86//.' 1 '62' 1/0' >);->)'D6.*0' ;=12' ?6.. +*' 1;206^ , 12.' 1 '6'., //'1/0*-'06,*% ()*' ., ;6, 12')18*+*-' .' D*6;, ;/'8 ,)',)*' 8110*0')*5),.' 1 '(6D1-'- . 25'D*^) 20'620' 2' -12,',)*' =/6 2' 1 ' .0-6*/12' *L=620 25' / 9*' 6' .*6' 1 '+*-0;-*' M 1D 2.12'5 1 ' 'K T <6;2C 0-*//'6 ' - !'=% RT ,,*-'6 +!' L+ ' S RT' 1' 6;/> '7 ' ' T >)86-[' '=' SS S X= (-60, 12' M 62' 0*' */0*' 'N X' 2>1--*>,/ ' ?69*.' ,) .',)*' .>*2*' 1 ',)*' ?-6>/*' 12',)*' /;26, >')/0'=*-^ 1-?*0'D '1;-' 1-0'6 ,*-' .'0*.>*2,' -1?',)*' <1;2, 1' (-62. 5;-6, 12'M<6,,'L+ ' X%
6D-6'12*' 1 ',)*' +*' .8 ,'.>-D*.'8)1'-*>1-0*0' ,)*' + . 12.'1 ' .0-6.'MK' .0-%L + 'K T >1?=% N KX%
6>D' '6' 4*-?62')-.,62' =1*,'D1-2'B;/ ' KR S '6,' <*?*/T D*>6?*' 2' SNN .;DC,*6>)*-'1 ',)*' >6,)*0-6/.>)11/1 ' 12 5.D*-5 ' >1C-*>,1-' 2' SN '=-1^ *..1-' 1 '=1*,- ' 2',)*' $2 +*-. , ' 2Y SNR' 620' 0 *0' =-/ S S R% :*' .,620.' 6?125',)*' -.,' =1*,.' 1 ' ,)*' .1C>6//*0' 12 5.D*-5' .>)11/% : .' =-10;>, 12.' 8*-*' =6-,/ '-*/ 5 1;.' =6-,/ '.1>6/' 620' 6==*6-*0' ;2P 0*-' 0 +*-.', ,/*.T',)* ' 8*-*' >1//*>,*0' 620' =;D/.)*0' D ') .' 8 018% 1?',' '1 ') .'-*/ 5 1;.' =*>*.' 8*-*' =;D/.)*0'D ':% /D*-, '& '*,>%M 12 5.D% S CS X' 620'6,*-86-0.' 2>1-=1-6,*0' 2',)1' 12 5.D*-5' :?2C D119' 1 ' SR % ** 4*D6;*-'$!'6 "' !' '@ ' ') " " 'Md#D 25' QKQ8:' :>22*D*-5*-' D " "! !' " '! & ' Q %' ' *-*-' DD 2 " ' .'+% 6>)*-;.% ** ' ! >)*-% *>' ' K3 ! 6>17D' >&) *$' +%-% & S C < E !' & " (8' 12*' 1 ',)*')*60.' 1 ',)*' 6?/*.' 1 '7=1-,*-.J',)6,

,) 6,' *2,*-' 2,1' ? *2' 620' 9 // ,) * ? ' ; 2/*. .' ,) * ' >62' 1D^ ,6 2' .1 ? *') */=' 656 2 .' ,) * ?' 620') *' .=*69.' 1 ' ,) * -' *L1-> . ?' D ' ; ? 56, 12' M6.' 2' (1D% + ' K' NX% **' 6/.1' & ! + ' >% Q' KT' + ' >% K' % & - , 25' 6.')*' 0 0' 8 ,)' 6' >12. ,62,' + *8', 1' ,) *' 4*2, /*. ' ,' .' 21,' / 9*/A' ,) 6,') *' 81 ; /0' ; . *' ,) *' 81-0' 2' ,) *' 1,) *-' .*2.*' 6.' 6=^ =/ *0' ,1') *6,) *2' 0 + 2 , *. %

') /1' ,) *' 81-0' 6==*6-.' ,1' D*' ; .*0' 2' 6' ?1-*' 5*2*-6/ .*2. *' 6.' *_ ; +6/*2,', 1' 625*/. J' 620' -* *-- 25' ,1' D1,) ' 5110' 620' *+ /% **' &[$!

% -" ') =- '6/8 6 .' ; .*',) *' 81-0' K% .' ,1' >) 6-6>,* 7' 06*? 12.' 6-*' 0*.>- D*0' 6.' *2 ' 2' 6' D6 0' .*2. *' 8) *2',) * ' .=*69' 6.' -1 ? ',) *? . */+*. % 'M (-1+A=0' 0' A>672=-1%' M < 6,, ' L ' T' L ' ' *,>%X' 2',) *' 41 .=*/.' 5*2*-6//A 7 2' B6 ? *.' ' R' 620' 2' *+ % 6.' D*/125 25', 1',) *' 9 2501 ?' 1 '06-92*. . ' 620' ; . *0' D ' L+ ' ',) *' 06*? 12.' 6-*' .=19*2' 1 ' 6.' .= - , ; 6/ D* 25.' 6,62' 1-' D . ' 8 >9*0' 0*. 52.' M < 6,, ' L ' N T' LL+ ' T' 6.' *2 ? ' ' 8 ,)' 410' 620') 6+ 25' =18*-', 1' 6 / >,' ? 62' =) % + ' KX% 21,' 12/ ' 8 ,)' 0 .*6.*' D ; , ' 6.' .' ?6-9*0' D ' ,) *' -*^ N% .' ,1',) * -' 6D10*',) * ' 6-*' -*=-*. *2, *0' 6.' '-*^ _ ; *2, ' *= ,) *' ' ; 2>/*62 J' 8 ,)' .= - , ; 6/ =1// ; , 12' 6/.1% .*-+*0' 2' *+*-/6., 25' >) 6 2.' ; 20*-' 06-92*. . ' ; 2,1',) *' 2' >,.' L L' K N' *, >% ',) * ' 6-*' *L6>,/ ' 0* 2*0' 6.' A ; 05 ? *2, ' 1 ',) *' 5-*6$ 06 J' MB ; 0*' ST' *0 ? =% K' *, % ' X% ()* ' 6-*' .6 0' 6/.1', 1' D*' 2',) *' 6D . .' M ; 91' + ' '*+ / . = - , . . J' I* ' - * ' - -% 8' ()* ' 'D*^ N T' >1 ? =% *+% L ' C X% **' # ! ; >)' 0*.>- =^ / *+*J',) *' =18*-' 1 '410' '620', -*? D/*J' MB6 ? *.' ' RXT' , 12. ') 18*+*-' >62' D*' ; 20*-.,110' 6.' 2, ? 6, 25' 21,) ^ ,) * '-*>152 . *' 1 ; -' 1-0' 6.' ,) *' 12' 1 '410' M < 6,, ' + ' 25' ? 1-*' ,) 62',) * -' D* 25' 2' 6' .,6, *' 1 '=; 2 .) ? *2, ' KRT' ; 9*' + ' X' 620' 6>9218/*05*',) *' =18*-' 1 ' D . ' 6 20 ; 20*-' >12, -1/T' 1-',) *' 8 6.>- D*0' 26 ? *' ; . *0' 2' *L1-> . ? ' 2',) *' =/6>*' 1 ',) *' 26 ? *' 1 ' 6.' ..6, *' 1 ' * :,) * ? ' . ' 2>1 ? =6, D/*' 8 ,)',) *' 0*6' 1 ',) * -' D* 25' 2' B*) 1+6) ' D ') . ' 6==1 2, *0' ? *. .*25*-.' M >, . ' L L ' XT' 6' ..6, *' 1 ' * :' 620' D*. 0*. ' . ; >) ' =6..65*.' 6.' 620' /119' 1-86-0' 2', *--1-', 1',) *' A ; 05 ? *2, ', 1' >1 ? *' =D% ' KT' + ' K' 81 ; /0' /*60', 1',) *' >12>/ ; . 12',) 6, ' 6' M < 6,, ' + ' KRX% ()*' 0*.>- =, 12' . ' =-*> . */ ',) 6, ' 1 ' .=) *-*' 1 ' *L, *20*0' =) . >6/ -**01 ?' . ' 6.. 52*0', 1' 6' 26, ; -*' 69 2', 1',) *' 625*/ >' M. **' 3' 2' 9218/^ ,) *. *' 6// *2' .= - , . % *05*' 620' =18*-. ' D ; ' 8 ,)',) *' ? =) 6, >' 600 , 12' 1 ' % ' ()*' " ' -*_ ; *2, / '-* *-', 1' 06*? 12.' 2',) * -' ,) *' 0*6' 1 ' =1. , +*' 620' 6>, +*' 8 >9*02*. . % 1,) 25' 8 - , 25. % ' .1 ? *' ,) * ' 6-*' -*=-*. *2, *0' 6.' 625*/. .' . 6 0' * ,) *-', 1' . ; ==1-,' 1-', 1' >12, -60 >', ',) *' >1 ? ? 12' 8) 1' 1- 5 26// ' >-*6, *0') 1/ ' */* 2, 1' -*D*// 12' 620' B*8 .) ' D*/ * ' ,) 6, ' 2',) * -' -629.' ? 5), ' D*' 2 ; ? D*-*0' . 2' MB162% 6 ? 6. >% 6 % !' @ 1' ' X' 8) /*' 1,) *-.' ,) 6, ' ,) *' .= - , ' 1 ',) *' 8 >9*0' 0*60% 2' . ; ==1-, ' 1 ' , '6-*' -*=-*. *2, ',) * ? ' 6.',) *' -; , ' 1 ',) *' 2, *->1 ; -. *' 1 '625*/. ' 1 , *2' _ ; 1, *0',) *' 6>',) 6, ',) *' 0.*? 12 6>.' .1 ? *, ? *. ' 8 ,)' 81 ? *2' MB ; ., 2' <' &% ! ' X' 620' 1,) *-.',) 6, ') 6 ; 2, *0',) *' , 1 ? D.' 1 ',) *' 0*60' M < 6,, ' + ' KQX' 620') * ' 6-*' ,) *' .1 ; /.' 1 ',) *' 5 62, .' 8) 1 ? ',) *' 06 ; 5/ , *-.' , /* .; ==MF.>0' -* *-*2>*' 1 ',) *' *= ,) *, ') % 1' ; 2^ 1 ' ? *2' D1-*', 1' 0*+ / .' I = !' + ' QX' ()* ' >/*62 J', 1' ,) *' >*-*? 12 6/ ; 2>/*622*. .' 1 '6' 0*60' D10 % 6/.1', *6>) ',) 6, ',) * ' 6-*' 6, -8 V, 6-6 ' *, ' 21, ' 2' .; >) ' 6' 2' 1-% d ' K K T' ' (? ' + ' T' 620' *+% L ' K ',) *' .*2. *' 6.', 1' D*' 6D. 1/ ; , */ ' ?=6. . 6D/*' D ; , ' 6. ' ' J 81-0' % ' .' ; . *0' 1 ',) *' 1DA*>, .' 1 ' 4*2, /*' 81-^ M /*? % /*L% =% R T' >1 ? =%)- .1 ., 1 ? ' D ! ' * LL+ T' .) = ' 620' 2',) *' -., ' =6. . 65*' , ' .' 1== 1. *0', 1',) *' 81-0' ( ) *101-*, ' ' D ! ' L X% ()* ' 6// 0*.>- D*' ,) *? ' 6. ' ScZ ' M 8 ,) ' 6' -* *-*2>*', 1' *; , % LLL ' X% 1' 6/.1' .' *+ / ' 6. ' 0*>* + 25' 620' 0*. , -1 25' ? *2 ' 6. ' D* 25',) *' , ' ; . *0' D ' ,) *' ,) *2 62.' 2' >, .' L+ ' Q% ()*' .6 ? *' 1DA*>, ' 1 ' 81-. D =', 1',) *') *6,) *2 ' 620' 6. ' * ? =/1 *0' D ' 0*2, >6, 12' 1 ',) *') *6,) *2' 7* , *. ' 8 ,)',) *' *+ / . = -^ 410', 1' =; 2 .) ',) *' 8 >9*0' M - 5*2 ' ! ' h ! + ' KN T' ,. ' . ' 1; 20' 2',) *' 0*.>- =, 12' 1 ',) *' 06 ? . * /) 6+ 25' '6' + ' =% NRR ' *, >%X% **' ,) *=6. .65*. ' >1 // *>, *0' 2' ; C .= - , ' 1 ' 0 + 26, 12J I - ' 1-' - ; ' 8 6, >*-' -+ ! . % + !' $ % '6-0' 2' dB. , *- ' ! ' + 1 =') == ' 620',) *' *L1-> . ? ' 1 ') *-' 6.' 6' 06*? 12 6> D ' 'M 2D% ' =% K' . % ' ,) ' *0 % XT' >1 ? =' 6/.1' 12',) *' 6 ; / M >, . ' L+ ' SXT' 620', ' . ', 1' D*' 21, >*0',) 6, ' 2' ' 8) 1/1' . ; DA*>, ' & 2 [*-' ' ' ' ' 7 ! ' -!' 1-% d ' R' K ',) *' 6=1. ,/*' .' 6-5 ; 25' 8 ,)',) 1. *' 8) 1' M ,*D% *, ' =. % Q KCKKXT' 20 25*-' ' ' #U" : ! ' 0*>/6-*0' 62' 01/, 1' D*' 6' =; -*' 2 ; // , ' 620' 8) /*') *' 6>^ ! ' ' ' M & ,, *2D% XT' .62.9 ' ; "1' >*=, . ',) *', -; ,) ',) 6, ', ' .' .1') *' *, ' 0*>/6-*.' ,) 6, ' 6/ ' ' ! ' " "!' ' ' M 62 [% QXT' 8) >)' .' 1 *-*0', 1' , ' .' 1 *-*0', 1' 6' 06*? 12 J' *>' >) ? 0' ' ' % ' ' M & ,, *2D*-5 ' X% **' + # ' ! 20**0' , ') 6.' D*** 2' >12, *20*0',) 6, ' *+ ^ < % 0*2>*' .' 1; 20' 2',) *' /0' (*., ' , 1' .) 18',) 6, ' 06*? 12.' .*? 12 6>' -*20*-*0' =1. .*. .*0 8) ' 6' 0*+ / TJ' 6/.1' % ' 6', *-?' M 2',) *' 4-%X 8) 1/1' . ; DA*>, ' & 2 [*-' ' ' ' ' 7 ! ' -!' -*_ ; *2, / ' ; . *0' 2' 6' 2*6-/ ' *6; +C' 1% 2 *-*2>*X',) 6, ') *' 6-*' 0*.>- D*0' 6.' *2 ' 6/*2', . *2. *' 2' >/6. . >6/' 4-**9' M6.' 2' 7 .>) % " %"! = % ' 2' 6' D6 0' .*2. *' 6.' *_ ; *2, / ' ; . *0' 2' 6' 2*6-/ ' *6; +C' SST' $ % ! ' ! ' -+ "'! =% T' ; - =% " ! ' =% QQQ' *, >%X' 6/*2', . *2. *' 2' >/6. . >6/' 4-**9' M6.' 2' 7 .>) % " %"! = % *L>*=, ' ,) 6, ' 6. ' ,) *' 0*6' 1 ' . = - , . ' 0 ., 2>, / 7' *+ / 620' *L>*=, ' ,) 6, ' 6. ' ,) *' 0*6' 1 ' . = - , . ' 0 ., 2>, / 7' *+ / 620' -*D*// 1 ; . ') 6-0/ ' *L . , *0' . ; >) ' =1. . *. . 12' 86. ' -* *--*0' -*D*// 1 ; . ') 6-0/ ' *L . , *0' . ; >) ' =1. . *. . 12' 86. ' -* *--*0' , 1',) *' 8 // 1',) *' 510. ' 1-' , 1',) *' +65 ; *' =-*+6/*2>*' 1 ' 7. *. . 12' 1 ' ? *2' D ' 06*? 12. ' 8) 1' 8*-*' ,) *' 6/2' 1-' ; - % * ,) *-' 81-0' . ' *? =/1 *0' 2',) . ' ?6 'D*' * ,) *-',) *' 12*' 1-',) *' 1,) *-'T D ; ',) *' =-1D6D / , ' 62' 1-' ; - % * ,) *-' 81-0' . ' *? =/1 *0' 2',) . ' .1 ; /.' 1 ' 8 >9*0' ? *2' 6 , *-' 0*6,) ' 1-' *+ / 625*/. ' 86. ' .** ? . ', 1' D*' ,) 6, ' ,) * ' D*/125', 1',) *' .6 ? *' >/6. . ' 6. ') ? ^ ,) 1-1 ; 5) / ' *. , 6D/ .) *0' 6 ? 125' 6// ,) *' B*8 . ' 8 ,) ,) *' .*/ ' M. **' 100-05*' @ ' 6 % 1' ' QN' 12012' *L>*=, 12' 1 ',) *' 600 ; >**. ' 6/12*% .*? 12 [*0' =*-^ RRT' 6 ? =D*// ' ! ' ' =% R X% : *' .' >6// *0' .12. ' 2',) *' ' (% ' 6-*',) 1. *' 8) 1' 8*-*' .=19*2' 1 ' 6. ' 1 ' ; ' 6-*',) *' 0.>? 1) /6>. ' 8I6. ' 6.>- D*0', 1',) *' 208*//^) 6 + 25' 6' 06*? 12' 1-' 06*? 12. ' 1>>; = 25',) *? ' . ; . =*20^ 1-0' >6. . ' 1 ; ' 6-*' >1/7>, +*/ ' >6//*0' 6,62' M < 6,, ' L ' 25' ,) *' 6>; /, *. ' 1 ',) *' -' ? 20. ' 620' 51+*-2 25',) *' K CKRT' ; 9*' L ' SXT' 620',) *' =) -6. *' ' ; 2>/*62' . = -^ ? *? D*-. ' 1 ',) *' -' D10 *. ' . 1',) 6, ' 8) 6, ' 86. ' .6 0' 620' , . J' 8) >)' .' 6==/ *0', 1',) *? ' M < 6/, ' L ' T' < 6-9' 012*' D ',) *' 0.>? 1) /6>. ' 8I6. ' 6.>- D*0', 1',) *' 208*//^ T' + ' ' *, >%X' .' 6==/ *0' 6/.1', 1' 6//*2' 625*/. ' M *+% 25' 0 /*? 1 % /6, 1' > % ' & ! ' $ ' '

L1 ℵ' 6 -?.',),6,' 0.?12 6>.'01' 21,';.*',)* -'182' 0 6/*>,' 1-' ,125;*'D;',.),6,' 1',.)*' 06*?12.' 8)1')6+*' *2,*.-*0' 2,1',.)*?℁J' ;>62' .6 .' .,)*' =6, *2,' .'. ^ /*2,'↑.,)*' 06*?12' .-*,;-2.',.)*' 62.8*-',1',.)*' _;*., 12' 6.9*0℁J' =1//12 ;',.);.'600-*..*.'6' 1;.)'.;==1.*0' ,1'D*' =1..*..*0↑ ' '6?',-*6,*0'>12,;?*/1';./'D',.)* 06*?12' 620' 21,'D',.)**J' ℳ>1?=℁ <6,,'+ ' KQ' 620' N↑ <6-9'+'KT' L' KT' ;9*' + 'K 'NKX℁ & ,)'-*^ 56-0',1',.)*' -*_;*2,'?*2, 12' 1'0>*?12 6>.' 2' >-=^ ,;-*',.)-*' ?6 2'1=2 12.')6+*'D**2'..,6-.*0℁ (')1,' 1' ,-6;..'620',.)*' ? ,.)>6/.>)11/'8)>)' ?69*.',.)*' 8)1/*' 6>>1;2,' ?*-*/' . ?D1/>' 8 ,)1;,' D6..'1' 6>,℁ ()*=1..*.. 12' 1',.)*' 0*+/.' .'6>>1-0^ 25',1',.) .' 0*6'12/'6'/+*/' . ?D1/1',.)*=-*+6^ /*2>*' 1'*+/ 2',.)*' 81-/0 l',.)*'>6., 25'1;',1',.)*'0*+/.' D'1;-' 1-0'6'>1--*.=120 25'. ?D1/1')..'>12_;*.,' 1+*-',.)6,'*+/=18*-'D').'01>,-2*'620').'/ *℁ ()..' 21, 12' ..,620.'1-' 6//.'8,)',.)*' ? ,.)>6/,.)*1-'6.'6' 8)1/*d 8,.)'-*56-0',1',.) .'.=*>6/ 1-?'1','.';.;^ >*2,',1'-*?6-9',.)*'=/6 2'. ?=/*'620'=-1.6>'-*/6, 12' 1',.)*' 6>,.'6.'6>,.'8)>)'8)6,*+*-'?5),'D*'>12^ >*+*0'7.'=1.. D/*' 2')5)/'=1*,>'620'6+18*0/' 5;^ -6, +*'=6..65*.'81;/0'?69*',.)*-'6..*-, 12')*-*'21,'6' . ?D1/1-'6' 5;-*'D;','6'/*℁ ,'81;/0'D*'6.'-*6.126^ D/*',1'*L=*>,'6'? ,)'1-'. ?D1/>'6D/*' -1?'(6>,;.' 1-' ();>℀70 0*.' 2',.)*-'6>>1;2,.'1'>12,*?=1-6-')..^ ,1- ℁

K℁ ()*.*>120',.)*1-A' .',.)6,'1;-' 1-0'620',.)*' *+625*/.,..' 2'-*'*--25',1'0.*?12 6>6/ =1..*.. 12' .=19*12/' 2'6>>1?? 106, 12',1',.)*' 5*2*-6/D*/*'1' ,.)*'B*8.'8,)1;'62'6..*-, 12'6.',1',.-;,.)'1-',.' 6/., ℁ ,'.'>12>/;0*0',.)6,'.2>*',.)*'.A22=,1?.'1' ,.)*'6 />,12'8*-*' -*_;*2,/',.)1.*'1'D10/'0.*6.*' M6.'0;?D2*..℁<6,,'L'NKT' D/202*..'<6,,'L 'KKT *=/*=.E7'<6-9'L' CK X'1-',.)1.*'.**2' 2'>6.*.'1' 1-0 26-'2.62,'M6.'2'<6,,'+ 'KQ'1<6-9'+'C XT' .2>*'6/.1',.)*'=)-6.*' ,1')6+*'6'0*+/J'.'>12.,62,/' ;.*0' 2'>122*>, 12'8,.)'620'6.'6==6-*',2,/'*_;+6/*2, ,1' ',1'D*'?60J'M.**'B1)2'+ 'K T' + ' QT' L'K '620' =*-)6=.'<6,,'L' QT' ;9*'+ 'NNXT' 620'.2>*'/6.,/' >6.*.'1'0.*?12 6>6/=1..*.. 12'6-*'21,'9218 2,1'1>>;-' 2'1;-'182'06 .'.)*-*1-*'8*'?;.'.;==1.*',.)6,'1;-' 1-0'.=19*'620',.)*'+625*/.,.'8-1,*' 2'6>>1-062>*' 8,)',.)*'D*/*'1',.)*',?*'620'8,.)'6'+*8',1'D*' >/*6-/''';20*-.,110'*.=*>6//'D',.)*'.;/*-*-.',.)*?^ .*/+*.'D;',.),.)6,',.)*'0.*?12 6>.'8*-*'?*-*/'=*-.12.' .;*-25';20*-';2;.;6/0.*6.*.'1'D10'620'?20℁ &,)'-*56-0',1',.)*1-'6/.1','?;.,'D*'-*?6-9*0' ,)6,'.'01*.'21,'6>>1-0'*,)*-'8,)',.)*'5*2*-6/=-2>^ =/*.'1-'8,)',.)*'=6-,>;/6-'/625;65*'1' >-=,;-*℁ >>1?? 106, 12'.'=1..D/*'8)*2''2',.) 25.'20 *-*2,' /625;65*'.';.*0'8)>)'6/,)1;5)'.>*2, >6// '1-'*,^ ?1/15>6// '26>>;-6,*' *,'>12+*.'6',.-;*'?=-*.^ .12'1-'8)*2''2',.)25.'21,'20 *-*2,'6'0*>/6-6, 12' 1',-;,)'M' 1-℁ 'KX'1-'6'?1-6/68'M<6,,'L L' X' .'5+*2',.-;*'1-'-5),'6.'6-'6.','51*.'D;,'?=*-*>,' D*>6;.*'='),)*' ?=*-*>,' =-15-*..' 1 ,.'-*>=*2,.℁ ;'>*-.6 2/')*-*',)*'?6,,*-'86.'21,'20 *-*2,℁ ()*' 65*' 86.'12*'1'/,,/*' 6 ,)'620'5-*6,'..;=*-.,.12↑ ,.' >)6-6>,*-.,>',)*'6>9218/*05?*2,'1'410'6.'6'0.,62,' /6 8 5 +*-'21,'62' 2.=-*-'1'?*2.')*6-,.℁ ()..':^ =*-.,.12' 2',) 25.'1'6-'/*..?1?*2,'86.'0*21;2>*0' D'1;-' 1-0↑ >62',' D*'.;==1.*0',)6,')*' 81;/0'.62>^ ,12'620',.)*' *+625*/.,.'D*'=*-?.,*0',1'-*>1-0' 1-' *+*-'62'0*6' 2'.*/'6/.*'8)>)')6.'>12..62,/'D***2' ,)*'+*-'.,-125)1/0'1'.;=*-.,.12H℁ 1-'86.',)*' /625;65*';.*0'.;>)'6.'>62')*'=6-6//*/*0'8,)'?*-*' >12+*2,126/*L=-*..12℁ ()*-*' .'21'℁)6-?' 2'1;-' .=*69 25'1'>*-,6 2'1-?.'1'?602*..'6./;26> '21,' ,)*-*'D'?=/ 25',)6,'8*'D*/*+*' ,*'?112',1')6+*'1-' ,1')6+*')60'62'2/;*2>*' ;=12',)*?'1℁℁℁D;' '8*' D*562',1'0*.>-D*',)*'>;-*'1';>)'6.',)*'?112.'>*6.^ 25',1'6/>',)*?'1-' '6'=)A7.>62'8*-*'.1/*?2/',1' 600-*.',)*'?112'D 00 25','6D..,6 2'-1?'2A;-25')..' =6, *2,',)*-*'81;/0'D*')*-*'6'=6..25'1+*-',1'_;,*'6' 0 *-*2,'-*5 12'+℁℁℁,)*-*' 81;/0'D*',)6,'5;/'D*^ ,8**2'1;-',)1;5),.'620'81-0.'2'8)>)',)*'*..*2>*'1'6 ℁'.

/*'>12..,.,℁ 18')-.,'01*.'*+*-A(+)*-*'.=*69'.;>)' /625;65*'6.',) .J'M(-*2>)',' ' 1'=℁ N'8)*-*' ,)*'8)1/*'_;*.,12'.'?1.,'6D/',-*6,*0X℁ 1-'.',)*-*' 2',)*'8)1/*'1',)*' ℁ ,)*'/*6.,' 20>6,12',)6,'62' *>121? J'1',*6>)25'86.'*?=/1 *0'12'6>>1;2,'1' ,)*')6-02*..J'1',)*'B*8.I')*6-,.℁J' 1..*.. 12' 620',.';-*'6-*'-*>1-0*0'=/6 2/'620'. ?=/↑0.*?1C 2 6>.'6-*' -*_;*2,/'0.,25;.)*0'-1?',)1.*'6 />,*0' 8,)'D10/'.>92*..'M.**'<6-9' 'NKT' L+ ' ' QT' ;9*'+' QXT'*+*2',' 81;/0'.**?' -1?',)*'*=/=^ ,>'I O* 1 '<6,,'+'K XT',)*'.6?*'1;,86-0' .52.'6-*'.1?*,?*.'-*'*--*0',1'=1..*.. 12'.1?*,?*.' ?*-*/7',1'0.*6.*'M>1?=℁<6,,'+'K'8,)'L+ ' ↑ <6,,'L 'KK'8,)'<6-9'+ 'NK'*,>℁XT' ,)*'06*?12.' 6-*'-*=-*.*2,*0'6.'.=*69 25'2',)*-*'182'=*-.12.'8,)' .;=*-);?62'9218/*05*'620'6>9218/*05 25'1;-' 1-0' ,1'D*'21,'6.',)*'B*8.'5*2*-6// '>6//*0')?'.12'1' 6+0'D;,' 12'1'410'M<6,,'+ 'KR↑'<6-9'K ↑+' ↑ ;9*'+' '*,>℁X℁ //',)*.*',) 25.'.=*69'1'6'=*-^ .126/=18*-'1'*+/'620' ' 2'62'>6.*',)*'-*'*-',1' 8)6,'8*'?5),'>6//?*-*'0.*6.*',)*'6,'62'-6,*',*// ;.'1'.1?*,)25'2',?1-*,)62'6'?1-D 0'..6,*'1'D10^ /'1-562.'1-'.*/C>6;.*0'0*-625*?*2,'1'?20℁ 1-' 01*.'1;-' 1-0'.=*69'1'06*?12.'6.'=*-.126/.=-,.'1' *+/,1',)*'?;/,,;0*'6/12*'D;,' 2')..'*>-*',>12+*-.6^ 12,'8,)')..'0.>=/*.'0*>/6-25',)*'?627'620'>12^ 0,12.'D'8)>)'=18*-'1+*-',)*?'>1;/0'D*'*L*-> .*0' M<6,,'L+ 'K X℁ (8>*'6/.1')*'0.,2>,/'>122*>,.' 0.*?12 6>6/=1..*..12'8,)',.)*'=18*-'1',)*'*+/12*↑ 12>*' 2' ;9*'L' Q',1',)*'.*+*2, '0.>=/*.'8)*>*' .=*69.'1')..'=18*-'620',)*'-.'1+*-'06A?12 6>.'6.'6' 6// 1' 6,62 '620'656 2' 2'<6,,'L 'K CN℁8)*2')*'86.'6>>;.*0'1'>6.,25'1;,'06*?12.',)-1;5)' **/[*^ D;D'620'2.,*60'1'5+25'62')2,',)6,',)*'=1..*..*0' 8*-*'21,'-*6// '%;20*-'62'0-*>,'620'=*-.126/=18*-' 1'*+/')*';.*.'62'6-5;?*2,'6.',1',)*'0+.12'1'6^ ,62'656 2.',)?.*/'8)>)' '=1..*..12'D*' ;2-*6/' D*>1?*.' 2>122>/;..+*'620'6/?1.,' 2.2>*-*℁ 6../' ,)*'.25/*'6>,'-*>1-0*0'1',)*'*2,-62>*'1',)*'06*?12.' 6,'4606-6'M<6-9'+' C X'2,1',)*)*-0'1'.8 2*'620' ,)*' * *>,'8)>)',)6,'*2,-62>*'>6;.*0'.'.; >*2,',1' 1+*-,)-18',)*'21,12',)6,'1;-' 1-0'620',)*'+6625*/^ .,.'01'21,'6..*-,'1-' ? / '62'1DA*>,+*'-*6/, '1'=1.^ .*.. 12℁ 2',)*'6>*'1',).'?6..'1'*+0*2>*',.**?.' 0 >;/,',1'>12>*+*')18',)*',)*1-'>62'D*'-*>12>/*0' 8,)'62 ,) 25'/9*',-;,.)'1' >-=,;-*℁ ;,'D*.0*.',) .',?;.,D*'600*0',)6,',1'.6'1'6' >6.*',)6,',.'12*'1'0..*6.*'1-'2.62, '5+*.'21'-*6/ *L=/626, 12'1',',6,'6//↑ ,'?*-*/'-*'*-.',,1'6'>/6..' 1'>6.*.'8)>)'8*'9218',1'*L.,'D;,'5+*.'21'62.8*-' ,1',)*' ;-,)*-'_;*., 12')18'0'0',)*'0.*6.*'1-'2.62, ' 6-.*'H +*2''2'0.*6.*'8)*2*+*-',)*'?20'6>,.';=12' ,)*'D10'M6.'*℁5℁2'2*-+1;.'0.1-0*-.'*=/*=.'*',℁X' ,)*'?*-*'0*-625*?*2,'1',)*'=)..>6/1-562.',21,' ,)*'8)1/*'>6;.*'1',)*'+ /↑,)*-*'.'6'0**=*-'12*'/^ 25'2',)*'?20℁ 2.62, '?6'20**0'6-.*'2'.*?*' >6.*.'-1?',)*'=) .>6/2A;-'1-'0*-625*?*2,'1' ,)1.*'D10/'1-562.',)-1;5)'8)>)',)*'?20'*L*->.*.' ,'=18*-.'D;,'6-'1,*2*-',6==*6-.',1'D*'0;*',1'?*,^ 6=) .>6/>6;.*.'6>,25',=12'620'0.1-0*-25',)*'?20' ,**/℁ 2'6//>6.*.'8)*-*',)*'+/!*.'21,'2',)*'D10' D;,'2',)*'?20',1'>6//,'12/'7*6.*'1-'2.62, J' .'?*-*/',1',.6,*',)*'6>,'1',)*'0.1-0*-'620'5+*';=' 6//*L=/626, 12'1',.'>6;.*℁ .'.'62'6.,;?=,12',)*-*1-*'8)>)'-*_;-*.'=-11',)6,'6?0',)*'?62' 2*L=/>6D/*'=)*21?*26'1'?*2,6/620'=) .>6/0.^ *6.*'2'1;-'182'06 .',)*-*'6-*'212*'2'8)>)'12*' 5,*0'8,)' 0.>*-2?*2,'1'.=-,.J'?5),'.**.52.' 1'8)6,',)*' >-=,;-*'>6//.''=1..*..12℁J ()*',-;,)'.0.)6,')*+*'.1?*-'2.,62>*.' ,)*' D/*'8,)1;,'>12,-60>,25'1-0 26-'*L=*-.*2>*' *,'60+62>*.',1'6'-*5 12'8)*-*');?62'.>*2>*'>6221-' 1//18℁ .'5*2*-6// ' ,'>122*>,.',)*'*L.,*2>*'1' ?*2,6/620'D10/'.;*-25'2',)*'81-/0'8,)',)*'2^ ,-10;>,12'1'?1-6/>1--;=,12 ID',)*' 6// '620'-*'*-.' ,)*'=18*-'1'?1-6/*+/,1'6'.=-,;6/620'=*-.126/ .1;->*'.1'6/.1',.6..*-,.',)*'*L.,*2>*'1'2*-1-'.=-CC

,.' 1 ' *+ /' 620' ,' -* *-.' >*-,6 2' >6.*.' 1 ' D10 7' 620' ?*2,6/ 0 .*6.*',1',)*' 2 /;*2>*' 8) >)',)* '6-*'=*-? ,^ ,*0' ,1' *L*-> .*' 0 -*>,/ ' 1+*-' ,)*' .1;/ 620' 20 -*>,/ ' 1+*-',)*' D10 %I' 2*L=/ >6D/*',1' ;.' ,) .' 2 /;*2>*' >*-^ ,6 2/ ' .'6.'6//6>, 12' 1 '.= - ,'12' .= - ,' .' 1;20',1'D*†D;,' 21' 12*' >62' =-121;2>*' '% ' 8)*,)*- ,'D*' ?^ =1.. D/*' 1-' ?=-1D6D/*' 620' 21' 12*')6.'6' - 5),',1'*+ .^ >*-6,*',)*' .,-125'*L=-*.. 12.' 1 ' >- =,;-*' 2' 1-0*-',1' -*0;>*' ,.' 0*>/6-6, 12.',1' 6' /*+*/ & ,)' 1;-' 182' 521^ -62>*%%' **' F N' & *' 6-*' /*0',)*-* 1-* ',1',)*' 1-0 26- '620' /,*-6/?= -*% '0*5-**.',)*' ?*2, 12' .' /*.-' 620' /*..' -*^ 2,*-=-*,6, 12' 1 ',)*.*' =6..65*.',)6,',)*-*' 6-*' *+ /' .= - ,.' M.**' 3' .;DA*>,.' 1',)*' + /' 2*' 8)1' 2',)7' 06 .' 1 ',)*' 1-0') ?.*/' 620') .' 6=1.,/*.' *.^ =*> 6//' 8*-*' =*-? ,,*0' D ' 410',1' *L*-> .*' 6' 0 -*>,' 2 /;*2>*' 1+*-',)*' .1;/.' 620' D10 *.' 1 ' >*-,6 2' ?*2% ( ) .' 2 /;*2>*' .' >/*6-/ '0 ., 25; .)*0' -1?',)*' 1-0 ^ 26- ' =18*-' 1 ' >1--;=, 12' 620',*?=,6, 12' 8 *0*0' D ' 6,62',)-1;5)',)*' =*-? .. 12' 1 ' 410% ,.' -*/6, 12',1' ,' 20**0 ' 6==*6-.',1' D*' *L6>,/ ',)6,' 1 '6' ? -6>/*',1' 410 .' 1-0 26- ' -1+ 0*2>*' 1-' 1 '.=*> 6/'=-1=)*,>' 2^ .= -6, 12',1',)*' 1-0 26- ' 5 ,.' 1 ',)*' : 1/ ' = - ,% 1,)'M,),6,' .X' 6-*' 6>,;6,*0'D ',)*' .6?*' 5*2*-6/'=- 2^ > =/*.' 620',*20',1',)*' .6?*' 5*2*-6/'1DA*>,†D;,',)*' 1-?*-' .' 6' .=*> 6/'620' 0 -*>,' ?62 *..6, 12' 1 ',)6,' 8) >)' .' 81-9*0'1;,' 2',)*' /6,,*-'D '6'/125'>1?7*' 1 ' 20 -*>,'6>, 12% ()*' 0 ., 25; .) 25' 6' .' 6

by Kimchi, and is admitted by most modern scholars. It is also supported by the analogies of other fish deities among the Syro-Arabians (see Herod. ii, 72; Ælian, *Anim.* x, 46; xii, 2; Xenoph. *Anab.* i, 4, 9; Strabo, xvii, 812; Diod. Sic. ii, 4; Cicero, *Nat. Deor.* iii, 15; comp. Münter, *Rel. d. Karth.* p. 102; Movers, *Phöniz.* p. 491 sq.; Creuzer, *Symbol.* ii, 78 sq.). Besides the ATERGATIS (q. v.) of the Syrians (which was the female counterpart of Dagon), the Babylonians had a tradition, according to Berosus (Berosi *Quæ supersunt*, ed. Richter, p. 48, 54), that at the very beginning of their history an extraordinary being, called *Oannes*, having the entire body of a fish, but the head, hands, feet, and voice of a man, emerged from the Erythræan Sea, appeared in Babylonia, and taught the rude inhabitants the use of letters, arts, religion, law, and agriculture; that, after long intervals between, other similar beings appeared and communicated the same precious lore in detail, and that the last of these was called *Odakon* (Ὡδάκων). Selden is persuaded that this Odakon is the Philistine god Dagon (*De Diis Syris*, p. 265), a conclusion in which Niebuhr coincides (*Gesch. Assurs*, p. 477), but from which Rawlinson dissents (*Herod.* i, 482). The resemblance between Dagon and Atergatis (q. d. אַדִּיר and דָּג, *great fish*) or Derketo (which is but an abbreviation of the last name) is so great in other respects that Selden accounts for the only important difference between them—that of sex—by referring to the androgynous nature of many heathen gods. It is certain, however, that the Hebrew text, the Sept., and Philo Byblius (in Euseb. *Præp. Ev.* i, 10) make Dagon masculine (ὁ Δαγών). The fish-like form was a natural emblem of fruitfulness, and as such was likely to be adopted by seafaring tribes in

Representation of a Fish-god.—From the Assyrian Monuments at Khorsabad.

Fish-god on Gems in British Museum.

the representation of their gods. (See Götze, *Dissert. de ἰχθυολατρείᾳ*, Lips. 1723.)

The most famous temples of Dagon were at Gaza (Judg. xvi, 21-30) and Ashdod (1 Sam. v, 5, 6; 1 Chron. x, 10). The former was employed as a theatre (see Faber, *Archäol.* i, 444, 436), and was once overthrown by Samson (Judg. xvi). The latter temple was destroyed by Jonathan in the Maccabæan wars (1 Macc. x, 84; xi, 4; Josephus, *Ant.* xiii, 4, 5). There would also seem to have been a third in the vicinity of Jericho, which was demolished by Ptolemy (Joseph. *War*, i, 2, 3); and the site of which Schwarz claims (*Palest.* p. 163) to have discovered in a stream still bearing the name of *Duga*, or fish-river: it is but a relic of the ancient *Doch*, or DOCUS (q. v.). Traces of the worship of Dagon likewise appear in the names Caphar-Dagon (near Jamnia), and Beth-Dagon in Judah (Josh. xv, 41), and Asher (Josh. xix, 27). See BETH-DAGON.

Besides the female figure of Atergates, there have lately been discovered among the Assyrian ruins (Botta, pl. 32-35) figures of a male fish-god, not only of the forms given above (Layard, *Nineveh*, ii, 353), but occasionally with a human form and feet, the fish only covering the back like a cloak (Layard, *Babylon*, p. 361). Colonel Rawlinson has also deciphered the name *dagon* on the cuneiform inscriptions (q. v.). See Roser, *De Dagone*, in Ugolini, *Thesaur.* xxiii; Sharpe in Bonomi's *Nineveh*, 3d ed. p. 169.

Figure of Fish-god at entrance of a small Temple, Nimroud.

DAGON'S HOUSE (1 Sam. v, 5), or *the* HOUSE (1 Sam. v, 2) or TEMPLE OF DAGON (1 Chron. x, 10), בֵּית־דָּגוֹן, i. e. *Beth-Dagon*, as it is elsewhere rendered (Josh. xv, 41; xix, 27; so Βηθδαγών, 1 Macc. x, 83), or the sanctuary of Dagon, the god of the Philistines, mentioned in Judg. xvi, 23, and other places. See this etymology defended against the older one (which Fürst retains, *Heb. Lex.* p. 286) in Gesenius, *Monument. Phæn.* p. 387, and *Thesaur.* p. 204. In the first two (and possibly also the third) of the above passages, the temple of Dagon, situated in or near Ashdod (as stated under the foregoing article DAGON), is evidently intended; the other collocations of these words [see BETH-] require a fuller elucidation than could well be given in the article BETH-DAGON (q. v.).

1. BETH-DAGON, in Josh. xv, 41, was one of the second group of "sixteen cities with their villages," which the sacred writer places in *the lowlands* (שְׁפֵלָה) of the tribe of Judah, apparently on the actual plain which stretches westward towards the Philistine coast from "the hill country" so often mentioned. This does not (as in Reland, *Palæstina*, p. 636) designate a *Gederoth-bethdagon*, as the name Gederoth occurs *alone* in 2 Chron. xxviii, 18, with the same description as it has in this place, as one of the cities of the lowlands of Judah. Gesenius and Fürst identify this Beth-dagon with the Caphar-dagon, which in the time of Eusebius was a very large village (κώμη μεγίστη, inter Jamniam et Diospolin) in the neighborhood of Joppa; but modern research has shown that this latter place, of which still remain some traces in *Beit-Dejan*, a village between Yâfa and Ludd, is considerably above the northern boundary of Judah. Our Beth-dagon, indeed, no longer exists by the same name (Van de Velde's *Map of Palestine* and *Memoir*, p. 294). The same must be said of

2. BETH-DAGON, mentioned in Josh. xix, 27, as one of the *border* cities of the tribe of Asher. Though, however, no modern landmark points out the site of

,) .' 21-,)' *,)C067127 ,' .' 21,' 0 >;/,' ,1' 0 .>1+*-' -1?',)*'=-*> .*',1=15-6=) >6/ .,6,* ? *2,' 1 ',)*' .6>-*0' 8-.*-',)6,',) .' > , ' 86.' . ,;6,*0' 6,',)*' =1 2,' 8)*-*' ,)*' D1; 206- C/ ? *' 1 ',)*',- D*' 6 ,*-'>-1.. 25',)*' - 05*' .1;,)' 1 ',)*' =-1 ? 12,1- ' 1 ' 6-? *// ,186-0.',)*' *6.,' 2,*-.*>,.',)*' .,-*6 ? ' 1 ',)*' .)12' 12',)*' >12 2*.' 1 'U*D;/12' ,' .'-* ? 6-96D/*',)6,' 6.',)*-*' .' 6' ? 10^ *-2' ; =' * ' 2',)*' .1;,)' 8)>)' *,'>6221,'D*' 0*2^ , *0' 8 ,)' D ;,' .' 6-',1',)*' 21-,)C8*.,'1 ',)*' .1;,)*-2' *,)C06512' .1',)*-*' .' ., // ' 2',)*' >*2,-6/ 0 .,- >,' 1 ' ,)*' : 1/ ' 620' 6' .*>120' ; =' * 1' 8)>)' .'*_;6// ' 0 *.;6,*' 0*.>'-*0' 6;' ,1' 8)>)' .'*+ //65*' .' 12/ ' 12*' 06 .' ? 6->)' -1?' B /D1; ',)*' /1>6/ , ' 2',)*' ? 1;2,6 2',1',)*' 21-,)C*6.,' 1 'B*2 2 ' 8)>)' 86.' ;2_;*., 126D/ ',)*' .>*2*' 1 ' 6;/ .' 0 .6.,*-J'I ' 'V **-' ' X ') .'>12A*>,;-*'D*- 5),' 8*' ? ;.,' 20 >6,*',) .' 6.',)*' 7 S!' 8 '4$ ' 1 ' ')-12'L ' 'M *=,' '& =' ,1') .' 5 " ' $ ' +' S' . _' 6 /*' ' ' .' + ' 1* *-' 7 !' ; !' ? ' L ' R % // ' **' ! 6 / ' 1>>;-.' 2',)*' 25/' +*-. 12' 1 ' 1;-' 1-0 .' -6 *-' 6.',)*' -*20*- 25' 1 ' -- ' M < 6,,' + ' T ;9*' L ' NX' 8)>)' / ,*-6// ' ' ' h' ' 6.' ,' =-1D6D/ ' .)1;/0')6+*' D**2',-62./6,*O% ()*' .6 ? *' 4-**9' 81-0' 1>>;-.' 218)*-*' */.*' 6/,)1;5)' .*+*-6/' : *D% 620' 4-**9' 81-0.' 6-*' ,A7;.',-62./6,*0' 2' 1,)*-' =6..65*.% 1262,')18*+*-' I5 ' N *1 ' % QS ' =% N X' ? 6 2,6 2.',)*' >1--*>,2*..' 1 ',)*' ;,)% *-.%' 6.' 01*.' 6/.1' >)6 ' M 2' 625* .' " ' =% K X% ;,',) .' 2+1/+*.' 6' =6/=6D/*' ,6;^ ,1/15 % **' #!' (-*6, .*.' 12',)*' =)-6.*' 06 / ' D-*60J')6+*' D**2' 8-,,*2' 2' 6, 2' D ' ->) ? 6 *-' M C ,*D% X' 1-,)1/,' M /% S X' ,1/D*-5' M ,*D% SQQX' * *-' M *5 1 ? % SQRX' U1 ? ' I , % ! ' S C NX% **') '+ # ! 4' 1-' ' ' M (' " ' ' .' B1.*=);.' ") * ' " 1 O(!O)-% ' O % ' '+ ' K I X' 2' 62 */ M+ ' K' ._ %' L ' N ' L ' X 620',)*' (6/? ;0' M. ? =/ ' ,)*' >12, 2;6/ J' ' * 8' 86.' 6' D;-2,C1 *- 25' 1 ',81' *6-C1/0'/6 ? D.' 8)>)' 8*-*' 06 / ' ? ? 1/6,*0' 2',)*' 26 ? *' 1 ',)*' 8)1/*' .-6*/ , .)' =*1=/*' I)' - ' $ *% ' O % ' B1.*=) % & !' ' X' ;=12',)*' 5-*6,' 6/,6-' ,)*' -.,'/6 ? D' *6-/ ' M6.' .112' 6.' ,' D*>6 ? *' / 5),' < .)26' - ' K' 21' -*/ 62>*' .',1' D*' =/6>*0' ;=12' U1-2 .',-*6, .*' ' ' %%!' '* ' ' %!' 6 !' ' 2',)*' !' % !' 7 !' ' ' .' %X',)*' 1,)*-' M 7KH' ,)*' *+*2 25' 1D/6^ , 12 J' 62% L ' K X' 6,' *+*2 25' M ? 1-*' 0* 2 ,*/ ' " ' ' ' \.*' ' ;9' 6>>1-0 25',1' "'+' ',)*' *+*C1 *- 25' 86.' .6>- ^ >*0' 6.' 6' -;/*' D*,8**2',)*' * 5),DC620C6C)6/ '620',)*' 2 2,)C620C6C)6/ ')1;-' \K7',1' NB' 1 >/1>9' 7 <%h' D ;,' 12' 6DD6,)C*+*' 620' 6..1+*-C*+*' \ ,)' .62h' 12*')1;-' *6-/ *-' B1.*=);.' & !' L + ' ' N ' 0*. 526,*.' 6D1 /,')*' 2 2,)')1;-J' 6.',)*' , ? *' >1 ? =% ')18*+*,' B126C ,262 .' - ' 4*2% L/ L ' K % () .' 86.',)*' ;.;6/ ,*-? 26, 12' 1 '6' 6.,'_O+%N' 62% L ' K ' >,.' ' ' d ' N ' N X' *6>)' 8 ,)' 12*',*2,)' 1 '62' *=)6,' 1 ' 2*8)*6,!' *2' /1;-' 6.' 6' ? *6,' 1 *- 25' 620' 6' _;6-,*-' 1 '6' D 2' 1 ' 8 2*' 6.' Y 0- 29' 1 *- 25' M L10% LL L ' NQC K' ;=% LL+ ' NCQ' [-6' ' X% ,' 86.' 21,' .;=*-.*0*0' D ' ,)*' 6DD6,)' 1-' *.,+6/' 1 *- 25.' M ;? ' Ld+ ' R' ._% ' S ._ %' 21,' *+*2' D ',)1.7' 1 ',)*' 6..1+*-' " ' + X% ()*' -*5;/6, 12.' >12>*-2 25',)*' =-*=6-6, 12' 1

620',')6.' D**2' -*?6-9*0' 1 ') ?',)6,')*' D60' 6/ ,)*' */1_;*2>*' 1 ' 6;- ;' 8 ,)1;,' 62 ' 6==-16>)',1',) .',;-^ 5 0' 620' D1?D6.,>'., /*% ()*' 81-9' D ' 8)>)' 6 //*' .' D*.',92182' .' D .',-*6, .*' ' ' 5 ' 6' 81-9' 0*. 52*0',1'>)*>9'1-' ?10*-6,*',)*' *L>*.. +*'-*+*-*2>*' 8)>)' .' */,' 2' ?62 '_;6-,*-.' 1-',)*' 8-.,*-.' 1 '*>>/*^ . 6.,>6/ 62, _;, ,' -*20*-*0' 62' ?=1-,62,'.*-+ >*' ,1',)*' -1,*.,12,'>6;.*' 2') .' 182' >1;2,-' 620', ?*.' 620' ?6 ' ., // D*' >12.;/,*0' 8 ,)' 5-*6,' 60+62,65*%J' ,' 86.' =;D/ .)*0' 2' SNK' 2' 6, 2' 2' SNS' M4*2*+% 8-, 1X' 620' 6' ,-62./6, 12' 2,1' 25/ .)' 2' S ;20*-' ,)*' , /*' 1 '&' - 2 ' " ' " ' 2 ' ' " ' @ " ' ' " ' ' ' ' ' " ' ' ' 5 ' M2*8' *0% D 'B*9 //' 120% Q K?1' ?*-% *0%) /6% Q K' K?1X% & *')6+*',-62./6, 12.' 6/.1' 1 ' E (6 % ' ' " ' D %)*-?62 ' M 120% Q I' ?=% Q+1X' 6 % ' ' 1' " ')*-?62' M 120% Q ' ?=% Q+1X% ?125') .' 1,)*-' 8-, 25.' 6-*' ' ' ' $ " ' " ' M ?.,% ,1X' ' ' ' ' ' ' ' ' ' ' ' ' ' ' MQ+1X' ' ' 2 ' ' ! ' M4*2*+% S R' ,1X' ' ' & ' M4*2*+' SS ' ,1X' ' ' =' % %" '&% ' M S Q' Q+1X' 620' K ' +1/;?*.' 1 ' .*-?12.% ' ' **' : 665 ' '@ ' ' +' Q ' >)' ; ! ' ' .% + % ' ' ' =-* L*0' ,1') .' 5 " ' 2 ' ' " ' @ " :')6.*' 2' ; " ' $ ' + ' S' . _' 6 /*' ' ' .% + % ' : 1* *-' 7 !' ; !' ? ' L ' R %

,)*' =- *.,.' 1-' ,) .' 622 ; 6/ -*/ 5 1 ; .' .*-+ >*' ,)*7$1,(' ?*2,' 1 ',)*' .*+*-6/' 1=*-6, 12. ' 620' ,)*' - ,.; 6/' 1 ',)*' .6>- >*' ,..*/ ' 8*-*' *+*2,.; 6// '=-*.>- D*0' 2',)*' ,-6>,' - '< .)26'+' X' 8) >) 9*2') 6.' //;.,-6,*0' 8 ,)' *-;0 ,*' *L=/626, 12' -*?NS'620' 2' $51/ 2' -+ 668-L L X' 1 >1?='6/.1' 1.>62' ' ' $ ' 1' 7 =. QX 2',)*' /6.,X (*?=/*',)*-*' 86.' 6'/6?DC' 6=6-,?*2,' 2',)*' 21-.,)C8*.,'>1?*-' 1-',)*' .=*> 6/=;-^ =1.*' 1 ',) .' 1 *- 25'>- 1' 'NX ' & 2*-' 5 ' ' ** !

V(' ' 1-' + # f' 2',)*' 62> *2,');->) '8)*-*+*-' ,' 86.' =-6>, >6D/*' 06 / '.*-+ >*' 86.' *..6D/ .)*0'6,'8) >)'*+*- '>/*-5 ?62'86.'>1?=*//*0',1' 6,,*20' ;20*-'=6 2'1 '.;.=*2. 12'1-'0*=- +6, 12'8)*,)^ *-' ,' 86.') .'0;, ',1'1 >6,*' 1-' 21, () .' .;DA*>,' ' 0*,*-? 2*0'D '.*+*-6/>1;2> /.'D ',)*' -.,'>1;2> / 1' (1/*01' 620' D ',$6,' 1' 50*d ,)*' /68' 1 'B;., 2 62' =;2 .)*.',)*' 2*5/*>,'1 ',) .'0;, '8 ,)'0*5-606, 12 'D*^ >6;.*' 1 ',)*' .>6206/ ,' 5 +*.',1',)*' /6 , 2' .1?*' >);->)*.'6'06 / '>*/*D-6, 12'1 ',)*' 1-0 .' ;==*-'.**?.' ,1')6+*' D2'-*>1? ?*20*0'620',1' .1?*' *L,*2,'=-6>^ ,>*0 ()*-*' 6-*' 1;20',*., ?12 *.'12',) .'.;DA*>,' 2' (*-,;// 62' =-62'6)0' -*2.*;.T ,)*' /6.,' 1' 8)1?' .6 .' ' ,' .',)*' 8 //'1 '1;-' 1-0',)6,' 8*' .)1;/0' ?69*' 1;-'1 *-25'6,') .'6/,6-' -*_;*2,/ '620' 8 ,)1;,' 2,*-^ ? .. 12LJ ;',)*-*' 86.'21' L*0'620'*L=-*..'-;/*' 6.' ,1',)*', ?*' 1 '>*/*D-6, 12 ()*'-;D->'1 ',)*');->)' 1 ' 25/620'0*>/6-*.',)6,'6//C77=- *.,.' 620'0*6>12.'6-*' ,1' .6 '06 / ',)*' ?1-2 25'620'*+*2 25'=-6 *-' *,)*-' =- +6,*/ '1-'1=*2/ '21,'D* 25'/*,'D ' .>92*..'1-'.1?*' 1,)*-';-5*2,'>6;.*' 20',)*' >;-6,*',)6,'?2.,*-*,)' 2'*+* '=6-.)'>);->)'1-'>)6=*/'D* 25'6,')1?*'620' 21,'D* 25'1,)*-8 .*'-*6.126D/ ') 20*-*0'.)6// .6',)*' .6?*' 2',)*' =6-.)'>);->)'1-'>)6=*/ 8)*-*')*' ? 2 .^ ,*-*,)'620'.)6// >6;.*' 6'D*//',1'ID*',1//*0',)*-*;2,1'6' >12+*2 *2,',?WD*' 1-*')*' D*5 2',)6,',)*' =*1=/*' ?6' >1?*F,1')*6-' 10 .' 81-0'620',1'=-6 '8 ,)') ?%J ;' ,) .'-;/*' .'218'6'0*60'/*,,*-% = "1' -* 6>*' 25)6?' , ' f'6 'D9'+' >)6=' 'g' ST' -1>,*-' , ' 1'=N C R %

6 ? D*-,'1-' 651D*-, ',)*' -.,' 6, 2'=6,- 6->)' 1 'B*-;.6/*?' &) /*)*' 86.' D .)1=' 1' .6'=1=*' $-^ D62' '>12 *--*0';=12') ?',)*' .1+*-* 52, '1' 1- .>6 1-'62'622;6/',- D;,*'1' ,'/+-*.'620'6==1 2,*0') ?' =6=6/'/*56,*' 2',)*' 6.,' 2' 1+ R ' 6 ?D*-,'86.' =-*.*.*2,'6,',)*' 1;2>/ 1' /*-?12,' 8)*2' $-D62' '=-*6>)*0' -.,'>-;.60*' 620')*' A1 2*0',)*' >-;.60*' 6,',)*')*60' 1',-11=.' -1?' .6' 620' 4*216C &)*2' 6 ?D*-,'6-- +*0' 2' 6/*., 2*' 410 -* ' 1' 1; //12' 86.'6/-*60A7?6.,*-'1 'B*-;.6/*?' ,'6'5*2*-6/'?**,^ 25'1',)*')- ., 62' >) * .')*/0'12')- .,?6.' RR' 6 ?D*-,' 86.' */*>,*0'=6,- 6->)' 1 'B*-;.6/*?' 2',)*' =/6>*' 1 '12*' ?;/=);.' 8)1' 86.' 0*=1.*0 410 -* ')60',1'/*6+*,1' 6 ?D*-,',)*' .1+*-* 52, '1 'B6 6'620' 1',)6,'_;6-,*-' 1 'B*-;.6/*?' 2' 8)>)',)*');->)' 1' ,)*' *.';--*>, 12' 86.' . ,;6,*0 2',)*' 0*6,)' 1 '410^ -* ' 6 ?D*-,'6.= -*0',1',)*',)-12*' 1 'B*-;.6/*?'D;,' 26// ')60',1'A0*/0',1' 6/08 2'620',1'>-182',)*' 2*8' 9 25 6// 25' 1;,'8 ,)' 6/08 2')*' 86.' *L=*//*0'D' ,)*/6,,*-'620' ?;/=);.'-*,;-2*0',1',)*' =6,- 6->)6,*' 6 ?D*-,'8*2,',1' ,6/ '620'=-*+6 /*0';=12'=1=*' 6.^ >6/ ',1'0*>0*' 2').' 6+1-' :*' 2,*20*0',1'-*,;-2' ,1'B*-;.6/*?'620',1'*2 1->*' ,)*' =6=6/0*>.12'D;,' 0*0'12') .'86 '6,' 6/*-?1' 2' %' :1* *-';= " '? = 1'L ' RK%

6 7.62'>& '+%-% >,-1+' ;/5% ' 1',)*')*60' 1'12*' 1 ',)*' 6? /*.' 1',*?=/*C.*-+62,.',)6,' -*,;-2*0' -1?' 6D /12' M' .0-%+N XT' *+ 0*2,/ '6' >1--;=, 12' M'' D* 25' ? .,69*2' 1-' I X' 1-',)*' - M_%' %X' 1',)*' :*D',*L,.'M [-6' QT' *)'+ 'S X%

6 6)%' ** $ $!

6/6 6D'M')-12% 'K X',)*' .6?*' 26?*' */.*^ 8)*-*'?1-*'>1--*>,/ ' 25/ > [*0' ''M_%+%X%

6/D*-5' 1 'O' 'D6-12' 1' 6/D*-5' 86.

D1?' *D% Q' ' 6,' :*?.)*?'I'2*6-' & 1-?.T)*' .;0*0'6,'41,, 25*2'620' :*0*/D*-5T D*>6?*' 8)/*' *,'+*-' 1;25'=-*D*206- '1' <6 *2>*'620'>6212'1' &1-?.'620' & ;-[D;-5% 2' K'6.'51+*-21-' 1' 7' ;-,')*'56+*'6'5-*6,' ?=;/.*',1'65- >;/,;-*'>1?7*->*' 620' 20;., % 2' Q')*' D*>6?*' >160A;,1-' 1',)*' */*>,1-' 1' <6 *2>*' 620',)*' D .)1=' 1' & 1-?.T 86.' 21%0*' D .)1=' 1' 12..62>*' 2' QQ'620'.112'6.,*-'6->)^ D .)1=' 1'(6-.;.% ()*'/6.,'*/*>,1-'1'<6 *2>*'0*0' 2' Q K'620'6.'D',)*',-*6, '1' ;2*+ //*',)*'*/*>,1-6,*' 1' <6 *2>*'12',)*'12*'. 0*'1',)*) 2*')60'D**2'6D1/^ .)*0'620'12',)*' 1,)*-' .*>;/6- 6/D*-5'D*>6?*' 6->)C>)62>*//1-'8)>)'=1.,12')*'/)*/0'8,,)'5-*6,'>-*0^ ,T' D;,'D' .;==-*.. 25',)*' >12+*2,.')*' 2>;--*0',)*')6,-*0'1',)*'>/*-5A7'620'D'. ?=6,) '1-' -62>*',)6,' 1'4*-?62 2' Q')*' 86.'=-*.*2,'6,',)*' >1-126^ , 12'1',)*'*?=*-1-'6, 6- &)*2',)*' >12 *0*-6> ' 1',)*')2*' 86.' 1-?*0')*')60',1'-*. 52' .'1 >*' D;,' 2'*L>)625*'86.'?60*'=- 2>*C=- ?6,*'1',)*'>12^ *0*-6> '620'86.' 6=1/*12.'60+.*-' 2'.= - ,;6/620' *>>/*. 6., >6/?6,,*-.% :*'6 ,*-86-0.'D*>6?*'5-620C 0;9*'1' -629 1-,'620'6==1 2,*0' ;5*2*' *6;)6?6.' 6.')..';>>*..1-% 2' Q N)*'-*21;2>*0')., ,/*'8*2,' 7 -.,',1' 12..62>*'8)*-*')*'=-1,*>,*0',)*' +>6-'5*2^ *-6/&*..*2D*-5'-1?',)*'*2? ,'1',)*'=1=*'620'6^ ,*-86-0.'-*,;-2*0',1' *5*2.D;-5'8)*-*')*/+*0' 2' -*,-*?*2,'12'6'=*2. 12'1' '/1-2.'620'0*0' D% Q % :.'=-2> =6/81-9.' - (; + ! !' 2 'M -629 % T S,)'*0% Q RXT' N " = ' / " ' 'W ' M -629 % QSXT ? / '*6 + +'M -% R XT' N ' !' ; ' ' !' ? ' !' " 'M -% RNXT' ; +=' ' ' !' " + ') ' !' ? ! M -;-,' Q SXT' + 'M 1?*' Q X% **' -6?*-'? " = " ' ')!' ' ' 'M41,)6' Q X% ' :1*/*-'7 !';=' 1' ? 1'L 'Q K%

6/*'(:'1 ' IHH' ' '+'+ 8 ,)*' 26?*' 1'6'+6//*'6==6-*2,/'2*6-',)*' *60' *6' 8)*-*'<*/>) [*0*9'?*,' D-6)6?'M4*2%L+' XT' 1,)^ *-8 .*'>6//*0' "'N ' '$" "'M %+%X' D;,' 0*2, ^ *0'" '.1?*'8 ,)'621,)*-'1',)*'.6?*'26?*'M,)*' ?10^ *?' 6//*'1'B*)1.)6=)6,'1-'-6,)*-' ,.' .1;,)*-2' =6-,'1=*2 25' 2,1',)*'=/1,';.*0' 1-',)*'9 25.'56-0*2' 6D1;,',)*'8*//1'81D'620',)*'=11/1' /16?X' 2'8)>)' D.6/1?'-*6-*0').' 6? /'?12;?*2,'MK' 6?%L+ 'I' QX% ** 6'O !

6/*'1-' $' 86.'D1-2' 1,% Q SNQ' 2':66-/*?% :*' 86.'D-1;5),' ;=' 'D;.2*..' 656 2.,')..'8 //% ,',)*'65*'1',)-, ')*' 6==/*0') ?^ .*/',1',)*'.,;0'1',)*'62> *2,'/625;65*.'620'6,',)*' .6?*',?*,1',)6,'1'?*0>2*% :*'D*>6?*'6'=-6>,.^ 25'=) .>62'620'6,,6 2*0'0.,2>,12'2').'=-1*.^ .12% :.' 6 ,) ;/620'0.2,*-*.,*0'6,,*2, 12',1').' =11-'=6, *2,.'.*>;-*0') ?') 5,'=-6.*% :*'6/.1'*L*-^ >.*0'1-'6',?*') .'=-*6>) 25'5 ,'6?125',)*'<*2212C ,*.T D;,') .'.*-?12.'8*-*'1+*-/160*0'8 ,)'/*6-2*0' >,6, 12.' 620')*2>*' 8*-*')6-0/ ' 6>>*=,6D/*' ,1',)*' =*1=/*% :.' ;-1=*62' -*=;,6, 12'-*.,.'1)18*+*-'12' ,)*'/*6-2*0'81-9.'8)>)')*'8-1,*'656 2.,'8)6,')* -*56-0*0'6.'.;=*-.,,12% 2' SQN')*' =;D/./*0' ' ' 6 " ' ' ' 1'4 ' ' ' % ' ' ' % ' ' ' 'M ?.,% Q+1X% 2',)*' 81-9')*' >1?D6,*0' ,)*' 1= 2 12',)6,'0*?12 6>' 2/;*2>*'86.'*L*-,*0' 2' >122*>,12' 8 ,)',)*' 1-6>/*.'1',)*' 62> *2,.'620',/7k' .1->*-' .',1' D*' 6.>-D*0',1' 6,62% ()*' 81-9'=-1^ 0;>*0'6'5-*6,'.*2.6,12% 12,*2*//*'?60*' -**';.*'1' ,' 2',)*' >1?=1.,12'1')..' ' ' 'M 6-.' K?1X% :*'8-1,*'.*+*-6/1,)*-'8A-9.'2' 6, 2' 620'12*' 2').'26,+*',125;*'12',)*'.6?*'.;DA*>,'0.^ >-*0,25'D*/*' 2' 6,62 >' 65*2> ' *.=*> 6// '8)*2' 6==/*0',1',)*' 2,*-=-*,6,12'1' >-=,;-*% :*'6/.1' =;D/.)*0'6' ' % ' & ' ' OO' % 1' '8,)'6').,1-'1'>*-*?12*.'1'D6=,.?'6?125',)*' B*8.'620'6?125',)*'+6-1;.')-.,62'>1??;2 12.' M ?.,% ' ,1X' :*'0*0' 1+'KQ Q'0**=/'/6C

?*2,*0% %' /*- 07.' ('%B62..12 ; .' 620' -1 % < 1-;.' 8*-*' 6?125') .' - *20.%

6/*, ,*. ' 1//18*-.' 1 ' 6+ 0' 6/*' =6.,1-' 1 '62' 20*=*20*2,' >125-*56, 12' 6,' 4/6.518% 2>*' ,)*' 0*6,)' 1 ' <-% 6/*' ,)* ')6+*' 1-?*0'6'>122*>, 12' 8 ,)' ,)*' 27)6? /*.'M_%'+,X

6/?62; ,)6' I1& O 1 1' 0*- +' ,?92182' ;2/*..' \6.' .;55*.,*0'D ' 5), 11,' # !'D !=% T' >1?=% ?12 .' , '=% NH' 1-',)*' . 1' IA(6D.'6' ,182' ?*2, 12*0' 2',)*' (6/?;0'6.' / 25'2*6-' (D*- ^ 6.X'6'=/6>*' ?*2, 12*0'12/ ' 2' < 6-9'+ ' '8)*-*'8*' -*60',)6,' B*.:,' 6 ,*-' **0 25',)*' ?;/, ,;0*' 2',)*' *>6=1/ .' *6.,'1',)*' *6'1' 46//**',119'6'D16,'620' '>6?*' 2,1',)*'-*5 12.'> ('-0' +I3 8 1' 6/?62;,)6' 8) /*,)*'=6-6//*/=6..65*'M<6,,'L+'NRX'.,6,*.',)6,')* >6?*' 2,1',)*'D1-0*-.'1 ' < 6506/6%J' -1?',) .' 8*' ?6 '>12>/;0*',)6,' 6/?62;,)6'86.'6',182'12',)*'8*.,' . 0*' 1',)*'/69*'2*6-' < 6506/6% ()*'/6,,*-'.,110'>/1.*' ;=12',)*' .)1-*'6,',)*' .1;,)*-2'*20'1',)*'/ ,,/*' =/6 2' 1'4*22*.6-*,'6,',)*'=-*.*2,' < *AO*/% **' ! ?*?0 6,*/ '.1;,)'1 ',6'=-*> = ,1;.') //A;,.'1;,' 2,1' ,)*'.*6% * 120',) .'6D1;,'6'?/*' -1?' < 6506/6'6' 26--18'5/*2'D-*69.'0182'-1?',)*'8*.,% ,',.'?1;,)' 6-*' .1?*' >;/, +6,*0' */0.'620'56-0*2.'6?0' 8) >)' A;.,'D ',)*'D*6>)'6-*' .*+*-6/'>1= 1;.' 1;2,6 2.'.;-C 3-1;20*0'D ')*6+ '62> *2,'86//.'620',)*'-;2.'1'6'+/^ /65*% ()*' =/6>*' .'>6//*0'1& ' =; "' ,)*' >1/0' 1;2,6 2J'M 1D 2.12'D5 ' 'K X'620')6.'8 ,)'5-*6,' =-1D6D/, 'D**2',)1;5),',1'D*',)*'. ,*'1' 6/?62;,)6' M 1-,*-' 2' ? ,)'620' ,,1'.%+%T (-.,-6?' ' '=% KRX% **' / $! ()1?.12',D 29.' ,'?6 'D*',)*'=-*.*2,'-; 2*0'. ,*'>6//*0' " '12 3,)*' - +*-'.1;,)'1',)*'/69*'6/,)1;5)*'60?,.',)' .' .**?.',11' 6-' -1?' < 6506/6> ' +' 'S X% >)86-[' > '=% QRX' 20.',' 2',)*' '>6+*'1' - A M3" Z N7D X' ?*2, 12*0' 2',)*' (6/?;0' . ,;6,*0' =-1D6D/ ' 2',)*'>/ .'6D1+*' < *AO*/M 62'0*' */0*' 9 '=%'NN X' 8)>)')*' /*6-2.' 86.'6/.1'>6//*0' - 2' !

6/?67, 6'>& O '0*- +% ;2921822X'6'?1;2^ ,6 21;.' >1;2,- '12',)*' *6.,*-2' .)1-*'1',)*' 0- 6, >' *6'M /2 ' 'KQT' ,-6D1'+ 'N X'D*,8**2',)*'- +C 7*-.' (, ;6'620' - 2;.'620',)*' *D 62'620' >1-0 62') //.' .1;,)'1' 6D;? 6'M /2 ' 'KSX' 8)>)',15*,)^ *-' 8 ,)' ,C 1-?*0'6 ,*-',)*' *L=*0 , 12' 1' (D*- ;.' % %R',)*' 1?62'=-1+ 2>*' 1' // - >;? ' 1-' 8)>)' 20**0',' 86.' 1 ,*2' .=19*2' 1' . 212 ?1;./'M 12 C D*6-*' 620' : 18.12.'$!' ' ' KSX% ,.' =- 2> =6/ ,182.' 8*-*' 6/126' = 06;-;.' . .;.' *,>% M ,1/*? ' ' ' X% ,'0*- +*0' ,.' 26?*' -1?',)*' 6/?6,?'6' D6-D6-1;.'D;,'+6/ 62,'-6>*'.';==1.*0',1'D*'1'()-6> 62' 1-5 2'620' 8)1' 8*-*' +*- '.9 / ;' 2' 26+ 56, 25',)*' .*6'6/125',)*-'>16..,'_70'*L,-*?*/ 'D1/0' 2',)*-'=^ -6> *.% ()*>6=,6/' 6/? 2 ;?'86.',69*2'620'0*^ .,-1 *0'D ',)*' 1?62.' % % T',)*'>1;2,- ')18^ *+*-'86.'21,'>1?=/*,*/ '.;D0;*0',//,)*',?*'1' ;*5;.,;.% ()*?10*-2'26?*'1',)*'>1;2,- ' .',)*'.6?*' 6.',)*'62>*2,% 0;>6, 12'620'?1-6/,'6-*')*-*'6,'6' /18*-'*DD',)62'2'62'1,)*-'=6-,'1',)* ;.,-62'*?^ =-*'M.*',)* % '.% +%T ?,) ' ' !'? !'.%I+%'620',)*',-6+*//*-,',)*-*'-* *--*0',1X% **?# $!

;-25'6;/.'.*>120'?=-.12?*2,'6,' 1?*'(,;.' /*,') ?',1'+ . ' 6/?6,6'MK'(?% +' X'D;,' 1-'8)6, ';=-=1.*' .'21,'.,6,*0';2/*.'8*'?6 '>12A*>,;-*I,)6,' ' 86.',1'-*5;/6,*',)*'6 6-,'1',)*');->)'2',)6,'-*5 12' M */)6- 1-7% 'S '._%X'2',)*'+>2, '1'8)>)' 6;/)60' 1-?*-/ '=-*6>)*0'M 1?% L+' RX% **'0 $!

;'=-*.*2,'6/?6, 6'.'6'>-1820/620'1',)*' ;.,-62' *?=*-1-',)*'*?=*-1-'D*6-25'6?125') .'1,)*-',,/*.' ,)6,'1'9 25'1' 6/?6, 6% >>1-0 25',1',)*'/6.,'>*2^ .;.'1' Q ',)*'=1=;/6, 12'6?1;2,*0',1' RR'?1.,^ /' /6+ % ',)*.*'NN Q '8*-*' 1?62' 6,)1/>.' ;20*-',)*'6->)D .)1='1'U6-6'620'+*D .)1=.'M *D*2 C >1' =6/6,1' *. 26' 65;.6'620' 6,,6-1XT' N '$2,*0 4-**9.'M 2',)-*** >125-*56, 12.'D*/125 25',1',)*' 0 1^ >*.*' 1' -*;[' 2' -16, 6T ' ?*?D*-.' 1',)*'1-^ ,)101L'M212C$2,*O%' 4-**9');->)' ?0*-'12*D.)1='8)1' 1-?*-/ ' -*. 0*0'6,' *D*2>1'620'. 2>*' Q K' 6, U6-6T' ;,)*-62.T Q' * 1-?*0T' 620N Q' .-6*/,*.% ()*' 1?62' 6,)1/>.')6+*'KR '=6 7 .)*.' KK'>)6=/6 2^ >*.'620'SR'?126.,*-*.T ,)*'1-,)101L'4-**9.'RK'=6-^ .)*.'R'>)6=/6 2>*.'620' '?126.,*-*.!T &2 ' ; U =6 + %!' N%

3 6/?6,>',)*')6-6>,*-.,>'0-*..'1',)*'0*6>12'% 2',)*'60?2.,-6, 12'1',)*' ;>)6-.,' .1'>6//*0' -1?' D* 25' -.,'81+*2' 2' 6/?6, 6'1-' -.,';.*0'D',)*' 6/?6, 62' >/*-5 'M ;-620;.'5 ' 'X% ',.' 6' -1D*' -*6>) 25'0182',1',)*'92**.'620'1=*2'6,'*6>)' .0*' 1-'6'0.,62>*'+6- 25'6,'0 *-*2,'=*-10.% ,' ' 21,'?6-9*0'6,',)*'D6>9'8,)'6'>-1../9*',)*')6>).;D/*' D;,'2',)*' 6, 2');->)'8,)',81I26--18'.,-=*.',)*' -*?6 2.'1',)*' ' '81-2'12',)*'1/0' 1?62' 0-*..% 2',)*'4-**9');->)',' .'>6//*0' '620' .'>1+*-*0'8,)'6'?;/, ;0*'1'.?6//>-1..*.% ()*' 06/?6,>'.'.**2'2'.1?*'1/0'D-6..*.'81-2'1+*-',)*'6/D' 620',)*.,1/*',)*' - 25*0'*L,-*?, *.'1'8)>)'-*6>)' A;.,'D*/18' ,% ,'86.'601=,*Z 6,'6'/6,*-'=*-10'D',)*')5)*-'>/*-5 % ()*')6.;D/*'M %+%X'86.'.1?*, ?*.' 81-2'1+*-',)*'I'06/?6, >' .'.?D1/>6/?62 25'.' ,);.'*L=/6 2*0'D',)*'-,;6/.,.a ()*'0*6>12.'-1D*' 1'8),*'8,)'=;-=*'.,-=*'.8,)'=*'-5),'./**+*' =/6 2'620'+*-' ;//'D;,',)*'/*,' - 25*0'1-',6..*//*0' .',)*'?65*'1'D1;2, ;/2*..',186-0.',)*'=11-% ',.' ,)*'-1D*'5+*2',1'0*6>12.'620'.;DC0*6>12.'D*>6;.*' ,)*'8*-*')1.*2'D',)*'6=1./*.',1'.*-+*',)*',6D/*.T 620'6'0*6>12'.)1;/0')6+*'6'06/?6, >'8,)'D-160*-' ./**+*.',)62'6'.;DC0*6>12'D*>6;.*')*'.)1;/0')6+*'6' /6-5*-'5*2*-1. ,'8)/*'6'D.)1='.)1;/0')6+*'12*'8,)' ./**+*.'?;>)'D-160*-'620'8 0*-',)62',)*'0*6>12.' D*>6;.*'1',)*'.6?*'-*6.12'2'62'6.>70 25'-6, 1% ' 06/?6, >'.52 *.'62' ?*?6>;/6,*'/ *'6.'8*//6.')2.C =,6/,7W 720',)6.',81'.,-=*.'D* 1-*'620'D*)20',1' .)18',)6,'6'D.)1='.)1;/0'*L*->.*')' .')>)6-,'1'6/' D1,)'2'=-1.=*-,'620'60+*-., % ()*',-62.+*-.*'/2*' 8)>)' 1-?.'6'>-1..'D*)20'.'1'>1;-..*'2'6//;.12',1' ,)*'>-1..' 8)>)',)*'5-*6,' .)1='1'1;-'.1;/.'D1-*' 8)*2'12')..'86'.,1' 6/+6- %J' 25)6?' ' D9%+' >)% +'g K T' 1>9'# ' 'S T' :119' " "' ' '.%+%T 6/?*-', ! ' ' N %

6/77=/12'M:*D% ' %" (' =-1D% *-.62T *=,% & E1 8'+% -% ' $ O1 :' ;/5% ' %" 8',)*' .*>120'1',)*',*2'.12.'1':6 262T 9 //*0'D',)*'B*8.' 12',)*' N,)'1' 06-'M .,)% L' X' % % N%

6?'M L' " (8',)*' *?6/*' =6-*2,'1' 1;25' D-0.'M *;,% LL ' S' X' 1-' /6?D.'M L10% LL ' N T' *+% LL +' K X% & ,)',)*' <1.6>'-*5;/6, 12.'1'?*-^ >;/,-*6,?*2,',186-0',)*.*' >-*6,;-*.' .=19*2' 1' 2' ,)*.*'=6..65*.'>1?=6-*',)*.? /6-'1-0 262>*'-*.=*>,^ 25' D1/25'6'9 0' 2' ,.'182' ?1,)*-.' ? /9'M L10% LL ' RX'620',)*,-*6, .*'1';*;?622' ' ' % = 'M41,% Q'620' 2').' $!' ' ! ' KQK._%X% ** 8 !

6?65*.'8)*,)*-',1'=*-.12'1-'=-1=*-, '6>>1-0^ 25',1',)*'<1.6>.,6,;,*.% *>'6/.1' ! % 2A;-',1'/?D'2',)*'>6.*'1'6'-**' .-6*/,*'*2^ ,6/*0'62'*_;6/2 >, 12'>** ' 8';=12',)*'.6?** =6-,'1',)*'D10'1',)*'655-*..1-'M L10% LL ' KNCK T' *+% LL +' R'._%T *;,% L L'K T'>1?=% <6,,'1'NQ7T' 2',)*'>6.*'1'6'./6+*',*>,*0')/1'L%%!' 'NNKX% *>;2 6-' .6,.6>,12'1)18*+*-'2',)*'1 2*-'>6.*'86.'6'8*//C *.,6D/.)*0';.,,1?'MB1.*=);.'& !' +'Q'N X'.1',)6,' -*,6/6,12'86.'=-1D6D/'-*.1-,*0',1'12/'2'>6.*.'1' 2,*2,126/1-'?6/>1;.'2A;-'M>1?=% L10% LL ' KK' ._%T .**' < >)6*/.' !'5 '+' '._%X% 4-**9'/*7@ .6,12'6/.1'M 10% >% L' T' 15% 6*-,% ' X'6.' 8*//6.',)*/+*'(6D/*.'M.**' *//% dd' T' >1?=% :*2*>>% & !'D !'5 !' +' Q'Q'620' ,% '=% K N ._%T 12',)*'4*-?62>';.65*.' .**

,-10,?622' ' + ' & + ' =¼ X' .62>, 12*0' ,) .' 26,;-6/ 620' . ?=/*' A; 0 > 6/ 1D.*-+62>*' 1 ' '/ 9*' 1-' / 9* ' M>1?=¼ 1;5,.*/ & " !' ' RK' T' 62[' 2' <*2.>)*2 .' - ' - !' =¼ 7Q . %X¼ ?125',)*' .-6*/ ,*. ')18*+*-' ,'01*.' 21,' .**?',1')6+*'1 ,*2'D**2' *2 1->*0'M>1?=¼ 5), 11,' 1-¼ 0'=¼ KQKX'620'>1-^ =1-6/ 2A;-*.' 6,'/*6I.,' ;20*-',)*' ?126->) ' 8*-*' 6/^ ?1.,'6/86 .'>1?=-1? .*0'D '6' .;?'1 '?12* 'M.1'5*2^ *-6// '6?125',)*' (;-9.! .**' : 6?7*-' , !'5 "1' ' S._%¼ ()*' (6/?;0>6/ 2,*-=-*,6, 12' 5-18 25'1;,' 1',) .' *26>,?*2,'?6 'D*' .**2' 2' ; ') 1'+ 7 ¼ **' ! K¼ & 1;20 25'6' -**'=*-.12' 2'62'6 -6 'M8)*-*'D1,) =6-, *.' ? 5),' D*' =-*.;?*0',1'D*' =-*,, '2*6-/ '*_;6// ' ,1'D/6?*',)*' 2A; ')18*+*-'?;.,')6+*'D**2' 2/ >,' *0' 8 ,)' 6' .,12*' 1-',)*' .,' T >1?=¼) /1' N '-=' ' 8 ,)' 6' =-1=*-' 8*6=12' B1.*=);.' & !' +'Q'NNT' 6/.1' 2' 6' .;00*2/ '1;,D-*69 25' ;6-^ -*/D*,8**2',)*?',)6,'56+*C'21'*+ 0*2>*' 1 '/125C?*0^ ,6,*0')6-?X' 8)>)' -*20*-*0',)*' 20 + 0;6/ ;2 ,' 1-' 81-9'-*_; -*0'>1?=*2.6, 12' 1-',)*'/1..',)-1;5)'.>9^ 2*..'620'_,)*'*L=*2.*' 1'>';-*'M L10¼ LL ' Q'._%T'+*-¼ R' =-*.>-D*.',)6,',) .'!?;/>,'.)1;/0'>*6.*' 8)*2',)*' 81;20*0' =*-.12' D*>6?*'C6D/*' ,1' 51' 6D1;,' 656 2XT' .)1;/0')*'0*'6 ,*-86-0.'21' ;-,)*-'=*26/, '86.',1'D*' *L6>,*0'M) /1'L%%!' 'N '-'>1?=¼ ; ') '+ ' X¼ <1-*'.*+*-*'*L6>, 12' 1//18*0'8)*2' 2' 6' -6 '6' =-*5262,'81?62'86.'.1' 2A;-*0'6.',1'.; *-'6D1-, 12' 1-',)*2',)*'/68'1'/ *' 1-'/ *'=-*+6/*0' 2' ;//M L10% LL 'KKT' 6>>1-0 25',1'B1.*=);.')18*+*-' & !' +'Q' NN'620') /1'L%%!' 'N '=*>;2 6-'-*=6-6, 12' 86.' 6//18*0' 2'.;>)'>6.*.'/9*8 .*X¼ **' + $ ' ! N¼ 6?65*',1'12*.'=-1=*-, 'D '>6,,/*'M L10¼ LL ' X'1-'6>> 0*2,6/ .=-*60'1' -*' 2',)*' */0'M+*-¼ SX'>6//^ *0' 1-' ;// -*?;2*-6, 12'1',)*'/1..'M6.'6/.D'6?125',)*' 1?62.!' .**' f7/,*-' ? +!' !';!' $' =¼ Q KX' 620'86.',1'D*'=6 0' 1-' 2'9 2%0'6/,)1;5)'6'>1?7;,6^ , 12' 2' ?12* '>*-,6 2/ ' ? 5),'1D,6 2'M) /1'L%%!' 'NNRX¼ 1-' ;//*-' 0*,6/.' .**' ,)*' (6/?;0>' ,-*6, .* ; ') 1'+' ¼ &)*2'6')-*0'62 ?6/1-'6-,>/* 86.' 2A;-*0'21' .=*>6/-*.,;, 12'86.'-*_;-*0'M L10% LL ' X¼ ,'86.'1,)-*8 .*')18*+*-' 8 ,)' =-1=*-, ' =/6>*0' 2',-;..¼ **' / !' 2',)*' A;-.0>,12' 1'6//>6.*.'.**' > ! ' & 2*-'1 !' ' 6?76-.'M 672= X'62' ,)*2 62' 81?62' >12^ +*-,*0',1')-.,62,'D ' 6;/.'=-*6>)25'M >,.'L+ N X' ¼ ¼ Q¼)-A.1.,1?'I ' $,' +' X'627' 1,)*-.')*/0')*-.,1')6+*'D**2',)*'8 *'1' 12 .;',)*' -*1=65 ,*'D;,'6==6-*2,/ ' 1-'21'1,)*-'-*6.12',)62' ,)6,'.)*' .' ?*2, 12*0',15*,)*-'8 ,)') ?' 2',) .'=6.^ .65*¼ -1, ;.'620': *?.,*-); .',)29',)*'26?*'.)1;/0' D*' ' $'& % O '.52 25'" 8'8)>)' .' -*^ _;*2,/ ' 1;20'6.'6'81?62.'26?*'D;,',)*'=*-?;,6^ _,12'1'%620'%'86.'21,';2>1?7?12'D1,)' 2'=-12;2>6^ ,12'620'8-,25'M 1D*>9'12')-2>);.' ='¼ S KX% ' ? ,)' .¼ 6?6.>*2*M 276 >-V+1 X'62' 2)6D ,62,'MK' 1-¼ L 7'NKX'1',)*'>, '1' 6?6.>;.'M_¼ +%X% 6?6.>;.J'6-*' 1;20' 2' .6¼ + 'Q¼ 7 .'*L=-*../ '.6 0' ,)*')*60'1' - 6' .' 6?6.>;.6/.1' .6¼ L+ 'N' ,)*' 9 2501?J' .' ,1' >*6.*' -1>?' 6?6.>;.TJ' .1'),6,',) .'=/6>*' 86.'1D+ 1;./ ',)*'?*,-1=1/.'1'6' -^ 62' *?= -*¼ ,' 56+*' 26?*' M - 6' 6?6.>*26' / 2¼ # !'7 '+' NX',1'6'0 .,-> ,'_' - 6'8)>)' 2' ')-12¼ L L' S' .'0 .,25; .)*0'6.' - 6C<66>)6)J' 2',)*' ¼ ¼ ()*>, ' .'*+*2'?*2, 12*0' 2',)*>;2*^ 1-?' 2.>-=, 12.'M_¼ +%X¼ ()*' 1//18 25'6>>1;2,' .' >) *' / ' -1?' ,,1'620' ? ,)' .'¼ +% ¼ $ 2 % ' 6?6.>;.1>>;=*.',)*'?1.,'D*6;, ;/ . ,*' 2' - 6'1-'=*-)6=.' 2'6//' & *.,*-2' .6¼ ,',)*' *6.,*-2'D6.*' 1' 2, C/BD62;.'/*.'6'+6.,'=/6 2')6+ 25' 62'*/*+6, 12'1'6D1;,'KK ' **,'6D1+*',)*'/*+*/1',)*' .*6¼ ,' .'D1;20*0'12',)*'.1:,)'D ',)*-+*-' 86A' 8 ,)' ,' D-62>)*.' 8)>)' .*=6-6,*.' ,' -1?' ,;-6*6¼ 2',)*I*6.,'6'/ ,,/*' 5-1;=' 1'>12 >6/'D //.'0 + 0*.' ,' -1?',)*' 5-*6,' -6D 62'0*.*-,¼ ,.' 1-?' .',-625;^ /6-'620',.'6-*6'6D1;,' '._;6-*' ?/*.¼ 2/ '6D1;, 12*')6)/'1',) .'.'218' 2)6D,*0'1-' 20**0')6D ,6D/*1' D;,' 2' ->)2*..'620'D*6;,',) .')6/' .';2.;-=6..*O¼ ,'18*.'6//,.'60+62,65*.',1',.'-+*-.'MK' 25.'+' KX¼ ()*'=/6 2' .'6D1;,' ',60I6'-1?',)*' <*0,+.*-62*62' 620' -1?' .L',1'* 5),'06 .A1;-2* ' -1?'B*-;.6/*?¼ ,.' >*/*D-,' .' 1'*6-/ '06,*¼ ,-6D1'ML+ '=¼ SX' .=*69.'1 ',' 2'*;/15 .,>',*-?.¼ 2'6'-*/5 1;.C=1 2,' 1'+*8'6/.1',.',*=;,*' 86.'5-*6,¼ B;/62'MC¼=¼ K X' ,*-?.',' ,)*'5-*6,'620'.6>-*0' 6?6.>;.',-=6..25' *+*-'>, 'D1,)'2',)*'D*6;,'1',.',*?=/*.'620',)* ?652,;0*'1',.'.)-2*.'6.'8*//6.',)*', ?*/2*..'1' ,.'.*6.12.',)*'/?=02*..'1',.'1;2,6 2.',)*'+1/;?*' 1',.'86,*-.'620',)*'-.>)2*..'1',.'.1 /¼J' ()*' D6C 26'M_¼ +%X' >6//*0' 6-606 - .25') 5)';='12',)*' 8*.,*-2' /629'1' 2, C D62;.' 1->*.',.' 86',)-1;5)' ,)*')6 2'-;22 25' 1-'.1?*,?*'6?125',)*'?1;2^ ,6 2.',.// .;00*2/ ',' D;-.,',)-1;5)'6' 26--18'0*,I' ;=12',)*'1=*2'>1;2,-'*6.,'1',)*')//.'620'0 ;.*.' *-,/ ,'6-'620'8 0*¼ -1?',)*'*05*'1',)*'?1;2^ ,6 2C-625*J'.6 .'6'?10*?',-6+*//*-' II 1;'119'0182' 12',)*'=/6 2'1' 6?6.>;.¼ ,' .')*-*'.**2' 2' ,.'8 0*.,' 620' ;//*.,'=*-*>,12'8 ,)',)*+.D/*'*L=/626, 12'1' ,)*8)1/*'.*>-*,'1' .'5-*6,'620'*20;-25')6-?',)6,' 8)>)',?;.,')6+*')60'8)*2',86.',)*'.1/,6-''.*6,' 1'>+/[6, 12' 2' -6'620'8)>)','8 //')6+*'6./125' 6.',)*'81-/0'/6.,.¼ ()*-+*-'.'+.D/*'6,',)*'D1,,1?' 8 ,)' ,' 5-**2'D629.';-;.)25',)-1;5)',)*'>/*,'T ' D;-.,.'1-,)'620'6.' 2'6'?1?*2,'.>6,,*-.'1+*-',)* =/6 2',)-1;5)'6'>->/*'1',)-,'?/*.',)*'.6?*'+*-IP 0;-*'8)>)')60')*)-,1'D**2'>12 2*0',1' ,.' .25/* >)622*/%%%%%%%%%%%%%% 6-'620'8 0*' 2' -12,'K,*20.',)* /*+*/=/6 2',.')1-[12'D6-*',.'/2*.'1',.;--1;20 25') //.'D6-*'6//'D6-*' 6-'686 '12',)*'-160',1' 6/? -6' 620' 65060¼ 2',)*'?0.,'1',)'.'=/6 2'/*.'6,' 1;-' **,')*'+6.,'/69*'1-' ./620'1'0**=*+*-0;-*'86/2;,.' 620'6=-->1,.'86+ 25'6D1+*'>1-=' 620'5-6..'D*/18'T 620' 2',)*'?0.,'1',) .'?6..'1'1/65*-..*.',.-9 25'1;,' ,.'8),*'6-?.'1'.,-**,.')',)*-'620',) ,)*-'620',.' 8),*'?26-*,.'6D1+*',)*'-**,'8)>)'*?D1.1?',)*?' ,)*'>,'1'6?6.>;.¼ 2',)*-5),'18*-.',)*.218')*5),'1':*-?12'1+*-/119 25',)*8)1/*.>*2*¼ /1.*' D*)20'6-*',)*'.,*-/*/?*.,12*'?1;2,6 2.'.1',)6,' 1.';.,620'/,*-6//'D*,8**2',)*/+25'620',)*'0*60J' M ,62/*' + $'W' KX¼ 21,)*-'8-,*-'?*2,12.' 6?125',)*=-10;>*'1',)*=/6 2' 2',;*.,12' 86/2;,.' =1?*5-626,*.' 5.'=/;?.'6=-.>1,..'>,-12.'=*6-.'620' 6==/*.J'M 00.12.'# !' 'RKX' /+*C' ,-**.'6-*' 6/.1'6'=-2>=6/* *6,;-*' 1',)*' .>*2*¼ *^ .0*.',)*?62'.,-*6?'1',)*' 6-606'8)>)'2A2.'0^ -*>,/',)-1;5)',)*,182'.;==/ 25',.'=;D/>'>.,*-2.' D6,).'620'1;2,6 2.'6'2;?D*-'1'D-62>).'6-*'5+*2' 1',1',)*-5),'620',1',)*/*,'8)>)'-- 56,*',)* =6.)6/>'1',).'/6,,*-'26?*'620'20**0'.',)*>)*'1-' ?*6018.'620'>1-2C */0.',;-2 25'8)6,'81;/0'1,)*-^ 8.*D*'60*.*-,'2,1'6'56-0*2¼ ()*.*'+6-1;.',-*6?.' 6/,)1;5)'5-*6,/'8*69*2*0'2'+1/;?*'/18'12',186-0.' ,)*'*6.,'1-'6D1;',8*2,'?/*.'8)*2',)*'=1;-',)*-' 86,*-.'2)X',81'.?6//620'.)6//18'/69*.'8)>)'/*' ;=12',)*'+*-5*'1',)*'0*.*-,¼ (81'1,)*-'.,-*6?.',)*

Map of the Vicinity of Damascus.

Wady Helbon upon the north, and the Awaj upon the south, which flows direct from Hermon, increase the fertility of the Damascene plain, and contend for the honor of representing the "Pharpar" (q. v.) of Scripture. The city stands on the banks of the main stream, about two miles distant from, and 500 feet below the pass through which it emerges into the plain. The modern Oriental architecture does not bear close inspection, but when seen from a distance it is singularly imposing. Tapering minarets and swelling domes, tipped with golden crescents, rise up in every direction from the confused mass of white terraced roofs, while in some places their tops gleam like diamonds amid the deep green foliage. In the centre of the city stands the great mosque, and near it the massive towers of the castle.

2. *History.*—According to Josephus (*Ant.* i, 6) Damascus was founded by Uz, the son of Aram, and grandson of Shem. It is first mentioned in Scripture in connection with Abraham, whose steward was a native of the place (Gen. xv, 2). We may gather from the name of this person, as well as from the statement of Josephus, which connects the city with the Aramæans, that it was a Shemitic settlement. According to a tradition preserved in the native writer Nicolaüs, Abraham staid for some time at Damascus after leaving Charran and before entering the promised land, and during his stay was king of the place. "Abraham's name was," he says, "even in his own day, familiar in the mouths of the Damascenes, and a village was shown where he dwelt, which was called after him" (*Fragm.* 30). This last circumstance would seem, however, to conflict with the notion of Abraham having been king, since in that case he would have dwelt in the capital. In the village of Buzeh, three miles north of the city, is a highly venerated shrine, called for the last eight centuries "the house of Abraham." (On these fables, see Julian, *Epist.* 24, p. 392; Cellarii *Notitiæ*, ii, 442 sq.; Mannert, VI, i, 407 sq.; Justin, xxxvi, 2; Isidorus, *Origg.* xv, 1; D'Herbelot, *Biblioth. Or.* i, 70.) See ABRAHAM.

Nothing more is known of Damascus until the time of David, when "the Syrians of Damascus came to succor Hadadezer, king of Zobah," with whom David was at war (2 Sam. viii, 5; 1 Chron. xviii, 5). On this occasion David "slew of the Syrians 22,000 men," and in consequence of this victory became completely master of the whole territory, which he garrisoned with Israelites. "David put garrisons in Syria of Damascus; and the Syrians became servants to David, and brought gifts" (2 Sam. viii, 6). Nicolaüs of Damascus said that the name of the king who reigned at this time was Hadad; and he ascribes to him a dominion not only over Damascus, but "over all Syria except Phœnicia" (*Fragm.* 31). He noticed his *attack* upon David, and related that many battles were fought between them, the last, wherein he suffered defeat, being "*upon the Euphrates.*" According to this writer, Hadad the first was succeeded by a son, who took the same name, as did his descendants for ten generations. But this is irreconcilable with Scripture (see Müller, *Origo regni Damasci* Lips. 1714; also in Ikenii *Thesaur.* i, 721 sq.). It appears that in the reign of Solomon a certain Rezon, who had been a subject of Hadadezer, king of Zobah, and had escaped when David conquered Zobah, made himself master of Damascus, and established his own rule there (1 Kings xi, 23-5). He was "an adversary to Israel all the days of Solomon . . . and he abhorred Israel, and reigned over Syria" (Joseph. *Ant.* viii, 7, 6). Afterwards the family of Hadad appears to have recovered the throne, and a Benhadad, who is probably Hadad III of Nicolaüs, a grandson of the antagonist of David, is found in league with Baasha, king of Israel, against Asa (1 Kings xv, 19; 2 Chron. xvi, 3), and afterwards in league with Asa against Baasha (1 Kings xv, 20). He made a successful invasion of the Israelitish territory in the reign of that king; and in the reign of Omri he not only captured a number of Israelitish cities, which he added to his own dominions, but even seems to have exercised a species of lordship over Samaria itself, in which he acquired the right of "making himself streets" (1 Kings xx, 34; comp. Nic. D. *Fragm.* 31, ad fin.). He was succeeded by his son, Hadad IV (the Benhadad II of Scripture, and the Ben-idri of the Assyrian inscriptions), who came at the head of thirty-two subject kings against Ahab, and laid siege to Samaria (1 Kings xx, 1). The attack was unsuccessful, and was followed by wars, in which victory declared itself unmistakably on the side of the Israelites; and at last Benhadad was taken prisoner, and forced to submit to a treaty whereby he gave up all that his father had gained, and submitted in his turn to the suzerainty of Ahab (ib. xx, 13-34). The terms of the

treaty were perhaps not observed. At any rate, three years afterwards war broke out afresh, through the claim of Ahab to the city of Ramoth-Gilead (1 Kings xxii, 1–4). The defeat and death of Ahab at that place (ib. 15–37) seems to have enabled the Syrians of Damascus to resume the offensive. Their bands ravaged the lands of Israel during the reign of Jehoram; and they even undertook at this time a second siege of Samaria, which was frustrated miraculously (2 Kings vi, 24; vii, 6–7). After this, we do not hear of any more attempts against the Israelitish capital. The cuneiform inscriptions show that towards the close of his reign Benhadad was exposed to the assaults of a great conqueror, who was bent on extending the dominion of Assyria over Syria and Palestine. Three several attacks appear to have been made by this prince upon Benhadad, who, though he had the support of the Phœnicians, the Hittites, and the Hamathites, was unable to offer any effectual opposition to the Assyrian arms. His troops were worsted in several engagements, and in one of them he lost as many as 20,000 men. It may have been these circumstances which encouraged Hazael, the servant of Benhadad, to murder him and seize the throne, which Elisha had declared would certainly one day be his (2 Kings viii, 15). He may have thought that the Syrians would willingly acquiesce in the removal of a ruler under whom they had suffered so many disasters. The change of rulers was not at first productive of any advantage to the Syrians. Shortly after the accession of Hazael (about B.C. 884), he was in his turn attacked by the Assyrians, who defeated him with great loss amid the fastnesses of Anti-Libanus. However, in his other wars he was more fortunate. He repulsed an attack on Ramoth-Gilead, made by Ahaziah, king of Judah, and Jehoram, king of Israel, in conjunction (2 Kings viii, 28–9); ravaged the whole Israelitish territory east of Jordan (ib. x, 32–3); besieged and took Gath (ib. xii, 17; compare Amos vi, 2); threatened Jerusalem, which only escaped by paying a heavy ransom (2 Kings xii, 18); and established a species of suzerainty over Israel, which he maintained to the day of his death, and handed down to Benhadad, his son (2 Kings xiii, 3–7, and 22). This prince, in the earlier part of his reign, had the same good fortune as his father. Like him, he "oppressed Israel," and added various cities of the Israelites to his own dominion (2 Kings xiii, 25); but at last a deliverer appeared (ver. 5), and Joash, the son of Jehoahaz, "beat Hazael thrice, and recovered the cities of Israel" (ver. 25). In the next reign still further advantages were gained by the Israelites. Jeroboam II (B.C. cir. 836) is said to have "recovered Damascus" (ib. xiv, 28), and though this may not mean that he captured the city, it at least implies that he obtained a certain influence over it. The mention of this circumstance is followed by a long pause, during which we hear nothing of the Syrians, and must therefore conclude that their relations with the Israelites continued peaceable. See BENHADAD. When they reappear, nearly a century later (B.C. cir. 742), it is as allies of Israel against Judah (2 Kings xv, 37). We may suspect that the chief cause of the union now established between two powers which had been so long hostile was the necessity of combining to resist the Assyrians, who at the time were steadily pursuing a policy of encroachment in this quarter. Scripture mentions the invasions of Pul (2 Kings xv, 19; 1 Chron. v, 26), and Tiglath-Pileser (2 Kings xv, 29; 1 Chron. v, 26); and there is reason to believe that almost every Assyrian monarch of the period made war in this direction. It seems to have been during a pause in the struggle that Rezin, king of Damascus, and Pekah, king of Israel, resolved conjointly to attack Jerusalem, intending to depose Ahaz and set up as king a creature of their own (Isa. vii, 1–6; 2 Kings xvi, 5). Ahaz may have already been suspected of a friendly feeling towards Assyria, or the object may simply have been to consolidate a power capable of effectually opposing the arms of that country. In either case the attempt signally failed, and only brought about more rapidly the evil against which the two kings wished to guard. Jerusalem successfully maintained itself against the combined attack; but Elath, which had formerly been built by Azariah, king of Judah, in territory regarded as Syrian (2 Kings xiv, 22), having been taken and retained by Rezin (ib. xvi, 6), Ahaz was induced to throw himself into the arms of Tiglath-Pileser, to ask aid from him, and to accept voluntarily the position of an Assyrian feudatory (ib. xvi, 7–8). The aid sought was given, with the important result that Rezin was slain, the kingdom of Damascus brought to an end, and the city itself destroyed, the inhabitants being carried captive into Assyria (ib. ver. 9; comp. Isa. vii, 8, and Amos i, 5). Among the sculptures lately discovered on the site of Nineveh are thought to be delineations of this siege and capture of Damascus. Rawlinson even reads the name of the city on an obelisk connected with them (Bonomi, *Nineveh*, p. 234 sq.). Assyrian remains have lately been discovered in a mound near Damascus (*Journal of Sacred Literature*, October, 1854, p. 218; January, 1855, p. 469). See ASSYRIA.

Final Assault of Damascus. From the Assyrian Monuments.

Captivity of the Inhabitants. From the same.

It was long before Damascus recovered from this serious blow. As Isaiah and Amos had prophesied in the day of her prosperity that Damascus should be "taken away from being a city and be a ruinous heap" (Isa. xvii, 1), that "a fire should be sent into the house of Hazael which should devour the palaces of Benhadad" (Amos i, 4), so Jeremiah, writing about B.C. 600, declares "Damascus *is waxed feeble* and turneth herself to flee, and fear hath seized on her; anguish and sorrows have taken her as a woman in travail. How is the city of praise *not left*, the city of my joy!" (Jer. xlix, 24–5). Damascus remained a province of Assyria until the capture of Nineveh by the Medes (B.C. 625), when it submitted to the conquerors. Its wealth and commercial prosperity appear to have declined for a considerable period, probably on account of the ravages of Tiglath-Pileser, and the captivity of the most influential and enterprising of its people. The city was afterwards held in succession by the Egyptians, Babylonians, and Persians. We have no particulars of its history for a period of three centuries. Under the rule of the Persians it was the capital of the province of Syria, and the residence of the satrap. We do not know at what time Damascus was rebuilt, but Strabo says that it was the most famous place in Syria during the Persian period (xvi, 2, § 19). When Darius, the last king of Persia, made his great effort to repress the rising power, and bar the progress of Alexander of Macedon, it was in this city he deposited his family and treasures (Arrian, *Exp. Al.* ii, 11). The fate of Damascus, with that of all Western Asia, was decided by the battle of Issus, in which the Persian army was almost annihilated. Damascus now became the capital of a province which Alexander gave to his general Laomedon (Plut. *Vit. Alexandri*). During the long wars which raged between the Seleucidæ and the Ptolemies, Damascus had no separate history: it sometimes fell to the one, and sometimes to the other. Antioch was founded, and became their favorite residence, and the capital of the Seleucidæ; but when the Syrian kingdom was divided in B.C. 126, Damascus was made the second capital. Its territory embraced Cœle-Syria, Phœnicia, and the country east of the Jordan, and it was afterwards governed in succession by four princes of the family of Seleucus. Damascus and Antioch thus became the seats of rival factions, and aspirants after complete sovereignty (Joseph. *Ant.* xiii, 13, 4, and 15, 1). The last of these princes, Antiochus Dionysus, was killed in battle against Aretas, king of Arabia, and the Damascenes forthwith elected Aretas his successor (Josephus, *Ant.* xiii, 15, 1), B.C. 84. In the year B.C. 64, the Romans, under Pompey, invaded and captured Syria, constituted it a province of the empire, and made Damascus the seat of government (*ib.* xiv, 2, 3, and 4, 5; Mos. Chorен. i, 14; Appian, *Bell. Mithrid.* p. 224). From Josephus (*War*, i, 2; xxv, 2; xx, 2; comp. Acts ix, 2) it appears that its population contained great numbers of Jews.

Coin of Damascus.

For twenty years Damascus continued to be the residence of the Roman procurators. The city prospered under their firm and equitable rule, and even after their removal to Antioch did not decline. Strabo, who flourished at this period, describes it as one of the most magnificent cities of the East. Nicolaüs, the famous historian and philosopher, the friend of Herod the Great and Augustus, was now one of its citizens (Strabo, *Geogr.* xvi; Josephus, *Ant.* xvi, 10, 8). But the strong arm of Rome was not sufficient to quell the fiery spirit of the Syrians. The whole country was rent into factions, and embroiled by the unceasing rivalries and wars of petty princes. About the year A.D. 37, a family quarrel led to a war between Aretas, king of Arabia, and Herod Antipas. The Roman governor, Vitellius, was instructed to interfere in favor of the latter; but when he was ready to attack Aretas, who had already driven back Herod, news arrived of the death of the emperor Tiberius. The government of Syria was thus thrown into confusion, and Vitellius returned to Antioch (Joseph. *Ant.* xviii, 5, 1–3). It appears that now Aretas, taking advantage of the state of affairs, followed up his successes, advanced upon Damascus, and seized the city. It was during his brief rule (or some earlier one) that Paul visited Damascus on his return from Arabia (Gal. i, 16, 17). See ARETAS. His zeal as a missionary, and the energy with which he opposed every form of idolatry, had probably attracted the notice and excited the enmity of Aretas; and consequently, when informed by the Jews that the apostle had returned to the city, he was anxious to secure him, and gave orders to the governor to watch the gates day and night for that purpose (Acts ix, 24; 2 Cor. xi, 32. See Neander, *Planting and Training of the Christian Church*, i, 106). The Romans adorned Damascus with many splendid buildings, the ruins of which still exist. Some of them were probably designed by Apollodorus, a native of the city, and one of the most celebrated architects of his age, to whose genius we are indebted for one of the most beautiful monuments of ancient Rome, the Column of Trajan (Dion Cass. lxix). A little later it was reckoned to Decapolis (Plin. *Hist. Nat.* v, 16), after which it became a part of the province known as Phœnicia-Libanesia (Hierocl. *Synecd.* p. 717).

Christianity was planted in Damascus by Paul himself (Acts ix, 20 sq.; Gal. i, 12), and obtained a firm footing in the apostolic age. It spread so rapidly among the population that in the time of Constantine the great temple, one of the noblest buildings in Syria, was converted into a cathedral church and dedicated to John the Baptist. When the first general council assembled at Nice, Magnus, the metropolitan of Damascus, was present with seven of his suffragans. But the Roman empire was now waxing feeble, and the religion which, by its establishment as a national institute, ought to have infused the germ of a new life into the declining state, was itself losing its purity and its power. Damascus felt, like other places, the demoralizing tendencies of a corrupt faith. In the beginning of the 7th century a new and terrible power appeared upon the stage of the world's history, destined, in the hands of an all-wise though mysterious Providence, to overthrow a degenerate empire and chastise an erring Church. In A.D. 634 Damascus opened its gates to the Mohammedans, and thirty years later the first caliph of the Omeiades transferred the seat of his government to that city. It now became for a brief period the capital of a vast empire, including Syria, Mesopotamia, Persia, Northern Africa, and Spain (Elmacin, *Hist. Sarac.* xiii). In A.D. 750 the Omeiades were supplanted by the dynasty of Abbas, and the court was removed to Bagdad. A stormy period of four centuries now passed over the old city without leaving a single incident worthy of special note. An attack of the Crusaders (A.D. 1148), under the three chiefs, Baldwin, Conrad, and Louis VII, might have claimed a place here had it not been so disgraceful to the Christian arms. It is enough to say that the cross never displaced the crescent on the battlements of Damascus. The reigns of Nureddin and his more distinguished successor Saladin form bright epochs in the city's history. Two centuries later came Timur, who literally swept Damascus with "the besom

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5-*6,*-',)62',)6,'D*,8**2',)*' 1;,. 0*' 620' 2. 0*% ()*' 5-*6,*-',)62',)6,'D*,8**2',)*' 1;,. 0*' 620' 2. 0*% ()*'
-1;5)' ?;0C86//.' 620' ?*62' 011-.' 5 7*' =11-' =-1? .* -1;5)' ?;0C86//.' 620' ?*62' 011-.' 5 7*' =11-' =-1? .*
1',6.,*' 1-' D*6;, '8 ,) 2% ()*' *2,-62>*' .' 6/86 .' 1',6.,*' 1-' D*6;, '8 ,) 2% ()*' *2,-62>*' .' 6/86 .'
,)-1;5)' 6' 26--18' 8 20 25' =6..65* ' .1?*, ?*.' *+*2' ,)-1;5)' 6' 26--18' 8 20 25' =6..65* ' .1?*, ?*.' *+*2'
6' .,6D/*C 6-0 ',1',)*' 1;,*-'>1;-, J' 8)*-*',)*' ?6.,*-' 6' .,6D/*C 6-0 ',1',)*' 1;,*-'>1;-, J' 8)*-*',)*' ?6.,*-'
)6.') .'-*>*=, 12C-11?' 620',1' 8) >)' 6/12*' ?6/*' . ,C%)6.') .'-*>*=, 12C-11?' 620',1' 8) >)' 6/12*' ?6/*' . ,C%
1-.' 6-*' 60? ,,*O% 21,)*-' 8 20 25' =6..65*' /*60.',1' 1-.' 6-*' 60? ,,*O% 21,)*-' 8 20 25' =6..65*' /*60.',1'
,)*' " %+%X' 8) >)' .%,)*' =- 2> =6/' =6-,' 1',)*' ,)*' " %+%X' 8) >)' .%,)*' =- 2> =6/' =6-,' 1',)*'
)1;.*% : *-*' .' 6' .=6> 1;.' >1;-,' 8 ,)',*..*/6,*0' =6+*^)1;.*% : *-*' .' 6' .=6> 1;.' >1;-,' 8 ,)',*..*/6,*0' =6+*^
?*2,' 6' 26-D/*' D6. 2' 2',)*' Y '* ' (' 6-1;20' ?*2,' 6' 26-D/*' D6. 2' 2',)*' Y '* ' (' 6-1;20'
,' 1-625*' /*?12' 620' > ,-12',-**. ' /18*- 25' .)-;D. ,' 1-625*' /*?12' 620' > ,-12',-**. ' /18*- 25' .)-;D.
A*..6? 2*.' 620' + 2*.',-6 2*0' 1+*-' ,-*// .C81-9' 1-' A*..6? 2*.' 620' + 2*.',-6 2*0' 1+*-' ,-*// .C81-9' 1-'
.)60*% ()*' -11?./ 6// 1=*2' 12',) .' >1;-,' 2,*->1?I' .)60*% ()*' -11?./ 6// 1=*2' 12',) .' >1;-,' 2,*->1?I'
?;2>6, 12' D*,8**2'-11?' 620' -11?' D* 25' 6/?1.,';2^ ?;2>6, 12' D*,8**2'-11?' 620' -11?' D* 25' 6/?1.,';2^
92182% 2',)*' .1;,)' .0* .7 62' 1=*2' 6/>1+*' 8 ,)' 92182% 2',)*' .1;,)' .0* .7 62' 1=*2' 6/>1+*' 8 ,)'
?6-D/*' /11-' 620' >;.) 12*0' 06 .% I()*' 0*>1-6, 12.' 1' ?6-D/*' /11-' 620' >;.) 12*0' 06 .% I()*' 0*>1-6, 12.' 1'
.1?*' 1',)*' -11?.' .' 51-5*1;.% ()*' 86//.' 1',)*' 1/0*-' .1?*' 1',)*' -11?.' .' 51-5*1;.% ()*' 86//.' 1',)*' 1/0*-'
)1;.*.' 6-*' 86 2.>1,*0' >6-+*0' 620' 5 /,' 620',)*' >*/^)1;.*.' 6-*' 86 2.>1,*0' >6-+*0' 620' 5 /,' 620',)*' >*/^
25.' 6-*' >1+*-*0' 8 ,)' 6-6D*._;*' 1-26?*2,.' 25.' 6-*' >1+*-*0' 8 ,)' 6-6D*._;*' 1-26?*2,.'
2*8') 1;.*5-'=6 2, 5' 620' ?6-D/*' -*,81-9' 6-*',69 25' 2*8') 1;.*5-'=6 2, 5' 620' ?6-D/*' -*,81-9' 6-*',69 25'
,)*' =/6>*' 1 '6-6D*._;*' 620' 86 2.>1, 25% ,)*' =/6>*' 1 '6-6D*._;*' 620' 86 2.>1, 25%

( )*' =- 2> =6/ D; /0 25' 1 ' 6?6.>;.' .' ,)*' ? ' 4 1' ,)*' 01?*.' 620' ? 26-*,.' 1 '8) >)'6,*' *+*- ^ 8)*-*' >12.= >;1;.% ,' 1>>;= *.' 12*' . 0*' 1 '6'/6-5*' _;60-625;/6-'>1;-,' /655*0'8 ,)' ?6-D/*'6--625*0' 2' =6,,*-2.' 620' 1-26?*2,*0' 8 ,)' .1?*' D*6;, ;/ 1;2^ ,6 2.% & ,) 2',)*' ?1._;*' 6-*' 01;D/*' -625*.' 1 ' 1^ - 2,) 62' >1/;?2.' .;==1-, 25',)*' -11 ' 62',)*' ., /*' 1 ' ,)*' 1/0' D6. / >6.% ( )*' 86//.' 8*,* 12>*' >1+*-*0' 8 ,)' <1.6>' -*=-*.*2, 25',)*')1/ ' =/6>*.' 1 ' ./6?T' D;,' ,) .' .' 2*6+/A' 6// 512*%% 2',)*' >*2,-*' .' 6' .=6> 1;' 01?*% ( )*' D; /0 25' 86.' 62> *2,/ '6',*?=/*' 8 ,)' 6' /6-5*' >/1 .,*-*0' >1;-,'/ 9*',)*' (*?=/*' 1 ',)*' ;2' 6,' 6/?A'-6% 2',)*', ?*' 1 ' 12.,62, 2*' ,' 86.' ?60*' 6' >);->)' 620' 0*0 >6,*0',1'B1)2',)*' 6=, .,' 8)1.*)*60' 86.' .6 0',1' D*' 0*=1. ,*0' 2' 6' . /+*-'>6.9*,' 2' 12*' 1',)*' >- =,.% 2',)*' ,)' >*2,;-',)*' <1./*?.',119' =1..*.^ . 12' 1 ',' 620',')6.' . 2>*' -*?6 2*0',)*' ?1.,'+*2*-6^ ,*0' 1',)*' -' ?1._;*.% ,' .' 6' . 25;/6-' 6>,')18*+*-' ,/ 6,',)1;5)' ,')6.' 218' D**2' 1-' ,8*/+*' >*2,;-*.' 2' =1..*.. 12' 1',)*' *2*? *.' 1 '1;-' 6 ,)' ,)1 5)0;- 25' %,)*' 8)1/*' 1',)6,'=*- 10' 21')- ., 62')6.' *+*-' D**2' =*-? ,,*0',1' *2,7-' ,.' =-*> 2>,.' *,' 1+*-' ,.' =- 2> =6/ 011-' .' 62' 2.>- =, 12' *?D10A025' 12** 1',)*' 5-620*.' 620' ?1.,')**- 25' 1 ')- ., 62',-;,).'M .6%>L/+' NX% ( )*' .' 6' /6-5*' _;60-625;/6-' .,-;>,;-*' 8 ,)') 5)' 86//.' 620' ?6.. +*' /629 25',18*-.% ,' .' 218' 6' ?*-*' .)*//',)*' 8)1/*' 2,*- 1-' D* 25' 6')*6=' 1 '-;2.% ( )*' 1;206, 12.' 6-*' 6,'/*6.,' 6.' 1/0' 6.',)*' 1?62' 65*% ,'.,620.' 6,',)*' 21-,)C8*.,'625/*' 1',)*' 62> *2,' 86/% ( )*' ' % ' 1 ' 6?6.>;.' 6-*',)*' 1//18 25' ' '/125' 8 0*',)1-1;5) 6-*J ' /*60 25' 0 ^ -*>,' -1?' 12*' 1',)*' 56,*.',1',)*' >6.,/*' 1-'=6/6>7' 1',)*' =6.)6CI'C.' '>6//*0'D ',)*' 5; 0*.' ,-6 5),'J'M >,.' L XT' D;,' ,)*' 26, +*.' 9218' ,' 6?125',)*?./+/*.' 6.' ',)*' -**,'1' 6[66-.J'M .,62/* '=% X% ( )*')1;.*' 1 'B;06.' .'C)182);,',.'21, 2',)*'.,-**,' ,-6 5),1 M 1>1>9*' ' RX% ( )6,'1' 262 6.' .' 6/.1'=1 2,*0' 1;.% ( )*'%.>*2*' 1',)*' >12+*-. 12' .' >12 0*2,/ '.6 0' ,1%' 2*' '62' 1=*2' 5-**2' .=1,'.;--1;20*0' D ',-**. J' 620' ;.*0' 6.',)*')- ., 62' D;-6/C5-1;20' D;,),)' .' .=1,' .' 12',)*' *6.,*-2' . 0*' 1 ',)*' >, ' 8)*-*6.' 6;/' ?;.',)6+*' 6==-16>)*0' -1?',)*' .1;,)' 1-' 8*.,% 56 2',' 6==*6-.',1' D*' >*-,6 2',)6,' 1;-' 0 ., 2>,' .=1,.')6+*' D**2'=1 2,*0' 1;,' 6,'0 *-*2,',?*.J'M ,62/* '=% NX% 6.',)*' =/6>*' 8)*-*',)*' 5-*6,'/5),' .;00*2/' .) 2*0' -1?')*9+> (7M >,.' L'NX% ( )*' =1 2,'1',)*' 86//.'6,' 8)>)' ,% 6;/' 86.'/*,'0182' D'6'D6.9*,'M >,.' L'K T' K' 1-%L 'NNX' .'6/.1'.)18 2T 620',' .'6'6>,',)6,')1;.*.' 6-*' .,/'>12.,-;>,*0' 2' 6?6.>;.' 2'/9*' ?622*-'1+*-^)625 25',)*' 86//% 2',)*' + > 2 , '1 ' 6?6.>;.' >*-^ ,6 2' =/6>*.' 6-*' .)182' 760 , 126// ' >122*>,*0' 8 ,)' ,)*' =-1=)*,' /.)6T);',),)*.*'/1>6/*5*20.'6-*' 2*>*.^ .6-/ '*+*2' ?1-*' 01;D, ;/.)62',)1.*' 8)>)'6+*' -* ^ *-*2>*',1',)*' >1?=6-6, +*/ '-*>*2,'65*' 1',)*' 6=1../*.% ( )*-*' 6-*' +*2'.=1,.'=1 2,*0'1;,'66',)*' .>*2*' 1 '*+*2,.' 2',)*/ *' 1 ' D-6)6?'M ,62/* '=% X% ( )*' >/ ?6,*' ' 6?6.>;.' .')*6/,) ;/*L>*=,'0;-25' B;/ ' ;5;.,'620' *=,*?D*-'8)*2' *+*-.'620' 1=,D6/C ? 6' 6-*' =-*+6/*2,'*25*20*-*0' D ' /,)' 620' ;28)1/*^ .1?*' 110% ( )*',)*-?1?*,*-'-625*.' -1?'Q j',1'Q j' 6)-%0;-25',)*' .;??*-' 620' .*/01?' 6//.'D*/18' j' 2' 8 2,*-% ( )*-*' .';..;6// '6'/ ,,/*' .218'*6>)' *6-% ( )*' -6 2'D*5 2.'6D1;',)*' ? 00/*' 1 ' >,1D*-'620'>12^ ,2;*.' 6,' 2,*-+6/.', // <6 % ( )*' -*.',' 1 ',)*' *6-' .' 0- '620'>/1;0/*..% ;// 0*.>- =, 12' 1 ' 6?6.>;.' 8 ,)' 21, >*.'=/62.' 620' 0-68 25.' .' 5 +*2' 2' ('@ '< ' ' 9 'M 120% Q K'+1/.%Q+1XT'620' 2',)*'D '$!' ,,%B;/ ' Q N'=%K '._%T' >,% Q N'=% '._%T' .*'6/.1' 00 .12 .' ' ' 'M 'RKC RSXT' & 6/>)' & 4 ' ' ' 'MB*2% '\6' >1=1;.' ,-*6, .*'5 + 25'6//' $>,'92182' 2') .'06Ah T' 6/.1' 2') .' & '&% f 'N'._%XT' *// '$ 'M>)6=' L+X'620' ,-6+*//*-.' 2' 6/*., 2*' 5*2*-6// % *' # 6?6.>;.'(' ' f *'(' ' /' $! 6?6.9 1.'12*' 1',)*'/6.','*>/*>,>'=) /1.1=)*-. 86.'6' 26, +*' 1 ' 6?6.>;.' .;0 *0' ?' /*L620-6' 620' ,)*2.' 620',6;5),',)*' *1C /6,12 >' =) /1.1=) ' 2' ,)*'/6,,*-'>, % 2' >12.*_;*2>*' 1',)*'=*-.*>;, 12' 1' =6562 .?' D ',)*' *?=*-1-' B;., 2 62' 6?6.9 1.' 2' KR'*? 5-6,*0',1' *-. 6'8)*-*')*' 86.' 8*// -*>* +*0' D ')1.-1*.'8)1'6,',)*',-*6, ' 1 '=*6>*' 2' NN' 1D^ ,6 2*0' 1-')?'=*-? .. 12',1'-*,;-2' 620' -**01?' 1').'-*/5 1;.'D*/*% : *' .',)*'6;,)1-'1'6'2;?D*-'1' 81-9.',)*' ?1..' ?=1-,62,' 1' 8)>)' .' *2, ,/*0' / = M*0 ,*0' D 'B% 1== ' -629 1-,' QKSX% 2') .' / *'620' 1= 2 12.'.**' 1==' =-* 6>*',=',)*'6D1+*' 81-9' 620'%B;/*.' ?12' 2' ' ' $ ' " =' %" 4 !' : 1* *-';!'?1 'L 'Q K%

6?6.;.' '=1=*'D1?' 2' =6 2' M1,)*-.' .6 ' 2' 1?*X % 'N S'.;>>**0*0' D*-;.'6.'D.)1=' 1 ' 1?*' % 'QSS' :*' 86.'1==1.*0'D '$-.>2;.' 8)1'>/6 ?^ *0',)*' */*>,12'620' 2',)* -'0 .5-6>*;/.,- *.' ?62' =*1=/*' 8*-*' ?;-0*-*0%% :*' 86.'6'?62'1 '+ 51-1;.' 2^ ,*//*>,'620' *L,*20*0',)*' =18*-' 1',)*' .** 1' 1?*' +*- '5-*6,/ % ( )*' *?=*-1-' 4-6, 62' >12 *--*0' ;=12') ?' 2' N Q',)*' -5),',1' =6..' A;05?*2,' ;=12' ,)1.*' >/*-5 ?*2' 1',)*' 1,)*-'=6-, '8)1')60' D**2' *L=*//*0' -1?' 1?*'620'6',)*-*_;*.,'1'6' 1?62' .7?10')*/0' 2',)*' .6?*' *6-' 2.,-;>,*0',)*' .*>;/6-'6;,)1-, *.',1' 5 +*',1')?' ,)*' 2*>*..6-' .;==1-, ' 6?6.;.' 86.' 6' + 51-1;.' 1==12*2,'1 ' -62 .?T 6'/ 210')*/0' D ')?' 2' NSQ' >120*?2*0',)*' ,81' //A(62' D.)1=.' $-.6>;.' 620' 6/*2.' 620' 621,)*-')*/0' 2' N '=6..*0' .*2,*2>*' 656 2.' ;L*2, ;.'1'< /62% :*' 6/.1'*L*-,*0') ?.*/' 1-' =;,, 25' 62' *20',1',)*' 2, 1>)' .>) .?' 620',119' =6-,' 2',)*' >;?*2>6/ 1;2>/1' 12.,62, 21=/*' 1' NQ % 2*' O ') .' D*.,' 6>,.' 86.',1' ?69*' B*-1?*') .' .*>-*,6- '620',1'6 0') ?' 2') .'+*-. 12' 1',)*' D/O% :*' 0*0' 2' NQ '620'6.,*-') .'0*6,)' 86.' .112'*2-1//*0' 2',)*' >6,6/15;*' 1' .6 2,.' D* 25' >1?7?*?1-6,*0' 12' *>%' % **' 6?6.',% !' '" 'M 1?*' 1/%T' 6-.' Q Q+1XT' <1.)*? % D9% ' >*2,% +\O=,% '>)% ' 21,*' T' < /?62'# ' ' " 1' ' Q'._%T' " ' 5 1' >,% Q 'KQN'._% =6?6.;.' B '=1=*'1-5 26// ' 1==1' 6'26, +*' 1' 6+6- 6% :*' 86.' D.)1=' 1' - L*2' 8)*2')*' 86.' */*>,*0'=1=*' 2' Q';=12',)*'-*>1?7*206, 12' 1',)*' *?=*-1-' :*2-' ' 12',)*' 06 '1',)*' 6DO >6, 12' 1' *2*0>,' d' 620' 0*0',8*2, C,)-**' 06 .' 6,*-').' */*>, 12' Q% 6?62' : $' 1-' 3' + ' 62' *?2*2,'>6-0 26/620'-*1-?*-' 2',)*' 1?62');->)' D1-2' 6,' 6+*226'6D1;,' % :.'=6-*2,.'6==*6-',1')6+*',69*2'?;>)'=6 2.'8,)')..'*0;>6, 12' 1-')*'*6-/' *L>*//*0'6.'?;>)' 2'=*, '6.')*'0 0' 2'/*6-2 25% &)*2')*')60' >1?=/*,*0')..';0*.',)*'*2,*-*0',)*'?126.^ ,*-'1',)*' ':1/' -1..J'6,' +*//626' 2'$?D-6% 1' 5)'86.')..'-*=;,6, 12',)6,'1=*' ,*=)*2' d'>-*6,*0')?'>6-0 26/D.)1=' 1' ., 6% 2' % % S')*'-*^ .52*0'6//)..'=-* *-?*2,.' 8)>)' 6,',)*' -.,' *+*2')60' D**2' 1->*0';=12')?'D* 25';26D/*',1'/+*' 8,)' .;>)' 6'0..1/;,*'0*D6;>)*0'620';2)1/ '>-*8' 6.',)*' >/*-5 '1',)1.*'=6-,.' 620', ?*.' 8*-*% 2',)*' *6-' SR')*' 86.' .*2,'6.'/*56,*',1'=-*+*2,',)*' *?=*-1-' :*2-' -1?'D* 25' 0+1->*0' -1?') .' 8 *' *-,)6% ( )*-*' .';..;6//'6'/,,/*' .218'*6>)' *6-% ( )*' -6 2'D*5 2.'6D1;',)*' ? 00/*' 1' >,1D*-'620'>12^ ,2;*.' 6,' 2,*-+6/.',//<6 % ( )*' -*.',' 1',)*' *6-' .' 0- '620'>/1;0/*..% ;// 0*.>- =, 12' 1' 6?6.>;.' 8 ,)' 21, >*.'=/62.' 620' 0-68 25.' .' 5 +*2' 2' ('@ '< ' ' 9 'M 120% Q K'+1/.%Q+1XT'620' 2',)*'D '$!' ,,%B;/ ' Q N'=%K '._%T' >,% Q N'=% '._%T' .*'6/.1' 00 .12 .' ' ' 'M 'RKC RSXT' & 6/>)' & 4 ' ' ' 'MB*2% '\6' >1=1;.' ,-*6, .*'5 + 25'6//' $>,'92182' 2') .'06Ah T' 6/.1' 2') .' & '&% f 'N'._%XT' *// '$ 'M>)6=' L+X'620' ,-6+*//*-.' 2' 6/*., 2*' 5*2*-6// % *' # 6?6.>;.'(' ' f *'(' ' /' $! 6?6.9 1.'12*' 1',)*'/6.','*>/*>,>'=) /1.1=)*-. 86.'6' 26, +*' 1' 6?6.>;.' .;0 *0' ?' /*L620-6' 620' ,)*2.' 620',6;5),',)*' *1C /6,12 >' =) /1.1=) ' 2' ,)*'/6,,*-'>, % 2' >12.*_;*2>*' 1',)*'=*-.*>;, 12' 1' =6562 .?' D ',)*' *?=*-1-' B;., 2 62' 6?6.9 1.' 2' KR'*? 5-6,*0',1' *-. 6'8)*-*')*' 86.' 8*// -*>* +*0' D ')1.-1*.'8)1'6,',)*',-*6, ' 1 '=*6>*' 2' NN' 1D^ ,6 2*0' 1-')?'=*-? .. 12',1'-*,;-2' 620' -**01?' 1').'-*/5 1;.'D*/*% : *' .',)*'6;,)1-'1'6'2;?D*-'1' 81-9.',)*' ?1..' ?=1-,62,' 1' 8)>)' .' *2, ,/*0' / = M*0 ,*0' D 'B% 1== ' -629 1-,' QKSX% 2') .' / *'620' 1= 2 12.'.**' 1==' =-* 6>*',=',)*'6D1+*' 81-9' 620'%B;/*.' ?12' 2' ' ' $ ' " =' %" 4 !' : 1* *-';!'?1 'L 'Q K%

6?6.;.' '=1=*'D1?' 2' =6 2' M1,)*-.' .6 ' 2' 1?*X % 'N S'.;>>**0*0' D*-;.'6.'D.)1=' 1' 1?*' % 'QSS' :*' 86.'1==1.*0'D '$-.>2;.' 8)1'>/6 ?^ *0',)*' */*>,12'620' 2',)* -'0 .5-6>*;/.,- *.' ?62' =*1=/*' 8*-*' ?;-0*-*0%% :*' 86.'6'?62'1 '+ 51-1;.' 2^ ,*//*>,'620' *L,*20*0',)*' =18*-' 1',)*' .** 1' 1?*' +*- '5-*6,/ % ( )*' *?=*-1-' 4-6, 62' >12 *--*0' ;=12') ?' 2' N Q',)*' -5),',1' =6..' A;05?*2,' ;=12' ,)1.*' >/*-5 ?*2' 1',)*' 1,)*-'=6-, '8)1')60' D**2' *L=*//*0' -1?' 1?*'620'6',)*-*_;*.,'1'6' 1?62' .7?10')*/0' 2',)*' .6?*' *6-' 2.,-;>,*0',)*' .*>;/6-'6;,)1-, *.',1' 5 +*',1')?' ,)*' 2*>*..6-' .;==1-, ' 6?6.;.' 86.' 6' + 51-1;.' 1==12*2,'1 ' -62 .?T 6'/ 210')*/0' D ')?' 2' NSQ' >120*?2*0',)*' ,81' //A(62' D.)1=.' $-.6>;.' 620' 6/*2.' 620' 621,)*-')*/0' 2' N '=6..*0' .*2,*2>*' 656 2.' ;L*2, ;.'1'< /62% :*' 6/.1'*L*-,*0') ?.*/' 1-' =;,, 25' 62' *20',1',)*' 2, 1>)' .>) .?' 620',119' =6-,' 2',)*' >;?*2>6/ 1;2>/1' 12.,62, 21=/*' 1' NQ % 2*' O ') .' D*.,' 6>,.' 86.',1' ?69*' B*-1?*') .' .*>-*,6- '620',1'6 0') ?' 2') .'+*-. 12' 1',)*' D/O% :*' 0*0' 2' NQ '620'6.,*-') .'0*6,)' 86.' .112'*2-1//*0' 2',)*' >6,6/15;*' 1' .6 2,.' D* 25' >1?7?*?1-6,*0' 12' *>%' % **' 6?6.',% !' '" 'M 1?*' 1/%T' 6-.' Q Q+1XT' <1.)*? % D9% ' >*2,% +\O=,% '>)% ' 21,*' T' < /?62'# ' ' " 1' ' Q'._%T' " ' 5 1' >,% Q 'KQN'._% =6?6.;.' B '=1=*'1-5 26// ' 1==1' 6'26, +*' 1' 6+6- 6% :*' 86.' D.)1=' 1' - L*2' 8)*2')*' 86.' */*>,*0'=1=*' 2' Q';=12',)*'-*>1?7*206, 12' 1',)*' *?=*-1-' :*2-' ' 12',)*' 06 '1',)*' 6DO >6, 12' 1' *2*0>,' d' 620' 0*0',8*2, C,)-**' 06 .' 6,*-').' */*>, 12' Q% 6?62' : $' 1-' 3' + ' 62' *?2*2,'>6-0 26/620'-*1-?*-' 2',)*' 1?62');->)' D1-2' 6,' 6+*226'6D1;,' % :.'=6-*2,.'6==*6-',1')6+*',69*2'?;>)'=6 2.'8,)')..'*0;>6, 12' 1-')*'*6-/' *L>*//*0'6.'?;>)' 2'=*, '6.')*'0 0' 2'/*6-2 25% &)*2')*')60' >1?=/*,*0')..';0*.',)*'*2,*-*0',)*'?126.^ ,*-'1',)*' ':1/' -1..J'6,' +*//626' 2'$?D-6% 1' 5)'86.')..'-*=;,6, 12',)6,'1=*' ,*=)*2' d'>-*6,*0')?'>6-0 26/D.)1=' 1' ., 6% 2' % % S')*'-*^ .52*0'6//)..'=-* *-?*2,.' 8)>)' 6,',)*' -.,' *+*2')60' D**2' 1->*0';=12')?'D* 25';26D/*',1'/+*' 8,)' .;>)' 6'0..1/;,*'0*D6;>)*0'620';2)1/ '>-*8' 6.',)*' >/*-5 '1',)1.*'=6-,.' 620', ?*.' 8*-*% 2',)*' *6-' SR')*' 86.' .*2,'6.'/*56,*',1'=-*+*2,',)*' *?=*-1-' :*2-' -1?'D* 25' 0+1->*0' -1?') .' 8 *' *-,)6% ( )*-*' .';..;6//'6'/,,/*' .218'*6>)' *6-% ( )*' -6 2'D*5 2.'6D1;',)*' ? 00/*' 1' >,1D*-'620'>12^ ,2;*.' 6,' 2,*-+6/.',//<6 % ( )*' -*.',' 1',)*' *6-' .' 0- '620'>/1;0/*..%

2>-*6.*' 1 '.= - .;6/ =18*-% /,15*,)*-' 6? 62' 86.' 6?125',)*' 1-*?1..',?*2'1 'D .'65*'D1,)' ?1-6// '620' 2,*//*>.;.6// % : .' 81-9.'8*-*' >1//*>,*0'D ' 6A*,62' M 1?*' S $C 'N'+1/.% 1/%X'620')6+*'D**2'.*+*-6/ , ?*.' -*=- 2,*0'),)*' D*.,' *0 , 12' .' ,)6,' 1 ' 6..62 ' M QN '+1/.% 1/%X% : .'/ *' .'5 +*2' 2',)*' -.,'+1/^ ;?*'1 ').'81-9.'6/.1' 2' N ' ' 1'D ' 60*-C' 3>)' M 1?*' K' ,1X' 620' 2' .,)*' & ' $ ' *D% ' S_% **' ;=2'6 '# '+1/% L'>)% + 'T <1.)* ? %% 87'D9% '>% L '=,% '>)6=' '2% S 'T 6 /7' ' '.% + %' /6-9*' $ ' '$ ' ' S Q' >)-1>9D') " " " 'LL ' SKN'._%' *6'$ ' 'M QS X'>)6=% L %

6? 62 . ,.' ' 6? 62 ,*.%' ()*' 1//18*-.'1 ' 6? 62;.'1 ' /*L620- 6'M_% +%X 8*-*' *1'>6//*0%

6? 8 ; . '<121=DE7.,* =6,- 6->)' 1 ' /*L620- 6' M 'S X'*L=-*..*0') ?.*/ '12',)*'01>,- 2*'1',)*' (- 2^ , ' 2'6'.*2.*' . ? /6-',1',)6,'1 ' 6D*// ;.% : *' ?6 2^ ,6 2*0',)6,',)*' 0 + 2 , ' M C 12 >X 1',)*' 6,)*-',)*' 12' 620',)*' : 1/ ' 4)1.',.' 62' *..*2, 6/ >)6-6>,*- ., >' 0 + 0*0' 6? 125',)*',)-** '.1',)6,',)*' 6-*' 410' 12/ ' 2',)* -';2 , ' 21,' *6>)' 12*' 2') ?.*/ 'ML6 k' 8' 620',)6,' 2',) .';2 , ',)* '>12., ,;,*',)*' 12*' 0 + 2*' *..*2>*' ') 'I* 8!' :.' 1//18^ *-.' 8*-*' >6//*0' 6? 62 ,*.' 6 ,*-') ?' 1-' 25*/ .,.' -1?' 25*/ ;-6',)*'=/6>*' 8)*-*',)* ')*/0',)* -'6..*?^ D/*.' 2' /*L620- 6T ,)* -'60+*-.6- *.' 8*-*'>6//*0' (*C' ,-60 .,.' M(,-=67 6,X' 6.' 51 25' ., //' ;-.,)*-',)62',)*' (- ,)* ..' ,) * ' 6>9218/*05*0' 1 ;-' 510. ' 26?*/ ',)*' 6,)*-',)*' 12',)*' : 1/ ' 4)1.,' 620',)*') 5)*-' *^ 25' 8<>)' 2') .' 26,;-*' I % 8 620' 2') ?.*/ ' + - 8' .' 410% ' : *-[15'5 26 D % ' 'KSNT <1.)* ?' +0 # 'D9% '>)% + '=,% 'g' T : 65*2C D6>)% # ' '' 'g RS%

6? 62;.' ,%' **' !

6? 2%' **' !

6? ? ?%' **'>/' 4 !

6? 26, 12' >120*?26, 12% ().' 81-0' .' ;.*0' ,1'0*21,*',)*' 26/ /1..'1',)*'.1;/'D;', ,' .'21,'6/86 .' ,1'0*,20*-.,110' 2',) .' .*2.*' 2',)*'.6>-*0' >- =,;-*% ();.', .' .'.6 0' 2' 1?%L 'K' ()*' ,)6,'-*. .',.)6// -*>* +*',1',)*?.*/+*.'06?26, 12 I' %*%*>120*?26, 12 ' -1?',)*'-;/*-.'8)1'6-*'21,'6',*--1-',1'5110'8 1-9.' D;',1',)*' *+/ II' 56 2' 2' 1-%L 'KR' : *',)6,' *6,*,)' 620'0- 29*,)' ;281-,) / '*6,*,)' 620'0- 29*,)' 06?26, 12',1') ?.*/ I' %*%*>120*?26, 12T *L=1.*.') ?.*/ ',1' .*+*-*',*?=1-6/ A;05?*2,.' -1?' 410'620' ,1',)*' A;05?*2,'620'>*2.;-*' 1',)*' 8 .*' 620' 5110% 56 2' 1?%L + %KN' : *',)6,'01;D,*,)' .'06?2*0' ')*' *6, J' %*%*.:>120*?2*0'D1,)'D ') .'182?>12.> *2>*' 620',)*' 81-0'1'410'D*>6;.*')*' .' 6-' -1?'D* 25'.6,^ . *0',)6,')*' .'- 5),' 2' .1'01 25% ' ;>9' -'" !' ' =1 '.%+C

62'M: *D% !' A' !* :' *=,% & 8',)*'26?*' 1'6'?62'620') .',- D*'620'1',81',182.% **' ' 4' '4 g .45 !

% MB1.*=);.',-62./6,*.' n0M>=,-1>F & !' ' ()*' ,)'.12'1 'B6>1D'620',)*' -.,'1' /)6)' 6>)*/.' I' ?6 0' M4*2% LLL 'SX'D1?' % %' R S% ()*' 1- 5 2' 1 ' ,)*' 26?*' .',)*-*' 5 +*2' 2',)*' *L>/6?6, 12' 1 ' 6>)*/ ' `410')6),)'A;05*0' ?*' M!NN!B' (8' % %' ' 620' 5 +*2' ?*' 6'.12 ' ,)*-* 1-*' .)*'>6//*0') .'26?*' 62 J % %' A;05*%J' 2',)*' D/*.. 25' 1 'B6>1D' M4*2% L/ L KSX' ,) .' =/6 ' 12',)*' 26?*' .' -*=*6,*0 ' 62' .)6// *- ;/ 6+ O%X ;',) .' ->)' 0 ,-'>,' ,)*' >1-2C */0' 620',)*'56-0*2'1 ',)*'8)1/*' .1;,)' 1 ' 6/*., 2*' 8)>)' 86.' ,)*' ->)*.,' =- [*' 1 ')>*2>62' >12_;*.,' ?62 ' >*2,;-*.'/6,*-'620'8)>)' *+*2' 2',)*'218'0*5*2*-6,*' .,6,*'1',)*'>1;2,- ' .'*21-?1;./ '=-10;>, +*'86.',11' +6/;6D/*',1'D*5 +*2';=' 8,)1;'6'.,-;55/*'D ' ,.'1-5^ 26/ =1..*..1-.% ()* ?1-,.*.' 6>>1-0 25/ ' 1->*0' ,)*>) /0-*2'1 ' 62' 2,1',)*'?1;2,6 2' 1-',)*' 81;/0' 21,'.; *-',)*?',1'>1?*'0182 2,1',)*'+6//* J'MB;05% 'N X' 1->*0',)*?';=' -1?',)*>1-2C */0.'1',)*'=/6 2' 8 ,)',)*-'0**='D/6>9'.1/',1',)*'+ //65*.' 8)1.>0-; 2.

, // >-182',)*') //.' ,) 6,' . 9 -', ,)*' /18/620% (-;*' ,)*')*/=' 1 ' ,)*' 5-*6,',- D*' .1' >/1.*/ ' >122*>,*0' 8 ,)' 62' 86.' 21,' 862, 25' 6,' ,) .'A ; 2>, ; -*' 620' ' ,)*') 620' 1 ' ,)*' >) /0-*2' 1 ' B1 .*=) J' %' *%' =)-6 ? ' =-*+6 /*0' 656 2.,' ,)*' ?1- , *. J' 1-' ,)*' , ?*%' ; ' ,)*' .6 ?*' ,) 25' .112' 1>>; --*0' 656 2 ' 620' 2' ,)*' 5/ ?=.*' 8 ,)' 8) >)' 8*' 6-*' 6 , *-86-0.' 6+1-*0' 2,1' ,)*' 2,*- 1-' 1 ' ,)*' , - D*' 2' ,)*') . ,1- ' = ' ,.' 5-76,')*-1' ,)*') / .^ , 2*.') 6+*' ,69*2' ,)*' =/6>*' 1 ' ,)*' ?1- , *. ' 620' 8 ,)' ,)*' .6 ?*' -* . ; /,%' /,) 1 ; 5)' 6?.12' >1?*.' 0182J' ,1' ,)*' ' + 2* 6-0.' 1 ' (?26,) J' 620' ,)*' +6//* ' 1 ' 1C -*9 ' *,' , ' .' -1?' /6)62*)C 62 ' ,)*' 1-, *0' >6?=' 1 ' 62' D*, 8 **2' U1-6)' 620' .), 61/' D*) 20' -A6,)C A*6- ? ' 7,)6,') *' 0*.>*20. ' 620' ,' .' , 1' ,) 6,' 26,, ; -6/ 6 . , 2*.. ' ,)*' -*. 0*2>*' 1 ') .' 6,) *-' .) 6, ') *' ' ' ; =J' 656 2' 6 , *-') .' *2>1 ; 2, *-. ' 620' ,) 6, ') *' .' 6, ' /6. , ' D1-2*' , 1') .' 6? / ' .*=; />)-*' ,)*' D ; - 25C=/6>*' 1 ' < 6216)' MB ; 05% L + ' 'S RT' L ' K T' L+ ' T' >1?='L+ ' KT' L+ ' N X%' , '6==*6-.' -1?',) 6, ') . , 1- ' ,) 6, ' ,) *-*' 86.' 62' ; 20*-C>; --*2, ' 1 ' =- +6, *' 620' .1> 6/ 2, *->1 ; -. *' D*^ , 8 **2',) *') / . , 2*.' 620' ,) *' 62 , *. ' 21, 8 ,) . , 620^ 25' ,) *' =; D/ > ' *2 ? , ' D*, 8 **2' .-6*/ 620' ,) *' 1-?*-' 3MB ; 05% L CL+ XH

( ) *. *' >12. 0*-6, 12.' *26D/*' ; .' , 1' ; 20*-. , 620') 18' ,) 6==*2*0' ,) 6, ' /125' 6 , *-' ,) *' =6-, , 12' 1 ' ,) *' /620' '6// ,) *' 2) *- , 62>*' 1 ' ,) *' 62 , *. ') 60' 21, ' 6, , *2' , 1' ,) *?' 6?125' ,) *' , - D*. ' 1 ' .-6*/J' MB ; 05% L + ' X% ( ) *' = *-) 6=. ' ; -2 .) ' 6' -*6.12' 1-' ,) *' 6D.*2>*' 1 ' 62' -1?',) *' 5-*6, ' 56,) *- 25' 1 ' ,) *' , - D*. ' 656 2. , ' .*-6' MMB ; 05% ' X%' ( ) * '6/. 1' *L=/6 2',) *' 86-/ 9*' 620' 2^ 0*=*20*2, ' >) 6-6>, *-' 1 ' ,) *' , - D*' D*, 19*2*0' 2' ,) *' 26?*' 1 ' ,) * -') *60C _ ; 6-, *-. ' 6. 'A ; . ' _ ; 1, *0 ' 7<6/762*DC 62 ' ' ,) *' >6?='1-') 1. , ' 1 ' 62J ' ¯2' ,) *' 6>, ' . =*> 6/^ / ' 2. .,*0' 12' 620' -* , *-6, *0' ML+ ' S X' 1 ' ,) *' >1?=/*, *' *_ ; =?*2, ' 1 ' ,) * -' S '86-- 1-.' 6==1 2, *0' 8 ,)' 8*6=12.' 1 ' 86- J' 620' ,) *' /68/*. .' -**D11, 25' . , /*' 1 ' ,) * -' D*) 6+ 1-', 1' < >6) %' ( ) *-*' . ' .1?*.) 25' +*- '>) 6-6>, *- . , >' 2' ,) *' 8) 1/*' 1 ' ,) 6, ' ?1. , ' -*.) ' 620' 2, *-*. , 25' OH, 1- ' =-*. *-+*0' , 1' ; .' 2' B ; 05% L + ' 6' 26--6, +*' 8 ,) 1 ; , ' 6' =6-6//*/ 1-' ,) *' + + 0' 5/62>*' , ' 6 ^ 1-0' 2, 1' ,) *' ?622*-. ' 1 ' ,) 6, ' 0 . , 62, ' , ?* ' >) 6-6>^ , *- . , >' 1 'D1/02*. .' 620' .656> , ' 8 ,) ' 6' +* 2' 1 '5- ?' .6-012 >') ; ?1-' D ; . ' ; 20* 1-?*0' D ' 62 ' ; 22*>*. .6- ' D/110.) *0%

2' ,) *' . *>; - , J' 620' _ ; *, J' MB ; 05% L + ' X' 1 ' ,) *' -' - >) ' 21-,) *-2' =1. .*. . 12' ,) *' 62 , *. ' *2A1 *0' ,) *' /* . ; -*' 620' -*=1.*' 8) >) ') 60' D**2' 0*2 *0' ,) *?' 2' ,) * -' 1- 5 26/ . *6, %' ; , ' 1 ' ,) *' 6, *' 1 ' ,) *' > , ' , 1' 8) >) ' ,) * ' 56+*' ,) *' 26?*' 1 ' ,) * -' 6,) *-J' MB1.) ' L L ' X' 8*' 9218' .>6->*/ ' 62 ,) 25% ( ) *' . , -125' -*^ / 5 1 ; .' **/ 25' 8) >) ' ?60*' ,) *' 62 , *. ' . 1' 62L 1 ; . ' , 1' 6.9' >1 ; 2.*/ 1 ' 410' -1?' < >6) . ' *+ , *' 6, ' ,) *' >1?^ ?*2>*?*2, ' 1 ' ,) * -' *L=*0 , 12' MB ; 05% . +/ ' X' 620' 6 ^ , *-86-0.' , 69*') ?' 686 ' 8 ,) ' ,) *?' , 1' D*' 6' =- *. ' , ' ; 2, 1' 6' , - D*' 620' 6' 6? / ' 2' . -6*/ J' ?6 ') 6+*' =1 2, ^ *0' 1 ; ' ,) * -' . *, , /*?*2, ' , 1' ,) *' 21, >*' 1 ' B*-1D16?' 6. ' 6' , ' =/6>*' 1-') . I' 21-,) *-2' . 62>, ; 6- %' ; , ' D* 120' ,) *' *L>**0 25/ ' 1D. >; -*' 21, >*' 2' B ; 05% L + ' N ' 8*') 6+*' 21' 2 1-?6, 12' 12' ,) . ' . ; DA*>, %' -1?' K') -12%' ' ' , ' 81 ; /0' 6==*6-' ,) 6, ' ,) *' 62 , *. ') 60' 21, ' 9*=, ' ,) * -' =; - , ' 1 ' / 2*65*' D ; , ') 60' 2, *-?6-- *0' 8 ,) ' ,) *') > *C 2 > 62. ' 1 ' ,) *' >1 ; 2, - %' M **' 62' */6D1-6, 12' 1 ' ,) . ' 2' /; 2, ' ' =, %' ' >) %' +%X

2' ,) *' , ?*' 1 ' 6+ 0' 62' . , // 9*=, ' , . ' =/6>*' 6?125' ,) *' , - D*. ' M ') -12%' L ' N X%' .) *-' . ' 1?, , *0' D ; , ' ,) *' =- 2>*' 1 ' ,) *' , - D*' 1 ' 62J' . ' ?*2, 12*0' 2' ,) *' / . , ' 1 ' ') -12%' LL+ ' KK%' ; , ' -1?' ,) . ' , ?*' 1-^ 86-0' ,) *' 26?*' 6. ' 6==/ *0' , 1' ,) *' , - D*' +62 .) *. ' . ' , ' . ' 9*=, ' 6/ +*' 12/ ' D ' ,) *' 21-,) *-2' > , %' 2' ,) *' 5*2*6/^ 15 *. ' 1 ' ') -12%' ' , 1' L ' 62' . ' 1?, , *0' *2, -*/ ' 8) >) ' . ' -*?6-96D/*' 8) *2' ,) *' 5-*6, ' 6?*' 1 ' 6?.12' 620' ,) *' 86-/ 9*' >) 6-6>, *-' 1 ' ,) *' , - D*' 6-*' >12. 0*-*0 ' 620' >62' 12/ ' D*' 6>>1 ; 2, *-0' 1-' D ' . ; ==1. 25' ,) 6, ' , . ' 5*2*6/15 *. ') 60' =*- .) *0%' , ' . ' =*-) 6=. ' 6//18 6D/*' , 1' . ; ==1. *,) 6, ' / , , /*' >6-*' 81 ; /0' D*, 69*2' , 1' =-*. *-+*' ,) *' -*>1-0. ' 1 ' 6' , - D*' 8) >) ') 60' / *. ' , . ' 1- 5 26/ . *6, ' 2*6-' ,) *') *60C _ ; 6-, *-. ' 1 ' ,) *' 26, 12 ' 620' 5 +*27, . ' 26?*' , 1 6' 0 . , 62, ' > , ' 21, 1- 1 ; . ' 12/ ' 6. ' ,) *' . *6, ' 1 ' 6' - +6/' 620' 6' 1-D 00*2' 81-.) =%' 6. , / ' 62' . ' 1?, , *0' -1?',) *' / . , ' 1 ' ,) 1. *' 8) 1' 8*-*' . *6/*0' D ' ,) *' 625*/' 2' ,) *' + . ^ 12' 1 ' B1) 2' M *+%'+ ' C X% ' ? ,) ' ' ' ' ; ' . %'+%' *-) 6=. ' ,) *' =1-, 12' 1 ' ,) *' , - D*' 8) >)' -*?6 2*0' .1 ; , ' 86.' 2' , ?*' 6?6/56?6, *0' 8 ,) ' ,) *' , - D*' 1 ' B ; 06) ' M6.' 6==*6-.' 2' ,) *' > , *.' *2 ; ?*-6, *0' 6 , *-' ,) *' *L /*' *) %' L ' N X' 8) /*' ,) *' 21-,) *-2' . *>, 12' ; 2 , *0' 8 ,)' ,) *' 21-,) *-2' >12 *0*-6> ' 620' .) 6-*0' 2' , .' 0 . =*-. 12%

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( ) *' ?*2, 12' 1 ' ,) .' , - D*' 2' ,) *' D/*. . 25. J' 1 ' B6^ >1D' 620' <1. *. ' ? ; . ; ' 21, ' D*' 1+*-/119*0' D ; , ' , ' . ' 0 ^ > ; /, ' , 1' *L, -6>, ' 62 ' . 6, . 6>, 1 - ' ?*62 25' -1?' ,) *?%' >>1-0 25', 1' B*8 .) ', -60 , 127' B6>1D . ' D/*. . 25' 12' 6-, .' 6' =-1=) *, >' 6//; . 12' , 1' 6?.12' ,) *' 5-*6, ' A, 05*J' 1 ' ,) *' , - D*' 1' 620' ,) *' *A6>; /6, 12' 8 ,) -8) >)' , ' >/1.*' 86.' ,) 6, ' 6>, ; 6// ' ; , , *-*0' D ' 6?.12' 8) *2' D-1 ; 5) , %

2,1' ,) *' ,*?=/*' 6,' 46[6% M **' ,) *' (6-5; ?' .%B126^ ,)62' 12' 4*2% L/ L ' S' T' 620' ,) *' _; 1,6, 12.' 2' 6(/ .>) .' ? ' 60' /1>%X <10*-2' >-, >.' / 9*8 .*' .**' 62' 6//; . 12' ,1' 6?.12' 2' ,) *' ,*-?.' 1 ' ,) *' D/*.. 25.' 8) >)' ,) *' =-*.; ?*' 12' ,) 6,' 6>>1;2,' ,1') 6+*' D**2' 8-,,*2' 6 ,*-' ,) *' 06 .' 1 ' ,) *' B; 05*.' M 86/0 ' ? "!' RKX% B*-1?*.' 1D.*-+6, 12.' I !' ' ? $8 12' ,) .' =6.^ .65*' 6-*' +*- I' 2,*-*., 25% : *-0*- .' 2,*-=-*,6, 12' 6.' 5 +*2' D ' ,62/* '> '=% NQQX' .' 6.' 1//18 .T' ' ,' .' 01; D, ; /' 8) *,) *-' ,) *' 0*/ 2*6, 12' 1 ' 62' 2' B6>1D .' D/*.. 25' -*/6,* .' ,1',) *' 1- 5 26/ .*,,/*?*2,' 12',) *' 8*.,^ *-2' 1; ,7 -,.' 1 ' B; 06) ' 1-' ,1' ,) *' 21-,) *-2' 1; ,=1.,% : *-0*- .'*L=/626, 12' 8 // 6==/ '6/?1.,'*_; 6// ,'1'D1,)% ` 62 ',) *' A; 05*' ` .) 6// A; 05*') .' =*1=/*T') *' ,) *' .12' 1 ',) *' >12>; D 2*' 21' /*..',) 62',) *' .12.' 1 ' *6) T') *',) *' -12, *-',- D*' 21'/*..',) 62',) 1.*' 2',) *' =/6>*.' 1 ') 121-' .) 6// D*' `6.' 12*' 1 %,) *',- D*.' 1 '  .-6*/%'  ` 62' .) 6// D*' 6'.*-=*2('D ',) *-' 8 6 '62' 600*-' 2',) *=6,) ',) 6,' .' 1 ',) *' 2+60 25' *2*? 'D ',) *' 21-,) ' 1-' D ',) *' 8*.,' `,) 6,'D ,*,)',) *' ) **/.' 1 ',) *') 1-.*'',) *' 20 5*21;.',.*-^ =*2,' D , 25',) *'  1-* 52' ) 1-.*'  ;292182',1'  .-6*/ ,* 86- 6-*' 1',) 6,') .'- 0*-' .) 6// 6// D6>986-0.%'  20' / .' 86-<>- '6.'  -1?' ,) *'  -12, *-' 1-,-*..*.' .) 6// D*' ` 1-' ( ) ' .6/+6, 12' ' 1-0' ') 6+*' 86 ,*0(;' 2',) *' D/*.. 25' 1 ' <1.*.' ,) *' .1;,) *-2' 62' .' /1.,' . 5),' 1 % ()*' 21-,) *-2' 62' 6/12*' 6==*6-.' 8 ,) ',) *' .6?*' >) 6-^ 6>,*-.,>.' ,) 1;5)' ;20*-' 6' 0 *-*2,' ?65*T' `6' / 12 .' 8) */=' 2' ,) *' 6-' 21-,) ' 6.' B; 06) ' 2',) *' 6-' .1;,) T' `) *' .) 6// /*6=' -1?' 6.D62 ' -1?',) *' ./1=*.' 1 ' : *-(' ?12' 8) *-*(') *' .' >1;>) *0' 86,>) 25' 1-') .'=-* %J K% MB1.*=);.' -1' & !(8' ()*' >, '.1' 6? / 6-'B6.05%L+ I,) 1;5)' ., // ?62 '>*2,;- *.' /6,*-',) 62',) *' , ?*' 1 ' D-6) 6?% ;',) *' .;DA*>,' .' +*- '0 >;/, ' 620' 8*' >62',) 6-0/ ') 1=*',1' 6-- +*' 6,' ?1-*',) 62' >12^ A*>,;-*' ;=12',% & ,)' -*56-0',1' 4*2% L +' ',) -** *L=/626, 12.' .;55*.',) *?.*/+*.' !' ()6,' 621,) *-' =/6>*' 1 ',) *' .6?*' 26?*' .' 2,*20*0% M **' 6/ >) ' !' 1-' 62' 25*2 1;.' .;55*., 12' 1 ' 62CA662X% 56 2.',) .' ?6 'D*'=;',) *' D*/ *' 1 YB1.*=);.' M>1?=*& !' ' ' 8 ,) '+'N X' 620' 1 'B*-1?*'>, !'.%+% 6.6' >1?=' 8 ,) ' % !' # " ' ' ? ' L 7' X' 8) 1' D1,) ';2) *. ,6, 25/ ' 0*2, ',) *' 62' 2*6-' -62*C' 6.' 8 ,) ',) *' 62' 1 ' D-6) 6? "!' () 6,' .' 6' =-1=) *,^ >' 62, > =6, 12' D ',) *' .6>-*0') .,1- 62' 1 '6'26?*' 8) >) ' 86.' 21,' ,1' *L .,' , // ' >*2,;- *.' /6,*-' A; .,' 6.' 6?.12') 6.' D**2') */0',1' D*' 6//; 0*0',1' 2',) *' D/*.. 25' 1 ' 62' D ' B6>1D ' >% ()6,' ,) *' =6..65*' 1- 5 26// ' >12,6 2*0' 62' 1/0*-' 26?*' 6.' 6 .) T' 620',) 6,' 8) *2',) 6,' 86.' .;^ =*-.*0*0' D ' 62',) *' 2*8' 26?*' 86.' 2.*-,*0' 2',) *' < % () .' /6.,' .' 86/0 .' >? "!' ' NX' 620' 1',) *' ,) -**' .',) *' ?1.,' *6. D/*' *.=*> 6// ' 8) *2' 8*' >12. 0^ *-',) *' >) 6-6>,*- .,>' 5*2; 2*'6 -'1',) *' .,1- ' 2'B; 05*.' 8) >)' L*.',) *' 1- 5 2' 1',) *' 26?*' .1'> ->; ?..62, 6// ' B1.*=);.' >& !'+'N X' .=*69.'=1. , +*/ ' 1',) *' . ,;6^ , 12' 1 ' 6 .)' 6.' '21,' 6-' -1?' <1;2,' D62;.' 620',) *' .=- 25.' 1 ',) *' /*..*-' B1-062' 2*6-' MY--,-0X',) *' 5-*6,' =/6 2' 1 ',) *' >, ' 1 ' 012J' M>1?=6-*' 6/.1' & !'+ 'Q XT' 620',) . '6.'A; .,'.6 0 ') *' 0*2, *.' 8 ,)',) *' 62' 2' 4*2% L +' '>& !' ' X' 2' >12.1262>*' 8 ,)',) .' 6-*',) *' 21, >*.' 1 'B*-1?*' 8) 1' 0*- +*.',) *' 81-0' B1-^ 062J' -1?',) *' 26?*.' 1 ' ,' ,81' .1;->*.% 2' *;,% LLL +' ' 6/.1' 8*' 20',) *' =)-6.*' '6//',) *' /620' 1' 4 /*60'; 2,1' 62J' *?=/1 *0' D ' <1.*.' .1?*' , ' *6-.' D* 1-*',) *' >12_;*.',' 1 ' *.) *?% ()*' /1>6/ , ' 1',) *' ,18 2' .'.=*> *0' 8 ,)' .1?*' ? 2;,*2*..% ,' 86.' ' 6-' -=?' U 012 J' 620' 2',) *' +6//* 'M=7H '5 &',) 6,' .' D ' M X' *,)C-*) 1DTJ' D;,' 6.',) .' /6,,*-' =/6>*') 6.' 21,' D**2' 0*2, *0' 8 ,)' >*-,6 2, ',) *' =1. , 12' 1 ' 62' ? ; .,' D*' 6.>*-,6 2*0' D '1,) *-' ?*62.% B1.*=) ;.' .6 .' ,) 6,' ,' .,110' 7,' ,) *' /*..*-J' 1;2,6 2' 1 ',) *' B1-062' %%%' 2',) *' =/6 2' 1 ' 012' 6' 06 .' A1;-2*' -1?',) 6,' >, '620',) 6,' ,) *' =/6 2' 6-1;20' ,' +6.' 1 'B*L,-61-0 26-' *-, / , '>& !' ' T' +'N T' + 'Q T' ' +' X% ;.*D ;.' 620' B*-1?*' 6-*' ., // ?1-*' *L=/ > , ' ' + /(' 165*' I1O-' ' ' ' 12',) *' -160' /*60^ 25',1' (-*T' ,' 86.',) *' D1;206-A' 1 'B;06*6' I % ' * ' (18B6 6*7620' 6,' ,',) *' B1-062',119' ,.' - .* J' B*-1?*

600. ' *' _;1' *,'B1-062 .' 0; ? *2' *-; ? =*2.' '" /1>1' .1-, ,; .' *..' 21 ? *2% D ' _; ==*' =6 =1, ' 0' *.,' /; + C' ; ?' . -*' - +; ?' : *D-L* ' +1>62, J I , ' .% +% 62X% 1 ? *' 8 - ,*-. ' D1,)' 62> *2, ' 620' ? 10* ? ') 6+*' >12^ 1; 20* 0' 62' 7 ,)' 62* 6. ' 1 -' A .6- *6') / == ' M) /1. C' ,1-5 ; . ' # ' + ' NT' ( ) *101-*,' 1 ? % T' 62. 12 ' ? ! $! ' .% + % T / 1-0' ' ' L+ ' NX% ( ) . ' *--1-' 6==*6-.', 1') 6+*' 6- . *2' >) * / ' -1, 2' 20* 2 . *' -* ? 6-9. ' 1 ' B*-1 ? *' 2') . ' >1 ? ? *2, 6- ' 12' [*9% L/+ ' Qa 62' % % ; D, ') 10 *' 62* 6. ' _; e' _; 1206 ? ' e . 6-* 6') / == ' +1>6D6, ; -T I 620' 12' ? 1. ' + 62' 2', *-C' ? 2 . ', *2 I e' B; 06 > e ' ' ' !1J ', . '=/6 2' -1 ? ' B* -1 ? * . ' 81-0. ' 2',) *' , ',) 6, ') *' 92* 8' ,) *' ., -; *' . ,*' 1 ' 62 ' 620',) *-* 1-*' ,) *. *' 21, > *. ' ? ; ., ' D*' ; 20*-., 110' 6. ' ? *62 25',) 6, ' e . 6-* 6') / == ' 86. ' 2') . ' O6 . ',) *' =- 2> =6/ , 182' 2',) *' /1>6/ , ' 8) *-*' 62' 86. ' . ; 6, *0 ' 620',) 6, ' D1,) ' 8 *-*' ; =12',) *' D1-0*-' 1 ' 6/*., 2*% ( ) *' B*-; . 6/* ? ' (6-5; ? ' >6// . ' , ' 62' 1 ' .6-*6 J' 2, ? 6, 25' , .' + > 2 , ' , 1',) *' /6, , *-' M1 , ' , ! L + ' T .**' */620 ' ! ' =% R RCK X% 2' =*-^ *>, '65-** ? *2, ' 8 ,) ',) . ' . ',) *' =1. , 12' 1 ' H (' =) ' 6' ? 1; 20' -1 ? ' ,) *' 11, ' 1 ' 8) >) ' 5; .) *. ' 1 ; ' 12*' 1 ' ,) *' /6-5*. ' 1; 2, 6 2. ' 2',) *' 81-/0 J',) *' ? 6 2' .1; ->*' 1 ',) *' B1-062' M 1D 2.12 ' '5 ! ' NR CNRNX ' ( ) *' ,*// ' ,. */ ' - . 25' -1 ? ' ,) *' =/6 2' D ' .1 ? * 8) 6, ' . , **=' ,*--6>*. ') 6. ' , . '/125 ' /*+*/ ' ,1=' . , -* 8*0' 8 ,) ' -; 2. ' 620' . ' +*- ' =-1D6D/ ' ,) *' . , *' 1 ' ,) *' , 182' 620' > , 60*/' 1 ' 62% ( ) *' .=- 25' . ' >6// *0' 2 ' =1. . D/ ' 6' >1-^ -; =, 12' 1 ' 62' M 1D 2.12 ' ' NRKX ' 620',) *' . , -*6 ? ' -1 ? ' ,) *' .=- 25' 7 " ' 1 ' " ' M & . /.12 ' ' NX ' 8) /*' ,) *' 26 ? * ' - ' =) 1' ,) *' B; 05* . ' ? 1; 20 J' 65-** . ' 2' . 52 >6, 12' 8 ,) ',) *' 62> *2, ' 26 ? *% ( ) 17*' 8) 1') 6+*' + . , *0' , ' 5 +*' ,) *' *L6>, ' 65-** ? *2, ' 1 ',) *' . =1, ' 8 ,) ',) *' -* _ ; -* ? *2, ' 1 ',) *' . , 1- ' 2' B; 05% L+ ' 6' 5110' 620' 620' 6' /6-5* ' 8) *-*' ,) *-*' . ' 21' 862, ' 1 ' 62 ^ ,) 25',) 6, ' . ' 12',) *' *6-,) J' M ( ) 1 ? . 12 ' ' ' ; +1' ' NK X% (*// */C 60 ' .' > ; =C.) 6=*0 ' -*. * ? D/ 25' 62' *L, 2>, ' >-6, *-' 620' . ' >1+*-*0' 8 ,) ' 6' 0*2. *' A; 25/*' 1 ' ,) 1-2. ' ,) . , /*. ' 620' -629' 8**0. C' . ' > ->; ? *-*2>*' . ' 6D1 ; ') 6/ ' 6' ? /*' 620' , . ' 5-*6, *. . ' */*+6, 12' 6D1+*' ,) *' =/6 2' * 5), ' **, % ( ) *-*' 6-*' .1 ? *' , -6>*. ' 1 ' 1/0' 1; 206, 12. ' 620') *6=. ' 1 ' /6-5*' . , 12*. ' 12',) *' , 1=' 620' . 0*. ' 1 ',) *' .1 ; ,) *-2' =6-, ' 1 ',) *' - ? ' 8) *-*' =*-) 6=. ' ,) *' > , 60*/' 1-' 6', * ? =/*' ? 6 ') 6+*' . , 110% ( ) *-*' 6-*' 6/. 1' -; 2. ' 2' ,) *' =/6 2' 6' .) 1-, ' 0 . , 62>*' 21-,) ' 1 ' ,) *' , *//% ') *-*' 6-*' 01; D, /*. . ' 1,) *-' -*? 6 2. ' D ; ',) * '6-*' 218' >1+*-*0' 8 ,) ' 5-6. . ' 620' A; 25/*% . ',) *' 8*. , *-2' D6. *' 1 ',) *' , *// ' . ',) *' 5-*6, ' 1; 2, 6 2 ' 620',) *-*' . ' 6' . ? 6//*-' 12*' 8 ,) 2',) *' > ; =' .) 60*0' D ' 21D/*' 169C, -*** ' M 1-, *-' ' 1' ' N NX ' D1; ' , 6' _; 6-, *-' 1 ' 62') 1; -' 21-,) ' ; ->9D6-0, ' 21, >*0' -; 2. ' 1 ' 62> *2, ') 6D ^ , 6, 12. ' T 620',) *') // 8) >) ' 1+*-) 625. ' ,) *' 1; 2, 6 2. ' 6==*6-. ' , 1') 6+*' D**2' D; /, ' ; =12' .) 1; 5) ' 21,) 25' . ' 218' + . D/*' M ; ->9) 6-0, ' $ ' =% KT 1D 2.12 ' 5 A' " ' 'NS CN QX% ' ,, 1 ' .% + % T ? ,) ' . % + % N% ' 62' 6/. 1J' . , 620. ' 2',) *' % % 6. ' ,) *' -*20*- 1 ' IN 1' / , % ' ' : *=, ' , -62. /6, *. ' ; 20 . , 2C' 5; .) 6D/ X ' 62' -6D 62' > , ' ? *2, 12*0' 2' [*9% LL+ ' R' 6. ' 6' =/6>*' -1 ? ' 8) >) ' >/1,) . ' 8 -1; 5), ' -12 ' >6. . 6 ' 620' 1,) *-' . = >*. ' 8 *-*' D-1; 5), ' 1 ' (-*% ' ' . ' =-1D^ 6D/ ' ? *62, ' ,) *' > , ' 620' ? 6-, ' 1 ' & 1' 2' >122*>, 12' 8 ,) ' 8) >) ' 0- . ' *2; ? *-6, *. ' ,) *. *' +*- ' 8 6-*. ' T ( ) *' ,182' 1 ' 0*2' . ' . ? 6// ' D ; , ' >*/*D-6, *0' 1-' , . ' . *6=1-, ' -1 ? ' 8) >) ' +*. . */. ' . 6 / D1; 20' 1-' 20 6 ') 26 ' 620' 2* 5) /8- 25' >1; 2, - * . ' -*, ; -2 25' 8 ,) ' >6-51*. ' 1 ' -=2 ' 6 ? 6. >; . ' . 81-0CD/60*. ' % % % % ' >6-06 ? 1 ? ' > 226 ? 12' % % % % ' ? -1D1/62' % % % % ' 620' +6- 1; . ' 9 20. ' 1 '- >) ' 5^ ; -*0' 620' +*/+*, ' . , ; . J' M ' X ' M **' <> ; //1>) . ' ? 1' 1' . % + % 0*2X% ** !

626 62 */ % % ' 6' -*. D , *- 62' ? 2 . , *- ' 86. ' D1-2' 6, ' =. 8 >) ' <6. . % 7 B; / ' K '620' 86. ' *0; >6^ , *0' 6, ' 6-, ? 1; .) ' 1 // *5* ' 8) *-*') *' 5-60; 6, *0' 2' QQ% 1-' . *+*-6/ *6-. ') *' 86. ' *? =/1 *0' 6. ' 6' , ; , 1-% 2' RN) *' 86. ' / >*2. *0' '6. '6' _; 6/ *0' >620 06, *' =-*6>) *-' 1 ',) *' 41. =*/ 1 ') - . , % J' 2' R ') *' 86. ' 1-06 2*0' =6. , 1-' 1 ',) *' -*. D , *- 62' >) ; ->) ' 2' 7 D ; - = 1 -, 620' 6 , *-' 6' . ; >>*. . ; / ? 2 . , - ' 1 ', 8 *2, C. L' *6-. ' 86. ' , -62. *--*0', 1' : 621+*-' *8' : 6 ? =.) -*' 6. ' =-*. ^ 0*2, ' 1 ' 6-, ? 1; ,) ' 1//*5*% : *' . 112' 8 ,) 0-*8' -1 ? ' ,) 6, ' =1. , 12' 6. ' ; 2>125*2 6/ 8 ,) ') . ' **/ 25. ' 620' . *, ^ , /*0' 2' 120120*-- ' 6. ' =6. , 1-' 1 ',) *' >) ; ->) ' 8) *-*') *' -*? 6 2*0' 1; -' *6-. ' 620' 6') 6/ % 2' QKS ') *' D*>6 ? *' =6. , 1-' 1 ',) *' *>120' -*. D , *- 62' >) ; ->) ' 6, ' *8 D2- C' =1-, ' 8) >) ' =1. , 12') *' -*. 52*0' 2' Q ' 2',) *' . *+*2^ , C ,) ' *6-' 1 ') . ' 65*% -% 626' 86. ' -*56-0*0' 6. ' 12*' 1 ',) *' ? 1. ' 6D/*' 0*+1, *0 ' 620' ; . * ; /' ? 2 . , *-. ' 1 ',) *' =*- 10' 2' 8) >) ') *' / +*0% J' : *' 0 *0' ; 5; . ' KS QSR% : *' *0 , *0' 4 DD12 . ' % NV> ? 1, -. ' ' ' ' M Q KX ' 620' /6+*/ . ' + ' 620' = ; D/ .) *0' 2; ? *-1; . ' , -6>, . ' 620' . *-? 12. % ' & / .12 ' " ' & 1' QS ' =% Q T ' 5 1' B62 ' QS T =-65; *' ' ' ' ' ' % % M 1. , 12 ' QSSX

626 ' B6 ? *. ' % % ' 6' 125-*56, 126/' ? 2 . , *-' 86. ' D1 ? ' 2' 6? D- 05*' N ' 5-60; 6, *0' 6, ' : 6-+6-0' N ' 620' 2' Q' 86. ' 2. , 6// *0' =6. , 1-' 6, ' & 6 // 25 1-0 ' 122 ' : *' D*>6 ? *' =6. , 1-' 1 ',) *' -. ') ; ->) ' *8' : 6+*2 ' QRT' 86. ' 0 . ? . . *0' B; / ' N Q T 620' 0 *0' ; 5% Q Q K% : *' 86. ' ? 60*' % % D ' ,) *' $ 2 +*-. , ' 1 ' 0 2D; -5) ' SQ% -% 626' = ; D/ .) *0' 6 9 ' '6 ' ' " ' N(M6212% XT 2' 6 ' '" '$ ' 1(M NXT' 620' 6' 2; ? ^ D*-' 1 ' 1>>6. 126/' . *-? 12. % 2') . ' 8 - , 25. ' 2' -*=/ ' , 1' 086-0. ') *') *0' ,) 6, ' ? *2',) *? . */+*. ' 6-> ',) *' 12/ ' * > *2, ' >6; . *. ' 1 ' ,) * -' 18) ' +1/ , 12. T' 21-' 01' ,) * ' 6/86 . ' 0*, *-? 2*' 6>>1-0 25', 1' ,) *' 5-*6, *. , ' 6=^ =6-*2, ' 5110T' ,) *' 6 *>, 12. ' 01' 21, ' 1//18' ,) *' A; 05^ ? *2, ' T ? *2' . 2' 656 2. , ' / 5), ' 8 ,) ' ,) *' 8 . *-' >) 1 >*' ,) *' 5-*6, *-' 5110' ; // 2',) *' -' + *8% ( ) -1; 5) ' ,) *' ?^ =*, ; 1. , ' 1 ',) * -' =6. . 12. ' ,) * ' 0*, *-? 2*' ',) *' 5-*6, *. , ' 6==6-*2, ' 5110% ( ) . ' . ',) *' >6. *' 8 ,) ' *+*-EI' . 22*-' 8) 1' -*. 1/+*. ' , 1' 0*/6 ' -*=*2, 62>*' , 1' 6' ; , ; -*' , ? *% */ C0*, *-? 26, 1 ' . ',) *' >) 6-6>, *- . , >' 1 '*+*- ' ? 1-6/ 75*2, # ( ) *' 6D. *, **' 1 ' / D*-, ') *' 0**? *0' 2^ >12. . , *2, ' 8 ,) ' ? 1-6/ 65*2> T 620' D ' / D*-, ' D*' ? *62, ' 21, ' ? *-*/ ' / D*-, ' 2' -*56-0', 1' ,) *' *L, *-26/' 6>, 12 ' D ; , ' / D*-, ' 1 '+1/ , 12T 62' *L*? =, 12' -1 ? ' 6// ? 7>; ? . , 62>*. ' 620' >6; . *. ') 6+ 25' 6' >12, -1// 25' 2 / ; ^ *2>*' 1+*-',) *' 8 // ' 6' . */ C0*, *-? 2 25' =18*-' 1 ' ? 62' 6. ' 6' -*6/ 65*2, ' 2' -*. =*>, ' , 1') . ' 182' +1/ , 12. % 2' ,) *' 8) 1/*') *' -*56-0*0' ,) *' .>) *? *' 1 ' 086-0. ' 6. ' 6>^ _; ,, 25',) *' >-*6, ; -*' 1 ' D/6 ? *' 620' ? =*6>) 25',) *' , -; ,) ' 620' A; . , >*' 1 ',) *' -*6, 1-J' M // *2 ' & ' ; f ' ' . % ' ' =-65; *' & ' 'SSS%

626D6' >1 8 ' 6' . ? 6// , 182' =/6>*0' D ' , 1/*^ ? ' M+ ' K X' 2' 6/ ? -*2*' 6' . ; D0 +A. 12' 1 ') . ' ?/*C - 6T 6/. 1' ? *2, 12*0' ; 20*-' ,) *' 26 ? *' ' " ' 2',) *' 86-' D*, 8 **2',) *' * ? =*-1-' B; / 62' 620',) *' *-. 62. ' MU1[? % # ' 'K ' X% , '01>. ' 21, ' 6==*6-', 1' >1--*^ . =120', 1' 62 ' 1 ',) *' ,) -*' =/6>*. ' 1 ' 6' . ? /6-26 ? *' ? *2, 12*0' D ' ; . *D ; ' >& $ ' & 8' 620' B*-1 ? *' 2% f' . % + % 6 ? 26D6X ' / 25' 2',) *' -*5 12' 1 ' <16DC' , . % ' ; 86. ' ,) *' . *6, ' 1 ' 6' D .) 1=- >' >7 ! ' 6 !(8 ' 620') 6. ' /6, */ ' D**2' 0*2, *0' D ' 1-, *-' >' ' ' N SX ' -1 ? ' 62' -6D >' < % 8 - , , *2' 2',) *' ,) ' >*2, ; - ' D ' <6>6- ; . ' 78 ,) ' $ ' 218' 6' /6-5*' + //65*' 6, ' ,) *' 11, ' 1 ' 2, C *D6212 ' 8 ,) ' 6' >12+*2, ' 620' *L, *2^ . +*' -; 2. ' M 62' 01' */0*' ' <' N SX%

626*; . ' 1-' 62*6, ') ' 62' *? 2*2, ' -*2>) ' -1, *. , 62, ' 0 + 2*' 86. ' DD ? ' 6, ' -/*62. ' N ' : *' -. ' , . ; 0 *0' /68 ' 6 , *-86-0. ' ,) *1/15E ' 620' D*>6 ? *' ? 2 . , *-' 6, ' 4*2*+6' 620' . ; D. *_ ; *2, / ' 6, ' * 0*2T 26// ' 6, ' -,) *[' 2' 6+6--*' 8) *-*') *' 0 *0' 2' RS% : *' 86. ' ,) *' -. , ' 8 - , *-' 8) 1' , -*6, *0') - . , 62' *,) >. ' .*=6-6, */ ' -1 ? ' ,) *1/15 ' >6 " ' ' ! ' ; 4*2*+% X% : *' 86. ' 6' . , -125' 6/+ 2 . , ' 6. ' .) 18 A' 2') . ' ' f ' : *' *0 , *0' =1-, 12. ' 1 ' ; 5; . ^ , 2*' 620' 8-1, *' /6-5*/ ' 2' >12, -1+*-. % & *') 6 *' ?' 25/ .) ') . ' *" ' 'D %" ', -62. ^ /6, *0' D ' , 1>98110' M 120% R , 1X% **' : 665 ' @ ' + ' RKT' -" ! ' $ ' ! ') ' Q ' = KK%

Dance. This act is usually denoted in Heb. by some form of חוּל, *chul*, which literally signifies to *twist* (and is often applied to *writhing* under pain, as of birth, or *trembling* under fear), and hence probably refers to the *whirling* motions of the Oriental sacred dances (Judg. xxi, 21, 23; Psa. xxx, 11; cxlix, 3; cl, 4; Jer. xxxi, 4, 13; Lam. v, 15; Exod. xv, 20; xxxii, 19; Judg. xi, 34; 1 Sam. xviii, 6; xxi, 21; xxix, 5; Cant. vi, 13). A similar idea of *moving in a circle* is radically contained in the word חָגַג, *chagag'*, translated "dancing" in 1 Sam. xxx, 16. Another term thus rendered (Eccles. iii, 4, Job xxi, 11; Isa. xiii, 21; 1 Chron. xv, 29) is רָקַד, *rakad'*, which simply means to *skip* or leap for joy, as it is elsewhere rendered, and is nearly equivalent to a fourth term thus translated (2 Sam. vi, 14, 16), כָּרַר, *karar'*, which means to *jump* or spring. In the New Test. the terms translated "dance" are χορός (radically expressive of the same idea of *circular* motion), applied to a festive occasion in connection with music (Luke xv, 25), and ὀρχέομαι, literally to *leap* up and down, but conventionally used in later times to denote a regular dance according to rule, either in concert (Matt. xi, 17; Luke vii, 32) or by a single person, especially in the elaborate *pantomime* dance of Roman times (Matt. xiv, 6; Mark vi, 22). (See Smith's *Dict. of Class. Antiq.* s. v. Saltatio, Pantomimus.)

As emotions of joy and sorrow universally express themselves in movements and gestures of the body, efforts have been made among all nations, but especially among those of the South and East, in proportion as they seem to be more demonstrative, to reduce to measure and to strengthen by unison the more pleasurable—those of joy. The dance is spoken of in holy Scripture universally as symbolical of some rejoicing, and is often coupled for the sake of contrast with mourning, as in Eccles. iii, 4, "a time to mourn and a time to dance" (comp. Psa. xxx, 11; Matt. xi, 17). Children dance spontaneously (Job xxi, 11; Matt. xi, 17; Luke vii, 32).

1. At a very early period, dancing was enlisted into the service of religion among the heathen; the dance, enlivened by vocal and instrumental music, was a usual accompaniment in all the processions and festivals of the gods (Strabo, x); and, indeed, so indispensable was this species of violent merriment, that no ceremonial was considered duly accomplished—no triumph rightly celebrated, without the aid of dancing. The Hebrews, in common with other nations, had their sacred dances, which were performed on their solemn anniversaries, and other occasions of commemorating some special token of the divine goodness and favor, as means of drawing forth, in the liveliest manner, their expressions of joy and thanksgiving. The performers were usually a band of females, who, in cases of public rejoicing, volunteered their services (Exod. xv, 20; 1 Sam. xviii, 6), and who, in the case of religious observances, composed the regular chorus of the temple (Psa. cxlix, 3; cl, 4), although there are not wanting instances of men also joining in the dance on these seasons of religious festivity. Thus David deemed it no way derogatory to his royal dignity to *dance* on the auspicious occasion of the ark being brought up to Jerusalem (2 Sam. vi, 14, 16). The word used to describe his attitude is significant of violent efforts of leaping (מְפַזֵּז וּמְכַרְכֵּר בְּכָל־עֹז); and, from the apparent impropriety and indecency of a man advanced in life, above all a king, exhibiting such freaks, with no other covering than a linen ephod, many learned men have declared themselves at a loss to account for so strange a spectacle. It was, unquestionably, done as an act of religious homage; and when it is remembered that the ancient Asiatics were accustomed, in many of their religious festivals, to throw off their garments even to perfect nudity, as a symbol sometimes of penitence, sometimes of joy, and that this, together with many other observances that bear the stamp of a remote antiquity, was adopted by Mohammed, who has enjoined the pilgrims of Mecca to encompass the Kaaba clothed only with the *ihram*, we may perhaps consider the linen *ephod*, which David put on when he threw off his garments and danced before the ark, to be symbolic of the same objects as the *ihram* of the Mohammedans (see Foster's *Mohammedanism Unveiled*). The conduct of David was imitated by the later Jews, and the dance was incorporated among their favorite usages as an appropriate close of the joyous occasion of the feast of Tabernacles. "The members of the Sanhedrim, the rulers of the synagogues, doctors of schools, and all who were eminent for rank or piety, accompanied the sacred music with their voices, and leaped and danced with torches in their hands for a great part of the night, while the women and common people looked on." This strange and riotous kind of festivity was kept up till exhaustion and sleep dismissed them to their homes (Buxtorf, *De Synag. Jud.* cap. 21).

The character of the ancient dance was very different from that of ours, as appears from the conduct of Miriam, who "took a timbrel in her hand, and all the women went out after her with timbrels and with dances." Precisely similar is the Oriental dance of the present day, which, accompanied of course with music, is led by the principal person of the company, the rest imitating the steps. The evolutions, as well as the songs, are extemporaneous—not confined to a fixed rule, but varied at the pleasure of the leading dancer; and yet they are generally executed with so much grace, and the time so well kept with the simple notes of the music, that the group of attendants show wonderful address and propriety in following the variations of the leader's feet. The missionary Wolff describes a festival of some Eastern Christians, where one eminent individual, who led the song as well as the dance, conducted through the streets of the city a numerous band of people, who leaped and danced in

Arab Dance.

? ,6, 12‘ 1 ‘,)*‘ 5*..;-*.‘ ; .*0‘D ‘) ?7‘ &)*2‘,)*‘/6,*‘ 0*=;,6, 12‘ 1 ‘,)*‘);->)‘ 1 ‘ >1,/620‘ 8*-*‘ 12‘ ,)* ‘ -‘ 86 ‘ ,)-1;5)‘ 6/*., 2*‘ ,)* -‘ 1;25‘ -6D‘ 5; 0*.‘ ,1‘ -*/ *+*‘ ,)*‘ ,*0 ; ?‘ 1 ‘ ,)*‘ A1;-2* ‘ .1?*, ?*.‘ >1?^ ?*2>*0‘6‘ 26, +*‘ .125‘620‘062>*‘ 12*‘ 1 ‘,)*? ‘60+62^ > 25‘ 6‘ / ,,/*‘ D* 1-*‘ ,)*‘ -*.,‘ D*562‘ ,)*‘ .125‘062> 25‘ 1-86-0‘ 6.‘)*‘ -*=*6,*0‘,)*‘ 81-0.‘! 8)*2‘,)*‘ - ‘.,‘ 1/^ /18 25‘) ?‘ 2‘-*5;/6-‘1-0*-‘A1 2*0‘ 2‘,)*‘>)1-;.‘ 9**=^ 25‘, ?*‘D ‘6‘ . ?;/,62*1;.‘ >/6== 25‘1 ‘)620.‘! ( )* ‘ .625‘ .*+*-6/‘ -6D 62‘ .125. ‘-*.=120 25‘,1‘ 12*‘ 621,)^ *-‘062> 25‘620‘>/6== 25‘,)* -‘)620.‘J‘ 2‘,)* -‘ ‘062^ > 25‘ 0*-+ .)*.‘J‘,)*‘ (;-9.‘ .***?‘ ,1‘)6+*‘ 601=,*0‘ 2,1‘ ,)* -‘. .,*?‘,)*‘ *2,);. 6.,>‘-6=,;-*. ‘6,‘12>*‘ ?6-, 6/‘ 620‘ .6>-*0‘8) >)‘M*‘5‘ 2‘,)*‘ 1?62‘ $ 8‘ .**?‘ 2^ 0 5*21;.‘ 2‘ ?62 ‘ 1;,)*-2‘ 620‘ 6.,*-2‘ -6>*.‘ -1?‘ ,)*‘ *6-/ *.‘,‘, ?*.%

2‘ ,)*‘ *6-/ *-‘ =*- 10‘062> 25‘ .‘ 1;20‘ >1?D 2*0‘ 8 ,)‘ .1?*‘ .125‘1-‘ ‘M L10% L+‘ K ‘ LLL ‘ Q‘ RT‘ ‘ 6?% LL ‘ XT‘ 620‘8 ,)‘ ,)*‘ HnG‘1-‘,6?D1;- 2*‘ M % , ?D-*/JXf‘2 1-*‘ *.=*> 6// ‘ 2‘ ,)1.*‘ ?=;/. +*‘ 1;,D;-.,.‘ 1 ‘=1=;/6-‘ **/ 25‘ 8) >)‘ >6221,‘ 20‘ .; ^ > *2,‘+*2,‘ 2‘+1 >*‘ 1-‘ 2‘5*.,;-*‘ . 25/ % 1-‘ .‘,)*-*‘ 62 ‘ ?1-*‘ .,-125/ ‘ =1=;/6-‘ */*?*2,‘,-6>*6D/*‘ 2‘ ,)*‘ -*/ 5 12‘ 1 ‘,)*‘ 62> *2,‘ B*8 .‘,)62‘ ,)*‘ 1==1-,;2 , .1‘ 5 +*2‘ ,1‘ 6‘=-1=)*,‘1-‘=-1=)*,*..‘ ,1‘9 20/*‘ *2,);. 6.?‘ 1-‘ B*)1+6)‘12‘ ?1?*2,1,;‘ >- .*.‘ 1 ‘26, 126/‘A1 ‘620‘ ,);.‘ -11,‘,)*‘ ,)*1>-6> ‘ 2‘ ,)* -‘0**=*..‘ **/ 25. ‘ ?1-*‘ *.=*> 6// ‘ 2‘ ,)1.*‘ 1 ‘,)*‘ 81?*2‘ ,)*? .*/+*.‘ ?1.,‘ *6.^ / ‘ ., --*0‘620‘?1.,‘ >6=6D/*‘ 1 ‘*L> , 25‘1,)*-.% ()*‘ 062>*‘ 86.‘-*56-0*0‘ *+*2‘ D ‘ ,)*‘ 1?62.‘ 6.‘ ,)*‘ 81-^ .) =‘ 1 ‘,)*‘ D10 ‘620‘,);.‘) 60‘ 6‘ =/6>*‘ 6?125‘ .6>-*0‘ ,) 25.‘M *-+ ;.‘60‘ -5% ; !‘+ ‘ NX% ‘. ? /6-‘.*2 ‘ , ?*2,‘ .‘ >12+* *0‘ 2‘ .6% LLL+‘ d‘ 7 / ? ‘D12*.‘ .)6// .6 % 1-0‘ 8)1‘ .‘ / 9*‘ ;2,1‘ ,)**HJ‘ 1‘ ,)*‘ ‘,125;*‘J‘ .‘,)*‘D*.,‘ ?*?D*-‘6?125‘?62 ‘,)*‘ ‘5/1^ - J‘M .6% + ‘QX 1‘ ,)*‘ 8)1/*‘ -6?*‘ 1‘ /*.)‘ *+*- ‘ =6-,‘1 ‘8) >)‘ .‘,1‘)6+*‘ 6‘ .)6-*‘ 2‘ ,)*‘ =-6 .*.‘ 1 ‘410% ? /6-/ ‘6?125‘,)*‘ 4-**9.‘ .‘6.>- D*0‘D ‘ ,)*26*;.‘ ,1‘ 1>-6,*.‘ 6‘ -65?*2,‘ 2‘ =-6 .*‘ 1 ‘062> 25‘M ,)*2‘ L + ‘SK ‘ >1?=‘ -- 62‘ *-‘ + ‘ X% /6,1‘>*-,6 2/ ‘ I ‘+ ‘SX‘->912.‘062> 25‘ 7 26., *.‘ I 1) 88‘ 1‘ 6-‘ 86.‘ ,)*‘ **/ 25‘1 ‘,)*‘ =;-*.,‘=*- 10‘1 ‘62, _ ; , ‘ -1?‘6,,6>) 25‘,)*‘21, 12‘1 ‘ * *?26> ‘ ,1‘062> 25‘ ,)6,‘ ,)*‘ 0*6.‘1 ‘,) .‘620‘1 ‘ 86-/ 9*‘ *L*->.-*‘ 6-*‘ ? ;,;6// ‘ 2,*-81+*2‘620‘,)* -‘ ,*-?.‘6/?1.,‘>1--*.=120‘6.‘. 212 ?.‘M:1?*-‘ ‘L+ ‘ S ‘>1?=‘ -*;[*-‘$ ‘ ‘NS ‘+‘ ‘620‘.*‘ *.=*> 6// ‘ ;>62‘ ‘ ‘$ ‘=6.. ?X% &1?*2‘)18^ *+*-‘6?125‘,)*‘ :*D-*8.‘?60*‘,)*‘062>*‘,)* -‘*.=*^ > 6/?*62.‘1 ‘*L=-*.. 25‘,)* -‘ **/ 25.‘620‘8)*2‘,)* -‘) ;.D620.‘1-‘ - *20.‘-*,;-2*0‘ -1?‘6‘D6,,/*‘12‘D*)6/‘ 1 ‘/ *‘620‘)1?*‘,)* ‘ */‘,),6,‘,)* ‘,11‘1;5)‘,1‘)6+*‘ .1?*‘.)6-*‘ 2‘,)*‘*+*2,‘620‘ 1;20‘,)6,‘.)6-*‘ 2‘,)*‘ 062>*‘1 ‘,- ;?=)‘ &*/>1? 25‘,)*?‘D6>9% ()*‘ *6,^ 25‘620‘0- 29 25‘620‘062> 25J‘1 ‘,)*‘ ?6/*9 ,*.‘ ‘ -*>1-0*0‘6.‘ .‘,)*‘=*1=/* .‘ ‘- . 25‘;=‘,1‘=/6 J‘M= ‘ 2>/;0 25‘6‘-*+*// 25‘062>*X‘8 ,)‘6‘,6> ,‘>*2.;-*‘ ,)*‘ 12*‘ .**?.‘,1‘?6-9‘,)*‘/18*-‘> + / [6, 12‘1 ‘,)*‘ ?6/^ *9 ,*.‘ ,)*‘ 1,)*-‘ ,)*‘ /11.*2*..‘ 1 ‘>120;>,‘ 2,1‘8)>)‘ 01/6,- ‘/*0‘,)*‘ .-6*/ ,*.‘M L10% LLL ‘ST‘ 1-‘L‘ T‘ ‘6?% LLL‘ SX% 1‘6?125‘,)*‘ *01;2.‘26, +*‘ 062>*.‘1 ‘?*2‘6-*‘ ?*2, 12*0‘M 2>)‘ ‘ ‘$ ‘=% KR X‘620‘6-*‘ =-1D6D/ ‘62‘62> *2,‘>;.,1?% ()*‘ :*^ D-*8.‘)18*+*-‘.6+*‘ 2‘.;>)‘?1?*2,.‘1 ‘,*?=,6, 12‘ .**?‘,1‘)6+*‘/* ,‘062> 25‘,1‘,)*‘ 81?*2% ;,‘?1-*‘ *.=*> 6// ‘12‘.;>)‘1>>6. 12.‘1 ‘,- ;?=)‘62 ‘81?62‘ 8)1.*‘2*6-2*..‘1 ‘9 2‘,1‘,)*‘ >)6?=12‘1 ‘,)*‘?1?*2,‘ 56+*‘)*-‘6‘=;D/ >‘>)6-6>,* 7 6?125‘ 182‘.*L‘.**?.‘ ,1‘)6+*‘ */,‘,)6,‘ ‘86.‘)*-‘=6-,‘,1‘/*60‘.;>)‘6‘0*?12^ .,-6, 12‘LX‘,-;?=)‘1-‘1‘8*/>1?*‘ .1‘ < - 6?‘M L10% d ‘K X‘620‘ .1‘B*=),)6) .‘06;5),*-‘MB;05% L ‘N X‘ 620‘. ?/6-/ ‘,)*-*‘21‘01;D,‘86.‘,)1;5)‘212*‘ .‘?*2^ , 12*0‘6‘>)1-;.‘620‘062>*‘1‘81?*‘/*0‘D ‘ *D1-6)‘ 6.‘,)*‘ .125‘1‘,)*‘ ?*2‘D ‘ 6-69‘M>1?=% B;05% + ‘ ‘ 8 ,& L10% d ‘ ‘K X‘ ? /6-/ ‘,11‘B;0 ,)‘ML+‘ K NX /*60.‘)*-‘ 182‘ .125‘620‘062>*‘ 1 ‘ ,- ;= =)‘ 1+*- : 1/1 *-2*.% ()*-*‘ 86.‘ 21‘ .;>)‘/*60*-‘1 ‘,)*‘ >)1-‘ ?*2, 12*0‘ 2‘ ,)*‘ >6.*‘ 1 ‘ 6+ 0‘ 620‘ 6;/% :*2>*‘ 8)*-*6.‘ < - 6?‘ 62.8*-*0J‘ ,)*‘ *2, -*‘ >)1-;.‘ 2‘ L10% d ‘K ‘,)*‘81?*2‘ 2‘,)*‘/6,,*-‘>6.*‘ 62.8*-*0‘ 12*‘ 621,)*-‘ 6.‘,)* ‘=/6 *0J‘M ‘ 6?% L+ ‘ X‘,)6,‘ 62.8*-J(*?D10 25‘,)*‘ .*2, ?*2,‘1 ‘,)*‘ 1>>6. 12‘ 620‘ 1-? 25‘,)*‘D;-0*2‘1 ‘,)*‘ .125% ()*‘ ‘>1? 25‘ 1;,J‘1 ‘,)*‘ 81?*2‘,1‘01‘,) .‘MB;05% L ‘N ‘ 6?% L+ ‘ST‘ >1?=‘ 8*2,‘1;, J‘ L10% L+‘K X‘ .‘6/.1‘6‘ *6,;-*‘81-,) ‘1‘21,*‘620‘ ?=/*.‘,)*‘1DA*>,‘1‘?**,^ 25‘%6,,*20 25‘;=12‘620‘>120;>, 25‘)1?*% 1‘B*=)^ ,)6) .‘06;5),*-‘?*,‘)*-‘ 6,)*-‘,)*‘ 81?*2‘1‘6//,)*‘ >,*.J‘ >6?*‘,1‘?**,‘620‘>*/*D-6,*‘ 6;/ 620‘ 6+ 0‘ 620‘,D* -‘)1.,‘D;,‘ < - 6?‘ 2‘,)*‘ .6?*‘86 ‘ 51*.‘ 1;,J‘D* 1-*‘ B*)1+6)J‘ ,)*‘ ?62‘ 1‘86- J‘8)1.*‘ =-*.*2>*‘ .**?.‘ ?=/ *0% ()‘.‘?6-9.‘,)*‘=*>;/ 6- , ‘ 1‘ 6+ 0 .‘>120;>,‘8)*2‘12‘,)*‘-*,;-2‘1‘,)*‘6-9‘1 ‘ 410‘-1?‘ ,.‘ /125‘.1A1;-2‘6?125‘.,-625*-.‘620‘D1-^ 0*-*-.‘)*‘MK‘ 6?% + ‘ CKKX‘86.‘)?.*/‘ + .‘620‘)*-*‘,11‘,)*‘81?*2‘8 ,)‘,)*‘ -‘, ?D-*/.‘M.**‘*.=*> 6/^ / ‘+*-% R‘K ‘KKX‘.119‘62‘ ?=1-,62,‘.)6-*% ()‘ 6>,‘D- 25.‘1 ;,‘?1-*‘?6-9*0/ ‘,)*‘ **/ 25.‘1 ‘ 6;/ ‘ 06;5),*-‘< >)6/‘9**=25‘6/11‘-1?‘,)*‘1>>6. 12‘620‘ /119 25‘,)-1;5)‘ 6‘ 8 2018J‘ 6,‘,)*‘ .>*2*%)* .)1;/0‘ 2‘ 6>>1-062>*‘ 8 ,)‘,)*‘*L6?=/*.‘1‘< - 6?7‘ *,>%)6+*‘)*-.*/‘/*0‘,)*‘*?6/*‘>)1 - ‘620‘.1‘>1?*‘1;,‘ ,1‘?**,‘,)*‘6-9‘620‘)*-‘/1-0%)*‘ .,6 .‘8 ,)‘,)*‘)1;.*)1/0J‘M+*-% K X‘620‘ >1?*.‘1;,‘,1‘?**,J‘)?‘ 8 ,)‘-*=-16>)*.‘=*-)6=.‘ **/ 25‘,)6,‘) .‘[*6/‘86.‘6‘ -*D;9*‘ ,1‘)*-‘6=6,) % ,‘ 86.‘D* 1-*‘ ,)*‘)620^ ?6 0. J‘ % 2‘/*60 25‘,)6,‘>)1 -‘ 8)>)‘.)*‘.)1;/0‘)6+*‘/*0‘,)6,‘)*‘)60‘ ;2>1+*-*0J‘) ?.*/‘T‘62‘;2C 9 25/ ‘*L=1.;-*‘6.‘.)*‘,)1;5),‘ ‘8)>)‘,)*‘062>*‘ -*20*-*0‘2*>*..6- ‘,)*‘8*6- 25‘?*-*/ ‘,)*‘*=)10‘1-‘ / 2*2‘,;2>% ()*‘1>>6. 12‘86.‘?*62,‘,1‘D*‘=1=;/6-/ ‘ + *8*0‘ 2‘>122*>, 12‘8 ,)‘ 6+ .‘.;DA;56, 12‘1 ‘+6^ - 1;.‘ *2*?*.‘620‘6>>*.. 12‘,1‘,)*‘,)-12*‘1‘ .-6*/ M.**‘ ‘)-12%d ‘KNCL ‘QXT‘)1‘6>>1-0 25/ ‘,/ _9.‘ 12/ ‘1 ‘,)*‘)121-‘1 ‘410‘8)1‘)60‘ .1‘60+62>*0‘) ?‘ 620‘2‘,)6,‘1-5*,.‘ .*/ ‘M>1?=% < ;//*-‘ ‘ ‘ ‘ & ‘$51/2 ‘LLL X% -1?‘,)*‘ ?*2,12‘1‘ 06?^ .*/. J‘ ,?D-*/. J‘620‘ 062>*.J‘M .6% L+ ‘K T‘ >L/ L‘QT‘ >/‘ X 6.‘ */*?*2,.‘1‘ -*/ 5 1;.‘ 81-.) =‘ ,?6 ‘=*-)6=.‘D*‘ 2 *--*0‘,)6,‘ 6+ 0 .‘ **/ 25‘/*0‘) ?‘ ,1‘ 2>1-=1-6,*‘ 2‘ ,.‘- ,*.‘,)6;=1=;/6-‘?10*‘1‘ *., +*‘ >*/*D-6, 12% () .‘01*.‘21,‘ .**?‘ ,1‘)6+*‘ .;-+ +*0‘) ?‘1-‘6.‘ 66/.>);,[‘-*?6-9.‘I& " ! ‘ "" ‘ KRRX‘2‘,)*‘?*2, 12‘1‘-*/ 5 1;.‘-*+ +6/.‘;20*-‘ :*[*C 9 6)‘620‘B1. 6)‘21‘21, >*‘1‘,)*?‘ 1>>;-.‘T 620‘,) .‘ 6/,)1;5)‘,)*‘ ‘81-0. J‘,)*‘ ‘8- , 25 J‘620‘,)*‘ >1?^ ?620?*2,‘1 ‘ 6+ 0J‘12‘ .;>)‘ .;DA*>,.‘ 6-*‘ 0 .,2>,/ ‘ 6//;0*0‘,1‘MK)-12% LL L‘N T‘LLL+‘ X% ‘ .‘ =1.. D/*‘ ,)6,‘ ,)*‘D62 .) 25‘1‘,) .‘ =1=;/6-‘ */*?*2,‘ 8)>)‘ 1;20‘ ,.‘ +*2,‘ 21‘01;D,‘ 2‘ ,)*‘ 01/6,-1;‘ - ,*.‘ 1‘ 66/620‘ .,6-,*‘MG.‘ ,‘>*-,6 2/ ‘0 0‘ 2‘,)1.*‘1‘,)*‘ 51/0*2‘>6/‘ L10% LLL ‘ RX‘?60*‘,)1.*‘* 1-,‘ ,69*‘ 6/*..‘ -?‘)1/0‘12‘,)*‘ =*1=/*‘ ,)62‘,)*‘ ? 5),‘)6+*‘ 012*‘620‘,)6,‘ 6+ 0 .‘?1-*‘ >1?=-*)*2. +*‘ .>)*?*‘ ? 5),‘)6+*‘ -*,6 2*0‘ .1?*‘ ,*.‘1 ‘ **/ 25‘ 8)>)‘ 8*-*‘ ,);.‘/1.,% I 2‘,)*‘ 1,)*-‘)620‘86.‘01;D,/*..‘,)*=*- / 1‘,)*‘/11.*‘?1-6/ , ‘ 8)>)‘>1? ?12/ ‘6,,*20*0‘ *., +*‘ 062>*.‘6,‘)*6,)*2‘ .)- 2*.% *-,6 2/ ‘ 2‘/ 6,*-‘B? 6% .?‘,)*‘062>*‘ 86.‘ 2>/;0*0‘6?125‘.1& >-*/ 5 1;.‘ *.^ ,+ ,*.‘*% 5%,)*‘ *6..‘1 ‘,6D*-26>/*.‘M< .)26‘$ + ‘Q‘ X‘ 8)*-*‘)18*+*-‘ ,)*‘ =*- 1-?*-.‘ 8*-*‘ ?*2% ()‘.‘86.‘=-1D6D/*‘ ,)6,‘ .;>)‘ 062>*.‘ 8*-*‘ =*- 1-?*0‘D ‘ ?6 0*2.‘6=6-,‘ -1?‘ ?*2‘ 8)>)‘ 5 +*.‘ 62‘ 600 , 126/ =1 2,‘,1‘,)*‘ -*=-16>)‘1 ‘< >)6/% &)6,‘,)*‘ 6.)‘12‘1-‘ 5;-*‘ 1‘,)*‘062>*‘ 86.‘ .‘ 6‘01;D, ;/_ :*.‘, 12‘21-‘ .‘ ,‘/ 9*/ ‘,1‘)6+*‘/6>9*0‘.;>)‘+6- *, ‘6.‘81;/0‘606=,‘, ,1‘,)*‘ +6- 1;.‘ 1>>6. 12.‘1 ‘ ,.‘ ;.*% ()*‘ ,*-?.‘ *?^ 0 25‘6‘ 620‘ 6;/% 2

modern Oriental dances a woman leads off the dance, the others then follow her with exact imitation of her

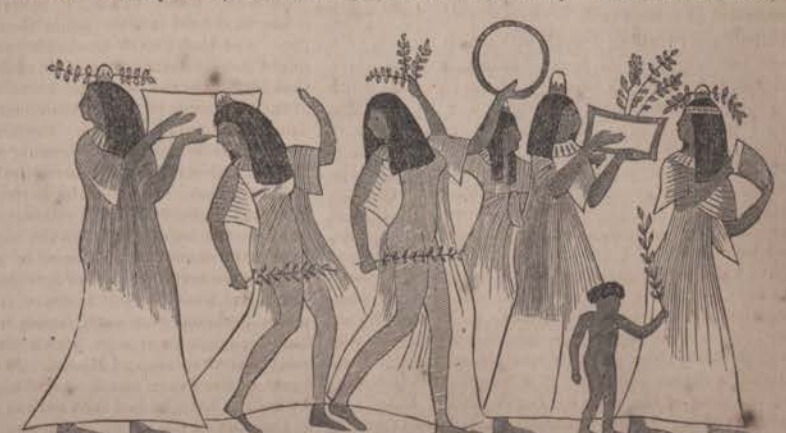
Oriental Dancing-girl.

artistic and graceful attitudes. A parallelism of movement is also incident to it (Saalschütz, *ib.* p. 301). Possibly Miriam so led her countrywomen. The same writer thinks that in Cant. vi, 13, the words מְחֹלַת מַחֲנָיִם (A.V. "company of two armies") imply two rows of dancing girls, and that the address in the singular number, "return, return," and again in vii, 1, applies to the movements of the individual performer in a kind of *contre-danse*. This interpretation, however, does not remove the obscurities of the passage.

From being exclusively, or at least principally, reserved for occasions of religious worship and festivity, dancing came gradually to be practised in common life on any remarkable seasons of mirth and rejoicing (Jer. xxxi, 4; Psa. xxx, 11). In early times, indeed, those who perverted the exercise from a sacred use to purposes of amusement were considered profane and infamous; and hence Job introduces it as a distinguishing feature in the character of the ungodly rich, that they encouraged a taste for dancing in their families (Job xxi, 11). During the classic ages of Greece and Rome society underwent a complete revolution of sentiment on this subject, insomuch that the Grecian poets represent the gods themselves as passionately fond of the diversion (Potter's *Grec. Antiq.* ii, 400), and that not only at Rome, but through all the provinces of the empire it was a favorite pastime, resorted to not only to enliven feasts, but in the celebration of domestic joy (Luke xv, 25; Matt. xiv, 6). Notwithstanding, however, the strong partiality cherished for this inspiriting amusement, it was considered beneath the dignity of persons of rank and character to practise it. The well-known words of Cicero, that "no one dances unless he is either drunk or mad," express the prevailing sense as to the impropriety of respectable individuals taking part in it; and hence the gay circles of Rome and its provinces derived all their entertainment, as is done in the East to this day, from the exhibitions of professional dancers. Under the patronage of the emperors, and of their luxurious tributaries, like Herod, the art was carried to the utmost perfection, the favorite mode being pantomime, which, like that of the modern Almehs or Arab women, was often of the most licentious description (see Lane's *Mod. Eg.* ii, 105-9; St. John's *Nubia*, p. 268 sq.). A story of love was chosen—generally an adventure of the gods—as the plan of the dance, and the address of the performer consisted in representing, by the waving of his hands, the agility of his limbs, and the innumerable attitudes into which he threw himself, all the various passions of love, jealousy, disgust, that sway the human breast. (See at large Lucian's *Treatise on Dancing.*)

Amateur dancing in high life was, as that writer informs us, by no means uncommon in the voluptuous times of the later emperors. But in the age of Herod it was exceedingly rare and almost unheard of, and therefore the condescension of Salome, who volunteered, in honor of the anniversary of that monarch's birthday, to exhibit her handsome person as she led the mazy dance in the saloons of Machærus—for, though she was a child at this time, as some suppose (Michaelis, *Introd.*), she was still a princess—was felt to be a compliment that merited the highest reward. The folly and rashness of Herod in giving her an unlimited promise, great as they were, have been equalled and even surpassed by the munificence which many other Eastern monarchs have lavished upon favorite dancers. Shah Abbas (to mention only one anecdote of the kind), having been on a particular occasion extremely gratified with a woman who danced before him, and being at the time much intoxicated, made her a present of a magnificent khan that yielded him a considerable revenue. Next morning his minister reminded him of his extravagant liberality, whereupon, being now cool and ashamed of his folly, he sent for the dancer, and obliged her to be contented with a sum of money (Thevenot's *Trav. in Persia*, p. 100). It is by no means improbable that Herod too was flushed with wine, and that it was from fear he should retract his promise if she delayed till the morning that Herodias sent *immediately* for the head of the Baptist.

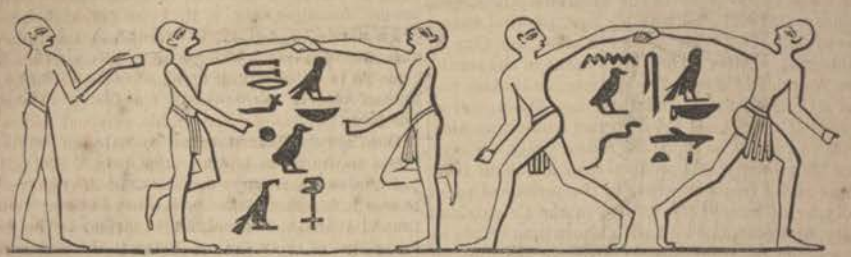
It remains to notice further that the Jewish dance was performed by the sexes separately. There is no evidence from sacred history that the diversion was promiscuously enjoyed, except it might be at the erection of the deified calf, when, in imitation of the Egyptian festival of Apis, all classes of the Hebrews intermingled in the frantic revelry. In the sacred dances,



Female Sacred Dance.—From the Egyptian Monuments.

although both sexes seem to have frequently borne a part in the procession or chorus, they remained in distinct and separate companies (Psa. lxviii, 25; Jer. xxxi, 13.

Dancing formed a part of the religious ceremonies of the Egyptians, and was also common in private entertainments (see Wilkinson's *Anc. Eg.* abridgment, i, 153 sq.). Many representations of dances both of men and women are found in the Egyptian paintings. The "feast unto the Lord," which Moses proposed to Pharaoh to hold, was really a dance (חג; see above).—Kitto, s. v.; Smith s. v.



Male Dance in Figures among the ancient Egyptians.

A modern Oriental dancing-party is thus described by Layard (*Nineveh*, i, 119): "The dance of the Arabs, the *Debkè*, as it is called, resembles in some respects that of the Albanians, and those who perform in it are scarcely less vehement in their gestures or less extravagant in their excitement than those wild mountaineers. They form a circle, holding one another by the hand, and, moving slowly round at first, go through a shuffling step with their feet, twisting their bodies into various attitudes. As the music quickens their movements are more active; they stamp with their feet, yell their war-cry, and jump as they hurry round the musicians. The motions of the women are not without grace; but as they insist on wrapping themselves in their coarse cloaks before they join in the dance, their forms, which the simple Arab shirt so well displays, are entirely concealed. When those who formed the debkè were completely exhausted by their exertions, they joined the lookers-on, and seated themselves on the ground. Two warriors of different tribes, furnished with shields and naked cimeters, then entered the circle, and went through the sword-dance. As the music quickened the excitement of the performers increased. The by-standers at length were obliged to interfere and to deprive the combatants of their weapons, which were replaced by stout staves. With these they belabored one another unmercifully, to the great enjoyment of the crowd. On every successful hit, the tribe to which the one who dealt it belonged set up their war-cry and shouts of applause, while the women deafened us with the shrill *tahlehl*, a noise made by a combined motion of the tongue, throat, and hand vibrated rapidly over the mouth. When an Arab or a Kurd hears this tahlehl he almost loses his senses through excitement, and is ready to commit any desperate act. A party of Kurdish jesters from the mountains entertained the Arabs with performances and imitations more amusing than refined. They were received with shouts of laughter. The dances were kept up by the light of the moon the greater part of the night."

See Renz, *De saltationibus Jud. vett. relig.* (Lips. 1738); Danov, *De choreis sacris Ebr.* (Gryph. 1766); Spencer, *De saltat. vett. Hebr.* (in Ugolini *Thesaur.* xxx); Zeltner, *De choreis vett. Hebr.* (Altorf. 1726); Altenon, *De choreis Paulo interdictis* (Misen. 1744); Brömel, *Festtänze der ersten Christen* (Jen. 1701); Grüneberg, *De saltatione Christiano licita* (Rost. 1704, 1719, 1730); Purmann, *De saltatione* (Frcft. 1785); Burette (in the *Mém. de l'Acad. des Inscr.* i, 93 sq.); Bonnet, *Hist. de la Danse* (Par. 1724); Hecker, *Die Tanzwuth* (Berl. 1832). See Musical Instruments.

Dancers, a sect which appeared on the Rhine and in the Netherlands about 1374. They paraded the streets, entered houses and churches half naked, crowned with garlands, dancing and singing, uttering unknown names, falling senseless on the ground, and exhibiting other marks of demoniacal agitation. It was customary for persons of both sexes, in their public worship, to begin dancing; and, holding each other's hands, to continue their extraordinary violence till they fell down on the ground breathless. They affirmed that during these intervals of vehement agitation they were favored with wonderful visions. They evinced open contempt for the authority, rites, and doctrines of the Roman Church, and were considered as possessed with devils. The same phenomena appeared at Strasburg in 1418.—Mosheim, *Ch. Hist.* ii, 416; Gieseler, *Ch. History*, § 121.

Dancing. A form of religious dancing sometimes made part of the public worship of the early Christians. The custom was borrowed from the Jews, in whose solemn processions choirs of young men and maidens, moving in time with solemn music, always bore a part. It must not be supposed that the "religious dances" had any similarity to modern amusements; they were rather processions in which all who took part marched in time with the hymns which they sung. The custom was very early laid aside, probably because it might have led to the adoption of such objectionable dances as were employed in honor of the pagan deities. Prohibitions of dancing, as an amusement, abound in the Church fathers and in the decrees of the councils. See Bingham, *Orig. Eccl.* bk. xvi, ch. xi, § 15. On dancing as an amusement, see Crane, *On Dancing*, N. Y, 12mo.

Dandini, Girolamo, a Roman theologian and papal legate, was born at Cesena in 1554. After being professor of philosophy at the University of Paris, and professor of theology at the University of Padua, he entered the order of Jesuits, and became its provincial in Poland and at Milan. In 1596 he was sent by Clement XI as nuncio to the Maronites in order to effect their union with the Church of Rome, but in this mission he was not successful. He died at Forli Nov. 29, 1634. He is the author of a work on *Ethica Sacra* (Cesena, 1651; Antw. 1676, fol.). He also published a report on his mission to the Maronites (*Missione Apostolica al Patriarcha e Maroniti del Monte Libano* (Cesena, 1656; Paris, 1675; English, 1698). According to the French translator, Richard Simon, Dandini gave an incorrect account of the creed of the Maronites.—Pierer, *Univers. Lex.* iv, 686; Hoefer, *Biog. Gén.* xii, 910.

Danforth, Calvin, a Methodist Episcopal minister, was born at Fort Covington, Franklin Co., N. Y., Nov. 28, 1809, was licensed to exhort in 1828, entered the Oneida Conference in 1830, was superannuated in 1834, went South for his health, and took a situation in an academy at Warrenton, Ga., still retaining his connection with the Church in the North. In 1837

D*' .*-+*0' 1-' 6' , ?S' 6.' =-1 *..1-' 1 ' ?6,)*?6, >.' 2' 1+ 25,12' <6226/' 6D1-' >)11/' D ; ,') .')*6/,)' .112' 6 /*0' ' ?*0 >6/ 60+ >*')*' 8*2,' ,1' ,%I ;5;., 2*' /6%' 8)*-*')*' 0 *0' 2' 5-*6,'=*6>*' 2' <6 ' QNR% <-% 62 1-,)' *20*6-*0') ?.*/ ' ,1' ,)1; .620.' D ') .' = *, ' [*6/ 1-' *0 ;>6, 12 ' /1+*' 1-' .1;/. ' 620' */1_;*2>*% ' ' ' ' S S' 41-- *' ; +' 5 ' '

62 1-,) 'B1.) ; 6' 1D/*' % %' 6' -*.D .*- ^ 62' ? 2 .,*-' 86.'D1?' 2' ,,.. */0' <6..%' 2' RK' : *' 86.' *0 ;>6,*0' 6,' & // 6?.' 1//*5*' 620' 2') .'/6..' *6-' ,)*-*' 0*,*-? 2*0' ,1' 0*+1,*') ?.*/ ' ,1' ,)*' ? 2 ..- % ,*-' ,)-**' *6-.' .,; 0 ' 2' ,)*' - 2>*,12' ()*1/15 >6/ *? 26- ' M Q QCK X') *' ,1S9') .' -.,' =6..,1-6/ >)6-5*' 6,' *8>6../*' */%') .' .*>120' 86.' 6,' ,)*' , ' 1 ' &6.) 25,12% ,*-' 6' .)1-,', ?*' .=*2,' 2',)*' .*-+ >*' 1 ',)*' ?*- >62' 1/12 [6, 12' 1> *, ')*' D*>6?*' =6.^ ,1-' 1 '6' 125-*56, 126/'); ->)' 6,' ** ' <6..%' 620' 6 ^ ,*-86-0.' 1 ',)*' *>120' -*.D ,*- 62'); ->)' 6,' /*L^ 620- 6 ' 6% ' 8)*-*')*' -*?6 2*0' ,**2' *6-.% +*- ^ 8)*-*' D .' ? 2 .,- ' 86.' =-10;>, +*' 1 '6D ; 2062,' $,% : *' 86.' 6/.1' 6' -*_;*2,' 8- ,*-' 2' ,)*' =*- 10 >6/ =-*..' 26// ')*' -*C*2,*-*0' ,)*' .*-+ >*' 1 ',)*' 1/12 [6, 12' 1> *, ' 620' -*?6 2*0' 2' ,', // 6' .)1-,', ?*' D* 1-*') ' 0*6,) ' 8)>)' 1>>;--*0' 1+% QS ' 6,' & 6.) 25,12% ' & /.12' " '& ' QSN' =% KRN%

62 1-,) ' 6? ; */' 6' 125-*56, 126/ ? 2 .,*-' 86.' D1-2' 6,' -6? 25)6?' ; 1/9' 1%' 25/620' *=^ ,*?D*-' SKS' 620' >6?*' 8 ,)') .' 6,)*-' ,1' *8' 25^ /620' 2' SN % : *' 5-60;6,*0' 6,' : 6-+6-0' 2' S N' 620' 86.' >)1.*2',;,1-' 620' */18/ 2' S 'D*' 86.' 2.,6//*0' >1//*65;*' =6.,1-' 2' 1LD;- ' 8)*-*')*' /6D1-*0' 0;- 25') .' / *' 8) >)' *20*0' 1+% R S % : *' .,;0 *0' 6.^ ,-121? ' >6-* ;// ' 620' =;D/ .)*0' .*+*-6/ 6/?626>.' 620' 6.,-121? >6/ 620' ,)*1/15 >6/ -*?6-9.' ;=12' ,)*' >1?*,'M SS X% ' =-65;*' & ' ' NQ% 3

62 1-$ ' 6? ; */' .12' 1 ',)*' =-*>*0 25' 86.' D1?' *>% Q SSS' 620' 5-60;6,*0' 6,' : 6-+6-0' 1//*5*' 2' SQN% : *' 86.' 12*' 1 ',)*' ?1.,'/*6-2*0' 620' *? C' 2*2,' ? 2 .,*-.' 1 ') .' 06 % 2' ,)*' D*5 22 25' 1 ',)*' *6-' ',)-1;5)') .' /6D1-.' 6' 0**=' ?=-*.. 12' 86.' ?60*' ;=12' ,)*' ? 20.'1 ') .' =*1=/*' 620' 6'-*+ +6/ 1>^ >;--*0' 1 ' 8) >)' 62' 6>>1;2,' .' 5 +*2' 2' .1?*' /*,,*-.' 1 ' <-% 62 1-,) ' =-*.*-+*0' 2' - 2>*.' " '# 9 ! : *' =;D/ .)*0' 6' *;/15 ' 12' ()1?6.' *126-0' N' 620',)*' */*>, 12' .*-?12' % : *' /* ,' D*) 20') ?' 6' ?62;.>- =,' 20 62' 0 >, 126- ' 6' =6-,' 1 ' 8) >)' .' 218' 2',)*' / D-6- ' 1 ',)*' <6..6>);.*,,.' : .,1- >6/ 1> *, % ,' .**?.' ,1')6+*' D**2' 1-?*0' -1?' / 1, .' 20 62' D/*' 6.',)*-*' .' 6'-* *-*2>*' ;20*-' *+*- ' 81-0' ,1' 6' =6..65*' 1 ' >- =,;-*% : *'0 *0' 1+% K % ' /^ /*2' & ' ; %" ' .%+%

62 */' M : *D% 620')6/0% ' N ' T' 6/.1 \ [*9% L + ' ' K T' LL+ ' N%' 2' ,)*' .)1-,*-' 1-?' ' (' .**' D*/18% ',)*' 26?*' 1 '6,'/*6..',)-** ?*2%

% M *=,' & / 8$' +' -% 71d1,V 6' ;/5% 62 */ %' 25' 6+ 0 .'.*>120'.12' D1-2';2,1') ?' ' : *D-12 J' 1 ' D 56 /',)*' 6-?*/ ,*..J' M ')-12% ' X' % % ' > -% % 2',)*' =6-6//*/ =6..65*' K' 6?% ' N ')*' ' >6//*0' ' ! 1-',)*' B*8 .)' *L=/626, 12' 1',)*' 1- 5 2' 1 ',)*', 81' 26?*.' .**' 1>)6-,' # / ' ' ', =% SSN%

K% M *=,' 620' % (% & $' B1.*=);.' 6-,7d1 %X ()*' >*/*D-6,*0' =-1=)*,' 620' ? 2 .,*-' 6,' ,)*' >1;-,' 1 ' 6D 012' 8)1.*' / *' 620' =-1=)*> *.' 6-*' >12,6 2*0' 2' ,)*' D119' D*6- 25') .' 26?*% ()*' *L6>,' ?*62 25' 1 ' ,)*' 26?*' .'0 .=;,*0% ()*' ;// 1-?' H=-1D^ 6D/ ' ?1-*' >1--*>,' 620' 2' ,) .' ,)*' ' 6==*6-.',1' D*' 21,' ?*-*/ ' 1-?6, +*' D;,' 6' =-121? 26/ .;' L' M6. .1',)6,' ,)*' .*2.*' 8 // D*' ? ' .' 'D 'M % % < >)6*/ .'6=% 1.*2?;//*-'$ " 'g X% ,)*-.' 2,*-=-*,',)*' 81-0' 6.',)*'D ' '? '620',)*' - .*' 1 ' 6' 10' 1-?6, +*' .'A;., *0' D ' 7 *' =6-6//*/' 1 ' <*/>D [*0*9' *,>' M : ,[5 ' g' KE% ()' 2,*-=-*,6, 12 .' 6+1-*0' D ' ,)*' D6/0.*62' 26?*' */,*.)6[[6-' ' '%*% " %) ' ; :' *=,%\()*10%h' ; O- T' ;/5% ; E' 8) >)' 86.'5 +*2',1' 62^ */6,' 6D /12' M 62% ' X' 620' >12,6 2.' 6' >/*6-' -* *-^ *2>*' ,1') D' 1-?*-' 26?*% %:,[/5.' 2,*-=-*,6, 12' M 6/6' ,.>)6 6-6' X 'BH?0 -*-' , / ' *-[> ->TJX')6.' 21,) 25',1' -*>1?.?*20' ,% ;>)' >)625*.')6+*' D**2' >1?.?12' 6,' 6//' , ?*.' 620' 1-' ,)*' . ?=/*' 6..; ?=, 12' 1 '6' 1-* 52' 26?*' >1?=6-*' 4*2% L/ ' T' C [*9' ' 'E ' 'M)*.)D6[[6-X% **' * !

62 */' 86.' 0*.>*20*0' -1?' 12*' 1 ',)*') 5)*.,' 6? ^ / *.' 2' B;06) ' ' 21,' *+*2' 1 '-1 6/' D/110' M 62% ' NT' >1?=%B1.*=);.' & !' L' T' 1 'U*0*9 6) '6>>1-0 25' ,1' = =)62% L%%!' 'K KX% B*-;.6/*?' 86.',);.' =-1D6^ D/ ') .' D -,)C=/6>*' ,)1;5)',)*' =6..65*' M 62% L' K X' _;1,*0' 2' 6+1-' 1 ',)6,' 1= 2 12' .'>12. 0*-*0' D ' ?62 ' >1?*2,6,1-.' 6.' 21,' 6,' 6// >12>/;. +*% : *' 6==*6-.' ,1')6+*' =1..*..*0' >12. 0*-6D/*' =*-.126/*2018?*2,.' M 62% ' X% : *' 86.',69*2',1' 6D /12' M8) /*' *,' 6' D1 ' 6>>1-0 25',1' B*-1-17' 'D ! ' K S' *0% *2%T 1 ',8*/+*' *6-.' .6 .' 526, ;. ' ' ! =% S' *0% 1,*/%X',15*,)*-' 8 ,)',)-**' *1,)*-' : *D-*8' 1;,).' 1 ' -629 ' 262 6)' < .)6*/' 620' [6- 6)' 6,' ,)*' -.,' 0*^ =1-,6, 12' 1 ',)*' =*1=/*' 1 'B;06)' 2',)*' 1;-,)' *6-' 1 ' B*)1 69 ?' % S S% : *' 620') .' >1?=62 12.' 8*-*' 1D/ 5*0',1' *2,*-',)*' .*-+ >*' 1 ',)*' -1A76/ >1;-,' 1 ' 6D^ /12' 12' 8) >)' 1>>6. 12')*' -*>* +*0' ,)*')6/0,*62' 26?*' 8 ' -- ' M % +%X' 6>>1-0 25',1' 6.,*-2' >;.,1?' 8)*2' 6' >)625*',69*.' =/6>*' 2' 12* .' >120 , 12' 1 '/ *' 620' ?1-*' *.=*> 6// ' ') .' =*-.126/ / D*-, ' .' ,)*-*D ' 6 *>,*0' M>1?=% K' 25.' LL ' N T' LL +% T' ,)% ' T' [-6' +' X% 2',) .') .' 2*8' >6-**-' 62^ */ -*>* +*0',)6,',)1-1;5)' =1/ .)' 1 '*0;>6, 12' 8) >)' - *2,6/*, _;*,,*' -*20*-.' 20 .=*2.6D/*' 2' 6' >1;-, *-' M>1?=' //' ST' /6,1' & ' g N X' 620' 86.' ?1-*' *.=*^ > 6// ' 2..-;>,*0' ' 2',)*' 8- , 25' 620' .=*69 25')6$' 06*62J' M 62% ' X',)6,' .' 2',)*' 0 6/*>,' =*>;/ 6-' ,1' ,)*')6/0.*62.% **' ') ! 2',) .' 0 6/*>,' 8*-*' >1?=1.*0' 6//',)*' 8- , 25.' 1 ',)*' *>>/*. ^ 6., >6/ 1-0*-' >12,6 2 25',)*' .;D.,62>*' 1 '6//',)*' 8 .^ 01?' 620' /*6-2 25' 1 ',)*' , ?*' 620' 2' ,)*' 9218/*05*' 1 '8) >)' >*-,6 2/ 'D;,' *8' 6+1-*0' /6 ?*2' 8*-*' 2 ^ , 6,*0% ()6,' 62 */)60' 0 ., 25; .)*0') ?.*/ ' 620' 6/-*60 '6,' 62' *6-/ ' =*- 10' 6>_; -*0' -*2182' 1-') 5)' 8 .01?' = *, ' 620' ,.- >,' 1D.*-+62>*' 1 ',)*' <1.6 >' /68' M>1?=% [*9% L + ' K T' LL+ ' NT' 62% 'QC SX' .',11' *+ 0*2,' -1?' =6..65*.' 2',)*' ,-;/77 6;,)*2, >' >- =,;-*.',1'-*_;-*' 62 '600, 126/.;==1-,' -1?',)*' //C86--62,*0' 6=1>-A7=)6/.,1- *.'>12>*-2 25',)*' 0*/ +^ *- '1 ' ;.6226)' D ',)*' 8 .01?' 1 ',)*' /60' 62 */' *,>% ' =-1=*-' 1==1-,;2, ' 1-' *+ 2> 25' D1,)',)*' 6>;.,*2*..' 1 ') .' ? 20' 6)0' D .' -*/ 5 1;.' 21, 12.' .112' =-*.*2,*0' ,..*/' 2',)*' >;.,1?' 1 ',)*' 6..*-2' >1;-,.' ,1' *2,>-,6, ' ,)*' 1 >*-.' 6,,6>)*0',1' ,)*?' -1?' ,)*' -1 6/,)D/*' M ,)*2.*;.' +!' ' =% ' *0% 46.6;D%X% 62 */' 86.' ,) ;.' *L=1.*0',1' ,)*' ,*?=,6, 12' 1 '=6-,69 25' 1 ' ;2^ >/*62' 110' 620' 1 '=6-, > =6, 25' 2',)*' 01/6,-1;.'>*-*^ ?12*.' 6,,*2062,' 12')*6,)*2' D62_;*,.% 9*' B1.*=)' 2' *6-/ *-',?*.')*' 56 2*0',)*' 6+1-' 1 ').' 5;6-0 62' 620' 86.' 0 + 2*/A7.;==1-,*0' 2') .' -*.1/+*' ,1' 6D.,6 2' -1?',)*' '9 25.' ?*6,J' 1-' *6-'1 '0* /*?*2,'M 62% ' QC SX% : .' =-;0*2,' =-1>**0 25.' 8 .*' D*6- 257' 620' 6D.1/;,*' -* ;.6/ ,1' >1?=/ ' 8 ,)' .;)' >;.,1?.' 8*-*' >-182*0' 8 ,)' .)*' 0 + 2*' D/*.. 25' 620')60',)*' ?1.,' ?=1-,62,'-*.;/,.% 21,)*-' -*6.12' 1 '6' .62 ,6-A' 26^ ,;-*' ?6 '6/.1' D*' 6.. 52*0' 1-',) .',*?=*-62>*' 6.',' .' =-1D6D/*')*' 86.'6,',) .', ?*' ;20*-51 25',)*' >;-6, +*' =-1>*..'6 ,*-'*?6.>;/6, 12' 2'6>>1-062>*' 8 ,)',)*' D6-^ D6-1;.'>;.,1?'1 ' - *2,*/*>1;-,.% **' > $ $ '! ',)*' >/1.*'1 ') .',)-**' *6-.I'0 .> =/2*' M 62% ' ' QX' 62 */')60' 62' 1==1-,;2, ' 1 '*L*->. 25') .' =*^ >;/ 6-' 5 .' M 62% ' X' 1 ' 2,*-=-*, 25' 0-*6?.' M>1?=% : *-10' 'Q T' 10% >% 'KRX' 12',)*' 1>>6. 12' 1 ' *D^ ;>)602*[[6-.' 0*>-**' 656 2..',)*' <65' M 62%

+1-' 8 ,)' ,)*' 9 25 ' 620' 86.' 2,-; .,*0' 8 ,)',81' ?^ =1-,62,' 1 >*. ' ,)*' 51+*-21-.) =' 1 ',)*' =-1+ 2>*' 1 ' 6D /12 ' 620',)*')*601 2.=*>,1-.D =' 1 ',)*' .6>*-01,6/ >6.,*'M 62% X% ** ' 12. 0*-6D/ '/6,*-' 2',)*' -* 52' 1 ' *D;>)602*[[6-' 8*' 20' 62 */ 2,*-=-*, 25' 621,)*-'0-*6?'1 ',)*%9 25 . ',1',)*' * *>,',)6, ' 2' =;2(.)?*2,' 1 ') .' =- 0*')*' 86.' ,1' /1.*' 1-' 6' , ?*') .' ,)-1 *' D;,',1'D*' 656 2'-*.,1-*0' # ' ,'6 ,*-') .') ; ? / ^ 6, 12')60' D**2' >1?=/*,*0'M 62% +X% : *-*')*' 0 .^ =/6 .' 21,'12/ ',)*' ?1.',1;>) 25'62L * '/1+*'/1 6/^ , ' 620' >12>*-2' 1-') .' =- 2>*/ ' D*2* 6>,1-' D;,' 6/.1' ,)*'*2*-5 '620'.1/*?2, 'D*>1? 25') .'=1. , 12'=1 2,^ 25' 1;,' 8 ,)' + 51-' 620'=18*-',)*' 12/ '>1;-..*'/* ,' 1-' ,)*' ?126->)',1'=;-.;*' 1-') .',1',)*'=*6>*' 620'8*/ 6-% $'2P 0*-',)*';281-,) ' .;>>*..1-.'1 ' *D;>)602*[[6-' 62^ */620') .' ?*-.,.'.**?',1')6+*'D**2' 1-51,,*2'620')*' 86.' -*?1+*0' -1?') .') 5)' =1.,.% : .' . ,;6, 12' 6, >1;-,'6==*6-.',1')6+*'D**2'>12 2*6'2*8' .;>>*.. 12',1',)*',)-12*' ,119' =/6>*% & *',) ; .' /1.*' . 5),' 1 ' 62 */ ;2, /',)*' -.,' *6-' 1 '9 25' */.)6[[6-'M 62% + ' QX' 8)*2')*' 86.' D1,)' 6/6-?*0' 620' >1? 1-,*0' D ',81',-*?6-96D/*' + . 12.'M 62% + '+ X' 8)>)'0 .>/1.*0',1') ?',)*' ;C ' ,;-*'>1;-.*'1'*+*2,.'620',)*';/, ?6,*' 6,*'1',)*'?1.,' =18*- ;/*?= -*.' 2',)*' 81-/0'D;,' 2'=6-, >;/6-',)*' -' -*/6, 12.',1',)*'9 2501?' 1'410'620',.'0*+*/1=?*2,' ,1',)*'5-*6,'>12.;?? 6, 12% : *'6 ,*-86-0.' 2,*-=-*,^ *0',)*') 6208- , 25' 12',)*' 8 6// 8) >)'0 .,;-/D*0',)*' *6.,'1 ' */.)6[[6-'M+ ' CKQX',)1;5)')*' 21' /125*-')*/0' .' 1 >6/'=1. , 12'6?125',)*' ?65'M 62%+' ' Q KX'620'=-1D6D/ '/+*0'6,' ,.6'M 62'+ 'KT' >1?=% B1.*=)% & 'L' ' T' 1>)6-,'? 0' $ ' ' X% ,'-',)*' >12_;*.,'1 ' 6D /12' D ',)*' ;2 ,*0'=18*-.' 1 ' <*0 6' 620' *-. 6 ' 62 */'D* 25' ?60*' -.,'1',)*' ,)-**' =-*. 0*2,.J' 1 ',)*' *?= -*' M>1?=% ' .0-% RX',*-1;./'D;. *0') ?.*/';20*-',)*'.)1-,'-* 52'M,81' 7*6-.X1' 6- ;.',)*' <*0* 1-' 6L6-*.' '8 ,)',)*6^ 6 -.' 1 'D .'=*1=/*' 620',)*' -'=1.. D/*' -*,;-2' -1?' *L^ /*',)*',*-?'1'8) >)'86.' 6.,'6==-16>) 25'6>>1-0 25' ,1',)*' =-1=)*> *.' 1 'B*-*? 6)% 2'0**=') ; ? / , '620' =-1.,-6, 12' 1 '.= - ,')*',)*2'=-6 *0',1',)*' /? 5), ' 2' ,)*' 26?*'1 ') .'=*1=/*' 1-' 1-5 +*2*..'1',)*' -'. 2.'620' 1-',)*' + 2*' ?*-> ' 2',)* -'D*)6/ T' 620',)*' 62.8 *-C 25'=-1? .*.' 8) >)'1'-*>* +*0' 6-'*L>**0*0',)*',*21-' 1 ') .'=-6 *-' 1-',)*' + . 12.'1',)*' .**-' 8*-*' *L,*20*0' ,1',)*' *20' 1 'B;06 .?' M 62% LX% 2'6'=-6>, >6/=1 2,' 1 '+*&X 6/.1' 62 */6==*6-*0'6,',)6,', ?*' 6') 5)/ C 6+1-*0' 2.,-; ?*2,' 1 'B*)1+6)% >>;= 25' 6.')*' 0 0'12*' 1 ',)*') 5)*.,'=1.,.' 1 ')121-' 2',)*' .,6,*',)*' .,- >,2*..' 620'.>-;=;/1;.2*..' 8 ,)' 8) >)' D*' ;/ //*0' D .'1 >6/0;, *.' >1;/0' 21,' 6/.1',-1;.*' *2+ '620'A*6/^ 1;. ' 2',)*' D-*6.,.' 1 ') .' >1//*65;*.' 8)1' 8*//92*8')18',1' 8 2',)*' 8*69' ?126->)' 8)1?',)*' 6,'6.,' 2^ 0;>*0',1' ..;*' 6'0*>-*' ?=1. 25' >*-,6 2'6>,.',)*'=*-^ 1-?62>*' 1' 8) >)',)*' ' 8*// 92*8' 86.' 6/,15*,)*-' 6, +6- 62>*' 8 ,)',)*' >-**0'1' 8) >)' 62 */ 86.' 6' [*6/1;.' =-1 *..1-'M>1?='),)*' 6=1>- 7=)6/ */620',)*' -6502X% 1-') .' 0 .1D*0 *2>*' ,)*' =-1=)*,' .; *-*0',)*' =*26/, ' .=*> *0' 2',)*' 0*>-**T / *' 86.',)-182' 2,1' 6'0*2' M_% X' 1 '/ 12. 'D;,' 86.' ? -6>;/1;./ '.6+*0' D ',)*' ?*-> ' 1 '410 ' 6' > ->;?.,62>*' 8) >)' *2)62>*0') .' -*=;,6^ , 12' 620' 656 2'-6 .*0') ?',1',)*') 5)*.,'=1.,.' 1 ')12^ 1-%' :*')60' 6,'/6.,',)*')6== 2*..',1'.**' D .' ?1.,' 6-^ 0*2,' 8 .)*.' 6>>1?=/ .)*0 ',1' D*)1/0' D .' =*1=/*' -*C ' .,1-*0',1',)*' -' 182'/620% ()1;5)') .' 60+62>*0' 65*' 81;/0'21,'6//18') ?',1'D*' 6?125'$ 1.*8)1'-*,;-2*0',1' 6/*., 2*' *,'0 0') *' 2*+*-' 1-' 6' ?1?*2,'>*6.*',1'1>^ >;=') .'? 20'620') *6-,'8 ,)') .' =*1=/*' 620',)* -'>12^ >*-2.'M 62%d' KX% ',)*' 6>>*.. 12'1' =-;.') *',,/' -*,6 2*0') .' =-1.=*-, 'M+ 'KQT' >1?=' 'K Z' */620' -7X',)1;5)')*' 01*.' 21,'6==*6-',1')6+*'-*?6 2*0'6,' 6D /12' M>1?=% 62% 'K X% 2',)*',) -0' *6-'1' ^ -;.'D*')60'6'.*- *.'1'+. 12.' 2' 8) >)')*' 86.' 2 1-?^ *0' 1 ',)*' ? 2;,*.,' 0*,6 /.'-*.=*>, 25',)*' ;,;-*') .^ ,1- '620'.; *- 25.'1') .' 26, 12',1',)*'=*- 10'1',)*' -' ,-;*'-*0*?=, 12',)-1;5)')- .,'6.' 6/.1' 6'>12.1/6,1- ' 21, >*',1') ?.*/',1'=-1>**0'>6/?/ '620'=*6>*6D/',1' ,)*' *20'1') .'06 7.'620',)*2'686,'=6, *2,/ ',)*' -*.^ ;--*>, 12'1',)*'0*60'6,',)*'*20'1', ?*% -1?',)6,'=*- 10',)*'6>>1;2,.'-*.=*>, 25' 62 */6-*' +65;*' 620'>12 ;.*0'M.**' - 0*6;L' 1' 'K SX% >>1-0 25',1',)*' <1)6?7*062',-60 , 12'M : *-D*/1,I' ; "I', ' ' S X')*' -*,;-2*0',1'B;OA*6')*/0',)*' 51+^ *-2?*2,'1' - 6' 620' 26// '0*0'6,' ;.6'M 1.*2C ?;//*-'$ + !=%S' %X'8)*-*') .',1?D' .'., /// .)182' M ;.*/* .'- ' ' 1' KKT' ' S X'620'.'+ . ,^ *0'D '>-180.'1'=/5- ?.'M.**' 1 ,;.' - ! ' " 1' =% NK'._%X% [*9*/?*2,12.' 62*/6.'6'=6,,*-2'1' - 5),*1;.2*..'ML+' K X'620'8.01?'MLL+ 'NXT' 620' .2>* 62*/86.'.,//1;25'6,',)6,',?*'.1?*')6+* ,)1;5),',)6,'621,)*-'=-1=)*,'1',)*'26?*'?;.,')6+* /+*0'6,'.1?*'*6-/*-', ?*'M /**9%B=*-)6=.'0;-25',)*' >6=, +, '1' 2*+*)'M 86/0'' ' %" 1' ' S X' 8)1.1' 6?*' 86.',-62. *--*0',1') .' /6,*-' 26?*.69*% : ,[5' 265 2*.' IN +'g NX',)6,',)*' 62 */1' [*9*/86.'=;-*/'6'? ,) >6/=*-.1265*'8)1.S=-1C ,1, =*.',1'D*'.1;5),' 2'<*/>) [*0*9'620',)6,',)*' >)6-6>,*-'86.'D1--18*0'D C,)*'6;,)1-'1',)*')119'1' 62 */6.'.;,*0',1') .'0*.528' ()*.*.;==1., 12.'6-*' 6+1-*0'D '21' 2,*-26/=-1D6D/, '620'6-*'8 .2==1-,C *0'D '62 '0-*>,'*+0*2>*% ()*'1-0*-'1',)*'26?*.' 16)' 62 */'620'B1DJ'M [*9'L+' X'.**?.',1'.;5^ 5*.',)*'0*6',)6,',)*' -*=*-*.*2,',)*' -.,'620'/6.,') .^ ,1-'>',=*.'1'-5),*1;.2*..'D*1*',)*'/68'620';20*-' ,'>1?D2*0'8 ,)',)*' 0*6/, =*'M>1?=% */ ,[.>)'=% K X% 2',)*'1,)*-')620',)*'26--6, +*' 2' 62% ' ?=/*.',)6,' 62*/86.'>12.=>;1;./'0 .,25;.)*0' 1-'=;-, '620'9218/*05*'6,'6'+*-.'*6-/'65*'M>1?=' ,)*'6=1>- =)6/:.,'1'/7;.62% X'620')*'?6')6+* 3D**2'2*6-/'1-,' *6-.'1/0'6,',)*', ?*'1' [*9*/.' =-1=)*> 'M % % RKX% **' /*L620*-' ' ' '1 '2').'# '6 ! ' SSX' 1D2.12'$ % ' " ' T' <`46+2' ' '' 'M QNKX' +62.'$ % '; ' ' T' & //6?.' " ' 'L'-'=% N T' *22*0' '4 '" ' ' ' ' 'M 120% N QX' 21L' ; ' '' N ' ' " ' **+ / ' ! //;.12')6.'D**2'?60*'6D1+*',1'D>'>1?=6-.12' 8)>)'?6'D*' 2.,,;,*0'D*,8**2' 62 */620'B1.*=)' 8)1'.,620'6,',)*'D*5 22 25'620',)*'>/1.*'1',)*'0+2*1'),.1-'1',)*'B*8.'6.'-*=-*.*2,6, +*.'1',)*',-;*'410' 2')*6,)*2'>1;-,.'M ;D*-/*2'6-2*/'=%NK NNX% 2',) .' -*.=*>,',)*'=1., 12'1' 62 */?;.,')6+*'*L*-> .*0'6' =18*- ;/2/;*2>*' ;=12',)*'1'-?'1',)*'-*+*/6, 12.' >12+* *0',)-1;5)')?T 620' 2',;-2',)*'6;,)1-, ' 8)>)')*'*2%1 *0'-*20*-.',)*'>1;-.*'1',)*'*L /*' 620' ,)*'-*,;-2'>/*6-/' 2,*// 5 D/*% '.,6, 12'D '*0;>6^ ,12'620'D '>)6-6>,*-'.')*'86.'=*>;/6-/' ,/*' 81-9'6..52*0',1') ?% :*'86.'21,'12/'6'-*.^ 0*2,' 2'6' 1-*52'/620'/9*'B*-*?6)'1-' [*9*/');, ,)*'?2.,*-'1'6' 1-*52'*?=-*'620'1'.;>>*..+*'0^ 26.,*.'M 62% ' QT' +'KQX% : .'=1/,>6/*L=*-.*2>* 81;/0'26,;-6// '_;6/ ') ?',1'5+*'0.,2>,'*L=-*.^ .12',1',)*')6-6>,*-.,>.'1'26, 12.' 2',)*?./+*.' 620'21,'12/' 2',)*-'-*/6, 12',1'410.'=*1=/*% : .' 2,*//*>,;6/60+62,65*.'8*-*'6.'-*?6-96D/*'6.'D.'>+/ 0 52, % 9*',)*'5-*6,'/685+*-'8)1'86.' ,-6 2*0' 2'6//,)*'8.01?'1',)*' 5=,62.J',)*'5-*6,'.**-' 86.',-6 2*0' 2',)*'.*>-*,.'1' D6/0,>62'8.01?'620' 6>,*-% ;,';6/1;5)*)*'2*2=*-*'6.'D.'>+/ 0 52, % 9*',)*'5-*6,'/685+*-'8)1'86.' ,-6 2*0' 2'6//,)*'8.01?'1',)*' 5=,62.J',)*'5-*6,'.**-' 86.',-6 2*0' 2',)*'.*>-*,.'1' D6/0,>62'8.01?'620' 6>,*-% ;,';6/1;5)*)*'2*2565*0'2',)*'.*-+>*'1'6')*6!' ,)*2'=-2>*'620'6?/6-'8,)' -*2,6/*6-2 25' 62^ */86.'-1?',)*' -.,'0.,25;.)*0'D')..'.,-'>,'1D^ .*-+62>*'1',)*'<1.6>'/68'M' C ST'>1?='+'A/' X% 2',)'.'86',)*',)-0'1;,86-0'>120,12'1-')'.'81-9' 86.'.6,. *0'620'6,',)*'>/1.*'1',)*'L/*')*'1 *-*0'6' =6,,*-2'1')1/1*..'1-',)*'2.,-;>,12'1',)*' .=*-.12

1 ' 6 ,*-' , ?*.' M>1?=¼ ;,P*-h*2 7% 2, & ' =¼ K 7 *,>%X¼ ' 8 ' !

6- 1 ; .' 6=1>- =)6/ -65? *2,.' 6,,- D ; ,*0' ,1' 62 */ 6-*' >1//*>,*0' D ' 6D- > ; .' I !' 'N ' -!' ' K X' 620') .' - .01?' .'*L,-6+6562,/ '/6 ; 0*0'D ',)*' 6DD 2.' M4*?6-6 ' < 8' D ; ,' ,' .' . ; -=- . 25',) 6, ') .' 6?*' 2' /6,*-' , ?*.' .**?.' ,1')6+*' D**2' 1D.>; -*0' M : 1,, 25*-' D 2 ' , !' RKX¼ 1?=¼ = =)¼N !' ' !' '=¼K N' *0¼ *,6+%' N !' ' !'6=¼ 6D- >%' B1.*=) ; . ' & !' L ' ' ¼ ' ,,1 ' Q¼ %' ? ,) ' Q¼ +¼ *>' ' / #4 / ' 6 ' !

' 8 ' /!' () .' ?=1-,62,' 620' 2' ?62 ' -*.=*>,.' -*?6-96D/*' D119' ,69*.' ,.' 26?*' 21,' 12/ ' -1?' ,)*' =- 2> =6/ =*-.12' 2' , ' D ; ,' 6/.1' 620' >) * / ' -1?') ?' 6.' ,.' -*6/ 6 ; ,) 1- ' ,) *-*' D* 25' 21' A ; ,.' >6 ; .*' 1 ' 01 ; D,' ,) 6, ' 6.' ,)*' D119' ,.*/ ' .*., *.' ,' 86.' >1?^ =1.*0' D ' 62 */ M>1?=' + ' 'KQT' + ' KT' L ' KX¼ ' , 1>>; = *. ') 18*+*-' D ; ,' 6' ,) <' -629' 2' ,)*' : *D-*8' >6212' 21,' 6?125',)*' %" 'D ; ,' 2',)*' # 1' %" '18 25' 6==6-*2,/ ',1',)*' >1--*>,'+ *8' 1 ',)*' >1?^ =1.*-.' 1 ',)*' >6212',) 6, ' 62 */ 0 0' 21,' *L*-> .*') .' =-1=)*, >' 1 >*' 2',)*' ?1-*' -*,.- > ,*0' 620' =-1=*.' .*2.*' 1 ',)*' ,*-?' =-1=)*> J' D ; .' .,110', 1',)*' ,)*1>-6> ' 2' 6' 0 *-*2,' -*/6, 12' -1?' ,)1.*' -*6/' =-1=)*,.' 8)1.1' >6// 25' 620' =-1 *.. 12' >12. .,*0' *L>/ ; . +*/ ' 2' 0*>/6-^ 25',)*' ?*..65*.' ,)* ' -*>* +*0' 620' 2' ,)*' >1? ?;^ 2 12' 8) >)' ,) * ') *//0' 8 ,)' 410¼ ()*.*' /6,,*-' 6-*' ,*-?*0' 2',)*' 62> *2,' : *D-*8' 0 1?' ,N7 I7N =-M7 C ' 2' >12,-60 ., 2>, 12', 1' 8)1' ,)1 ; 5) ,) * ' 8*-*' *_ ; 6// ' 6+1-*0' 8 ,)' 0 + 2*' -*+*/6, 12. ' 8*-*' 2*+*-,)*/*. .' 21,' =-1=)*,.' " '% '6' _6// 25' ,) 6, ' >/6 ?*0',)*' *2, -*' .*-+ >*' 1 '6' ?62 .' 8)1/*' / *¼ **' ! ()*' 6D /12 62' *L /*' . ; ==/ *0',)*' 1 ; ,^ 86-0', -6 2 25' 620',)*' 286-0' 2*>*. . , ' 1-' ,) .' /6. ; ' 1-?' 1 '0 + 2*' ,*6>) 25' 620',)*' =-1=)*, >' + . 12.' 1 ' [*9 */ 1-?',)*' >122*>, 25' / 29' D*, 8**2',)*' >)6-6>^ ,*- ., >', =*.' 1 '-*+*/6, 12' 620' =-1=)*> 'M>1?=¼ ;>9*' N "' ' .¼T' : ,[5 ' ' 'N " f g RT' : /C' 5*2 */0' ' 'D !' &% +!' '. ¼X' ()*' 1//18 25' 6>>1 ; 2, ' 1 ',) .' D119' .' 2' =6-,' >1?= /*0' -1?' ,)*' 6-, >/*.' 1 ' ,,1' 620' ? ,)¼ **' 6 !

¼ ()*' D119' 1 ' 62 */ 0 + 0*.' ,.*/ ' 2,1', 81' =6-,>)6=,*-' 1-?.' 6') ..1- ' 1 ',)*' ..-; 55/*.' 1 ',)*' B*' =* .^ " D! 'M>)¼ C+ X' 620' % %" 'M>) ' + CL X ' 6--625*0' -*.=*>, +*/ ' 2' >)-121/15 >6/1-0*-¼ 2',)*' -., '.*+*2') ; ->)' 8 ',)',)*' 4-**9' =18*-.' ; =', 1',)*' 0*6,)' 1 ', .' >)6=,*-.' 6>>1-0 25/ ' 62 */ .' .=19*2' 1 '" ' 5-*6, ' 60+*-.6-E' ML ' X¼ () .' >12 / >, ' 20**0 ') 6.' 6' M ' QCK T' ' C RT' + ' QCK T' + ' NCKRT' + ' KCKQT' + ' , = >6/ ?=1-, ' 620' 1-*.) 18.' 2' ,.' >)6-6>,*- ., >' 1 ; ,^ 'KXT' 2',)*' /6.' +*')*' 6==*6-.' % ' 6.' ,)*' / 2*.' ,) *' D119' 1 ' 62 */ 0 + 0*.' ,.*/ ' 2,1', 81' =6-,>)6=,*-' 1-?.' 6') ..1- ' 1 ',)*' ..-; 55/*.' 1 ',)*' B*' =* .^ " D! 'M>)¼ C+ X' 620' % %" 'M>) ' + CL X ' 6--625*0' -*.=*>, +*/ ' 2' >)-121/15 >6/1-0*-¼ 2',)*' -., '.*+*2') ; ->)' 8 ',)',)*' 4-**9' =18*-.' ; =', 1',)*' 0*6,)' 1 ', .

% ’ EEN %

$ ’ 4 (’ ($’ 4 < ¼

& $ / !’ ¼ : ¾ 2¼ ’ /!’ ? ¾ ’ /!’ ?%! ’ /!’ 7)

’ (D* <’ 5-*6,’ D*66,.’ 8) >)’ 6L*’ D ; - ’ 1 ; - ’ 6)6// 6- .*’ ,’ ’,)*’*6-,)¼

N’ ( )*2’ ’/ ,*0’2=’? 2*’* *.’620’.68 ’620’ K ’ ( )*’-6?’8) >)’ K’ 2B’ ’2 ’ ’3 ’ ’ ’ ’ 4)/’ D*) 1/0 ’ ,)*-*’ .. <’ D* 1-*’ ,)*’ - +*-’ 6’ -6?’ ,)1 ; ’ ..8 *..’)6+ 25’ ,)*-*’ .)6// ..620’ 0= *,’,)-*’* 9 25.’ 2’ *-. 6’ 8) >)’) 60’¼*1) 1-2.’ ¼ *20’ ,)*’ ,,11’D1?.’8*-*’ &’’) 1-2.’ 6-*’ ,)*’ 620’ ,)*’ 1 ; -,)’ .) 6// <’ 6-’ - >)*-’ ,) 62’ #6//¼) ¼T) ! D ; ,’ 12*’ ,2 ; ’ D 7 D*-’ .) 62’ ,) *’ 1,) *- ’ 9 25.’1 ’ < *0 6’ 620 620’ ,)*’) 2D*-’>6?*’ ;=’/6.,¼

’ ’ .68’ ,)*’ >6?’ =; .) 25’ 8 *. , 8 6 -0 ’ 620’ 21-.) 8 6 -0 ’ 620’ .1 ; ,) 8 6 -0’ .1’ ,) 6 , 21’ D*6.. , ’ ? 5) ,’ . .620’ D* 1-*’) ? ’2* . ,)*-’86.’ ’ #

,) 6 , >1 ; /0’ 0*/ +*-’1 ; ,’1 ’) . ’ D620’ D ; ,’) *’ 0 0’ 6>>1-0 25’,1’) . ’ 8 // ’620’ D*>6?*’5-*6,¼

620’ D ’) . ’ . , -*25,) ’ ,) -1 ; 5) ’) . ’ - >)*.’) *’ .) 6// ’ . . , ’ :=’6 / ’656 2 . , ’) *’-*6/?’1 ’4-*> 6¼

’ 20’ 6.’ ’ 8 6 . ’ >12 . 0*- 25’ D*) 1/0 ’ 6’) *(’ K ’ 20’ ,) *’ -1 ; 5) ’ ¾’ 20’ 6’ ? 5) ’ ’9 25’ .) 6// ’ . .620’ : = ’ .) 6 , ’ ,) 6// 516, ’ >6? *’ -1?’ .) *’ 8 *. , ’12’ .) *’ 6> *’ 1 ’ .) *’ 516, ’ *’ .) *’ 9 25’1 ’ - ; /*’8 ,) ’5-*6, 61? ?11’620’01’6>>1-0 25’,1’) . ’ 8) 1/*’*6-,) ’620’.1 ; >) *0’21, .) *’5-1 ; 20¼’620’4-*> 6¼’ 620’ ,) *’ 8 //¼

,) *’516, ’ 66’6’21,6D/*’) 1-2’D*,8**2’) . ’* *.¾ 5-*6, ’) 1-2’ .) 6 , ’ ,*’ ’S 20’ D*’ >6?*’ ,1’ .) *’ -6?’ ,) 7 ’ .) 60’ & ’ D*, 8 **2’) . ’* *. ’ , ’) 1-2. ’ 8) >)’ ’ D60’ . **2’ . . 620 25’ D* 1-*’ .) *’ ,) *’ -. , ’ 9 25¼ - +*-’ 620’ -62’ ; 2, 1’) ’?’ 2’ ,) *’ ; - ’ 1 ’) .

620’) *’ 8 6 . ’ ? 1 + *0’ 8 . ,) ’ >) 1/*-’ 656 2 . , ’) ? ’ 620’ . ’ ? 1, *’ ,) *’ -6? ’620’ D-69*’ D . ’, 8 1’ D1 ? . ¼ 620’ .) *-*’ 8 6 . ’ 21’ 7 8 *. ’ 2’ ,) *’ -6?’ 1’ . , 620’ D* 1-*’) ? ’ D . , ’ D*’ >6 . , ’) ? ’ 0182’ . 1’ .) *’ 5-1 ; 20’ 620’ . , 6?=*0’ ; . , 82’) ? ¼ 620’ .) *-*’ 8 6 . ’ 212*’ ,) 6 , ’ >1 ; /0’ 0*/ + *-’ .) *’ -6?’ 1 ; , ’ 1 ’ D . ’ D620¼

¼’ ( ) *-* 1-*’ ,) *’) * 7 6 , ’ 8 6 L*0’ + *- ’ = -*6,¼ 7 1 ; -’ 9 2561? . ’ 1 ; -’ 8 20. ’ 1 ’ D*6+*2’ 620’ 21, ’ 1’) . ’ =1 . , *-. ’ 620’ 8) *2’ D*’ 86. ’ . , -125’ .) *’ 5-*6, ’ D1-6’ 86. ’ .) 6// ’ . .620’ ; =’ 1 ; , ’ 21-’ 6>>1-0 25’ ,1’) . ’ 01? 2 12’ 8) >)’) *’ 2L/*6¼ D-19*2T 620’ 1-’ , ’ ,) *-*’ >6?*’ ;=’ 1 ; -’ 21, 6^ ’ ,) *’ 26, 12’) ; , ’ 1-’) . ’9 2501?’ .) 6// D*’ =/ ; >9*0’ ; = ’ *+*2’ 1-’1,)ZP D/*’12*.’, 18 6-0’7*’ 1 ; -’ 8 20.’1’) *6+*2¼ 21, 2’) . ’ =18*-¼ * .’D*. 0*.’,) 1.*¼

KW 18’ ,) 6 , ’ D*^ 25’D-19*2’8) *-*(’ ’ 20’ 8) *2’) *’ *) 6// ..620’ ; = ’) . ’ 9 2501?’ 1 ; -’ . , 110’ ; =’ 1-’ .) 6// D*’D-19*2’620’ .) 6// D*’0 - 6*0’ , 18 6-0’ , D1’ 620’ .) *-*’ 86. ’ 21’ 7 8 *. ’ 2’ ,) *’ -6?’ 1’ . , 620’ D* 1-*’) ? ’ D . , ’ D*’ >6 . , ’) ? ’ 0182’ . 1’ .) *’ 5-1 ; 20’ 620’ . , 6?=*0’ ; . , 82’) ? ¼ 620’ .) *-*’ 86. ’ 212*’ ,) 6 , ’ >1 ; /0’ 0*/ + *-’ .) *’ -6?’ 1 ; , ’ 1 ’ D . ’ D620¼

R’ ( ) *2’ ’ 81 ; /0’ N ( ) ; . ’) *’ . 6 0¼ 9218’ ,) *’ , - ; . ,) ’ 1 ’ ( ) *’ 1 ; -,) ’ D*6. , ’ ,) *’ 1 ; -,) ’ D*6. , .) 6// D*’ ,) *’ 1 ; -,) ’ 8) >)’ 86. ’ 0 + *-. *’ 9 2 71 ? ’ . ; =12’ -1?’6//’ ,) *’ 1,) *-. ’ *6-,) ’ 8) >)’ .) 6// *L>**0 250-*60 . ; /’ D*’ 0 . + *-. *’ -1?’ 6// 8) 1. *’ **.) ’ & ,’’ 9 2501?. ’620’ .) 6// -12’ 620’) . ’ 26 /. ’ 0*+1 ; -’ .) *’ 8) 1/*’ 7 D-6. . 1’ 8 . ,*’ ’0*^ *6-,) ’ 620’ .) 6// +1 ; -*0’ D-69*’ ’2’ . -*60’ , ’ 0182’620’ = ’*>*. ’620’..6?=*0’ D-*69’ , ’ 2’ = *>*.¼ ,) *’-*. 0 ; *’ 8 /,) 2 . ’ **, ’¼

’ 20’ 1 ’ ,) *’ *2’ K ’ 20’ ,) *’ . *2’) 1-2. ’ ,) 6 , ’ & ’ 2’) 1-2. ’ 1 ; , ’ 1 ’ ,) . ’) . ’D*60¼ 9 2501?’ 6-*’ . *2’ 9 25.’ ’ .) 6// 6- . *¼

’ 20’ ,) *’ 9 25’ 1 ’ ,) *’ .12,) ’ .) 6// D*’ . -125 ’620’ ’ 1 ’) . ’ =- 2>*. ’ 620’ D*’ .) 6// D*’ . . -12, -’ 6D1+*’) ? ’620’) 6+*’01? 2 12’ ’) . ’01? 2 12’.66 /0*’6’ 5-*6, ’01? 2 12¼

à S 20’ 2’ ,) *’ *20’ 1 ’ *6-. ’ ,) * ’ .) 6// á1 2’ ,) *? ^ . */+*.’ , 11,) *-’ 1-’ ,) *’ 9 25 . ’ 06 ; 5) , *-’ 1 ’ ,) *’ .1 ; ,) ’ .) 6// >1?*’ , 1’ ,) *’ 9 25’1 ’ ,) *’ 21-,) ’ , 1’ ? 69*’ 62’65-**?*2, ¿ D ; , ’ ;) *’ .) 6// 21, -*, 6 2’ ,) *’ =18*-’ 1 ’ ,) *’ 6- ? ’ 1’ 2* ,) *-’ .) 6//) *’ . , 620’ 21-’) . ’ 6- ? ¿ D ; , ’ .) *’ .) 6// D*’ 5 +*2’ ; = ’ 620’ ,) * ’ ,) 6 , ’ D-1 ; 5) , ’) *-’ 620’) *’ ,) 6 , ’) *- 620’ D*’ ,) 6 , ’ . , -*; 5,) ’ 2*0’) *-’ 2’ 3 ’ . ?*.¼

’ . ; , ’1 ; , ’1 ’6’D-62>)’1 ’) *-’-11, . ’ .) 6// 12*’ . , 620’ ; =’ 2’) . ’*’ . 6, *’ 8) >)’ *) 6// >1?*’ 8 .)’ 62’6-? ’ 620’ .) 6// *2, *-’ 2, 1’ ,) *’ 1-. -*’ . ’ 1 ’ ,) *’ 9 25’1 ’ ,) *’ 21-,) ’ 620’ .) 6// 0*6’ 656 2 . ’ ,) *? ’620’ .) 6// =-*^ +6 /¼

Q’ 20’ .) 6// 6/.1’>6-- ’>6=, +*.’ 2, 1’ 5 =, ’ ,) * -’ 510. ’ 8 .) ’ ,) * -’=- 2>*.’ ’) 8 ,) ’ ,) * -’=-*> 1 ; , ’ +*-*/.’ 1 ’ . /+*-’ 620’ 1 ’ 51/0’ 620’) *’ .) 6// >12^ , 2 ; *’ ?1-*’ *6-. ’ ,) 62’,) *’ 9 25’1 ’ ,) *’ 21-,) ¼

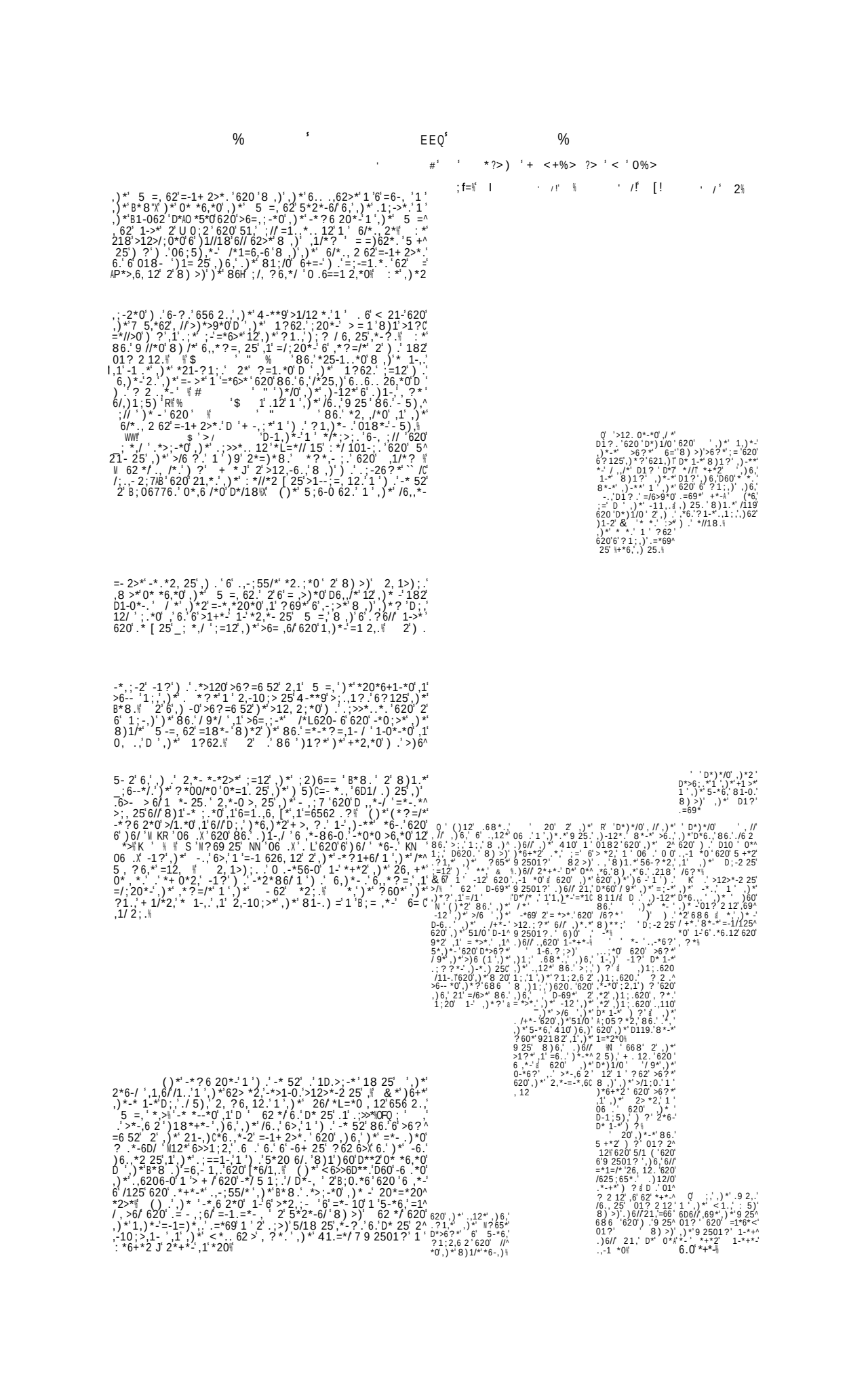
R’ 1’ ,) *’ 9 25’ 1 ’ .) *’ . 1 ; ,) ’ .) 6// >1?*’ 2, 1’ 9 2501?’ 620’ .) 6// -*; -2’ 2, 1’) . ’ 182’ /620¼

’ . ; ’2 . ’*12. ’ .) 6// D*’ , . -*0’ ; = ’ 620’ *) 6// 6 . ^ . *? D/*’6’ ? ; /, ; ; 0*’ 1 ’5-*6, ’ 1-> *. ¿ 620’ ’ .) 6// >*-, 6 2/ ’>1?*’ 620’ 1+*- /18 ’620’ =6. ’ ,) -1 ; 5) ¿ ,) *2’ .) 6// D*’ -*, ; -2 ’620’ D*’ . , --*0’ ; = ’ ’ , 1’) . ’ 1-. -*..¼

’ 20’ ,) *’ 9 25’ 1 ’ ,) *’ 612,) ’ .) 6// D*’ ? 1+*0’ 8 ,) ’5, 1/*-’620’ .) 6// >1?*’ 1-,) ’620’ /5D, ’ 8 ,) ’) ? ’ ’ 8 ,) ’ ,) *’ 9 25’ 1 ’ .) *’ 21-,) ¿ 620’ D*’ .) 6// . *, ’ 1-,) ’6’5-*6, ’ ? ; /, . ; 0*’ D ; , ’ ,) *’ ? 2/, /C’ , ; 0*’ .) 6// D*’5 +*2’ 2, 1’) . ’) 620¼

’ K +) ’ 8) *2’) *’) 6,) ’ , 69*2’ 68 6 ’ . ,) *’ ? 2/, C’ , ; 0*’) . ’) *6-, ’ .) 6// D*’ / . ,*0’ ; =’ 620’) 1’ .) 6// >6 . , ’ 0182’ ? 62 . , *2’ .) 1 ; . 620. ¿) ; , ’ D*’ .) 6// 21, ’ D*’ . , -*25,) *2*0’5#

N’ 1-’ ,) *’ 9 25’ 1 ’ ,) *’ 21-,) ’ .) */// -*, ; -2 ’620’ .) 6// . *.’ 1-,) ’ 6’ ? . ; /, . ; 0*’ 5-*6, *’ . ,) 62’ ,) *’ 1-^ ? *- ’620’ .) 6// >*-, 6 2/ ’>1?*’ 6 , *-’>*-, 6 2’ *6-.’ 8 ,) ’6’5-*6, ’6-? ’620’ 8 /,) ’ ? ; >) ’ - >) *.¼



$ ' 4 (' (' 4 < % ' M 12 ,2,8,HWX

/ -# % # # ; # ' ; -# d % / A' d # / !' d(

(2,'6'>1--;=,'+*-26>;/6-'0 6/*>,'6'? L,;-*'1 ' : *D-*8'
620' -6?6>' 1-?*0'0;- 25',)*' =*- 10'1',)*' *L /*%
,' -*.*?D/*.' ?1../ ',)*')6/0*** = *>*.' 2' [-6 'D;,'
0 *-.' 5-*6,/ ' -1?',)*' 0 6/*>,'1',)*'/6,*-' (6-5;?.'
M.**' : /5*2 */0' 6 ' !' ' !' ' '" ' ; =
' : 6//*' QSNX% ** ' ') !
()*' .,/*' .'+*+2' 2',)*'=-1=)*,>'=6-,.' ?1-*'=-1^
.6>',)62' =1*,>6/' 6.' 18,)')6.' 6/-*60 ' 1D.*-+*0%
()*') .,1- >6/'0*.>- =,12.'6-*';.;6// '+*- 'D-160'620'
=-1/ L' 2'0*.6 /.'T D;',)*'=-1=)*>*.')6+*'6'?1-*'-)*^
,1- >6/' >)6-6>,*-' 620',)*.' 0*/+*- ' .' -*_;*2,/'
.1?*8),'6D-;=,T ,)*.' ., /*' .'0*.>- =,+*' =6 2, 25'
8 ,)',)*' ?1..'/+*/ '>1/1-.',)*'., // -*.)' ?=-*.. 12'
8))',)*'+ . 12')6.'?60*'12',)*'?*2,6/* *%
d'()*' '1',)*'D119')6.'D**2'0 .=;,*0'D '.*+^
-6/>-,>.' 620'?1-'*.=*>6// 'D ' >))1?'620' *-C
,)1/0,'8)1'>12>* +*0',',1')6+*'D**2'8-,,*2'D '?1-*'
,)62'12*' 6;,)1-' 12'6>>1;2,'1'.1?*'>12,-60>,12,'
8)>)',)*',)1;5),',)*'>')60'0 .>1+*-*0'2',' .;>)'6.'
2' 'K '>1?=6-*0'8,)'L' T 620'2' ' C Q'>1?=6-*0'
8,)' ' % & ,)'-*56-0',1',)*' -.',.;==1.*0'>12,-6^
0>,12'8*' >12. 0*-' ,)*'?*62 25'1' 'K ',1'D*',)6,'
62 */)60'/+*0',1'.**',)*' -.' *6-'1',)*'-* 52'1'
NG-;.'6.'6'=6-,>;/6-/ '?*?1-6D/*'620'1-',)*'*L^
/*0'=*1=/*'6'+*- '?=1-,62,' *6-% ()./01*.'D ')1'
?*62.'*L>/;0*',)*'=1.. D/,'1')./)6+ 25'/+*0'.,//
/125*-',)62';=',1',)6,'=*- 10%
.=>,25',)*'.*>120'=-*.;?*0'>12,-60>,12','*
?6,,*-' 2' >)% ' C Q'D*/125.'=-1=*-/ ',1'%,)*'>1C-*^
5*2>'1' *D;>)602*[6-'8)>)',*-?' .',)*-*'600*0'
,1').'=*- 10'1'51+*-2?*2,'8)/*' 2' >)% ' ')./
-* 52'.'>1;2,*0'12/ '-1?',)*' *6-'1')./6>, 6/6>^
>*..12',1',)*',)-12*% ()*.*6,,*?=,.',1'0.;-D',)*'
)6-?12'1',)*'81-9'6-*'6/.1'0.>1;2,*262>*0'D',)*'
>122*>,25',)-*60'8)>)'*+0*2,/'-;2.',)-1;5)',)*'
8)1/*1',)*'D119'.*,,25',)*'. 25/*'=6-,.'>12,2;6//'
2'?;,;6/-*/6,12',1'*6>)'1,)*-% 20**0'?1.,'>-.^
>.')6+*'218'5+*2';=',)6,')A=1,)*..'620'/119'6,'
,)*'D119'6.'6'>/1.*/ '>122*>,*0'620'>1?=/*,*'81-9'2'
,.*/%
7 % <;>)'5-*6,*-'.',)*'0 *-*2>*'1'1= 2 12'-*.=*>,^
25',)*' " '1',)*'D119% ()*'1/0*.,'9282'
1==12*2,'1',',.',)*')*6,)*2'=)/1.1=)*-' 1-=) 7 2'
,)*',)-0'>*2,;-'1',)*')-.,62'*-6% ()*'5-*6,*-'
,)*'6;,)1-,'2'8)>)',)*'D119'1' 62 */86.')*/0'6,'
,)6,',?*'D1,)'B*8.'620')-.,62.'2',)*-'+6-1;,'
>12,-1+*-.*.',)*'?1-*'86.')1'62L 1;.',1'0.=;,*',)6,'
6;,)1-,'620')*'0 0'21,'0.06 2',1'0*+1,*'12*'8)1/*'
D119'M,)*',8*/,)X'1;','1',)*' ,**2'8)>)')*')60'
>1?=1.*0'656 2.',)*')-.,62.'1',)6,'.;DA*>,'6/12*%
:*',)*-*' ?6 2,6 2.',)6,',)*'6;,)1-'1',)*'D119'1'
62 */86.'6' 6/*.,2 62'B*8'1',)*',?*'1' 2, 1>)2.'
=)62..',)6,')*'8-1,*',2'4-**9'620'-6;0;/*2,/'
56+*' % V'*+*2,.',)*'1-?'1'=-1=)*>*.*' 1-=) -'
86.'62.8*-*0'D ' ;.*D;.'1' 6*.6-*6'<*,)10;.'1'
(-*'620' =1// 26-.'1' 610>*6% ;',)*-'81-9.'
6.'8*// 6.',)6,'1' 1-=)A2 ')?.*/'6-*'/1.,T 620'8*'
9218',)*'/6,,*-'12/ '-1?',)*'2;?*-1;.'_;1,6, 12.'
620'-* ;,6, 12.'2',)*' 1?*2,6-'1'B*-1?*% s
1-=) -'1;20'21'.;>>*..1-'2')./+*8.';2,/',)*'
,?*'1',)*' 25/.)'0*.,,'8)*2' 1// 2.'6,,*?=,*0',1'
6,,6>9',)*'6;,)*2,>,'1' 62*/'6.'86.'012*'D ' *?C
/*-' 2'4*-?62 % ,*-',) .'6' *8'>-,.';>)'6.'B%
% < >)6*/.'620' >))1?'0.=;,*0',)*'6;,)*2,>,'
1',)*' -.',.L'>)6=,*-.% ()*/*6-2*0' 8..' 1--10'
I@ "!'N "'*,>%' */2' QNX'8*2,'.,//';-^
,)*-'620'-*+ +25',)*'+*8.1' 1-=) -A'_;*.,12*0'
,)*'5*2;2*2*..'1',)*' "'D119% ()*.;*.,12'1'
,)*'6;,)*2,>,'1',)*'D119'.'0.>;..*0' 2'?1.,'1',)*'
/6,*-'>1?7?*2,6-*.'620'.=*>6// 'D ':*25.,*2D*-5'
I' '& " 2 ' ' ' !' QN ',-62./6+0.12'I ' ' "'
/620' 0 2D% Q 'Q+1X':6+*?A>9'I '" !'2 =
"!' :6-6D% QNQ'Q+1X' */,[.>)'M2':*-[15.'6 =
+ % 2 ' % +% Q X' * / I " !' ' 6 !' ' '
&!'-!' -629% Q N'Q+1X' 6+0.12'I ' '"'
L!'-' % *20% Q S'Q+1X'8)1'?6 2,6 2',)*'6 -?6^
,+*CT 620'D ' /**9'I ; !'+ S'. " !' QKKX

*-,)1/0,'I6 !' -/625% Q X .81 IN "' =
!'6 !'KO'*0% 122% Q KX'620' *'& *,,*'I6 =
2 !',)'*0' *-/% Q HX'8)1'0*2 ',.'6;,)*2,>, % **'
86/0'I' ' %"!' !'& ' ' R'._%X%
()*' -*6/ 5-1;20.'12' 8)>)' ?1..'?10*?' >-,>.'
-*/ '2'-*A*>,25',)*'D119'6-*',)*' 6D;/1;.2*..'1' .'
26--6,+*.J'620' ,)*'?2;,*2*..'1' ,.'=-1=)*,>')^
,1- %J' ()*'>12,*2,.'1',)*'D119J' ,'.'.6 0' 6-*'
--6, 126/620' ?=1.. D/*J'M: ,[5'g X% ,'.'1D+1;.'
,)6,' ,' .' ?=1.. D/*',1'62.8*-'.;>)'6'..6,*?*2,'8,)^
1;',*2,*-25' 2,1'5*2*-6/+*8.'1',)*'=-1+0*2, 6/
51+*-2?*2,'1',)*'81-/0% ,'.'60?,,*0',)6,',)*'>12^
,*2,.'1',)*'D119'6-*'*L>*=, 126/620'.;-=-.25T D;,'
-*+*/6, 12'.'.*/'6'? -6>/*')18*+*-' ,'D*5+*2'620'
*..*2, 6// '6.' 2>12>*+6D/*'6.'62 '?-6>/*% ()*-*'
6-*',?*.'=*-)6=.'8)*2',.'-*_;-*0',)6,'*L,-61-0^
26-'.52.'.)1;/0'6--*.',)*'6,,*2, 12'1'?*2'620' L'
,)*-'?20.';=12',)6,' +2*' -*.*2>*'8)>)' .'+*+-'
+1-9 256-1;20',)*?% -10 5*.'?6 'D*>1?*'6'5;0*'
,1'26,;-*% =*>6/>->;?.,62>*.'?6 '620'6>>1-0 25'
,1',)*' D/*';.;6// '01'0*,*-?2* ,)*'=*>;/6-1-?'
8)>)',)*'?-6>;/1;.'81-9 25'1'410'8 // 6..;?*'6,'
6'=6-,>;/6-',?*T .1',)6,',)*'_;*.,12' .'8)*,)*-'
,)*-*' .'62 '0.>*-2 D/*'-*/6,12'D*,8**2',)*'1;,86-0'
8120*-.'620',)*'?1-6/>120',12'1'62'*=1>)% 1-'.'
.'?=1.. D/*',1'6==/',).'-*?6-9',1',)*'>6.*'1' 62^
/% ()'=1.,12'8)>)')*'1>>;=*0'86.'6.'*L>*=^
,126/6.',)*'D119'8)>)'D*6-.').'26?% :*.;-+*'0'
,)*'*L /*'620',)*'0.6==1 2,?*2,'8)>)'6,,*20*0',)*'
-.,')=1*.'1',)*'B*8.% ()*'5/1-*.'8)>)'60'D**2'
>122*>,*0'8,)',)*'-*,;-2'2',)*'1-*.)1-,*2*0'+.12'
1'*6-/*-'=-1=)*,.'8*-*'218'*/,',1'D*'6-'1'620'6'
?1-*'.=*>6/-*+*/6,12'?6')6+*'D**2'2*>*..6-'6.'6'
=-*=6-6,12'1-'6'=*-10'1'./*2>*'620'>12/>,% ()*'
+*-'>)6-6>,*-'1',)*' 6D /12 62'*L /*'.**/2.',1')6+*'
>6//*0'1-'.1?*'.526/*L)D,12'1'0+2*'=18*-% .'
,)*'-.,'*L10;.'86.'0.,25;.)*0'D '5-*6,'?6-+*/.',
?5),'6==*6-'26,;-6/,)6,',)*'.*>120'.)1_/0%D*'6/.1'
M>1?=% <>% + T *A,[.>)'=% K K'*,>%X% 6, 126/
?-6>/*.'.1',1'.=*69'1-?*0',)*'D*5 22 25'1',)*'
,)*1>-6> T =*-.126/?-6>/*.',)*'D*5 22 25'1',)*'
)=-*)% (1'.=*69'1'62' 6?/*-.'620'/6+.)'0.=/6'
1'8120*-.J'.',1'0.-*56-0',)*'-*=-*.*2,6,+*'.52^
>62>*'1',)*'0 *-*2,'6>,.'620',)*'-*/6, 12'8)>)',)*'
D1-*',1',)*' ;;;-*' 1-,;2*.'1',)*'=*=1=/*% '2*8'*-6'
86.'26;5;-6,*0'D '-*.)'.52.% ()*'B*8.'218',)6,'
)*'8*-*'/*',6?125',)*'26, 12.'1',)*'81-/0'/119*0'
1-'.1?*.;-*',19*2',)6,'410'86.'6D/*',1'0*/+*-',)*?'
620'81-9'1;,'D.'182'=;-=1.*.% ()*'=*-.*>;,12'1'
2, 1>);.'>1?=/*,*0' ,)*',*6>)25'1' 62*/T =20'
)=*')*'=*1=/*'21'/125*-'.1;5),'8,)1;,'8)6,'6,'/*25,)'
,)*' ')60'1;20'8,)2% ()*')60'8,),.,110',)*'6.^
.6;/,'1'12*', =>6/*2*? '620'218',)*' 8*-*'=-*^
=6-*0',1'?**,'6//% ()*'>/1.*'1'.=*>6/=-*0>,12.'
>1 2>0*0'8,)',)*'>12.1/06, 12'1',)*'26, 126/6,)%
** '$ '>/ / ' !
()*'1//18 25'6-*',)*'?1-*'?=1-,62,'1',)*'6-5;^
?*2,.'8)>)'*+0*2>*',)*'5*2; 2*2*..'1',)*'D119'
M.**',)*'81-9.'12',)*'& + ' '' 'D'1/*'
\ 120% QSNH'620'&6,*-.'\ D% *10%hX%
M %7 ()*'*L .,*2>*'620'6;,)1-,'1',)*'D119'6-*'
?1.,'0*>0*0/',*.,*0'D',)*' *8'(*.,6?*2,%)-.,'
)?*/'-* *-.',1',M<6,,'LL+' X'620'5+*.',1',)?^
.*/'M2'+-,;*'1',)*'*L=-*..12'2' 62%+' NX',)*'
26?*'1'$ ' ' :'8)/*',)*'6=1./*.'-*=*6,*0/'
6==*6/,1',C6.'62'6;,)1-,'1 ' NX% =6-,'-1?',)*'5*2*-6/, =*'1'6=1>6/=,A>'1?C
A=1.,12'8)>)',)*'6=1.,1/>'8-,*-.'0*-+*0'-1?' 62^
*/M *+% :'>1?=% <6,,'LL+' S T dL' HX'
,)*' *8'(*.,6?*2,'2>0*2,6// '6>9218/*05*.'*6>)'
=',)*'>)6-6>,*-.,>'*/*?*2.,'1',)*'D119',.'?6>/*.'
M:*D% L'QN'N X',.'=-*0>,12.'M<6,,'LL+'% X'620'
,.'01>,-2*'1'625*/.'M ;9*' R'KSX% (1',)*'1DA*>^
,12',)6,')-.,'620',)*'8-,*-.'1',)*' *8'(=.,_?*2,'
6-*')*-*'21' '6;,)1-, 26.?;>)'6.',)*'6>>1?^
?106,*',)*?./+*.I',1',)*'B*8.)'21, 1 ;'620'+*8.'
8*'-*=/',)6,',)*'5*2; 2*2*..'1',)*'D119'1' 62*/.

.1' >/1.*/ '>122*>,*0' 8 ,)',) *' ,-:,,)' 1 ' ,.' >12,*2,. ' 2' 1,)*-' 81-0. ',,)6,',)*' " '1',)*' D119' .' .1' ?^ ?*0 6,*/ '>122*>,*0' 8 ,)' ,.' + ' 7,)6,' ,' .' ?^ =1.. D/*' ,1' 01;D,' ,.' ' 8 ,)1:,' .:.=*>, 25' 6,' ,)*' .6?*' , ?*' 6' 8 / ;/ >)*6,' 2' ,.' >12,*2,.!' .1' ,)6,' ,)*' ' 2',) .'>6.*',1'26, 126/+ *8.' 81;/0' D*' ,62,6?1:,2,',1' 8 / ;// '>12 -? 25'620' .62>, 12 25' 62' ;2=6-0126D/*' -6;0%

MK%X' ()*'=*- 10' 1',)*' *L /*' 81;/0' D*' 6/,15*,)*-' 2^ >1?=-*)*2. D/*' 8 ,)1:,',)*' *L ..*2>*' 1'6' ?62' / 9* 62 *0' *L*-> . 25' 5-*6,' 2 ;*2>*' ;=12') .' 182' =*1^ =/*' 620' * *>/ 25',)*-'-*,:-2',1' 6/*.,2*' D '?*62.' 1') .') 5)C' .,6, 12' 2%',)*' .,6,*' 6.' 8*//' 6.' ,)-1:5)' ,)*' =*>:/ 6-' 6.. .,62>*' 1' 410' 8 ,)' 8)>)')*' 86.' 6^ +1-*0% & ,)1:,',) .' 6..:?=, 12' ',' .' ?=1.. D/*' ,1' *L=/6 2',)*' >12722*0' .,6,*' 1' 20*=*20*2>*' 1',)*' =*1^ =/*' 1' 410' 0;-25',)6,'=*- 10' 1-',1'6>>1:2,' 1-',)*' 2^ ,*-*.,' 8)>)' -:,.',119' 2',)*' -'6 6 -.% ()*'*L /*' 620' ,.',*-? 26, 12' 6-*' 20 >6, +*' 1':2>1?? 12' 6>,.I' 1' 410',186-0.') 5)/ C5 ,*0' 620' 6+1-*0' ?*21' 620' ,)*' 6==*6-62>*' 1'.:>)' 6'?62' 6.' 62 */' .' 0*.>- D*0' 2',)6,' D119' 6.')6+ 25' D**2' .' 62' 20 .=*2.6D/*' -* .^ ;.,*' 1-',)*' -5),';20*-.,620 25' 1',) .' =1-, 12' 1' ,)*' B*8 .)') .,1- %

MN%X' 2' ?=1-,62,') 2,'1',)*' *L .,*2>*' 1',)*' D119' 2',)*' , ?*' 1' /*L620*-' .' 1;20' 2' B1.*=);'>& !' L ' ' X'6>>1-0 25',1' 8)>)',)*' =-1=)*> *.' 1' 62 */)60' D**2'=1 2,*0' 1;',.1',)6,'9 25' 12') .' *2,-62>*' 2,1' B*-;.6/*?% ;' .',-;*',)6,',)*' 6>,' ?6 ')6+*' D**2' .1?*8)6,' *?D*// .)*0' 2',.'0*,6 /.'D 'B1.*=);'.' *,' .',') .,1- >6// ';20*2 6D/*',)6,' /*L620*-'0 0' D*.,18' 5-*6,' 6+1-.'12',)*' B*8. 6'> ->;?.,62>*' 8)>)' .'21,' *6. /' *L=/6 2*0' 8 ,)1:,' 5-62, 25',)*' 6>,' -*>1-0*0' D ' B1.*=);',1' D*' ,-:*' 2' ,)*' ?6 2% **' . .4 > ':0%>'& 3!

M %X' ()*' -.,' D119' 1',)*' <6>>6D**.' 8)>)' .' 6/^ ?1.,'>12,*?=1-6- ' 8 ,)',)*' *+*2,.'-*/6,*0' 2' ,' 21,' 12/ '=-*.;==1.*.',)*' *L .,*2>*' 1',)*' D119' 1' 62 */' D;',6>,;6' ' D*,-6 .' 6>_;6 2,62>*' 8 ,)',)*' /*L62^ 0-62' +*-.12' 1',)*' .6?*' M ' <6>%' ' T' >1?=% 62% L'K T' RT' >1?=% 62% X'6'=-11 %,)6,',)*' D119' ?;.,')6+*' D**2' 8-,,*2' /125' D* 1-*',)6,'=*- 10%

M %X' ',)*' D119')60' D**2 8-,,*2' 2',)*' <6>*6D?62' =*-10',)*-*' 81;/0'=-1D6D/')6+*' D**2'=-10;>*0' 2',)6,'=*-10' .1?*' . ? /6-'=-1=)*,>' 620' 6=1>6/ =,>' =-10;>,12.'>1?=1.*0' D ' 6/*.,2 62' B*8 .*' ';>)')18*+*-' 21,',)*' ./ 5),*.,' 21,>*' >62' 62AC8)*-*' D* 1;20' .1',)6,'1;-'D119' '1',)*' <6>>6D6*62',?*' 1-?.'62' .1/6,*0' *2 5?6,>6/=)*21?*212' 2',)*' /6,*-' B*8 .)'/,*-6,;-%

M %X' ()*'-*>*=, 12'1',)*' D119' 2,1',)1'>6)12% .'6/.1' 62' *+ 0*2>*' 1',.' 6;,)*2, >, %' 2',)*' <6>>6D6*62' 65*',)*' >6212')60' /125' D**2' >1?=/*,*0' 620' >/1.*0' D;',' *+*2' 01;D, 25',)6,'=1 2,' ,' .' 21,'/ 9*/',),'6,' 6,' 6',?*' 8)*2' .1' ?;>)'.>-;=;/1;.'60)*-*2>*',*6'.)182' ,186-0.' 6//,)6,' 86.')6//18*0' D ',?*' 620' ';.65*' 620' 8)*2' .>- =,;-6//,*-6,;-*' 86.' 6/-*60 ' /1;-.)25' ' ,' .' 21,'=-1D6D/*' 8*.6 ',)6,'6'=-10;>, 12',)*2',-*^ >*2,'.)1;/0')6+*' D**2'-6 .*0',1',)*'-629' 1'6'>6212>6/ D119%

M %X' & *')6+*' 62' ?=1-,62,',*., ?12' 1-',)*' 6;^ ,)*2, >,'1',)*' D119' 2' [*9% L +' 'K T' LL+ 'N% 62 */' .',)*-*' -*=-*.*2,*0' 6.' 62' ;2;.;6/ >)6-6>,*-' 6.' 6' ?10*/1 'A;.,>*' 620' 8 .01?',1' 8)1?')60' D**2' 6//1,,*0' .;=*-1-' 0 + 2*' 2. 5),' 620' -*+*/6, 12% ()./.9*,>)' =*- *>,/' 65-**.' 8 ,)',)6,' >12,6 2*0' 2' 1;-' D119% F

MQ% ' ()*' D119' D*,-6 .' .:>)' 62' 2, ?6,*' 6>_;6 2,^ 62>*' 8 ,)')6/0?62' ?622*-.' >;.,1?.') .,1- ' 620' -*/ 5 12' 6.' 212*' D;,' 6' >12,*?=1-6- ' 8-,*-' >62' 6 -^ /' D*.:==1.*0',1'=1..*..% ();.' **5%,)*' 0*.>- =, 12' 1',)*')6/0.*62' ?65 62.' 620',)*' .' -*5;/6, 12.' =*-^ *>,/' 65-**.' 8 ,)',)*' 6>>1;2,.' 1',)*' >/6.. >.' -*.=*>,^ 25',)*?% ()*'6>>1;2,'1',)*' //2*..' 620' 2.62 , '1' *D;>)602*[[6-.' >12 -?*0' D ' *-1.;.' M 2' B1.*=) >% &% ' 'K X% ()*'*0>,'1' 6- ;.',)*' <*0_'M 62% +X' ?6 ' D*' .6, . 6>,1- / ' *L=/6 2*0' -1?',)*' 21, 12. =*>;/6-' 1',)*' <*01C *-. 62' -*/ 5 12' 620',)*' ?=1-^ ,62>*' 6,,6>)*0' 2',.',1',)*' 9 25' 8)1' 86.' >12. 0*-*0' 6' .1-.'1' 2>6-26,*' 0* , % ()*' .>*2*' 620'>)6-6>,*-.' 1',)*' D119' 6-*' , (' ()*' >1/1..6/ ?65*' M / ' ' 21,' 2*>*..6-/'6');?62' 5;-*' ,)*',*-?' .'6=^ =/*0' 6?/6-/' ',1',)*' ' ;L,1- ' *6.!' $ "!' .% %X',)*' * ' ;-26>*',)*'?6-, -C/9*' D1/02*..' 1',)*' ,)-**' >12 *..1-.' M ' SX',)*' 0*>-**' 1' 6- ;.' M+ ' X' ,)*' /12.' 0*2' M+ ' ' R' 6X',)*' 0*?620' 1' *D;^ >)602*[[6-' M ' X') .' 1D* .62>*' D* 1-* 62 */ M ' X') .'.;00*2' k 'M+' NNT' >1?=% ;.*D ;.' %!' 6 !' L' T' B1.*=)'>% &%!' 'K X'6-*' 21,'12/ '>12. .,*2,' 8 ,)',)*' 26,;-*' 1' L,*-2'/ *' D;,' 2' ?62' 2.,62>*.' 0^ -*>,/'>12 -?*0' D '1,)*-'*+ 0*2>*% M **' ' 1-',)*' 0 >;/,*.' 1' ' T' ' T' + ' N %X' % MR%X' ()*' -*/ 5 1;.' + *8.',)*' 6-0*2,' D*/ * ' 2',)*' <*.. 6)',)*' =;-, ' ',)6,' D*/ * ' ,)*' 6D.*2** 1' 6//',)*' 21, 12.' 620' >*-*?12 6/=-6>, >*.' 1' /6,*-'B;06 .?' *,>%',)*' 65-** ?*2,' 1',)*' D119' 2',)*.*'-*.=*>,.' 8 ,:' ',)*' 5*2; 2*'=-1=)*,>' D119.' 620' ?1-*'*.=*> 6// ' 8 ,)' ,)*' =-1=)*,.' 2' 620' 6 ,*-',)*' *L /*' 6//',)*,.' ,' *.,' ,1',)*' 5*2; 2*2*..' 1' 62 *//% 2'01>,-2*',)*' D119' .' >/1.*/ '>122*>,*0' 8 ,)',)*' 8-, 25.' 1',)*' *L /*' 620' 1-?.' 6'/6.,'.,*=' 2',)*' 0*%+*/1=?*2,' 1',)*' 0*6.' 1' <*.. 6)'M+ ' N'*,>%X'1',)*'-*.;--*>, 12' ML 'K NX'1',)*' ? 2 .,- ' 1'625*/.' M+ ' ST' L ' '*,>%X' 1'=*-^ .126/0*+1, 12' M+ ' T' X'8)>)' 1-?*0',)*' D6. .' 1'/6,*-'.=*>;/6, 12.'D;,'-*>* +*0'21'*..*2, 6/600 , 12' 2',)*' 2,*-+6/D* 1-*',)*'>1?25'1'1;-' 1-0% M %X' ()*' / 25;.,>' >)6-6>,*-' 1',)*' D119' .' ?1.,' 0*> .+*' 1-',.' 6;,)*2, >, % 2',)*' -.,' 2..62>*' ,)*' /625;65*' 2',' D ',;-2.' :*D-*8' 620' -6?6A62' .' =6-,>;/6-/' -*?6-96D/*% 2',)6,'-*.=*>,',)*' D119' D*6-.' 6'>/1.*' 626/15',1',),6,'1' [-6% ()*' 6;,)1-' ?;.,'>*-,6 2/')6+*' D**2'*_;6// '>12+*-.62,'8 ,)'D1,)' 625;65*. ' 62'6,,6 2?*2,'*L6>,/' .';,*0',1'6' :*D-*8' / + 25' 2',)*' *L /*'D;,'21,' 2',)*' /*.,'.1',1'62'6;,)1-' 2',)*' <6>>6D.*62' 65*' 8)*2',)*' :*D-*8'%)60' /125' .2>*' >*6.*0',1' D*' 6' / + 25' /625;65*' 620')60' D**2' .;==/62,*0' D ',)*'C-6?.*62'+*-26>;/6-' 0 6/*>,% ()*' :*D-*8' 2' 62 */' D*6-.'?1-*1+*-'6'+*-'5-*6,'6 2^ ,',1',)6,'2',)*' 1,)*-'/6,*-' D117' 1',)*' /0' (*.,6^ ?*2,'620')6.' 2'=6-,>2 6-' 0 1?.' 2' >1?12' 8 ,)' [*9 */% ()*' -6?6>'6/.1' 2',)*' D119' 0 *-.' ?6,*^ -6// ' -1?',)*' =-*+6 / 25' 0 6/*>,'1',)*' /6,*-')6/0.*0' 62' =6-6=)-6.,>' +*-. 12.' 1',)*' /0' (.,6?*2,'620')6.' ?;>)' ?1-*' -*/6, 12',1',)*' 0 1?' 1',)*' D119' 1' [-6% 1-' .',)*' ?*2, 12' 1' 4-**9' ?;.>6/ 2.,-;^ ?*2,.' M ' ' ,%!X ') , % =' NNNk' %) : %% T * E- % 8' 1-',)*.* 81-0.' 12/ '>62' D1'.)182',1' D*' 0*- +*0' -1?',)*' 4-**9' M *' & *,,*' 6 !' =% KS' D%X' 1,)*-',)62'.;,6/-*',1' 6' ,?*' 8)*2',)*' 2,*->1;-.*' 1',)*' 6.,'620' & *.,'86.' 6 -*60 '>12. 0*-6D *' 620' 8)*2' 6' D-1,)*-' 1' />6A;.' M % %S C X')60' 56 2*0' 0 .,2>, 12' 6,',)*' 6-,)*.,' *20' 1',)*' 81-/0' 6 0 25',)*' 6D /12 62.' M /*!@ ' NN' *-59%T -620 .' 2' */,[.>)'=% K X% M 1-'6';/ + *8' 1',)*'>-,>.?')..,1- '620'/.*-6,;-*' 1',)*' D119' 1' 62 *' .**' ,;6-,.' '=% N NC RS%X % ()*-*' .' 21')6/0**' '1' 6! */' 620' ,)*' 0* >*2>' .' 5*2*-6// '6>>1;2,*0' 1-'6.' 2',)*'=6-C' 6 /*/ >6.*' 1' [-6' D ',)*' 0625*-' &)>)' 81;/0')6+*' *L .,*0' 2' .;>)'6'>6.*' 1 '>12 1;20 25',)*' 1- 5 26/',*L,' 8 ,)',)*'=-6-6=)-6.*' D;,'12',)*'1,)*-')620',)*' 8)1/*' D119')6.' D**2'=;D/.)*0' 2' :*D-*8% *22 *1,,'=-*^ =6-*0' 6' .=*> 6/ >1?2,6-'12',)*')6/0**' =1-, 12.' M*O% >);/[*' :6/% QK' +1X' >1?=% -0' I ' 120% Q X% ()*' 4-**9'+*-. 12')6.';20*-512*' . 252 6-')625*.% ,'62'*6-/',?*',)*' *=,',-62./6, 12' 86.';==/62,*0' 2',)*' 4-**9' D/*.' D ',)6,'1' ()*101, 12' 8)>)' 2' ,)*',?*'1'B*-1?*'86.'5*2*-6// ' '-*60'D ',)*')^ *.J' M>% 5 ' 'NNT' ' ' !8!' () .'>)625*' N !' ' !8' ?_ ')6+*' D*_2' ?60*' 2' >12.*_;*2>*' 1

,)*' 1DA*>, 12.' 8) >)' 8*-*' ;-5*0' 656 2.',)*' >1-?=,' *=,' ,*L,' 2' >12,-1+*-. ' 8 ,)' B* 8.' 620') *6,) *2% ()*' *=,' +*-. 12' 86.' >*-,6 2/ ' +*- ' ;2 6 ,) ;/ MB*^ -1?*' '>%XT 620',)*' 2 /;*2>*' 1 ' -5*2 '8)1'=-* *--*0' ,)*' ,-62./6, 12' 1 ' ()*101, 12' MB*-1?*' ' ' +' X' &6.'=-1D6D/ '* *>,;6/ 2'D- 25 25'6D1;',)*' .;D., ,;^ , 12'M>1?=% -*02*-' ; ' 'K S'._%X% 2',)*'>1;-.*' 1', ?*')18*+*-',)*' +*-. 12'=' ()*101, 12'86.' 2,*-^ =1/6,*0' -1?',)*' *=,%' .1',)6,' ,' .' 218' ?=1.. D/*',1' -*>1+*-',)*' 1- 5 26/',*L,% 1?='&6/0' ;->*' '" ' ' ' !'M =.% QNX% **' ' / # / ' ('(% <*628) /*',)*' 1- 5 27' *=,',-62./6^ , 12'=6..*0'*2, -*/ '1',' 1';.*' 620',' 86.' .;==1.*0',1')67D**2'/1.',/ /',)*'/6..'>*2,;- '8)*2',' 86.'=;D/ .)^ *0'6,' 1?*' -1?'6' " 'I1' ' ' OO!' % d 1?6*' K'*0% %0*' <65 .,- .X',15*,)*- 8 ,)',),6,' 1 ' ()*101, 12' 620' .*+*-6/ //;.,-6, +*' *.^ .6 .% ,')6.' . 2>*' D**2'=;D/ .)*0' .*+*-6/ , ?*.' M*0% < >)6*/ .' 4*,, 25% T *0% *566-' $,-*>),' T *0% : 6)2' =[% Q X'620'/6../ 'D (.>)*201-' 2',)*' .*>120'*0 , 12' 1 ') .' *=,;65 2,'M =.% Q SX% 21,)^ *-'-*>*2. 12' 1',)*',*L,' .%>12,6 2*0' 2',)*' -1C : *LC 6=/6-> +*-. 12' 6,' < /62' M*0% ;56,;. ' QQXT D;,' 6' >- , >6/ >1?=6- .12' 1 ',)*' .*+*-6/ -*>*2. 12.' .' ., //-*!' _; -*O% **' / $! 2' 1,)*-' 62> *2,' +*-. 12. ' .**' < ;2,>-' $% ' ,^ E ' ' !' % !*,>%M 1?% QSXT &6/0' 2 ' ! &' "!' 2 " !' !' ' !' M 2' >)) 1? .'5 % !' L + 'K ' ._ %X% **' ! % ()*' # ' 12' 62 */ 6-*' +*- '2;?*-1;.* ()1.*' 2' : *D-*8' D ' % 660 6)' : 655612' M,' R KX' 6.)*' M '>% X'620' D*2' [-6' M '>% S X'6-*'=- 2,^ *0' 2',)*' 5-*6,' 6DD 2 >' D/*.' 1 ' 1?D*-5'620'1,)*-.% ()6,'1 ' D6-D62*/' M ' >% X')6.' D**2'=- 2,*0' .*=6-^ 6,*/ ' .*+*-6/ , ?*.' M ?.,% S ,1X' 620' 1,)*-.' 6-*' *2;?*-6,*0' D*/18% ?125',)*' =6,- .,>' >1?? *2,6^ - *.',)*' ?1.,' ?=1-,62,' .',)6,'1 'B*-1?*' M+1/% + ' *0% < 52*X' 8)1' 21, >*0' *.=*> 6// ',)*' 1DA*>, 12.' 1 ' 1-^ =) - 'T 6/.1',)1.*' 1 ')- .1.,1?'>,% 1' + 'KKQX' ()*C 101-*,' M ' N' ._%' *0% >) ;/[*T 2,*-=% 46D 1' 1?% SK' 1DX' 620' =)-6*?' ($' I,%!' $!' ' 1?.*' X% ()*-*' 6-*' 6/.1'6221,6, 12.'D ' ;=*-,'(; ,*2C . ' I % ' K X' ()1.% _; 26.' \-6,)*-' ()1.% & 6/C /*2. .h' I 2 1' *,>%' 6- .' S ' 1DX' /D*-,;.' /652;.' I,% 1'+ X'620' *,*-',)*' ->)0*6>12' M<6-C ,*2*' 620' ;-620 .' + 1' L' K X% 12. 0*-6D/*' -65?*2,.'-*?6 2' 1',)*' >1?? *2,6- *.' 1 : ==1/ ,;.' M>1//*>,*0' 2' < 52* .' *0 , 12' 6- .' Q X'620' 1/ C >)-12 ;.' M<6 '$ % 'N !'7 !' 2!+1/% XT 620' <6')6.' =;D/ .)*0' I "!8' 6' >6,*26' 12' 62 */' >12,6 2 25' -65?*2,.' 1' =1/ : 26- ;.' ,)626. ;.' 6. /' ;.*D ;.' 620' ?62' 1,)*-.% ()*' >) *'-* 1-?*-.' ;,)*-'>& 1' ' !' %+!' ' !' N C ST ,%!' 4*-?' + ' *0% & 6/>)X' >1/6?=60 ;.' MVO' ' !' ' 6. /% N X' < */62>,)12' I ' ' ' !'% %"!' ,*?D% NX'620' 6/+ 2' I !' ' !' 4*2*+.*% SN'*,>%T 2' -*2>)' S T 2' 25/ .)' 120% Q KCQX'8-1,*' 12' 62 */'7 6/.1' B16>) ?',)*' DD1,' M *2% R' ,1X% ' >1?=6- .12' 1',)*' =-1=)*>*.' 1' 62 */ 8 ,)',)*' + . 12.' 1',)*' =1>6, =.*' M *8,12', ' " ' %" ' 12012' NN' ,1X' 1=*2*0',)*' 86 ',1' 6',-;*' ;20*-..620 25' 1' 62^ */% ; **-/*2' I ' %"!' ' !' !', 'D "!' *,>% K0' *0% 6.*/' 7Q ',-62./6,*0' 2,1' 25/ .)' -1?' ,)*' .,'*0% D ' 6=) -' Q S K?1X')6.',)-18 2' >12. 0^ *-6D/*' / 5),';=12',)*' 5*2*-6/ >12.,-;>, 12' 620' -*/6^ , 12.' 1',)*' DD19% 1?=% : 1 ?622' ! !' 6 =' ' 'K S . .%T ;-,12' 7 ' '' ' 'D " ' M 1-8% SSCQXT 212%' $ ' % %" ' 6 % ' M 12^ 012' Q X'620' -" ' ' ' N ' '' ' M D% Q SXT // 1,,' # '&% % ' M 120% Q XT (-*C 5 + ' ' " '% %" 'N ' '' 'M 120% Q KXT ,;6-,'# ' ' %" 'M 201+% 7Q XT *.C =-*[' ' ' '" '&% % ' ' " ' L' -!' M 120% QS ' +1X% **' ' ?125'.;D. 0 6- ' 81-9.' 600 , 126/',1',)*' 6D1+*' ?6 'D*' 26?*0' /**9' ! ' ' !' M 2',)*' D + "! ' ' " ' -+ ' QS '+XIT &6/^ ,*-' ' ID* ! 1I -8E 6L?622' 2 ,)*%77A8% !') !' QSN' +T ;//*-'& " ' '' 9 ' M 6?D-% QS XT 1.62_;*,' D % ' ' ' M 120% QSSXT : 6-?62' 2',)*' , ' !'5 ' >,% Q % ,)*-'.=*> 6/*L*5*, >6/*81-9.' 12',)*' *2, -*' D119' 1-'=- 2> =6/=1-, 12.' 1 ' ,' 6-*',)*' 1//18 25' 1 '8) >)' ,)*' ?1.,' ?=1-,62,'6-*' 0*. 526,*0' D '62' 6.,*- .9' MIX' =-* L*0d 621/6.' M.% %62,*' Q ,1T 620' 2 ,)*' 6DD% D/*.XT /.>)*>)' - , . . 2' M 6 *, SQ' ,1' 620' . 2>*XT (* ,.69' 02 ' M *2% S Q ,1XT B1 '6 % 1 'M4*2*+% S?1T 120% ' +1XT -6>12 ,*.' # ' M<6-D% ' +1XT I ;62 25 ;.' ' M : 6+2% CSS' 6/.1' SQQ K' +1/.% 1/%XT ,- 5*/ ;.' ' MI7=.% S ' K +1XT */2*>9*- - >VO-O2 -MB*2%VSS S Q ,1XT & 5620'6 % ' MB*2% ' - % Q ' +1XT ;/C / 25*-'# ' M(5;.-' S' 1DXT 2,;.' 1' ' M 12 ?D' QK' +1T *2% QN' ,1T 1/12% Q ' 2,8% R ' +1XT *-*-;.' ' M 1?% QS' 1D'T ;50' SQQ' ,1T R ' S K' +1T 2,8' R ' ,1XT : * /D-;22*-' ' 'M 6; 25% Q Q+1XT < 6->*// 2;.' ' M *2% QQ ,1XT 1//1>9' 'M 0 2D;-5)' R Q+1T 6./% SR ,1T 4*2*+% RQ' +1T S ' ,1XT B;2 ;.'6 % ' M : * C 0*/D% RN' 4*2*+% R ' ,1XT -1;5),12/& ' M 2' H(+ '=% S KS T 2' 6,% *O% 1-**/' 6./% RR' ,1XT 1/62;.' ' M 6./% RR' ,1T S S' +1XT 4*.2*-' ' % ' M ,*D% S ' ,1T S ' S SNQ Q+1XT 8>M62 O' M D% S Q Q+1XT */0 ;.' ' M 2,8% S K' +1XT * .*-' 1' # ' M 2' '=6-,.' 6-?..% 620' -62>1 % S RC ' ,1XT & //*,' # % ' M 62,;6-% S ' 1DXT */0' =' # ' M 2,8*-=' S ' ,1XT 62>, ;.` 1?? *2,1?.' M ;50' S K' 1/ XT); =*/ ;.' %" ' M 1- ?D% S S Q+1XT 25*/1>-6,1-'6 + 'M 6..*/' SNQ ,1XT /.,*0' - ' M : *-D% S ,1XT : ; ,' %" ' M 12012' S N' ,1XT 6 % ' M D% S ,1XT 6-9*-'6 % ' M D% S S' ,1XT !4* *-' =' ' M =.% SS SQ SR ' K' ,1XT 6-*2 ;.' & ' M 1.,% SS ' ,1T & 25*201-=' 9 %" ' M * O% S SQ Q+1XT B;25?622' 1?2*8C # 'M 6..% SQ ,1XT <11-*'6 % 'M 1-0% SQ ' ,1XT & ' M D% SQ ' ,1XT $ %% ' M D% SQ ' ,1XT 7 ' M D' SQ ,1XT *99*-'N ' M ?..% SQQ SRQ ,1XT <* ..2*-'& " 'M : 6?D% SR ' K?1XT 212%' M 120% K?1XT *-9C)*0*-*' ' M 1+62% ' +1XT & *//.' # % *,>% M 120% 7 S Q+1XT -0*-> ' ' ' * ' =' 'M =[% S' ,1XT <;..*;.' $ " + ' M# ;*0/ 2D% R' ,1XT (&! "$ EE !& ' M : 6/% K ,1XT *,*-^ .*2' $ ' *,>% M % 60' <% K ' ,1X' ()! "1& D ' M *?5% ,1XT *2*?6' ' 'M * O% ' K' SQ' ,1XT *,-' . " ' ' M *2D% SQ' +1X' 11.'& 'M =[% ' +1T ,-% 2,1' 25/% 0 2D% Q Q+1XT : 6-*2D*-5'& 'M /629*2D% 620' # ;*0/ 2D% N' ,1XT >)6- *2D*-5'& =' 'M =.% Q+1XT *566-'& 'M$,-% 3 Q+1XT ?2*- .6 '*,>% M 120% S Q+1XT U* .' 6 + ' M -*.0' ' +1XT : 1/D*-' ' !' ' ' ! ' " ' !' M -9 % 620' =[% Q+17T & 6/0' ' M =.% QN' ,1XT <;//*-'& 'M : * C 0*/D% QS' ,1XT ;0*-86/0' 'M : */?*,% Q ' +1XT 1/D1-,)'& + 'M : 621+*-' QQ' +1XT 212%';' 'M 2';' / ' ' + ' ' !' D ! =,% LXT *'?? *-)'2 V' *,>% M : *//?.,% R ' K? +1/.% +1XT I & 2,/*' (.*.'*,>% M L % RK ,1T *20% Q ' ,1T BQNS' +1XT ();D*' 6 + ' M >)8*-2' 620' & .?% R Q+1XT 6 + '*,>% M -/625% Q S Q+1XT *2CB6>)6A6) DL 76 A'M*0%) / ==.1)2 *,>7' *..6;' Q Q' ,1' 620' +1XT <*29*2' " ' M -*?% Q R' +1XT -*-*' 'N '*,>% M 120% Q Q+1XT 4-*. 25*-'& "'M ,;,,5% 620' (;D% Q ' +1XT 4 -0/*.,12*Y S**- I>-,HM?.' M L 1-0' QK ' +1XT /**9'N ' !'. +'M 2',)*'-+ '. " !' >-/%

QKK' XT & /.12' ' ' M ;20/*' QK ' +1XT -+ 25' ' 'M4/6.5' QKS K'+1/.' K?1XT -?..' ' MB*2' QKQ' ,1XT ! 1.*2?;//*-' $ " 2' M =.% QNK Q+1XT I : 6+*-2 >9' 'M : 6?D;-5' QNK Q+1XT B* ,,*/*.' *,>% M *226' QN Q+1XT 1 ' ' M 120% QN ' % % QNS' K?1XT I *2C 5*-9*' & ' M 12 5.D' QN ' +1X'T (.1' 6 2' 8' M 12012' QNQ' +1XT 6-_;)6-.12' ' M 12012' QNQ Q+1XT 46;..*2' 'M 12012' Q ' K?1XT < /*.' 'M D% Q C K'+1/.% K?1XT 1/^ .1?' % ' M 1.,12' Q K' K?1XT)6.*'5 1' + ' M D% Q Q+%1XT 4*1-5*' M ;9*' 1' < 62>)*.,*-X' - ' '' 'M 120% Q S' +1XT &110' 'M D' Q ' K?1XT B6>1D ' +1/% ' 1') " " ' " !' *,>% M *-/% Q ' +1XT : 6-- .12' , ' I1 N ' &' 120% Q R Q+1Xa' I .;6-,' 'M 1.,% Q Q+1XT I 6? ' &1 *.M % 1-9' Q K?1XT I : ,[5 M =[% QN ' +1XT 4;??25' !' M 120% Q ' +1XT 6?.6 '6 % 'M 120% Q N K 21XT .D12' ' ' N M % % Q S K?1XT <652 2'7 ' ' !' M 6-% Q Q+1XT U /?/*/' 2 E "!' M 6./*' QS Q+1XT */^ /6? '- 'M 120% QSN' ,1XT ;.* ' !' M2*8' *0% 120% ' ,1XT)-*f+. X;-'7 'M 0 2D% QS ' +1XT 18/*.' !' M % % QS K?1XT -62 >)C */0'6 + !' M *-/% QSQ Q+1XT / * 1,)'6 + !' M >)8% QSQ Q+1XT ;//*-'M 6./*' QSQ' +1X% **' + / ' ! ' / # / ' ' ' % *% = *>*.' 1;20' 2',)*' 4-**9',-62./6, 12.'D;,'21,' 2',)*' : *D-*8' ,*L,% ** $ 4 ! ()*' ?1.,' ?=1-^ ,62,'1',)*.** 600 , 12.'6-*' >12,6 2*0' 2',)*' =1>- =)6' 1',)*' 25/.)' D/*' ;20*-',)*', ,/*.'1' -"' $ ' + ' " '" (' " 'M 62% X'-"'# ' $ ' M 62% L X'620' -"'# ' ; ' '" '' 9 'M 62% L +X% ** / # / ' ! % W*, ' " ' `% ()*' -.,' 1',)*.** = *>*.' .' 2>1-=1-6,*0' 2,1',)*' 26--6, +*' 1' 62 */% ,*-',)*' ,)-** ' >12 *..1-.' 8*-*' ,)-182' 2,1',)*' ;-26>*' M 62% 'KNX' [6-6.' .'-*=-*.*2,*0'6.'=-6 25',1'410' 1-'0*^ / +*-62>*' M 125' 1',)*',)-**') /0-*2' NCKKXT 620' 2' 62.8*-',)*' 625*/1',)*' 1-0' .) */0.',)*?' -1?',)*' -*' 8)>)' >12.;?*.',)*-*2*?*.' MKNCK X'8)*-*;=12' 77,)*,)-**'6.'1;'1'12*'?1;,) I-6.*'6',-;?=)62,' .125' MKRCSQX' 1'8)>)' 6' >) *'=6-,' MN CSSX')6.' D**2' ;.*0'6.'6') ?)' I; 8' 2',)*')-.,62');->)' . 2>*' ,)*' 1;-,)' >*2,;- ' I5 !' &% ! ' N T >1?=% !' - !' +% 62% X% 9*'.*+*-6/. ? /6-' -65^ ?*2,..',)*>) *'=6-,.'1/7,) .'>1?=1. ,12'6-*' 5 +*2'6,' ,)*'*20'1',)*' .6/,*-'2',)*' /*L620-2*' < % 6.'.*=^ 6-6,*'=.6/?.' ;20*-',)*', ,/*.'1' ()*' -6 *-'1' [6^ -6.J I620' '()*' : ?2'1'1;-' 6,) *-.0 2 0'6'. ? /6- 6--625*?*2,'1>>;-.' 2'1,)*-'4-**9'620' 6, 2'=.6/,*-.% K% ()*',81'1,)*-'=*>*.' 6==*6-'?1-*0.,2>,/'6.' 6==*20>*.' 620'1 *-'21'.*?D/62>*'1'1-?25'=6-,'1',)*'1-5 26/',*L,% HH '# ' $ "'M1-'-" ' D / ' ' ' 8' .' 5*2*-6// ' 1;20'6,',)*'D*5 2^ 2 25'1',)*'D119'M4-% < ' *,% 6,%X',)1;5)',' 6/.1' 1>>;-.'6 ,*-',)*' K,)'>)6=,*-'M ;/5% *0% 1?=/%% -" ' # ' ' ;' ' " ' ' ' .' =/6>*0'6,',)*' *20'1' ,)*'D119' 620' 2',)*' *=,' +*-. 12' ,' D*6-.' 6' .=*> 6/)*60 25'6.' 1] ' ' " ' %" ' '# " +" 6(' &&% 1 * '(+%1) ' ' AA11=' ' *'I% O*'& 8= % -" ' ' ' ' ()*' 600 , 12.'6-*' 1;20' D1,)',)*' 4-**9',*L,. ',)*' *=,'620' ()*101, 12 ' 72 ,)*' /0' 6, 2'620' ;/56,*'620' 2'7*'*L.,25' -6>' 620' -6D >'+*-. 12.% 2',)*'1,)*-')620',)*-*' .'21' *+ 0*2>*',)6,',)*'+*-' 1-?*0'=6-,'1',)*' :*D-*8' ,*L,'620',)*'8*-*'1-5 26//\'862, 25' 2',)*' -6>' D 1/ >)-12 ;.'6=% <6'$ % 'N '7 !' ' '=% N' .6 .'1',)*') ?2'*L=-*../' ' , ' ' (6*C% =')"'' % '- '$! %) 'I$*$O 8!' -1?',)*' *=,'620' ;/56,*',)*' -65?*2,.' =6..*0' 2,1' >1?2?12' ;.*' 620',)*'6->'>1?12/'_;1,*0'D'4-**9'620' 6, 2' 6,)*-.' 6.'=6-,.'1' 62 *'M /*?% *L% 6 % %"!' ' 1' -5*2' 6%' '& !:' (*-,;//% ' !' '*,>%X'D;,'-*A*>,*0' D',)1.*'8)1'60)*-*0',1',)*' :*)-* '>7212% B*-1?*' 2'=6-,>;/6-'>6//=0'6,,*2, 12',1',)*-'6D.*2>*' -1?',)* : *D-*8' D/*' M -* 7' ' ' !8*' 620' 2.,*60'1' 62' >1?2?*2,6-'1')-/' -5*2.'-*?6-9.' '12',)*' 6D/*.'1' */620' ;.6226J' I ' ' ' L ' X% 2'6'. ? /6-'?622*-')1' 21, >*.' .)1-,/',)*' 125'1',)*',)-**') /0-*2' /*.',)*.)1;/0'.**?',1')6+*'1+*-/119*0',J' > ' ' ' ! ' KNX% % ' - ' ' ! ' 6-1;.' >12A*>,;,-*.')6+*' D**2'?60*'6.',1',)*'1-52'1',)*'600 , 12.% ,')6.' D**2'.;==1.*0',)6,',)*' 8*-*'0*-+*0' -1?' -6?6>' 1-5 26/.'M *'&*,,*'6 !' 'K' 6=% '5+*.',)*'6-^ 5;?*2,.'6,'/*25,)X'D;,',)*'2,-> 6,*'+0*2>*' .'8)1/^ /'2.; > *2',1'*..6D/.)',)*'=1 2,% ()*')>)6-6>,*-' 1',/*' 600 , 12.',)*?.*/+*.' 20 >6,*.'-6,)*-',)*')620' 1'62' /*L620-2*'8-,*-'!620',.'21,';2/9*/'A76,' ,)*',-62./6,1-'1' 62 */8-1;5),';=',-60 , 12.'8?>)' 8*-*'6/-*60 '>;--*2,'620'6==*20*0',)*?',1',) .'81-' M>1?=% -,[.*)*'6 !' # !' / ' &% "!' K X% ()*'6D-;=,2*..'1',)*'26--6,+*' 2' 62 */ ;-2.)*0' 62'1>>6.12' 1-',)*' 2,-10;>,12'1',)*'=-6 *-'620')A(22T 620',)*'.,1 '1',)*' -6512'.**?./9*'6' .,-625*'*L655*-6,12'1',)*'-*>1-0'1',)*'0*/+*-62>*' 1' 62 */M 62% + X'8)>)'?6'26,;-6//')6+*' 1-?*0' ,)*'D6..'1'0 *-*2,/*5*20.% 1-'.';0 >;/,',1'.*6' 2',)*') .,1-'1' ;.6226'6'=1 2,*0'6//;.12',1',)*' 26?*'1',)*'=-1=)*,',)1;5)',)*'26--6,+*'?6'21,'D*' 8)1// '>,,1;.% ()*' *=,'6==*6-.',1'D*',)*'1-5 26/.1;->*' -1?' 8)>)'6//',)*'*L.,25'-*>*2.12.'1',)*' -65?*2,.' 8*-*'0*-+*0'M>1?=% :10 ' ' ' ; ! !'=% QNX% ()*C' 101,12'.**?.',1')6+*'012*'/,,/*?1-*',)62',-62.>-D*' ,)*' *=,',*L,'8,)' ?=-1+*?*2,.' 2'.,/*' 620'/62^ 5;65*'8)>)'6-*'>12.0*-6D/'5-*6,*-'2',)*'6==*20*0' 26--6,+*.',)62'2',)*' 125'2>1-=1-6,*0'2,1',)*I>6C 212>6/,*L,% () ;.'8)/*',)*') .,1-A'1' ;.6226'620' */620',)*' -6512'>12,6 2'/6-5*' 600 , 12.' 8)>)' >1?=/*,*'620'*?D*//.)',)*',1-'M*% 5% :..' ;% C' QT K 'K T K CK T S' ' R' T */620' -% 'RC NT' >))1-2'=% N'._%X',)*',*L,'1',)*' 125'k/,,/*'?1-*' ,)62'6'-*=*,,12'1',)6,'p',)*' *=,% M>1?=% * <6C' 5.,-.'' '*,>% =% K'._%T >))1-2'6 !' ' &% " %"!' $ " !' =% KK'._%X% ()*' 1/ 5/1,C X-6>' -6D>'620' 6, 2'+*-.12.'6-*' 0*-+*0' -1?' ()*101^ ,12'620',)*' :*L6=/6-C -6>' -1?',)*' *=,% M >)^)1-2'=% N '*,>%X% ()*' ,1-*.'1' */620' ;.6226'-*>* +*0'+6-1;.'*?^ D*// .)?*2,.' 2' /6,*-',?*.'8)>)',)-18'.1 *' /5),' ;=12',)*'?622*-' 2'8)>)',)*'8*-*' 1-5 26//A'>1?^ =1.*0' M>1?=% -5*2'6%!' & !' g ' T 1>)6-,' /! 'NT >))1-2'=% S'*,>%X'A;.,'6.',)*>)625*' 8)>)'()*101,12'2,-10;>*0'2,1',)*'26--6,+*'1' */' ,1'5+*' .1?*>12..,*2> ',1',)*' 6>,.' //;.,-6,*.',)*' -6, 126/ [25'=-1>*..',)-1;5)'8)>)',)*/*5*20.'=6..*0' M>1?=% */,[.>)' ' '# ' ' Q X% ' .',);.',*/*.',1'2..,;,*'62'2_;-'2,1',)*')..1-> 1;206,12'8)>)'/*.'D*/18',)*' =1=;/6-',-60 , 12.T 1-',)1;5)',)*.,1-*.'>6221,'D*'-*56-0*0'6.'?*-*' 6^ D/*.',.'+*0*2,),)6,'6'?1-6/=;-=1.*'0*,*-?2*0',)*' .)6=*' 8)>)',)*'6..;?*=,-6>*.'1'6'0**=*-'8.01?'620',1')-.,62'>1?^ ?*2,6,1-.' ;.6226'6==*6-*0'6.'6',=*' 1',)*',-:*);->)',*?=,*0',1'2 0*/,'D'B*8.)'620'=6562' 60+*-.6-*.'620'/,25';=')*-'+1>*',1'410I'2',)*' 2'0.,'1'=*-.*>;,12'M:==1/% '$ 1f=% QR._' *0% < 52*X% ' ?,)'.'+% % -" '$% ' ()*.*'600*206'6-*'-*56-0^ *0'6.'>6212>6/'D',)*'1?62');->)' 6,)*-.' 1?62');->)'D;,',)*'12/' *+0*2>*',)6,',)*'62'D*'600;>*0'1-',.'6;,)1-,'D*25' 6,,6>)*0',1',)*?' .',)*' 6>,'1',)*-'*L.,*2>*' 2',)*' *=,' ;/5%'620'1,)*-'+*-.12.'620',)*-'_;1,6,12' D*',)*'*6-/');->)' 6,)*-' 2' ,)*' 1,)*-')620' ,)*.*' 6-5;?*2,.'6-*' ?1-*',)62'>1;2,*-D6/62>*0'D' ,)*' 6>,'1',)*-'212C*L.,*2>*' 2',)*' :*D% ,*L,'620' ,)*'*6-/*.,' - 6>',)*' 8*69'6;,)1-,'1',)*' *=,' M*.=*>6// '2',)*'D119'1' 62 *//XT 620'>12.*_;*2,/' 1',)*' ;/5%'8)>)' .'D6.*0';=12' ,'620',)*'?622*-' 2' 8)>)',)*.*' 6,)*-.',*-'-*' *-',1',)*?% B*^ -1?*' 20**0' -*_;*2,/'620'1=*2/ '-0>;/*.',)* -'6DC

.;-0' /*5*20.' 620' ,) * -' 182' >12,-60 >, 12.' 6-*' .; ^ > *2,',1' .,6 ?=',) * ?' 6.' .=;- 1;.';=12' ,) * -'+*- ' 6>*%
**' D %%% 1' ' , ! M*0 -* ,)6;=,' 41,) ' *,'
=.% X' =% N T &) ,69*- 7'A 76,6Z,10' 12' $ % '
M 6-9*-' 1> *, ' *0%X' =% ',._%T N3 2' # ' ' " '
'M 12012' SRRX' =% '._%' '._%T -21/0' 9
' &% %" :' U;2[' ? " ' N -'
' =% KKT' : *-[*/0' ? " " ' ' ' =% N T'
4-6,[' ? "!' 'D ' 'N Q T 86/0' ? "!' '
+' S '._%T - ,[.>) * 'D6 !' # !W' T 6+ 0.12'
- ' '" (, !=-!' =% R S% **' 1 ' /' ' '% '
%<) F' ' g $ % # g' 4'
(1 ' '8 ' ' ' ' '% #' /!
M *=,% & 8E (' '=- *.,' 1 ',) *' 6? / '1 ' ,) 6'
?6-' 8) 1' -*,; -2*0' -1?',) *' *L /*' 2',) *' , ?*' 1 ' -'
6L*-L*.J' M [-6' + 'KX' % % R% : *' .' =-1D6D/ '
,) *' .6?*' 8 ,)',) *'=- *.,' 62 */ 8) 1'A1 2*0' 2',) *' >1+^
*262,' 0-682' ;=' D ' *) * ? 6)' M *) % L' SX' % % %
: *') 6.' D**2' >12 1;20*0' 8 ,)',) *' =-1=) *.' 2%,) *' 6=1>^
- =) 6/ 600*20.',1' ,) *' *=,% M 62% L + ' ' *=,%' 21,'
( ) *101, 12X' 8) *-*') *' .' >6//*0' 6'=- *.,' D ',) *' 26?*'
1 ' 62 */ ',) *' .12' 1 ' DO6J' MB*-1?*' !' ' ' 9
!(8!
62 */' ,) *' , / ,*' 86.' D1-2' 2*6-' 6?1.6,6'
6D1;' % % '620' 0 *0' 2*6-' 12..62, 21=/*' 6D1;,'
R % : *' *2,*-*0' 6' ?126.,*- ' 6,' ,8 */+*' 620' 0*,*-^
? 2*0' 2' ? 00/*' / *',1' ? ,6,*' ?*12',) *' , / ,*' M_%
' ' 2' S ') *' L*0') ?.*/' 12' 6' //6-'12',) *') * 5),'
>6//*0' 26=/6' 2*6-' 12.,62, 21=/*' 620' *L=1.*0') ?^
.*/' ,) *-*' 06 '620' 2 5),% ' .' .6 0',) 6,') *') 60',) *'
5 ,' 1' =-1=) ** '620' 86.' 6,' /6.,' *.>1-,*0',1') *6+*2'
D ',) *' 625*/.' ' : *' .' >*/*D-6,*0' 6.' 6' .6 2,' 2',) *'
M'-0*9' 620' 1?62' >) ;->) *.' *>% % ' ;,/*-' ' '
" '$ ' *>% %

62 */ 'D .)1=' 1 '& 2>) *.,*-' 6' ?129' 2',) *' >12^
+*2,'1 ' <6/?*.D2-A ' 86.'-6 .*0',1',) *' .*'1 '& 2>) *.^
,*-' 2' % ()*' >12+*2,' -1?' 8) *2>*' >6?*' 12 6>*'
,) *' 6=1.,/*' 1 '4*-?62 ' 86.' . ,;6,*0' 2') .' 0 1>*.*'
620' 62 */) ?.*/' .,-125/ ' *2>1;-65*0' 12 6>*' 2'
) .' -*.1/;, 12' 1 '=-*6>) 25',) *' 41.=*/' 12',) *' 12, ^
2*2,% : *' 56+*') ?' 12',) *' 1>>6. 12' 1 ') .' -.,'A1;-^
2* ',1' 1?*',81'/*,,*-.' 1 ' 2,-10;>, 12' 12*' 600-*..*0'
,1'6//*)- ., 62. '9 25. '620' D .)1=.' I % !';!' !' =
' %!' X' 620' 621,) *-,1' 4-*51- ' ' 8) >) ') 6.' D**2'
/1.,% : *' -*?6 2*0' 2' -*/6, 12' 8 ,)' 12 6>*' 620'.;.^
,6 2*0') ?' D ') .' 60+ >*' 2.,-;>, 12. ' 620' . ?=6,) '
I %!';!' %!' KC X% 2' K ') *' ;20*-,119' 6'= /5- ?65*' ,1'
1?*' 620' 12') .' -*,;-2' ;-2 .) *0',1' *0*',) *' .1;->*.'
1 ') .') .,1- ' 1',) *' 9 2501?' 1 '& *..*L' 6.',) *' /6,,*-'
) ?.*/' ..6,*.' 2') .' >>/*. 6.,>6/' :.,1- ' 1 ',) *' 2^
5/1C 6L12.% : 6+ 25' D*>1?*' D/ 20 ') *' -*21;2>*0') .'
>)6-5*' 620' -*,;-2*0',1',) *' >12+*2,' 1 ' <6/?*.D;- '
8) *-*') *' 0 *0' 2' ' 1-' S% ()*' 1;-'/*,,*-.' ?*2^
,12*0' 6D1+*' 6-*' 6//',) 6,'-*?6 2.' 1 ') .' 8 - , 25.' 1 ',) *'
%!' 'DA' & ;-0,8* 2' .' 6/.1',1' D*' 1;20' 2' 6-12 2.'
% % K % ' : *-[15' =6 - %!' .*+%T & - 5),' ; ' =
%" ' 'M 25/1C 6L12' *- 10X' =% KRK' ._%
62 ,*' M : *D% 6/86 .' 8 ,) ',) *' 6-, >/*' " =' ('
NB (T *=, ' 1' & '& ' 1/ & :' % % 62C
,*. J' B;05% L 'KT' L+ ' T' ') -12% L 'N T' 1 '
62 J' B;05% L+ 'N X' 6' ?*?D*-' 1 ',) *' ,- D*' 1 ' '
M_%+%X%
62 CA6 7' M : *D% D;,' 12>*' 620' 8 ,)' /1>6/ 6=^
=*20*0' ' ("' < (' / 2T *=,% & $ ')
, " ' % !'& % ' ' /12B0=T ;/5% 62' =
8' 6' =/6>*' 26?*0' 12/ ' 2' K 6?% LL + ' S 6.' 12*' 1 '
,) *' =1 2,.' + . ,*0' D 'B16D' 2',69 25',) *' >*2.;.' 1 ',) *'
=*1=/*% ,' 1>>;-.' 6 ,*-' 4 /*60' D*,8**2' ,) *' /620' 1'
(6), ?C)10.) J' 620' U 012' 620',) *-* 1-*' ?6 ') 6+*'
D* 2 .1?*8) *-*' 2',) *' 0 -*>, 12' 1 ' 62' M 6 .) X' 6,'
,) *' .1;->*.' 1 ',) *' B1-062% ()*' -*60 25' 1 ',) *' /*L^
620- 62' *=, ' 620' 1 ',) *' ;/5% 86.' *+ 0*2,/ '
' =* ',) *' 2*6-*.',-62./6, 12' 1 '8) >)' .' ' 62' 2'
,) *' 8110%J' () .' -*60 25' .' 6==-1+*0' D ' 4*.*2 ;.'
I -' !' # !' =% NNSX' 620' 65-**.' 8 ,)',) *' 8*/ 8110*0
>) 6-6>,*-' 1 ' ,) *' >1;2,- ' 6D1;,' - ' =) !' **'
/ ' !' ;-.,' I # !' # "' =% N NX <1?^
=6-*.' 62CA662' 8 ,)' 66/CA662' 6') 1*2 > 62' 0 + 2 , '
8) 1.*' 26?*' .' 1;20' 12' >1 2.% ()*2 ;.' .;55*.,.',) 6,'
B662' 86.' 1- 5 26// ' 6 .) ',) *' 7') 6+ 25' 6//*2' 686 '
620') 6+ 25' D**2' .;D.,.;;,*0' 1-' // ' I6 !' # "!'
12' 6?% =% K X% ()*-*' .**?.' 21' -*6.12' 1-' 01;D, 25'
,) 6,',) *' 8*//C9218 2' '1-' *.D*?' .' 2,*20*0% & *'
) 6+*' 21' -*>1-0' 1 '62 ' 1,) *-' 62' 2',) *' 21-,) ' 620'
*+*2' ',) .' 8*-*' 21,',) *' >6.*' 62' 6.',) *' 6>>*=,*0'
21-,) *-2'/ ? ,'1 ',) *' 26, 12' 86.',11' ?=1-,62,' 6' =/6>*'
,1' *.>6=*' ?*2, 12' 2' .;>) ' 6' / .,' 6.',) 6,' 2',) *' ,*L,%
-% >) ;/,[') 18*+*-',) *' /6,*' -;.. 62' >12.;/ 6,' B*^
-;.6/*?' 0 .>1+*-*0' 62' 62> *2,' . ,*' >6//*0' ' ' 1-'
;' ' 2',) *' ?1;2,6 2.' 6D1+*') 62' *2C 69;-6 '
.1;,)' 1' (-*' 8) >)') *' =-1=1.*.',1' 0'2*, '8 ,)' 62C
A662' M 62' 0*' */0*' '=% Q SX%' ? ,) ' .% +%

62 26) % M : *D% ' +(!-,8 ' =-1D% '
D;,' ;-.,',) 29.' :' $ % '(' !'-% ('*+ ^
0*2,/ 'D '? .,69*' 1 ' 1-'! T ;/5% ' 8' 6' > , ' 2'
,) *' ?1;2,6 2.' 1 ' B;06) ' ?*2, 12*0' D*,8**2' 1>1)'
620' A6,) C.6226) 'MB1.) ' L+ ' RX' 620' *+ 0*2,/ '/ 25'
2',) *' 5-1;=' .1;,) C8*.,' 1 ' : *D-12' M * /' ' 2'
/1>%X T =1.. D/ ',) *' ?10*?' =' " " "' 6' >12.= >2%
1;.' + //65*' 12',) *') //.' 8*.,' 1 ' & 60 ' *(C) ;/ /' >12^
. .,25' 1 ' .,12*') 1+*/.' 8 ,)' -*?6 2.' 1 ' 1/0*-' .,-;>^
,;-*.' 620' .;--1;20*0' D ' 6' 2*' 5-6[25' -*5 12' M 1DC'
2.12' ; " ' 'N Q' N//X% 21D*/ I6 !' # !'
2' /1>%X' .;55*.,.',) *' . ,*' - 'D ',) .' .' =-1D6D/ '
,) 6,' 1 ',) *' 62> *2,' (6216) %

622) 6;*-' '6' ;,) *-62' 0 + 2*' 86.' D1?'
2',) *' -* .56;' S N' 620' .,;0 *0' 6,' ,) *' ;2 +*-. , *.'
1 ' <6-D;-5' /,01- ' 620' B*26% 2' SKQ) *' D*>6?*'
=-1 *..1-' 1 '*/1_;*2>*' 620' /6,*-' 1 ',) *1/15 '6,' ,-6.C
D;-5' 8) *-*' 6/.1' 2' SNQ) *' D*>6?*' =6.,1-' 1 ',) *' 6^
,) *0-6/ >) ;->) % : *' 0 *0' 2' S ,% 622) 6;*-' 86.' 6'
/*6-2*0' ,) *1/15 62' 620' 62' *6-2*.', ;,) *-6/' >12,-1C
+*-, .,'656 2.,' 1?62 .?' 620' 2>-*, .?' M %+%X% 1-'
62' 6>>1;2,' 1 ') .' 2;?*-1;.' 8-, 25.' .**' ()1/;>9'
)60*?.>) *.' U*D*2' O% ' B6)-) ;20*-,.:*% L+ ' =%
K T 620' ()1/;>9 .' 6-, >/*' 2' :*-[15'5 =6 2 %!'
L L 'NQS%

62, *' M=-1=*-/ ' 3' / 5) *- '12*' 1 ',) *'
5-*6,*.,')-., 62' =1*,.' 1 '6//' , ?*.' 620' 12' 6>>1;2,'
1 ') .' + *8.' 1 '-*/ 5 12' 620',) *') ;->) ' 5*2*-6// '
>1;2,*0' 6?125',) *' 1-*-;22*-.' 1 ',) *' * 1-?6, 12' 1 '
,) *' .L,**2,) ' >*2,;-% : *' 86.' D1?' 6,' /1-*2>*' <6 '
Q KS T 6>>1-0 25',1' 1,) *-.% <6 ' K KSN% : *'.,;0^
*0' =) /1.1=, T' 6,',) *' ;2 +*-. , *.' 1 ' /1/1526' 620' 60^
;6' T /6,*-' 8) *2' 62' *L /*') *' 0*+1,*0') ?.*/' ,1',) *'
.,;0 ' 1 ' =) /1.1=) ' 6,' 6-.% >>1-0 25',1' 6' .,6,*^
?*2,' 1 ' 1>>6>> 1') *' 6/.1' + . ,*0' 25/620% 2') .'
1;,)' 62,*' ,119' 62' 6>, +*' =6-,' 2',) *=1/ , >.' 1 ') .'
26, +*' > , ' 620' 2' N ' 86.' 1-' ,81' ?12,) .' 12*' 1 '
,.',81' ! 2',) *' =6-, ' .,- *' D*,8**2',) *' # '
M /6>9.X',) *' ;2>120 , 126/ 60) *-*2,.' 1 ',) *' =1=*' 620'
=; "' M&) ,*.X' 8) 1' -6,) *-' . ?=6,) [*0' 8 ,)'
,) *' 4) D*// 2*.' 62,*' 86.' 12*' 1 ',) *' /*60 25' ?*2' 1 '
,) *' /6,,*-% : .'=6-, ' .*2,') ?',1' 1?*',1' >1;2,*-6>,'
,) *' =/62.' 1 ',) *' *- ' 8) 1') 60' ?=/1-*0' ,) *' 6 0' 1 '
12 6>*' % ()*' =1=*' 20;>*0') 6-/*.' 1 ' 6/1 .'
D-1,) *-' 1 ') / =' ' 1 ' -62>*' ,1' 51',1' /1-*2>*' ,1'
?69*' =*6>*%) 6-/*.' -*>6//*0',) *' *L /*0' >) * .' 1 ',) *'
62>) ' 620' 56+*' ;=',) *') 1;.*.' 620C,) *' =-1=*-,' 1 '
,) *' *-' ,1' =/;20*- 25% <62 ' 1 ',) *' =-1? 2*2,' ?*2'
1 ',) *' =6-, ' 6?125',) *?' 62,*' 8*-*' D62 .) *0%
62,*' 2*+*-' .68') .' 26, +*' > , ' 656 2' 620') .' .;D.*^
_;*2,'/ *' 86.' +*- ';2.*.,/*0% ,*-',) *' /6.,';2.;>^
>*.. ;/6,.*?=,' 1 ',) *' &) ,*.J' ,1'-*C*2,*-' /1-*2>*'
) *' =-1D6D/ ' /* ',6/ 1-' 6-.% &) *2' *?=*-1-'
: *2- ' ?6->) *0' 656 2.,' 1?*' 62,*' 8-1,*' /*>C
,) ;.6.,>' /*,,*-.' 2' 6+1-' 1',) *' *?=*-1-' 656 2.,',) *'
=1=*% ,' .',) 1;5),',) 6,') .' 81-9' " ' 86.'
>1?=/*0' 6,',) *' .6=*', ?*% ()*' 0*6,) ' 1',) *' *?=*-1-'
0 .6==1 2,*0') .' /6.,') 1=*% ()*' /6.,' A *6-.' 1 ') .' / *

' (' " ' ' + ' MB*26 ' Q KXT /1,1 ' ' '
& " :' ' " ' ' + ' M ,;,,% Q QXT
6;-' 21 ' (' / =' + + ' ' ('
M41-/ ,[' QSKX% ()*' D*.,'6?125'-*>*2,' ,6/ 62' 81-9.'
.' 6/D1 .' N ' ' ' MK' +1/.% (;-2' QNRX% '/.,'
1 '6// *0 , 12.' ,-62./6, 12.' 620' >1? ?*2,6- *.' 12' ,)*'
' ' .'5 +*2' 2' 1/1?D'0*' 6, 2* .' ; ='
2 ' ' 'MK'+1/.% -6,17' Q SC Q QX% ()*' D*.,'
//;.,-6, 12.'1',)*'>) * '81-9.'1' 62,*'6-*' -1?' /6LC'
?62'I1& ' < /62' QKKX' 4*2*// '620' 1-S%
2' QS ' -1?',)*' ,)',1',)*' S,)' 1' <6 ',)*' . L,)'
>*2,*26- '1',)*'D -,)'1' 62,*' 86.'>*/*D-6,*0'6,' /1-^
2>' 8 ,)' ? ?*2.*' *2,);. 6.?'620') .'.,6,;*'MD ' 2^
-'>1' 6.A[' 2' /6+*226X' *-*>,*0' 6,' ,)*' 6[[6' 0*//6'
-1>*%' **' -1>9)6;.' '=' '620'
)6?D*-.' M>) * / '6' >120*2.*0',-62./6, 12' 1' -1>9^
)6;.X'Q% %T' :*-[15' =6 " U1' 'KQS%

62['B1)622' 20-*6.'6' ;,)*-62',)*1/15 62'
620'0.,25; .)*0' :*D-*8' .>)1/6-'86.'D1-2' 2' S'
6,' ;20)6;.*2'2*6-'41,)6% :*'D*>6?*' =-1*..1-'6,'
,)*' $2+*-. ,'1'B*26' /-.,' 2',)*' =) /1.1=) >6/'620'
.;D.*_;*2,/'M NX' ;',)*' ,)*1/15 >6/' 6>;/, '-*^
?6 2 25')18*+*-'6,',)*' .6?*' ,?*' =-1 *..1-'1',)*'
-*2,6/ /625;65*.% :*' 86.',)*' 1;20*-' 1' 6' 2*8'
.>)11/1' -*2,6/=) /1/15 .,.' 620') 60',)*'-*=;,6, 12'
1 'D* 25',)*'5-*6,*.,' :*D-*8' .>)1/6-'1',)*'65*% :*'
8'6.' 2, ?6,*' 8 ,)' =*2*-'620' -6;>9*'D;' *,') .'=-^
+6,*'/ *' 86.' 21,'D* 120'-*=-16>)% I :*'0*0' *>% KK'
K % ()*' ?1.,' ?=1-,62,'1') .' 81-9.' 6-*' % 9
' I;'" " ' ' " 'MNO' *0, 12' SX'
5 "" M -629 % S X' '6 '
" 'MB*26' S S' ,)*' -.,'')60'D**2'=;D/.)^
0';20-',)*', ,/*' 7 '\22,C>-6>9*-h'B*26'
SQSX% ' :*-[15'5 6 + %!'L A'NQQ' *-*-'2 !='
!' + ' N %

62['B1)622'(-6251,,' *D*-*>), '6' -1,^
*.,62,',)*1/15 62' 1' 4*-?62 ' 86.' D1-2' <6 ' N '
SR'6,'& * ?6-' :*' .,;0 *0' 6,',)*' ;2 +*-. ,*.' 1'
B*26' 620' 41,, 25*2'D*>6?*' 2' Q '=-1 *..1-' 1',)*^
1/15 '6,'B*26' 8) >)'=1. , 12')*' -*,6 2*0' ;2, /' QN '
6?' 0 *0' 6,' B*26' <6 ' S Q % :*' 86.' 6' ?62' 1'
? ?*2.*' /*6-2 25' 2' 6// 0*=6-,?*2,.' 1'/ ,*-6,;-*' 62'
2,*-*., 25' 8- ,*-' 12' 6' 2;?D*-' 1',;DA*>,..'620' 6' =1=^
;/6-'=-1 *..1-% 2') .',)*1/15 >6/+ *8.')*' 86.'6'-*=^
-*..*2,6, +*' 1',)*'.>)11/1' D/ >6/ 6, 126/ .,.'60+1^
>6, 25',)*'?;,;6/,1/*-6, 12'1' 6, 126/ .,.'620' ;=-6C
26,;-6/ .,.' 2',)*'.6?*')>);->) '620'1==1. 25',)*'+*8.'
D1,)'1' >)/* *-?6>)*-'620' ,-6;..% ?125') .',)*1^
/15 >6/ 81-9.',)*' 1//18 25' 6-*',)*'?1.,' ?=1-,62,a
" "' ') " + " 'MB*26' QK XT ' ' '
" ' " ; ' -" !
6 % ' M& * ?6-' QNKXT' 2 = , +'
' " ' ' M " + !' ' M *=.>'
QN '._%XT ' ' ' ;'ID *$$,G:' ?]
" " ' ' 'MB*26' Q SX'6>>1-0 25'
,1' 6;/ 6-=% :.' *0, 12'1',)*' '$ " ' '
2 '5 = " ' M ?6-% QN X' 86.'0*0 >6,*0'
,1' ? 'ON 1' * ' ' 5 '
" '% ' 8 ,)' .1?*' 5110' -1,*.,62,'60+ >*'
:*' 6/.1'=;D/.)*0'6'D 15-6=) '1') .'0*>*6.*0'M QN X
-*20'620' >1//*65;*' :' % >)1,,'MB*26' QNSX'620'
*0 ,*0'6'=1.,);?1;.'81-9'1',)*'/6,,*-'12',)*'6;,)*2^
, >, '1',)*' 41.=*/' 6>>1-0 25',1' <6,,)*8'M *=.%'
QN X% 2*%1') .'/6.;'81-9.' 86.' '(81' 12+*-.6^
, 12.J'12',)*' *'1 'B*.;.'D ',-6;..'I. '? % " '
QNRX% ' :*-[15'5 =6 # %!'L L'NQR'._%

6=D7 20' >& % *',)*' :' .1' >6//*0' -1?',)*'
+*-0;-*'1',)*'=/6>*'1-'D*>6;.*',) .'-**' 86.'.6>-*0'
,1' =1//1X',)*'26?*'1'.*+*-6/ 0*6/ ,*.'?*2, 12*0' 2'
/6,*-'8-,*-.%
% '>*/*D-6,*0'5-1+*'620'.62>,;6-'1' =1//1'2*8-)
2, 1>)'M_%+%X'2' -6% ,.'*.,6D/.)?*2,'/9*',)6,'
1',)*'>, '86.'0;*',1' */>;>;.' >6,1-' ()*'0.^
,62>*'D*,8**2' ,)*',81'=/6>*.'86.'6D1;,' +*'?/*.'
M ,-6D1'L+ ' X'620'2') .,1-'.,)*'6-*'6..1>6,*0'
?1.,' 2, ?6,*/ ',15*,)*-'M 2, 1>)'D* 25' -*_;*2,/

>6//*0' %4 ' ⅗620' R% ⅕< ' =⅗620' >12^
+*-.*/' 6=)2*' *2, ,/*0' ' 1' -' * ?% # B1-'
.*=D;.' ' K' T' >1?=%& 'L+' T' L+ 'K
X% ()*' . ,;6, 12'86.'1'*L,-*?*'26, ;-6/D*6;, '8 ,)'
=*-*22 6/ 1;2,6 2.'620'6D;2062,'8110% */*;>;./1^
>6/ [*0')*-*'620'6==-1=-6,*0',1') ?.*/'620') .' 6?^
/',)*' 6D/*.'1' =1//1'620',)*'-+*-' *2*;.'620',)*'
2 2=)' 6=)2*% :*-*')*'*-*>,*0'6'?652 >*2',*?^
=/*'620'>1/1..6/.,6,;*'1',)*'510'M D62 ;.'' ' %"='
' - % ' 'QN X% ()*' .;>>**0 25' */*;>0'?12C'
6->).'*.=*> 6// '2, 1>);.' ==)62*.'*?D*// .)*0',)*'
=/6>*' ., // ;-,)*-% ?125'1,)*-')121-.' ,'=1..*..*0'
,)*'=- + /*5*.'1'62'6. /;?% ' .' 2',) .'>)6-6>,*-'
,)6,',)*'=/6>*' .'?*2, 12*0'K' <6>>% +'QN% 2',)*'
-* 52'1' 2, 1>);.' ==)62*.'M % % X',)*'65*0'620'
=6,-1, >') 5)C=-*.,' 2 6.')6+ 25'-*D;9*0' <*2*/6;.'
)X-') .'.6>-/*5*'6,'B*-;.6/*?',119'-* ;5*' 6,' 6=)2*'
8)*2>*')*'86.',-*6>)*-1;./'D-1;5),'1;,'6,',)*' 2^
.,62>*'1'<*2*/6;.'620'?;-0*-*0'D' 20-12>;.'8)1'
86.'51+*-21-'1' 2, 1>)'0;-25',)*'9 25 .'6D.*2>*'12'
6'>6?=6 52% B1.*=);.'01*.'21,'5 +*',)' .'6>>1;2,'1'
,)*'0*6,)'1' 2 6.'I1& 'L 'S X% &)*2' -6'D*^
>6?*' 1?62' 6=)2*' >12, 2;*0',1'D*' 6?1;.'6.'6'
=/6>*'1'=/5- ?65*'620'+>*' ' ' %" ' (1'86.'
6'=-1+*-D'M.*'4 DD12 .'KNO'>)6=,*-X% ()*'D*5 22 25'
1',)*'0*>6 '1' 6=)2*'?;.','D*'O6,*0' -1?',)*', ?*'1'
B;/62'8)*2')- ., 62, ' 2',)*'*?= -*'D*562',1',-^
;?=)'1+*-')*6,)*2 .?%' ()*'. ,*')6.'D**2'8*//' 0*2 I'
,0*0'D' 1>1>9*'620'1,)*-',-6+*//*-.'6,';' A '
,)*' :1;.*'1',)*' & 6,*- J'12',)*'/* ,'D629'1',)*'
-12,*.',1',)*' .1;,)C8*.,'1'2, 2,1>)'620'12',)5)*-'
5-1;20'8)*-*',)*'1;2,6 2.'620',)*'8 /0' -65-62,'+*5^
,6, 12'6-' 2')6-?12 '8 ,)'6//',)6,'8*7-*60'1',)*'
26,;-6/')6-6>,*- .,>.'1' =1//1.'.62>,;6-A7 ' ?,)
Q% ' ,' .'6'.?6//26,;-6/'6?=),)*6,-*' 12',)*'0*CO'
>/+,'1',)*'?1;2,6 2.'8)*-*',)*'.=- 25.'D;-.,'8 ,)'
6'/1;0'21.*' -1?',)*'*6-,)'6201;)2 25' 2'6'+6- *, '
1'0 -*>, 12.' 1-'6'0 .,62>*'1'6D1;,',81')20-*0' 76-0.'
,*-? 26,*' 2',81'D*6;, ;/ >6.>60*.'8)>2'6//',1'
,)*'+6//*'1',)*' -12,*.% ()*'/6-5*.,'1',)*' 1;2C'
,6 2.'- .*.' -1?';20*-'6'+*-, >6/-1>9'1-?25'6'.?6//
67D .'1-'>12>6+, '12',)*',1=' 620'.0*.'1'8)>)'6-*'
,)*' ?6.. +*' -*?6 2.'1'62' 62> *2,'*0 >*' =*-)6=.'
,)1.*'1',)*'(*?=/*'1' =1:1'M *// .'$ '=%KQ X%
1-'6',-62./6, 12'1'62'62> *2,' 2.>- =, 12'-*>*2,/ '0 7'
>1+*-*0'12',)*'.,*'.**',)*'D '& !', !'$!'+' %
** <;//*-'& 54!'& " '=% S I' ?,)'.' ' '
!'? ' !'+% **' '!
K% ',182'1-'+ //65*'MT7&A ,1AX2*6-',)*'1;2,6 2.'1
,)*'/,,/*'B1-062'MB1.*=);.' ' +' '.*>% X% *C
/620' ID '=% KSNX'620'1,)*-.')6+*' >12. 0*-*0'
,).'6.' 0*2, >6/' 8 ,)' 62'=-1=1. 25',1'-*60'& * 1'
1-'& % -* '620'-* *-- 25' 2'.;==1-',1'B1.*=);.'& !'
+ 'Q' % *>*2,'*L=/1-*-.')6+*' .)182',).'.,1' D*'
62'*--1-'620')6+*'0 .>1+*-*0',)*'. .*'1',)*' 6=)2*'
1'B1.*=);.' 2',)*'=-*.*2,' "',81'?/*.',1',)*'
.1;,)'1'(*//*/C 60 ',)*'.,*'1' 62'M 62'0>' */0*'
BV*?1 -'=%N S' $ ' ' ' :' 1D 2.12'
'5 " '=% NRNT' & /.12';' ' KXT'
()1?.12' ' ;" ' 'NQQX% ,,1',1'.%+% %
N% /:' ;?% LLL + ' ,)*'>/6;.*'-*20*-*0' 2',)*' %
% 12',)*'*6.,'.0*'1' 2J'M_%+X'620'D ',)*' *=,'
12',)*'*6.,'1'M1 X',)*' 1;2,6 2 J' .'5 +*2' 2',)*' f/C'
56,*' >12,-6' 12,*?' 6=)2?%J' ()*'81-0'1' %" '
.'?1.,'=-1D6D/'6'?6-5 26/'5/1..'620'?6 '=*-)6=.'
-* *-',1' 1% K% B*-1?*' 2') .'>1?? *2,6- '12' [*9 */
M>% X'-* *-.',1',)*'=6..65*' 2' ;?D*-.'620'5 +*.'
-*6.12.' 1-'>12>/;0 25',)6,' ,)*' 1;2,6 J' .' 6=)2*'
1% % ()*'(6-5;?.'1'B126,)62'620'1'B*-;.6/*?'
5 +*' 6=)2*' 1-' 1=)2*' 6.',)*' *_;+6/*2,'1' D/6)'
M% %C' 2' ;?% LLL + ' ' M_% +%%I' ()*' *--1-' 2,1'
8-)')'B*-1?*'620',)*'(6-5;?.')6+*' 6//*2'6==*6-.',1'
)6+*'6-.*2'*,)*-'-1?'6'>12 ;.12'D*,8**2' 6 P) *'
12',)*'B1-062'8 ,)' 6=)2*'12',)*' -12,*.' '-1?'
?.,69 25',)*'1;2,6 2.'2*6-',)*'?1;,)'1',)*' -12,*.'
1-',)0.*'6,',.71;->*% ' ,1'.% +
% '1-, *0',182'12',)*' */;.6>'D-62>)'1',)*

/*' M 6 V6 ' : *-10 ' ' N X ' ,) *' 0 ' / ' M_%' (%X' 1 ' >- =, ; -* ' 0 .,62, ' -1?' */ ; . ; ?' . L,**2' 1?62' 8 > !& !' ,*-6 */ ; . 1' < * ?=) ?X% ' ,,1 ' .%' +%

6 -%' **' !

6 -6' M : *D%' ; (1' *=,%' & % ' +%' -%' 6C' =07 ' 6=675X' 6' >12, -6>, *0' 1-' >1--; =, ' 1-?' M ')-12%' ' SX' 1 ',) *' 26 ?*' ' M_%' +%X%

6 -D - , *. %' **' + # $ ' ' 8 ' !

6 -* ? 1 2 ? %' **' 8 !

0 - 0 6' M : *D%' ' (1' ' + : *=,%' 6=70 6' + ' -%' ' 1 % T B1. *=) ; . ' 0=76-1, T %' -%' & %1 1' & ' + ' K ' T' ; /5%' ' 81' 6' .12' 1 ' < 6) 1/ ' 12** 1 ' 1 ; -' ? *2' 1 '5 -*6, ' 6? *' 1-' ,) * -' 8 .^ 01? ' D ; , ' 8) 1' 8 *-*' *L>*//*0' D ' 1/1?12' M ' 25.' + N X%' % %' 62, *' %' ,)62 ',) *' -. , ' 1 ',) *' 1 ; -' .' >6//*0' II,)*' [-6>) , * I D ; , ' , ' .' ; 2>*-, 6 2' 8) *,) *-' ,) *' 0*. 526, 12' *L, *20.', 1' 1,) *-.%' 2' ')-12%' ' S') 18 *+*-' ,) *' .6 ? *' 1 ; -' 26 ? *.' 1>>; -' 656 2' 6.' .12.' 1 ' U*-6>) J' 1 ',) *' 5-*6, ' 6? / ' 1 ') 6-*[' 2',) *', - D*' 1 ' B ; 06) ' 8 ,) ',) *' ./ 5) , ' 0 / *-*2>*',) 6, ' 6-06J' 6=^ =*6-.' 6.' 6-6%J' ( ) *' 0*2, , ' 1 ',) *. *' =*-.12.' 8 ,) ' ,) 1. *' 2' ' 25.' +') 6.' D**2' 5-*6, / ' 0*D6, *0' M. **',) *' 6-5 ; ? *2, .' 12' D1,) ' . 0*.' 2' ; -- 25, 12 ' ' K SCQXT' D ; , ' ,) *-*' >6221, ' D*' ? ; >) ' -*6.126D/*' 01 ; D, ' ,) 6, ' ,) * ' 6-*' ,) *' .6 ? *' M < 1+*-. ') + ' 2 ! ' =% KN XT' 6/,) 1 ; 5) ' * / 6-5 ; * . ',) 6, ' 21,) 25' >62' D*' =-1+*0' -1 ? ',) *' ? *-*' 0*2, , ' 1 ',) *' 26 ? *.' I1N "' !' ' " ! ' =% S X%' ( ) *-*' .' 21,) 25', 1' . ; ==1-, ' ,) *' B*8 .) ', -60 , 12' M 2' ,) *' $ ' , ' 5 " 8' ,) 6, ' ,) * ' =-1=) *. *0' 0 ; - 25' ,) *' 5E =, 62' D12065*% *>'

M %X' ' 5-*6, ' 2 ; ? D*-' 1 ' : *D-% < % -*60' 6-06' 2') -12% M 6+ 0.12 ' # ! ' - ' =% K X' 2' 8) >) ' ,) * ' 3' 6-*' 1//18*0' D ' ,) *' (6-5 ; ? ' 620',) *' - 6>' 620' -6D >' +*-. 12.% **' !

MK%X' ( ) *' 81-0' .12J' .' ; .*0' 2' : *D-*8' .1' 1 , *2' , 1' 0*21, *' 6' 0*. >*2062, ' D* 120',) *' -. , ' 5*2*-6, 12',) 6, ' 21' . , -*. ' >62' D*' /6 0' 12',) *' .12' 1 ' < 6) 1/J' 6. ' >1?^ =6-*0' 8 ,) ',) *' .12' 1 ' U*-6>) %J' 1-' 2. , 62>*' 1 ',) *' +*' .12. ' 1 ' B ; 06) J' 2' ') -12% +' ',) *' -. , ' 86. ' -*6// ' B ; 06) . ' .12',) *' . *>120') . ' 5-620.12 ',) *',) -0') . ' 5-*6, ' 5-620.12 ' 620',) *' 1 ; -,) ' 620' ,) ' ., // /6, *-' 0*. >*2062, .% *. 0*. ' ,) *-*' . ' .1?*' =/6 ; . D / , ' 2' ,) *' >12%*>, ; -*',) 6, ' ' ; ' " P' ? *62. ' ' .12. ' 1 ',) *' >) 1 -J' M>1?=' 06 ; 5) , *-. ' 1 ' ? ; . > J' >>/*. % L X' 2' 8) >) ' >6. *',) *' ? *2' 2' _ ; *., 12' 8 *-*',) *' 6?1 ; ' ? ; . ^ > 62. ', 81' 1 ' 8) 1?' 6-*' 26 ? *0' 2',) *', ./*. ', 1' .6/? . ' LLL+ ' 620' LLL L% ' ? ,) ' .% +% **' ' !

6 -06 -%' **' 0 ' !

6 - >' + (' 1 -' + (12/ ' 2' =/ ; - T (6/? % + T *=,% =; >-1 T ; /5% ' " .' -*20*-*0' 0-6? J' _% +%h ' [-6' ' SRT' + ' K T' *) %' + ' ' KT' ')-12% LL L ' X ' 6' 51/0' >1 2' M d *21=) %' & ! ' ' QT' B ' ' RT' + ' S' T' %! ' K ' T' A / 62 ' ' KKT' /; , 6->) ' & ! KKX' >; --*2, ' 2' 6/*. , 2*' 2',) *' =*- 10' 6 , *-',) *' -*, ; -2' -1?' 6D /12 ' 620' ; . *0' *+*2' 1-',) *' (*? =/*' , 6L' M < .) 26 ' $" + ! ' X% ( ) 6, ' ,) *' : *D-*8' 81-0' . ' 2',) *' D/*' ,) *' 26 ? *' 1 ' 6' >1 2' 620' 21, ' 1 ' 6' 8 * 5) , ' 6==*6-.' -1?' , .' . ? /6- , ' , 1',) *' 4-**9' 6==*//6, 12' 1 ',) *' 12/ ' = *>*' , 1' 8) >) ' , ' >1 ; /0' -* *-' M . 6.' 2' -6, 1. D ' T' ,) *2% L ' SN X% ( ) *' ? *2, 12. ' 2' [-6' 620' *) %' .) 18',) 6, ' ,) *' >1 2' 86. ' > ; --*2, ' 2' 6/*. , 2*' ; 20*-' 9C $ ' 620' -C' ,6L*-L*. ' 125 ? 62 ; . % ' , ') *. *' , ? *. ' ,) *-*' 86. ' 21' /6-5*' . . ; *' 1 '51/0' ? 12* ' *L>*=, ' D ' ,) *' *-. 62' 9 25. ' 8 D17, -; >9',) *' >1 2' 92182', 1',) *' 4-**9. ' 6. ' ,) *' =' *%' & % ' 1-' . ? =/ ' 1 %) ' ( ) *' 06-> . ' 8) >) ') 6+*' D**2' 0 . >1+*-*0' 6-*',) >9' = *>*. ' 1 '=; -*' 51/0' M. *' P ' % ! ' !%!' SQ' . %X ' 0 '6->) 6 >' ., /*' D*6- 25' 12',) *' =D+*-. 1',) *' 5 ; -*' 1 '6' 9 25' 8 ,) ' D18 620' A6+*/ 2 ' 1-' D18' 620' 0655*-' M /; , 6->) ' & ! ' K T' 5*. /6 ; . ' ! ' &% %"!' X ' 620' 12',) *' -*+*-. *' 62' -C' -*5 ; /6- 2>; . *' ._ ; 6-*%% ( ) * -' ; // 8 * 5) , ' .' 6D1 ; , ' KQ' 5-6 2. ', -1 %

-5 62' 41/0' 620' /+-' 6- >. % ' -1 ?' , /*' - , .) ' < ; . *; ?% >, ; 6/' . [*%

1-' 6' / , , /*' /*. ' . ' ,) 62',) 6, ' 1 '62' ,, >' (' 620' .' ?1. , ' =-1D6D/ ' ,) 6, ' 1 '62' *6-/ ' 0 0-6>D ?' 1 ',) *') 1*2 > 62' , 6/*2, ' M. **' 1>9) ' ! ' 2 "!' =% N X% ( ) > ' ? ; . ') 6+*' D**2' ,) *' >1 ? ? 12' 51/0' = *>*. ' 1 ',) *' *-^ . 62' *?= -*% ( ) *' 1/0*. ' ,) 6, ' 6-*' 1 , *2' . **2' >6221, ' D*' -* *--*0', 1' 62' *6-/ *-' =*- 10',) 62' 6D1 ; ' ,) *' , ? *' 1 ' -; . ' 6 ? DA . *. ' 1-' 6- ; . ' : .,6. = . ' 620' , ' .% ?1-*' =-1D6D/*' ,) 6, ' ,) * ' 6-*' 21, ' 62, *- 1-' , 1',) *' *-* 52' 1 ' d *-L*. ' 1-' *+*2', 1',) 6, ' 1 ' -, 6L*-L*. ' 125 ? 62 ; . % ( ) *-*' 6-* ') 18*+*-' 51/0' = *>*. ' 1 ' 6D1 ; ' , / *' .6 ? *' 8 * 5), ' D ; , ' 1 ' 62' 1/0*-' ., /*' 1 ; 20' 6D1 ; ' , ' 6 0 . ' 8) >) ' >6221, ' D*' 01 ; D, *0', 1' D*' * ,) *-' 1 ' -1*. ; . ' 1-' 1 ' 62' *6-/ *-' 0 62' 9 25' 2',) *' 1-? *-' >6. *',) *' =1 C' ' I % 8' 1 ',) *' 4-**9. ' M 68/2.12 ' # ' ' S X% ' . ' ,) *-* A7-*' =-1D6D/*' 6. ' ,) *. *' 1//18*0' 6' *-. 62' . , 6206-0 ' ,) 6, ' 06- >. ' 8 *-*' . , - ; >9' ; 20*-' 5 $ ' 1-') . ' 2*6-*-' . ; >>*. . 1-. % ( ) *' 1- 5 2' 1 ',) . ' >1 2' . ' 6, , - D ; , *0' D ',) *' 4-**9. ' 1' 6' 6- ; . ' . ; ==1. *0' D ',) *' ? 10*-2. ', 1' D*' * ,) *-' 6- ; . ' ,) *' < *0*' 1-' 6- ; . ' : .^ , 6. = . ' M. **' >) 1/% 60' - . , 1=) % 6 ! =% T' : *25C' . , *2D*-5% & " ' ' ! =% X% ( ) 6, ' ,) *' 4-**9. ' 0*- +*0',) * -' 0 . , 2>, +*' 6==*//6, 12' 1 ',) *' >1 2' -1?' ,) . ' =-1=*-' 26 ? *' >6221, ' D*' 01 ; D, *0T' D ; , ' ,) *' 0 *-^ *2>*' 1 ',) *' : *D-*8' 1-? . ' 1 ',) *' 1-? *-' -1?' ,) 6, ' 1 ' ,) *' /6, , *-' -*20*-', / . ' 6' _ ; *. , 126D/*' 0*- +6^ , 12% 4*. *2 ; . ; 55*. , ;) *' 62> *2, ' *-. 62' 81-0' ' ' I ! ' +%X ' 9 25TJ' D ; , ' M 2') . ' -+ ! . % +%X' 2>/ 2*. ', 1' >122*>, ',) *' : *D-*8' 26 ? *. ' 1 ',) *' >1 2' 620' ,) 6, ' 1 ' 6- ; . % 2' 6+1-' 1 ',) *' 0*- +6, 12' -1?' ' ' , ' ? ; . , ' D*' 21, *0',) 6, ' ,) *' 5 ; -*' D1-2*' D ' ,) *. *' >1 2. ' . 21, ' ,) 6, ' 1 '62 ' 12*' 9 25' D ; , ' 1 ',) *' 9 25' 1 ' *-. 6' 2' 62' 6D. , -6>, ' . *2. *' 620',) 6, ' 12',) *' . 6 ? *' =- 2> =/*' ,) *' >1 2. ' 81 ; /0' -6,) *-' D*' >6//*0' -*56/' >1 2. ',) 62' 06-^ >. % ( ) *' . /+*-' 06- >. ' ? *2, 12*0' D ' /; , 6->) ' I ! X' 6-*' =-1D6D/ ' ,) *' *-. 62' . /+*-' = *>*. ' . ? /6-' 2' , =*' , 1',) *' 51/0' 06- >. ' D ; , ' 8 * 5) 25' 6' 0-6>) ? ' 620' 6',) -0' 1 ',) *' 76 ? *' . , 6206-0% ' ' ? ,) ' . % +% M **' : 6-*2D*-5 ' 2' $51/ 2 ' -" ! LL+ T >9) */ ' ' =' ! ' ! ' S ' ._ %T% 10*2 ' ' ' M 6- > . ' , *D% RT' & *. . */ 25 ' , ! ' ! ? . , % KR ' =% K ' ._ %X' **' #' ' ! !

6 - ; . ' M : *D-*8' ' (" ' [-6' + ' T *) % L ' KKT' 62% L ' T' L ' T' : 65% ' T' ' T' U*>) % ' ' T' + ' T' 66/0% ,) *' .6 ? *' [-6' + ' K T' + ' C T' 62% + ' N T' + ' CKQT' 4-% & % ' ' .0-% ' N T' ' CQT' + ' T' + ' K ' S ' NT' + ' ' S ' KN ' N T' + ' ' ' T' ' < 6>*% %/T' L ' T' ,-6D1' & %# *) * ' L+ ' =% Q T' ,*. 6. ' & % . 8' ,) *' 26 ? *' 1 ' . *+*-6/' 9 25. I' 1 ' *-. 6 ' ,) -**' 1 ' 8) 1?' 6-*' ? *2, 12*0' 2',) *' % (' 620',) *' =1>- 7=D6% I' ( ) *' 1- 5 26/' 1-?' 1 ',) *' 26 ? *' , 1' 8) >) ' ,) *' : *D-*8' 620' 4-**9' 81-0. ' 6>*' 12/ ' 6=^ =-1L ? 6, 12. ') 6. ' D**2' -*60' D ' 4-1, * *20' 2' ,) *' >; ^ 2* 1-?' 2. >- =, 12. ' 1 ' *-. *=1/ . ' 6. ' ' + +' 1-' ' * +' M : **-*2 . ' - ' ' N X' 620' **-' 6. ' ' =' "' I & ! ' !' . ! QNQ' 1% X% : *-101, ; . ' 6. ^ . 52. ', 1',) *' 26 ? *',) *' .*2. *' 1 ' 1-' 6>>1-0 25', 1 621,) *-' -*60 25 ' M+ ' RQX' =-1D6D/ ' ? *62 25

% & S % &
? 2*0' ,) 6,')*' 8 6.' ,) *' .12' 1 ' 6D122*0 ' ,) *' 6>, ; 6// ' /. ' 6>>1 ; 2,*0' 1-' D ' ,) *') .,1- ' 620' ,) *' /*=-*. *2,-TC
/6..' 9 25' 1 ',) *' 6D /12 62' / 2*% **' : [[2 % , 12.' 1 ',) *' =-1=)*,.% ( ) *' 60+*-.6- *.' 8*69*2*0'
>120/ ' ,) .' D 7=1,). .' .*,.' ;=' 6' < *01C *-. 62' ,) *') 620.' 1 ',) *' =*1=/*' 1 'B ; 06) ' 620' ,-1 ; D/*0' ,) *?'
=- 2>*' 6,' 6D /12' 0 ; - 25' ,) *' +*- ' , ?*' 6.. 52*0' D ' 2' D ; /0 25 ' 620') -*0' >1 ; 2.*//1-.' 656 2..' ,) *?' ,1'
8*//C6==-1+*0') .,1- ' ,1' 6' 26, +*' .1+*-* 52 ' 620' *+*2' -; .,-6,*' ,) *-'=;-=1.*' 6// ,) *' 06 .' 1 ' -; . ' *+*2' ;2^
,) *2' /*6+*.' 6' D/629' 1 ' * 5),**2' *6-.' /7, 8 **2') ?' , /' ,) *' -* 52' 1 ' 6- ; . J' M [-6' + ' X% *. 0*.' ?1^
620' -; . ' 8) 1?' 62 */ .') .,1- ' 620' =-1=)*> *.' *+ ^ /*., 25' ,) *' D ; /0*-.' 2' ,) *' -' 7+1-9' ,) *' =-*+6 /*0' D '
0*2,/ ' ?69*' ? ?*0 6,*/ ' >12, 5 ; 1 ; .% **' # ! ,) *' -' ?6>) 26, 12.' 6,' ,) *' >1 ; -,' 1 ' -; . ' 1-' 1 ') .'
N% ( ) *-*' -*?6 2. ' ,) *-* 1-*' D ; ' 12*' 1,) *-' + *8 >*-1 ',1' D- 25' ,' ,1' 6' .,620C. , // ' D ' 2,*-=1. 25' 1 ^
8) >)' 86.' 601=,*0' D ' B1.*=) ; .' I& 1' L ' X' 620' > 6/1D..,6>/*. ' .,1== 25',) *' 5-62,.' - ?',) *' -1 6/,.-*6.^
) 6.' D 7 2' . ; ==1-,*0' D ' ?62 ' -*>*2,'>- , >.' M *-.) 1/0, ' ; - ' M+ ' X7 620' ,) *' . ; ==/ ' 1 ' ?6,*- 6/.' -1?' ,) *' 1-^
12' *25*-9*' : +*-2 >9 ' : *25.,*2D*-5 ' ; D*-/*2 ' *.,' 620' ,) *' _ ; 6-- ' M ' X% 1',) *' =*1=/*' 8*-*' 0 .^
620' 1,) *-.X% >>1-0 25' ,1') . ' ,) *' 6- ; . J' 2' >1 ; -65*0a' ,) * ' .6 0 ' ( ) *' , ?*' . ' 21,' >1?*' 1-' ,) *'
_ ; *., 12' 86.' ' ,) # .12% 620' . ; >>*..1-' 1 ' X' 620') 1 ; .*' 1 ',) *' 1-0' ,1' D*' D ; /, J' 620' , ; -2*0' ,1' ,) *' >1?^
.,A 65*. ' 8) 1' .' >1?? 12/ ' -*56-0*0' 6.' ,) *' /6.,' 9 25' =/*, 12' 1 ',) *' -' 182') 1) ; .*.' 620' ,) *' , // 25' 1 ' ,) *' -'
1 ' <*0 6% ' .' . ; ==1.*0' ,) 6,' ,) *' -* 52' 1 ',) . ' 6LC' /620.'M : 6550' 'NX% ( ) .' .' 2,*// 5 D/*' 12' ,) *' . ; ==1^
6-*.') 6.' D**2' 2*5/*>,*0' D ') . ,1- 62.' -1?' ,) *' . , 12' 1 '62' 2,*-+6/ 1 ' ,**2' 1-'. L,**2' *6-. ' 0 ; - 25'
,) 6,' ,) -1 ; 5) ') .' 201/*2>*' 620' / ; L ; - ') *' */0*0' ,) *' 8) >) ') *-*') 6+ 25' D**2' 21' 0*>-**' . . ; *0' ,1' . ,1=' ,'
-*6/*L*-> .*' 1 '=18*-',1') .' 2*=)*8' 77-; . ' 8) 1' ?6-^) *' D ; /0*-.' >1 ; /0' 6//*5*' 6,' ,) *', ?*' 1 ' -' -*. ; ?=, 12'
- *0') .' 06 ; 5), *-' 620' .1' 6 ,*-') .' 0*6,) ' -*>* +*0' ,) *' ' 2>*' ,) 6,', ?*' MK0' 1 ' -; . X ' *+*2' ; 2, / 218') 6,) '
>-182' DA' 0 -*>,' . ; >>*.. 12' Md*2% %f ' 'KT' +' ,'D**2' 2' D ; /0 25' 620' *,' . ' 21,' 2 .) *0J' M [-6'
T + RX% ' . ' - ; *' ,) 7' ,) *' 12/ ' 0 -*>,'*+ 0*2>*' 1-' ,) *' *L .,*2>*' 1 '6' .*>120' A 76L6-*.' . ' ,) 6,' 1 ' d*2^ ' SX% ; ,' 2' 21' .*2.*' >1 ; /0' ,) *' (*?=/*' D*' .6 0' ,1'
1=) 12 . '=A*06515 >' -1?62>*% ( ) *' , /*' -; . ' \ $C') 6+*' 'D**2' 2' D ; /0 25J' ,) -1 ; 5) ' ,) *' *2, -*' -* 52.' 1 '
; .h' 6L6- . J' 8) >) ') 6.' D**2' _ ; 1,*0' -1?' 62' 2.>- =^ 6?D .*.' 6- ; . ' d*-L*.' 620' -,6L*-L*.' d ,) ,*-*' , 12' M ; D*-/*2' ' ';% ! ' , * " 1'=% QX' . ' * ,) *-' .' 21' ,*. , ?12 ' ,1' ,) *' 6>, ' 21-' 62 ' ?*62.' 1 '6>>1 ; 2,^
6' 6/.*' -*60 25' 1-' >*-,6 2) ' 6' 6/.*' ,-62./6, 12' M *^ 25' 1-' ,% 56 2 ' ,) *' =*-.12.' 600-*..*0' D ' : 6556 '
D ;) -' ? "J&'$ ' ! ' ; ! =%K '2% XT' 620' ,) *' =6..65*' 6-*' ,) *' -*. 0 ; *1 ' ,) *' =*1=/*J' 8) 1' >6?*' -1?' 6D ^
1 ' 7.>) / ; .' I '=% SSX' .' 21,' +*- '>12. . ,*2,' 8 ,) ' /12' 8 ,) ' U*-; DD6D*/ 620' B7D ; 6 ' .1?*' 1 ' 8) 1?') 60'
,) *') 6-6>,*-' 6.. 52*0' ,1' A76L6-*.' % 2' ,) *' 1,) *-' .**2' ,) *' ,7,') 1 ; .*' 2' ,.' 5/1- ' M ' K' NX' *' *% 8) 1-'
) 620' : *-101, ; .' *L=-*../ ' .,6,*.' ,) 6,' `` ., 65*.J' ? 5), ' D*' .1?*' Q ' *6-.' 1/0' 12' ,) *' ; . ; 6/' + *8 ' D ; ' 12'
86.' - *' /6..' 9 25' 1 ',) *' <>0*.' ,) 6,') *' 86.' >12_ ; *-*0' ,) *' 1,) *-' ? ; .') 6+*' D**2' ' 6,' ,) *' /*6..% ( ) *'
D ' -; . ' 620' ,) 6,') *' 0 *0' 8 ,) 1 ; ' /*6+ 25' 62 ' ?6/*' =-1=) *' ; -,) *-' 60?12 .) *.') .' >1 ; 2, ?*2' ,) 6,' ,) *'
. . ; *' M : *-10' ' N R K ' . %XT' 620' -; . ' 6==*6-.' D/*8.' 8) >)' *6-' D ' *6-' D/ 5), .' 0-1 ; 5), . ' _20' ? /0*8.' 8) >)' *6-' D ' *6-'
6.') *' ? ?*0 6,*' . ; >>*..1-' 1 ' 7' ., 65*. I 2' ,) *' 0 .6==1 2, *0' ,) *' -' /6D1-.' 2' , *' */0.' 8*-*' ,) *' >) 6.^
) -12 >/*' 1 ' ; .*D ; .' I + '60' % T' 2>*//% =% , .*?*2,'1',) *' -' 862,'1' - ,) ' 2' /*,, 25' ,) *' D1 ; .*' 1 '
QQT' >1?=% */ 620' -6512' X% ( ) *-*' 1DA*>, 12. ' 410' / *' 86.,*' 8) /*' ,) *' 08*/, ' 2' ,) *' -' '>* /*0'
) 18*+*-' 6-*' 21,' 2. ; =*-6D/*' 620' ? ; .,' 5 +*' 86' D*^) 1 ; .*. J' M ' C XT' .1' /125' 6. ') *' W) 60' D**2' 5 ; /, ' 1 '
1-*' ,) *' ?62 *. ' *L 5*2> *.' 1 ' ,) *' >6.*' M.**' *-,) 1/0, ' ,) .' 2*5/*>, ' .1' /125') 60' ,) *' D**2' + . ,*0' 8 ,) ' ,) .'
6D/*' *L>; -. ; .' 12' ,) *' . ; DA*>, ' ; ') .' ' / ' =; 2 .) ?*2, % 2' ,) *' 12*' . ; ==1. , 12' ,) .' .,6,*' 1 '
' !(8f & *' ?6 '600' ,) 6, '62' ?=1-,62, '>)-121/15 >6/ 2' ,) *' 25') .' 60' 6. ,*0' -1?' , 8*/+*' ,1' ,**2' *6-.' 6, '?1.,' 1
0 >;/, ' .' D*.' 60A ; .,*0' D ' 6. . ; ? 25' ,) *' *L . *; -*0' ,10?65 2*' ,) 6,') *' >; -.*'
620' -* 52' 1 ' ,) .' 6L6-*.' M / 2,12 .' @ '# 2 ' 12') ,) *' 1 ') 60' D**2' 12' ,) *' /620' 1-' ,) -**' . ; >>*.. +*' 5*2*-6, 12. '
=% N ' . _ % % **' # ! 62' *2, -*' >*2, ; -AW 6. , / ' 2' ,) *' .6?*' .*>120' *6-'
K% ll 6- ; . ' 9 25' 1 ' *-. 6 J' 2' 8) 1.*' .*>120' 16-' 6- ; . ' U**D6- 6) ' 0 ., 2>, / ' 2, ?6, *.' 8) 6, ' /*25,) '
,) *' D ; /0 25' 1 ' ,) *' (*?=/*' 86.' -*. ; ?*0 ' 620' >1?^ 1 ',) *') 60' % 6=.*0' -1?' ,) *' 0*. , -; >, 12' 1 ' ,) *' -. ,
=/*, *0' 2') . ' . L,) 'M [-6' + ' 'K T' + ' X' ; 20*-' ,) *' (*?=/*7 I I',) -**. >1-*' 620', *2' *6-. J' M ' KX% 1' 2'
=-1=) *. 25' 1 ' : 6556 ' 620' U**D6- 6) ' .' ; 20*-.,110' + ' ?*2, 12' .' ?60*' 1 '6' =*- 10' 1 ' ' *6-. ' 0 ; - 25'
D ' ?1.,' 8-.,*-. ' 62> *2,' 620' ?10*?' ,1' D*' 6- ; . ' 8) >)' ,) *' =*1=/*') 60' ' 6.,*0' 620' ?1 ; -2*0' 2' ,) *' ,) '
.12' 1 ' : .,6.=*. ' 8) 1.*' -* 52' 2' ,) *' 6212' *L,*20.' 620' .*+*2,) ' ?12,) %J' ( ) *' +*2, .' >1? ?*?1-6,*0' D '
-1?' % % K ',1' Q % >6/ 5*-') 18*+*-' ?69*.') ?' ,) .1.*' 6.,.' 8*-*' ,) *' 0*. , -; >, 12' 1 ' ,) *' (*?=/*' 2' ,) *'
6- ; .' 1,) ; .' M % % K C X' 620' D .' + *8') 6.' D**2' ,) ' 620' ,) *' ? ; -0*-' 1 '4*06/ 6) ' 2' ,) *' .*+*2,) ' ?12,) '
60+1>6,*0' D ' ,) *' /6,*' -% < // I - " ' 6 ' & = 1 ' ,) *' .6?*' *6 % -1?' ,) 6, ' 7*6-' , 1' ,) *' .*>120' 1 '
' ' " ' ; " ' ' $ 1' *, >% ' 6- ; . ' 6-*' 6/?1. , ' '21,' *L6,/ ' ' *6-.% (1' ,) *'
Q K' =% NC S X' 8) 1' -* *-.' 1-' ; -,) *-' 6-5 ; ?*2, .' , 1' >1--*.=120 25' *6-' 1 ' 6- ; .' ' ,) *' 2, *-+6/' .' ?1-*'
: 1, $ 5*-' I ' ' 1' =% C X% *^ ,) 62' S ' *6-. ' 620' ,) *' ?*2, 12' 1 ' ,) 1.*' ' *6-. J' .' _ ; , *' ; 2 2, *// 5 D/*' ' ,) 6, ' D*' ,) *' *=1>) ' 1 ' U*>) 6C'
1-*' 8*' *L6? 2*' ,) *' 5-1 ; 20. ' 12' +V) >) ' ,) .' >12>/ ; . 12' % -*. , . ' , ' 8 // D*' >12+*2 *2, ' , 1' >12. 0*-' ,) *' 0 >; /, *.' - 6) .' =-1=) *> *.' 1 '
8 ,) ' 8) >)' , ' .' 6, , *20*0% 8) ' 8) >)' , ' .' : 6556 ' 620' U**D6- 6) ' 620' ,) *' -. , ' +*' >) 6=, *-.' 1 %
7*-; DD6D*/ ' .12' 1 ') *6/, */ ' 6.' =- 2>*' 1 ' ,) *') 1 ; .*' [-6' 6-*' 81-,) ' 62 ,) 25' 6.' .*., ?12 ' ,) *' .*>120'
1 ' 6+ 0 ' 620' B*.) ; 6 ' .12% 1 'B1[6069 ' 6.') 5) C=- *. , ' *6-' 1 ' 6- ; .' ' ,) *' 2, *-+6/' .' ?1-*' .,6, *0a' % 2' [-6' + ' D*, 8**2' ,) *' *0 >, ' 1 ' -; . ' 1-'
) *6 0*0') *' -. , ' >1/12 ' 1 ' *L /*. ' 6D /12' 2' ,) *' 6-*' ,) *' -*. ; -2' 1 ' ,) *' *L /*. ' 620' -*D ; /0 25' 1 ' ,) *' (*?=/*'
0-. , ' *6-' 1 ' -; . ' M [-6' , , ' KX' 6, ' 8) >)' , ? *' 2* ,) *-' 620',) 6, ' 1 ' 6- ; .' 1-' ,) *' >1?=/*, 12' 1 ' ,) *' 81-9' 6 , *-'
>62') 6+*' D**2' /*. . ' ,) 62' , 8*2, ' *6-.' 1/0% ' ,) *. *' ..' 0 .>12, 2; 62>*' , 8 1' *-. 62' 9 25.' 6-*' 26?*0' >C'
.6?*' , 81' =*-.12.' ,) *' 81-9' 1 '-*D ; /0 25' ,) *' (*?=/*') 6.) +*-1.) ' 620' -, 6>) .) 6.) , 6 ' 8) >)' ,) *' 26?*.' 12'
86.'-*. ; ?*0' 620' >1?=/*, *0' 6 , *-' , .' . ; .=*2. 12% 18' .,) *' 0*>-**' 1 ' -; . ' 620' 21, ' ?1-*' ,) 62' ' *6-.' -1?'
-1?' ,) *' -. , '77*6-%1 ' -; . ' 2% ,) *' D/ >6/ -*>912 25' 620' ,) 6, ' 1 ' 6- ; .' 1-' ,) *' >1?=/*, 12' 1 ' ,) *' 81-9' 6 , *-'
M % % NSX' , 1' ,) *' .*>120' 1 ' 6- ; .' 1,) ; .' M % % KNX' ..' 0 .>12, 2; 62>*' , 8 1' *-. 62' 9 25.' 6-*' 26?*0' >C'
6-*' N' *6-.T' .1' ,) 6, ' ') *' D*' ,) *' 6- ; .' 1 ' ,) .') .^) 6.) +*-1.) ' 620' -, 6>) .) 6.) , 6 ' 8) >)' ,) *' 26?*.' 12'
,1- % D1,) ' U*-6DD6D*/ 620' B*.) ; 6' ? ; .' ,) *2') 6+*' ,) *' U*>20 >' ?12 ; ?*2, .' 8 // 21, ' ?=*-.? , ' . ' , 1' 6==/ ' , 1'
-*6>) *0C,) *' 65*' 1 ' N ' *6-.' 6, ' /*6., % ( ) .' .' 2>-*0^ 1 ',) *') ., 1- ' 620' ,) *' >12, *?=1-6- ' =-1=) *, .' 6.' , 1' 6' 1,) *-' 9 25.' ,) 62' d*-L*.' 620') .' .12J' M -% < // ! ' '
D/*' '21,' 2' , .*/ ' >*-, 6 2/ ' ; 20*-' ,) *' *2, -*' . /*2>*' N' 8! ( ) *' *-. 62') ., 1- ' 6.' -*/6, *0' D ' ,) *'
1 ',) *') ., 1- ' 620' ,) *' >12, *?=1-6- ' =-1=) *, .' 6.' , 1' 6' 4-**9.' 620' ,) *' ., -121? >6/ 6212' 5 +*',) -**' 26?*.'
-*.' , 1' *L, -61-0 26- % <1-*1+*-' ,) 6, ' ,) *' 81-9' 1 ' 2' .' ; >>*.. 12' d*-L*.' -, 6L*-L*.' ' 6- ; .' [-6'
-*D ; /0 25' ,) *' (*?=/*' .) 1 ; /0') 6+*' D**2' 6D62012*0' 2' / 9*' ?622*-' ,) -**' >) 6.) +*-1.) ' -, 6>/ .) 6.D, 6'
1-' 6' >*2, ; - ' 620' ?1-*' .' .>6-> */ ' >12>* +6D/*% ,.' 620' 6-* 6+*.) % ' ,) 1.*' 8) 1') 1/0' ,) .' /6.., ' 1' D*'
.; .=*2. 12' 0 ; - 25' ,**2' 1-' . L, **2' *6-.' .' . ; > *2, ^ 6- ; .' 12' 1 ' : ., 6.=*. ' ,) *' -. ' , 81' 6-*' >1?? 12/

1==1.*0',1'D*' 6?D .*.' 620',)*' ?=1.,1-' ?*-0 .' 8)1?'B;.., 2'M 'RX'>6//.' -1=6.,6' ,*. 6.'I '"' !' X' =)*20606,*. ' 8)1' -* 52*0' ;20*-' ,)*' 26?*' 1' 6?D .*. .' 1;25*-'D-1,)*-(62 C1L6->*.'M.** 86/0' ? "!' 'N!' !'+'QB'620' QX% ;.'218)*-*'12' ?12;^ ?*2,.' .' 6?D .*.'>6//*0').) 6-.)6'1-' ?*-0 .' -C' , 96.)6.D6T',)*' 1-?*-' .'>12.,62,/ ' 6D;A 6'M *-.%X' 6-6D;0. 6' M 6D%X' *?D6,)' M) *-15/%XT',)*' /6,,*-' 6-, 6' M *-.%X' 6-0. A6' M 6D%X% <1-*1+*-' 6.' -7 ,6>).)6.),6'M1-' '.)6.),X'/.*8)*-*' 2' [-6'620' *)% .' >12.,62,/ ' -,6L*-L*. ' 620',' .>6->*/ '60? ,.' 1 '6 01;D,',)6,' >)6.)+*-1.)' 2' .,)*-' .' d*-L*.' ,' 81;/0' D*' .,-625*' ',)*.*',81' 26?*.' 8*-*')*-1' 6==/ *0',1' 1,)*-' ; ,*'0 *-*2,'9 25.%

()*',-;*' *L=/626, 12' 1',) .' 0 >;/, 7' =-1=1.*0' /125' 651' D ' <-% :18*.' 620' 601=,*0' D ' -% / 6/*.')6.' D**2' -*>*2,/ ' =;,' 1-86-0' D ' *-,)*6;' M 2',)*') / =1 !' !' # !' 12' [-6' *)%' 620' .,)*-' QSK'=%SRC NX' () .' 8-,*-')60' 1-?*-/ ';=)*/0',)*' ?1-*';.;6/+ *8'I1; '/ ' '? "!' ' HE'=' NRSXT' .1')60' 6) 25*-'M 2',)*' $ ' !') + 1' Q '=% K X'8)1'M % QN '=%Q X'6D62012.' .' 1-',)*' 1.)*-% M **'6A.1' >);/,[' ' ? 1' 2',)*'$ ' !') !' QNN I=%SK '620' ;2.*2';+(8' .' .'>/*6-',)6,' 6.' 2' + 'K ',)*'26--6, +*'-*.;-2.',1',)*'=1 2,'6,'8)>)' .' .,110' 2' +*-.*' T' 2',)*' 2,*-=1.*0'=1-, 12' .' * .)*-' ' +',1',?*.' D* 1-*' 6- ;.' 1-' .)*' =;-=1.*' 1' .;==/ 25' 1? .,*0' ?6,.*-' 1-' ',1' -*>1-0' .)*' .;>>*.. ;/ ?6>) 26, 1"7' 1',)*'=*1=/*' 1',)*' /620' ;20*-' .;D.*.;*2,' 9 25.' *-L*.' 620' -,6L*-L*.' RW ;.' 21,) 25'2',)*' >12,*2,.' 1' +*-%SCKN' 2, ?6,*.' 6' -*+*-, 25',1'62'*6-/ *-', ?*% ,*-'-*60 25'1' 6- ;.' 8*'26,;-6// ',69*' 1-'5-62,*0',)6,')6.;*-;.'620' -^ ,6L*-L*.' 6-*' /6,*-',)62')*% ,' 6==*6-.',)6,',)*' RW 0^ +*-.6-*.')60'.;>>**0*0'2') 20*-25',)*' D; /0 25'1' ,)*' (*?=/*' ,//',)*' .*>120' *6-'1' 6- ;.% 2',)*'D*^ 5 22 25'1',)*' 2*L,'-* 52'Md*-ML*.XC',)*' 8-1,*' 62' 6>>;.6, 12 J',)*'=;2=1-,'620' ..;*'1'8)>)'6-*' 21,'-*C 3 >1-0*O% 2',)*' 1//18 25'-* 52' ?*2, 12' .' ?60*' 1' 621,)*-'/*,,*-' 600-*..*0',1' -,6L*-L*.' ,' >12,*2,.' 21,'.=*> *0T D;,'6' .*>120'/*,,*-',1',)*' .6?*'9 25' .' 5 +*2' ',15*,/ *-'8 ,)',)*-1 6/*-*.>-=,% ,' .' -*=-*.*2,*0',1',)*'9 25',)6,',)*'B*8.'6-*' D; /0 25' ,)*'> ,'620')6+*' '.*,';=',)*'86//.',)*-*1 '62 'A1 2^ *0'M*L>6+6,*0X',)*' 1;206, 12.%J' ()*'-*.>-=,'1-0*-.' ,)6,',) .' 81-9'D*' ?60*',1'>*6.*% 1,'6'81-0' .' .6 0' 1',)*' (*?=/*% ,' ?6' 20**0' D*' 6//*5*0',)6,',)*' 86//.J' 6-*' =6-,'1' , 2,*20*0' 1-' ,.' 0* *2>*T D;,' 8 ,)',),*-' .,-6 ,*2*0'-*.1;->*.',)*' D; /0*-.' 81;/0')6-0/ '6,,*?=,' ?1-*',)62'86.' *..*2, 6/',1',)*' 6D->' ,.*/ % *. 0*.' 2',)*'-*=-*.*2,6, 12.'5 +*2'D ' :65% 7 620'U*>)%-1?',)*-'182'1D.*-+6, 12'21,) 25' ?=/*.' ,)6,'-;,*-*>*2,/ ',)*'=*1=/*')60'D**2'6>, +*/ ' *2^ 565*0' 2',)*' 81-9'1'-*D; /0 25'*,)*-'> , '86//.'1-' (*?=/*' 6.'6>>1-0 25',1',)*.*' 01>;?*2,.',)*')60' D**2' ' -,6>).)6.),6'D*',)*' ?=1.,1-' ?*-0 .' 8 ,)').'D-*'-*52'1'6' *8'?12,).T 21-'656 2'.',*=1.^ .D/*',1'-*>12>/*',)*' .,6,*?*2,' 2' [-6'+' S' ' 2>* ,)6,',?*'1+*2',2,/ 218'MK' 6-;.X')6,)' ',M,)*'(*?^ =/*X'D**2' 2,D;$0 25'620' *,' ,' .'21,' 2 .)*0 J'8 ,)' ,)*' 6..;?=,12',)6,',)*' 81-9')60'D**2'=*-*?=,1-/' .,1==*0'D' >1?7620'1' ?*-0 .% ;' ,' .' >*-,6 2' ,)6,'6,'.1?*' ,?*' D*,8***2',)*' ,)'620',)*' K ,)' *6-' 1' -,6L*-L*.' .1?*'5-*6,'-*+*-.*' D*-*/ ,)*' >1/12 .,.' 2'>12.*_;*2>*'1'8)>)' ,)*'86// 1'B*-;.6/*?' 86.' D-19*2'0182'620',)*'56,*',)*-*1'D;-2*0'8 ,)' -* J' */!' 'N'M 1-' ,'.'6D.;-0',1'?65 2*',),') .'>62' -*/6,*' .' >62' -*/6,*' 1' ?6 6)'620' ,)*'.12.'1')*?6 6)'# "P'620' +*'1,)*-.% ()6,' .',1'.6 ',)*'5*2*6/15.,')6+ 25'0*0;>*0',)*' 6+ 0 >' / 2*',)-1;5)' 1/1?12'620',)*'-*56/'.;>>*.. 12'0182' ,1',)*'-*.;/,'1',)6,'-*.>-=,'1' -,6L*-L*.' 2'+ -,;*'1' 8)>)' *D1-2%620' D ?.D6'620',)*' -' >1?=62 12.' 8*2,';=',1'B*-;.6/*?',1',)*'B*8.J'620'?60*',)*?',1' >*6.*'D' 1->*'620'=18*-J'M [-6'+'KNXT',1'>*6.*' -1?' 86// 25',)*' (*?^ =/*'8)>)' 86.')2 .)*0'/125'D* 1-*% 1' 6-' 6//' .' =/6 2'620'>12. .,*2,% ;,' 6,'+*-%K '8 ,)',)*' 81-0 , ?*J' =-1=' 6,',)*' .5=1', ?*J' 6-.*.',)*0 >;/, % & *-*',)*'/6.,'>/6;.*' 1'+*-.1'S' ;2, /',)*' -* 52'1' 6- ;.J'6D.*2,',)*'1D+1;.' ?^ =1-,'81;/0'D*',)6,'6,',)*', ?*' 8)*2',)*'1-0*-' -1?' -,6L*-L*.' >6;.*0',)*'D; /0 25'1',)*' !86// ,1'>*6.*' ,)*'81-9'1'-*D; /0 25',)*' (*?=/*' >*6.*0'6/.1'620' >12.*_;*2,/ ',)6,' 6- ;.'M+*-%K X'-* 52*0'6 ,*-')6.^ ;*-;.'620' -,6L*-L*.% ;'6.',) .'+*8'.'D*.*,'8 ,)' 2.;=*-6D/*' 0 >;/,*.' 2'8)>)'*+*-'86 ' ,' .'69*2 % *%6/9*'8)*,)*-' 6- ;.'D1'.;==1.*0,1'D*',)*' -.,' %1',)*'.*>120'1',)6,'26?*'8*'6-*' 1->*0'D ',)*'2*>*.^ . ,' 1',)*'>6.*',1'>12>/;0*',)6,'+*-%K '-* *-.'21,',1' 8)6,' ?2?*0 6,*/ '=-*>*0*.'D;',1',)*', ?*'.=19*2'1' 6D1+*'+*-' ' '620',)6,',)*'8)1/*'=6..65*' -1?'+*-% S',1'KN' .'0 5-*.. 12% :6+ 25'.)182')18',)*'?6>)^ 26, 12.'1' ,)*'=*1=/*'1',)*'/620J'=-*+6/*0' 1-6', ?*' ,1'0*/6 ',)*'-*D; /0 25'1',)*' (*?=/*',)*' 26--6, +*' D-*69.'1 '6,',)6,'=1 2,',1'21,>*',)*' -'.;D.*_;*2,'6/.1' 1-'6'8)/*'.;>>*.. ;/'=/1,, 25.'656 2.',)*'D; /0 25' 1',)*'>, '620',.'86//.% ',)*' '7 7N' '12/'-* *-,1',)*'?6,,*-' ?2?*0 6,*/ '=-*>*0 25'8*' ?;.,'>,)*-' 6>>*=,',)*'>12.*_;*2>*.'=6-,' 2>-*0 D/*'620'6D.;-0' =6-,'0 -*>,/ '1==1.*0',1'..,6,*?*2,.' 1',)*'>12,*?=1^ -6-'=-1=)*,.'1-'>)6-5*' ,'6.'62'*--1-';=12',)*'-*06>^ ,1-'1',) .'D119',)6,')*' 2.*-,*0'+*-%SCKN'2',)*'8-125' =/6>*'M.1' /* 2*-,'2',D7 1-=6,';+ '/ ' '" ' "' QNKX% 12. 0*-*0'6.%6'=-1/*=. .' ,' .'6.' *-,)*6;'-*?6-9.'/*..' ..,-9 25',)62',)6,'8)>)'1>^ ,'-.' 2' + 'd'620',)*'D; /0*0'620' 2.)*0'M,)*' (*?=/*'+[%2'S' 6-;.X % % 6>>1-0 25',1',)*'>1?^ ?620?*2,'1' +-;.'620' 6-;.' '& !'9 25' 1' *-. 6%J

K% '.*>120'-*6.12'6//*5*0'D ' -%< // MO% '<' S' 21,*X .' ,)*'>-> ;?.,62>*',)6,' 2',)*'2*L,'6.>*2,' -1?' 6DAO12',)6,'1' [-6'),?.*/'%%%,)*')>)'*' 1' 6+ 0.')1;.*'86.'-*?1+*0' -1?'U1-1D6D>/D'6,' /*6.,' 5*2*-6, 12.'%' *',),;.'=-1+ 25'%*?=1.^ .D/,'1',)*'0*.>*2062,.'6.>*2,' -1?' 6D /12'D* 25' *6-/*-',)62',)*'-* 52'2*L,',),)6,'1' 6-;.' 1,);.' + [%,)6,'1' -,6L*-L*.' %J' () .'6-5;?*2,'.'0*-+*0' -1?',)*' 6+ 0 >'5*2*6/15 ' ')-12'% RCKK'>1?^ =6-*0'8 ,)' [-6'+ 'K% ' .'6..;?*0',)6,':6,,;.)' 2'D1,)'=/6>*.' .',)*'.6?*'=*-.12'218' 2',)*'5*2*6/^ 15 ' ,' .'6//*5*0',)*-*'6->'6,'/*6.,'.L'5*2*-6, 12.'D*^ ,8**2',) .'62>*.,1-'U*-;DD6D*/'620',)' ?' *,')*'6>>1?^ =62 *0' [-6'-1?' 6D /12'1'>1;-.*',) .' .' ?=1..^ D/*' 'D*,8**2',)*'6.>*2,'1'U*-;DD6D*/'620',)6,'1' [-6'6-*'D;,' * 5),' 620'2 2,)' -1?'U*-;DD6D*/% ()*-*' .'21'6D^ .1/;,*'2*>*.., ' 1-'0*=6-, 25'-1?',)*' :*D-*8',*L,' 8)>)' .'D1,)' 2,*// 5 D/*J'620'>12. .,*2,'8 ,)',)1' >;.,1?6-'>)-121/15 % ()*'5*2*6/15 '=*-)6=.'=-1^ >**0.',);.d % U*-;DD6D*/'T K%).' >) /0-*2' <*.); '/6?'# +')*/1?,)'M..,*-X'620'+*'/1,)*-.'T N% ,)*'.12.'1',) .':6262 6)'6-*' */6,6)'620'B7.)6 6)'T ' " ' '" '% ' ' '*8*' '*8,)',)*' ,81'5-620.12.% ()*2' ,)*'.12.'1' *=)6 6)',)1' .12.'1' -262',)*'.12.'1' D60 6)',)*'.12.'1')*>)0 62 6)'T 620',)*'.12.'1')*?6 6)'# "P'620'+

: 6+*? >97U-620k‰ '6 !' ' '& ' -!' ' 'K4ST
3' : *-[*/0' ? "' ' N!'‰' ' . ' '
- % ' 'N R!' *$' &% !'N "' ' '; 9
" ' ' + "1'=‰ N‰ 2',)*' 1,)*-')620' f-6/0'
? "!' 'N!' !' 'K R' 21,*' ?69*.')*>)62 6)' .12' 1 '
: 6262 6)'620' 6,)*-' 1 ')*?6 6)' .1',)6,' : 6.,;.)' .'
1;-,)' -1?'U*-;DD6D*/7 620'.1' *-,)D6;' 2',)*') !'
/ !'D !'12' ')-12‰ 'K !' 8) >)'+ *8' .'>12. .,^
2,'8 ,)',)' ; .;6/ >)-121/15A7'6.' 1 '>1;-.*' ,' .'_7 ,*'
=1.. D/*',)6,'6'5-620.12'1 'U*-;DD6D>/ .'5-620.12' ?6 '
)6+*' 7*>2'60;/,'6,',)*', ?*' 1' [-6 .' ? .. 12' * 5), '
6-.'6 ,-',)*' .;'1 ' -;.‰ **'')18*+*-'6'0 *-^
*2,'*L=/626, 12' 2' ,-125 .' # '6 % ' ' "'
' .'=‰ '-' **' 2 $!' ' 2'
6>,',)*' :6,,;.)'8)1'6>>1?=62 *0' [-6' .'0*.>- D*0'
M6>>1-0 25',1',)*'-*60 25'=-1=1.*0'D '.1?*'1',)*'=6.^
.65*' + 'K NX' '1',)*'.12.'1 ' 6+ 0'# "1' ' "'
' $" " "' 1-',)*/6.';>/6;.*' .'1;'1'=/6>*
6.'=-* L*0',1',)*' 1//18 25'*2;?*-6, 12' 1',)*' .12.'
1 ' 6-1.) J'*,>‰ 1',)*' *=,'-*60',MOT-S' ' 1;'
'(& ' ' 3' 676&6XT 620',)' 6=1>- =)6/
+*-. 12'?1-*'=/6 2/ '., //'M ' .0-6.'+ 'KR' ' ' # '
& '& ' ' ;'., // ?1-*'=-1D6D/
' 2'# "'M_‰+%X' .'?*62,‰
Q‰ ()*'>12>/;0 25'6-5;?*2,'12',)*'.6?*'. 0*' .'Q*
- +*0' -1?' ,)*'> ->;?.,62>*',)6,'2',)*'2*L,'6.>*2,'
-1?' 6D /12'6 ,*-',)6,'1 7 [-6'620' 2',)*'.6?*'
-* 52',)*'=- f> =6/'1==12*2,'1 ' *)*?6)'2')' .'81-9'
1 '->D, /0 25'B*-;.6/*?' 86.'6'?62'\ 62D6//6,h' 8)1'
>62'D*'0*?12.,-6,*0',1')6+*'>12, 2;*0'62'6>, +*'>)*'
1',)*' 6?6-,62.', //',)*', ?*'1' /*L620*-',)*'4-*6,'
620',1')6+*',)*2' 1;20*0',)*',*?=/*'12' <1;2,'4*-/C
[?'B1.*=)‰ & 'L 'Q'KC J'M -‰ <//' !' !8!' B1.*^
=);.' ' .',)6,' 62D6/6,'O6,-6=' 2' 6?6?'1'
6- ;.' ')60' 5+*2').' 06;5),*-' 2' ?6-- 65*',1'6'
)-1,)*-'1',)*')5)C=-*.,'B600;6'26?*0' <626..*.'
8)1'-* ;. 25',1'=;')*-'6 8 6A',119' -* ;5*' 8 ,)')'.'
6,)*-C 2C/68' 620'D*>6?*',)*' -.',)5)C=-*.,'1',)*'
- +6/,*=/*'D; /,'12' <1;2,'4*-[?'D'=*-? .. 12'1'
/*L620*-',)*2'*2565*0' 2',)1'.*5*'1'(-*‰ //'
,).'8,)'=*-)6=.',)*'?6-+*/1;.'-1?62>*',)6,'1/^
/18.'6D1;' /*L620*-.'-*>*=, 12'D',)*')5)C=-*.,'
B600;6'2**0.'6'D*,,*-'+1;>)*-',)62'B1.*=);.'D* 1-*
,'>62'D*'6>>*=,*0'6.')',1- ‰ ()*'.,1-'6D1;,'<6C
26..*.'620' 62D6/6,'.'>/*6-/'0*-+*0' -1?',)*/6.,
-*>1-0*0'6>,'1' 1)*?6)'D.'*L=;/.12'1'6'.12'1'
B1 606'620'5-620.12'1',)*',)*2')5)C=->.,' /6.)D'
8D1'86.'.12C 2C/68',1' 62D6/6,',)*' :1-12,*‰ ,' ,'
-*?6-96D/*',)6,'B1.*=);.' 2')' .'6>>1;2,'1' *)*?C
6/X'?69*.'21' ?*2, 12'1',) .'6>,'620'01>.'21,'+*+*2'
26?*' 62D6/6,T',)*'-*6.12'1'8)>)' ?6'D*',)6,'
6 ,*-'-* *-- 25',)*' ? .. 12'1' *)*?6)'6.'6/.1'1'
[-6','1',)1'-* 52'1'd*-L*.','1'*L,*20',)*'/ *'1',) .'
6>, +*' >) * '1',)*' 6?6-,62.'-1?',)6,', ?*',1',)*'
, ?*' 1' /*L620*-' ;// N‰ *6-.'/6,*-'81;/0')6+*'
D**2',11' 6D.:-0‰ **' f ' .',)*'6.^
.;?=,12'1' *,*-?622'M.%+‰ ' 6?6-6 J'2' :*-[15.'
5 =6 " %!'L ' '=‰NS X',)6,',)*-*'8*-*',81' 62C
)6//6,:6'12*>12,*?=1-6-'8,)' *)*?6)',)*'1,)*-'
8,)' /*L620*-'620',)6,'D1,)'60'06;5),*-.'?6-- *0'
2,1',)*' 6?/'1',)*')5)C=-*.,'M /6.)D'620'B60^
0;6X'8)1.1');.D620.'8*-*',)*-*1-*'*L=*//*0‰ .'
,1'B600;6',)*' 6>,'?6'D*'6.'B1.*=);.'-*=-*.*2,.',
,)6,')*'86.'.,//)5)C=-*.,'2',)*',?*'1' /*L620*-%
()*'.L'8)1'6-*'26?*0'2'/2*6/‰ ;>>*..12'2' *)%
L ' T'B*.);6'B1 69 ?' /6.)D'B1 606'B1)6262'
620'B600;6'8 //'//2='),)*'2,*-+6/'1'K ' *6-.' -1?'
-;.' ,1' /*L620*-% ',)*.*' /6.)D'86.'.,//
)5)C=-*.,'2',)*',)-,C.*>120' *6-'1' *)*?6).'
-,6>).)6.D,6'620'/6,*-'ML 'S'KQXT',' .'.>6->*/'
=1.. D/*',)6,',)'>1;/0'D*' -,6L*-L*.'<2*?12'8)1.*
,)-,C.*>120' *6-'.'-*?1+*0'-1?',)*' -.,'1' 5 $ '
D'?1-*',)62' S' *6-.'8)>)'.' 6-',11'?;>)' 1-'6'
;>>..12'1',)-1*')5)C=-*.,‰ ',01*.'21,' 1//18'
-1?',)*'?*2,12'1',)*'.;>>*..1-.'1' /6.)D'0182'
,1'B600;6'2'L ' '._‰',)6,' *)*?6)'/+*0',1'.**'
62'1',)*?'2',)*'1 >*'1')5)C=-*. 'D;,'12/',)6,
,)*.*'5*2*6/15*.'620'/.,.'8*-*'D-1;5),'0182',1')
.'182', ?*.'D',)*'>1?=/6.,'-*06>,1-'1',) .'D119'
M.**';20*-' 1‰ N D*/18X% ' ,,1' %'6‰+‰ **'
* ' '!

$ '%# / 'M‰*‰.12'1' :.,6.=*.'1-' 6.)C'
,6.=6X',)*' ,)'2'0*.>*2,' -1?' >).*?*2*.',)*'1;20^
-'1',)' *-.1C -62'0 26., '1-'2 2,)*'2',)*'.;>>*.^
.12'1',)*' ->).*?*2 0.'M>1?=‰ :*-10'+ ' X'6.')*'
., /=.') ?.*/'2',)*';" 'M_‰+%X' % 'M 68C'
).12' # ' ' R X'D* 25',) -0' 0*.>*2062,' -1?',)*' 1;25*-'D-1,)*-'1' 6?D .*.' 6,)*-'1' -;.'
86.'6>>1-0 25',1',)*'=1=;/6-'/*5*20'M:*-10'' K R'
K X'6/-*60 '?6-9*0';1,' 1-'*?= -*' 0;- 25',)*'-* 52'
1' -;.‰ 6?D .*.')6+ 25'0 *0' 8,)1;' ..;*'620'
21'1,)*-'.12'1' 5#$ '.;-+ + 25' 6- ;.'86.')*-*0 ,6^
-' .;>>*..1-',1',)*',)-12*',1' 8)>)'6.' :*-101,;.'
-*/6,*.')*'86.'*/*>,*0'12',)*'0*6,)'1',)*'=-*,*20*0'
?*-0.'D')*'*//18C>12.=-6,1-‰ 2' ,)*' 6212'
,)*'06,*'1')' .';>>*.. 12' .' ‰ SK '620',)*'/*25,)'
1')' .'-* 52'NS' *6-.h'D1,)'=1 2,.'>12 -?*0'D' :*->0C'
1,',.'M+ 'C X'6>>1-0 25',1'8)1?')*'0 *0' +*' *6-.'
6',*-',)*'D6,,/*'1'<6-6,)12'M,)*-* 1-*' % ‰ Q X'6,*-'
6'->A52'1',) -, C. L' *6-.'M6/.1'6,,*.,*0'D '62' 5E(PC
62' 2.>-=, 12' 1.*// 2 ' !'$ 1' ' S X%' :*'
9 2501?' 8)>)')60'D**2' ?=*0*0'D ',)*'86-.'1'
-;.'620' 6?D .*.'620',)*'>12 ;. 12'S',)*-*52'
1' ?*-0.‰ :.'0*. 52.'1' 1-* 52'>12_;*.,'8*-*'
2,*--;=,*0'D '6'-*+1/,'1 /,D*' 6D /12 62.' ;20*-'6'
AB-*,*20*-')1'D1-*',)*'-1 6/'26?*'1' 6D;9;0-6..6-'
M *D;)-'? "!'& !' ' ;' !'=‰R X'8)>)'86.'6,'
/*25,)'=;,'0182'620'=;2.)*0'8 ,)'5-*6,' .*+*-, '
M ‰ ‰>-‰ SX‰ ,*-',)*'.;DA;56, 12'1' 6/ />2'
6- ;.',;-2*0').'6-?.'656 2.,' >,)6' D 6'M:*2'O‰
A+' '._‰X'620' 20 6'M:*-10'+' X‰ ()-6>*'620'
<6>*012 6'6>9218/*05*0').'.;=-*?6> '620'.1?*'1'
,)*'./620.'1',)*' 56*62'8*-*'600*0',1').'01?2 12'
2' .6'<21-'620',)*'.*6D16-0'1'()-6>*'M ‰ ‰ NC'
S SX‰)1-,/'6,*-86-0.')*'>6?*'2,1'>1// .12'8,)'
4-**>*'620',)*'0*'*6,'1'<6-6,)12'M ‰ ' R X'12/'
-1;.*0')?',1'=-*=6-*' + 51-1;./'1-',)6,'0*>.+*'
.,-;55/*'8,)',)*' & *.,'8)>)'86.'218'2*+,6D/*‰
:.'=/62.'8*-*'656 2',)86-,*0'D '-*D*// 12‰ 1?*.^
,>'_;6--*/.'M:*-10'+ 'KX' 1//18*0'12',)*'- .25'2'
5A=,'620')*'0*0'M ‰ ‰ Q X'D* 1-*')*=-*=6-6, 12.'
8*-*'>1?=/*,*0'M:*-10'+ 'X‰
& ,)'-*56-0',1',)*'B*8.' 6-;.':.,6.=.'=;-.;*0'
,)*'.6?*'=1/>'6.' A?.'620'-*.,1-*0',1',)*?',)*'
=-+/*5*.')>)',)*')60'/1.,‰ 1-',)*';,-=6, 12'
1'?*-0.'2+1/+*0'6'7/5 1;.'6.'8*//6.'6'=1/,>6/
-*+1/;,12'620',)*'-*.,1-*'1',)*'<65 62'6,)'8 //^
25/'/.,*2*0',1',)*'2*?*.'1'6'=*1=/*'8)1')60'8*/^
>1?*0' -;.'6.',)*-'0*/+*-*'M [+6'+' '._‰X‰ ;'
2',)*.*>120' *6-'1' 6- ;.' ‰ ‰ K '6.'.112'6.')*
18*-')60'6..;?*0'.1?*.1/0, ' :6556'M:65‰ ' T'
X'620'U*>)6-6)'*2>1;-65*0',)>1;2,-A?*2'
,1'-*.;?*',)*'81-9'1'-*.,1-6,12'M [-6'+' '._‰X'620'
8)*2',)*-'=-1>**0 25.'>6?*',1',)*'9 25.'9218/*05*'
)*>12 -?*0',)*'0*>-**'1' -;.'D '6'2*8'*0>,'620'
,)*'(*?=/*'86.'2.)*0'2'1;-'*6-.'M ‰ ‰ ST' [-6'
+' X',)1;5)','86.'6==6-*2,/';.*0'D*'-*',)6,',?*'
MU*>)‰+ 'K'NX‰ ()*'D*2* ,.'>12*--*0' ' 6-;.'
;=12',)*'B*8.'6-*'21,'?*2,12*0'2').'2.>-=, 12.‰
' ,)*'.6,-6=*.',8*2,' 2'2;?D*-'2,1'8)>)')*'
1-?*0',)*'*?=-*' 6/*., 2*'81;/0'D*'=6-,'1';-,)'2>/;0 25' -6')1*2>6'620' =-;.' ()*'
1;-,)'9 25'1' *-.6'8)1'.)1;/0' D*' 6-'->)*-',)62'
,)*'6//'620'D'). .-,*25,),)-);5)')' .',-*6/?'1'4-*>6'M 62‰L 'KX‰
?6'D*' 6-;.' ',)*'=.*;01C ?*-0.' .'-*>912*0'D;,'
,)*'0*.>-=, 12'D*,,*-'.;'.' d*-L*.'M.**' :,[5'2',)*'
) !' '6 !'2'/1>‰%' ,,1'.‰+‰T ?,)'.‰+‰

N‰ 6-;.',)*' *-. 62J' *=,‰ 6=,(1>
1'2=1(A>X'1>>;-.' M *)‰L 'KKX' 2'6'=6..65*' 8)>)'
?*-*/'.,6,*.',)6,',)*'.;>>*..12'1'=-*.,'86.'-*5.^
,*-*0';=',1')./'656 2.,',)*'-*6/?'1'4-*>6'M 62‰L 'KX‰
?6'D*' 6-;.' ',)*'=.*;01C ?*-0.' .'-*>912*0'D;,'
,)*'0*.>-=, 12'D*,,*-'.;'.' d*-L*.'M.**' :,[5'2',)*'
) !' '6 !'2'/1>‰%' ,,1'.‰+‰T ?,)'.‰+‰

)*-*' 2,*20*0' D*6-.' >) *0 '12',)*' 6;,)1-.) =' 1 ',)*' =6..65*% ,' ?6 'D1'D- * / '.,6,*0',) ; .á '6.' .' ?1-*' >1? ?12/ 'D*/ *+*0 ',) .'9 25'D*' 6- ; ,' 1,) ; .' M1- 5^ 26// ' >) ; .X' 8)1' >6?*' ,1' ,)*' ,)-12*' 2' % % K ' 620' -* 52*0' 2 2*,**2' *6-.' 8*' ? ; .,' M6..; ? 25',)6, ',)*' B600 ; 6') *-*' ?*2, 12*0' .',)*') 5)C=- *.,' 8)1' 8*2, ' 1 ; ',1' ?***,' /*L620*-',)*' 4-*6,' \ % +%h' 12') .' *2,- ' 2,1' B*-; .6/*? 'B1.*=) ; .' & !' L 'QX' >12>* +*' * ,)*-' ,)6,' B600 ; 6' -*6>)*0' 62' 65*' *L>**0 25' 6' >*2,; - ' 1-' .1' /125')*' ? ; .,')6+*' / +*0 ' ')*' 86.' 6/-*60 ') 5)C =- *.,' 2' ,)*' -* 52' 1 ' 6- ; .' 1,), ; .' 620' .6 8 ` /*L^ 620*- .' *2,- ' 1-',)6,',)*' B600 ; 6' 1 ' *)*? 6)' 620' 1 'B1.*=) ; .' 6-*' 21,',)*' .6?*' =*-.12% 6-=[1+')6.' ,- *0',1' .)18 ' -1?',) .'+*- '>)6=,*-',)6,',)*' B600 ; 6' 1 '+*-% KK 86.'6' *+ ,*' 620' 21,)*') 5)C=- *.,' I =' ! ' 'N !- ' =% N X% **' ($! ')18*+*-',)*' -*5 .,*-' 86.' >12, 2 ; *0', 1' 6' /6,*-', ?*' 6.' .' 21,' ?=-1D6D/*',)*' 1>>;--*2>*' 1',)*' 26?*' B60C 0 ; 6' M+*-% ' KKX' 8)1I' 86.') 5)C=- *.,' 6,',)*' , ?*' 1' ,)*' 2+6. 12' 1' /*L620*-'M_% +%X' =1 2,.',1' 6- ; .' ' 101?622 ; .' ,)*' 62,6512 .,' 1' /*L620*-' 620' /6.,' 9 25' 1' *-. 6' % % NNSCNN ' M ' <6>>% ' X% 1?=6-*' B6)2'& " !' ' 'K K ._ %!' */' +"!' '6 !' g K' '8)1' 0* *20.' 6,'/*25,)',)*' 2,*5- , ' 1',)*' =6.^ .65*% 2' ,) .' /6,,*-' + *8' 8*' ? ; .,' * ,)*-' 6..; ?*' ,)6,' *)*? 6)') ?.*/ '6,,6 2*0',)*' 65*' 1' N ' *6-.' 6,'/*6.,)1-',)6,',) .' =6..65*' .' 62' 2,*-=1/6, 12' D' 6' /6,*-')620' M *-,)1AO,'6(!' ' N X' *-)6=.',)*' ?*62 25' 1',)*' +*-.*.' 2' _;*., 12' 12/ ' .',)6,',)*' =-*.,.' *2; ?*-6,*0' 8*-*' ,)1.*' 2>/;0*0' 2',)*' 5*2*6^ /15 >6/ -*>1-0.' 0182',1',)*' , ?*' 1',)*' -*,;-2' -1?' 6D /12' %*% 6.' 26// ' ?60*' 1;,' D ' *)*2/ 6)' 620' [-6' M+*-' KSX' 620',)*-* 1-*' >12,6 2 25',)1.*' =-1.^ =*>, +*/ ') 5)C=- *.,.' 6/,)1;5)' 6,',)*' , ?*' D;,' >) /^ 0-*2' ;==1. 25',)6,'B600 ; 6' 6.' +*' *6-.' 1' 65*' 6,',)*' , ?*' 1',)*' >/1. 25' 1',)*' %' (% >6212' \.**' [C' E' 2' % % S M,1' 8)>)' 06,*' *)*2A 6)' ; 201 ; D,*0/ ' / +*0X')*' 81 ; /0')6+*' D**2' D ; ,' 6D1 ; ,' ' *6-.' 1/0' 12') .' 6>>*.. 12' 6.') 5)C=- *.,' 7 %+%X' % ' > -% N R% ()*' 9 25' -* *--*0', 1' 2' *)% L ¯ KK' 81 ; /0',)*2' D*' 6- ; .' 1,) ; .% () .' *L=/626, 12' .' >12. .,*2,' 8 ,)' 6//',)*' > ->-; ?.,62>*.' 620' /*6+*.',)*' 6 ; ,)*2, > , '1' ,)*' =6..65*' ; 26 /*>,*0%

$ ' 86.' 26?*0' < ' $ ' M #715X' D ; ,' 12') .' 6>>*.. 12')*' 86.' 0 ., 25; .)*0' D ',)*' *= ,)*,' * ' $ ' M 1k1X' -1?') .' D* 25' 12*' 1',)*' .*+*2,**2' //*5 , ^ ?6,*' .12.' 1' -,6L*-L*.' '1-' 125 ?62; .' 8)1' ?60*') ?' .6,-6=' 1' : ->62 6% : *'-*D*//*0' 656 2.,' 150 6C 2; .' 621,)*-' D-1,)*-' 8)1')60' ? ; -0*-*0',)*' -' 6,)*-' 620' 8 ,)',)*' 6 0' 1' .*+*-6/' 1',)*' =-1+ 2> 6/ .6,-6=.' .; >>**0*0' 2' 56 2 25' .; =-*?*' =18*-' =; ,, 25' ,)*' ; .; -=*-',1' 0*6,)% : *' 86.' 6' 8*69' =- 2>*' >1?=/*.*/ ' ; 20*-',)*' >12,-1/_ ') .' 6+1-,*.' 620' *.=*> 6// '1') .' 8 *' 6- .6,/.T 620') .' -* 52' 86.' 0 ., 25; .)*0' >12, 2; 6/' 2.; --*>, 12.'=6-, >; /6-/ ',)6,'1',)*' 5 =^ , 62.' 8)1' .; >>**0*0' 2' 56 2 25' 1-' 6' 8)/*',)*' -' 20*^ =*20*2>*' M % % X% 6- ; .' 0 *0' 2' % % 7' 620' 86.' .; >>**0*0' D ') .' 1/0*.',.12' -,6L*-L*.' 'M ,*. C 6.' !' L/ +C/+ T 10% >% L ' T L 'NS QT d*21=)% # 2!' K RT' / ' QT' & ' ' X%

6-9*?1 ' **' !

6-92*..' M=-1=*-/ ' " " ":') 81',)* 6D.*2>*' 1' / 5),T',)*' .,6,*' 1' >)61.' 6.'-*=-*.*2,*0' D ',).' .6>-*0' 8-,*-' 2' 4*2*. .' 'K% **' ! ()*' =/65;*' 1 '06-92*..' 2' 5 =,' M L10% L 'K X' 86.' 12*' .1',)>9' 620' 2,*2.*' 6.',1' .**?' 6/?1.,'=6/=6D/*% ()*' =6/=6D/*' 1D.>;-*J' 1' < /,12' 6==*6-.' J' 2' 8)>)' ,)*' 1-0' .6 0',)6+*' D**2' M L10% LL 'K X' 86.' 01;D,/*..' ,)*' ',) >9' 06-92*..' J' 2' 8)>)' ,)*' 1-0' .6 0',)6+*' 81;/0' 08*//J' M ' 25.' + ' KX')6.' -* *-*2>*' ,1',)*' >/1;0' ;=12',)*' ?*-> C.*6,' 2' 8)>)' ,)*' =-1? .*0',1' 6==*6-J',1' 6-12' 620' 8)>)' .**?.',1')6+*' D**2' -6,)*-' 6' >/1;0' 1' 5/1- ' 620' /a-),' ,)62' 1' 06-92*..' % ** $! &)*2',' .' .6 0' M .6% L>+ 'KX' >/1;0.' 620' 06-92*..' 6-*' -1;20' 6D1;') ? J',)*' -* *-*2>*' .' 6==6-*2,/ ',1',)*' 2.>-;,6D/ ', '1',)*' 0 + 2*' 26,;-*' 620' 81-9 25% ()*' 06-92*..' J' 2' 8)>)' .' -* ;*2,/ 'M .6% L 'R T B1*/' 'N T ' T <6,,'LL + 'K' *,>%X' >12C

=6// 25' 620' 0*..-;>, +*' 2',)*' -'* *>,.% #,)*-.',) 29' ,)6,'6' 0*2.*' 15' 86.' .=-*60' 1+*-',)*' /620' D ; ,'6' 06-9C 7 2*..' >12. ., 25' 1',) >9' >/6? ? ' 15.' 620' *L)6/6, 12.' .1' >120*2.*0' 6.',1' D*'=*->* +*0' D ',)*' 1-562.' 1',1 ;>)' ? 5),')6+*' *L, 25; .)*0' 62 ?6/ / *' 2' 6' *8')1 ;-.% &)*',)*-',)*' 06-92*..' 8T6.' *L) D ,*0' 2',)*.*' 1-' 62' 1.,)*-' 1-?..',)*' ? -6>/*' ? ; ')6+*' ..-;>9',)*' 5 =^ , 62.' 8 ,)' 6.,12 .)?*2,' 620')1--1-' 6.' ,)*' .;2' 86.' 127' 1',)*-' =- 2> =6/' 0* , *.' 620' 86.' .; ==1.*0',D' D*' ,)*' .1;->*' 1' / *' 620',)*' .1;/ 1',)*' 81-/0' 620' 8 ,)' 2',)*' 41.=*/.' 1' <6,,)*8' MLL+ ' X' 620' ;9*' MLL ' X' 8*' -*60',)6, ' 8) /*' B*.;.') ; 25' ;=12',)*' >-1..' ' -1?',)*' .L,)')1;-',)*-*' 86.' 06-92*..' 1+*-' *+*2',/*..',1% *)*' /620' ;2,1',)*' 2 2,)')1;-%J' <1.,' 1',)*' 62^ > *2,' >1?2,6,1-.' D*/ *+*0',)6,',) .' 06-92*..' *L^ ,*20*0',1',)*' 8)1/*' 81-/0% ;',)*' -' 6-5; ?*2,..' 6-*' 218' .*/01?' -*56-0*0' 6.' .6, . 6>,1- '620',)*' -' =-11 .' *+*2',/*..',1% *)*' /620' ;2,1',)*' ,)*' .,-125*..' ,',)*' ?*2^ , 12' 1' 62' *>/=.*' 1',)*' .;2' 8)>)' .' -* *--*0',1',) .' , ?*' D ')/*512' (-6// 62;..' 620' 6 ,*-') ?' D ' ()6/C /;.' M6=% - >62; ?X% ;,' *+*2' 62' *>/=.*' 1',)*' .;2' >1;/0' 21,' D1' + . D/*',1',)*' 8)1/*' 81-/0' 620' 2*',)*-' 1',)*.*' 8-,*-.' 26?*.',)*' =/6>*' 1',)*' *>/=.*% 1?*' ,) 29',' 86.' 1?*' D ;,' ,' .' ?=1.. D/*',)6,'62' *>/=.*' >1;/0')6+*')6==*2*0' -1?',)*' .L,)',1',)*' 2 2,)')1;-'" 6,' 1?*' 620' B*-;. /*?%' ,' .',)*-* 1-*')6,',)*' =-1D6D/*',)6,',)*' .,6,*?*2,' 1')/*512' 8)>)' 2',)*' >1;-.*' 1',?*')6.' >1,2*',1' D*' _;1,*0' 6.' 20*=*20*2,' 6;,)1-, 86.',69*2' -1?',)*' -*/6, 12' 1',)*')-.C 3 ,62.'1-' -1?',)*' >-=,;-*.% ()6,)*' 06-92*..' >1;/0' 21,')6+*' =-1>**0*0' -1?' 62' *>/=.*' 1',)*' .;2' .' ;-7' ,)*-'=/6>*0' D* 120' 6//01;D,'D ',)*' 6>,',)6,',' D* 25' ,)*2',)*' ,?*' 1',)*' 6..1+*-',)*' ?112' 86.',)*' ;//% ().' 06-92*..' ?6',)*-* 1-*')*' 6.>-D*0',1' 62' *L,-61-0 26-' 620' =-*,*-26,;-6/ 1D.>;-6, 12' 1',)*' .1/6-'/5),'8)>)' ?5),'=-*>*0*' 620' 6>>1?=62',)*' *6-.),;69*',)6,',119' =/6>*' 12',)*' .6?*' 1>_6. 12' 1-',')6.' D**2' 21, >*0',)6,'1,*2' D* 1-*' 62' *6-.),;69*' .;>)' 6'? .,'6- .*.' -1?'.;/=);-*1;.'+6=1-.' 6.',1' 1>>6C7 .12' 6' 06-92*..' 6/?1.,'21>,;-26/'M.**',)*' 6;,)1-.'>,*0' 2' ; 21/' ' LL +' KQ' 620' >1?=6-*' B1*/' NT' *+% C+' K' ._ %X% **' > 'M $!' ;>)' 6' 06-9^ 2*..' ?5),'*L,*20'1+*-'B;0.*6'1-',)6,'0 + .12'1' 6/^ *.,2*' 2' 8)>)'B*-;.6/*?'.,110',1' 8)>)',)*' D*.,'6;^ ,)1-,*.'65-**',)6,')*-*' 6.' 2' .1?*' 1,)*-=/6>*.',' ,' 2*>*..6-',1'/?',)*' =)-6.*' -*20*-*0 /',)*/620%J' 2',)*' >,.'1' /6,*J' M_% +%X' 8)>)')6+*' D**2' _;1,*0' D ' B;.,2' <6-,-' 620' (*-,;// 62' 8*' 20',)*' 1//18 25' 01>;?*2,' 2' 8)>)',) .' =-*,*-26,^ ;-6/' 06-92*..' .'-* *--*0',1% **' > / ! /6,*',1'(D*-.;.'*,>%)6+*' 6,'/*25,)'D**2' 1->*0 P' >12H*2,',1',)*' >-;> L 12' 1 'B*.,.' .)-.,',1'=-*+*2,'6',,?;/,'6?125',)*' B*8.',)1;5)' ,'86.'+*-.'?;>)'656 2..'? 8 /%' 1-',/*81-/0' 2*+*-'.68' 620'=-1D6D/'2*+*-'8 //.**'6'?62'1.;>)'*L,-61-0 26-'=*, ' 620' 5- 5),2*..%' ;-=) ,2*..%' ;' ,)*')5)C=-*..' 620' 62)*0-' ?' 3 //*0' 2' ,)*' 1-6>/*' 1',)*-' =-1=)*..' 620' 1'12-' .D /,% &)/*')*' ;25'12',)*'>-1..'6')1-- 0'06-92*..'8)>)'>1+*-*0' ,)*' *6-,) '**?*0',1',)-*6,*2',.' 26/ *20%' :.' 1//18*.' 8)1'=-1*..',1')6+*'.**2')?'-.*' -1?',)*'0*60'620'6.>*20' 2,1')*6+*2'620'6>9218/*05*')?' 1-',)*-' 420'01',.//:D^ .. '620'D ',)*-*L>*//*2,/ /+*.')18',)*?.*/+*.',)*'81-),' 0 .> =/*.' 1' .1' *L,-61-0 26-' 6' ?6..*-% ' 0 0' 6//*>1;<',1' .6+*') ?' -1?',)*' ?6/>*' 1',)*'B*8.'D;,',)*' *6-1'6',1,6/ 2.;--*>,12' ?60*' ?*' .6>- >*') ?',1',)*'=*6>*' 620' 2,*-*.,' 1' 1;-'*?=-*J'*,) >9' 06-92*..J' 2' 8)>)' ,)*' 1-0' .6 0',1')6+*' D**2' M L10% LL 'K X' 86.' 01;D,/*..',)*' ',) >9' >/1;0' ;=12',)*' ?1;2,J' ?*2, 12*0' >)6=' L L' ST' 620',)*' ,) >9' 06-92*..J' 2' 8)>)' ,)*' 1-0' .6 0',)6+*' 81;/0' 08*//J' M ' 25.' + ' KX')6.' -* *-*2>*' ,1',)*' >/1;0' ;=12',)*' ?*-> C.*6,' 2' 8)>)' ,)*' =-1? .*0',1' 6==*6-J',1' 6-12' 620' 8)>)' .**?.',1')6+*' D**2' -6,)*-' 6' >/1;0' 1' 5/1- ' 620' /a-),' ,)62' 1' 06-92*..' % ** $!' &)*2',' .' .6 0' M .6% L>+ 'KX' >/1;0.' 620' 06-92*..' 6-*' -1;20' 6D1;') ? J',)*' -* *-*2>*' .' 6==6-*2,/ ',1',)*' 2.>-;,6D/', '1',)*' 0 + 2*' 26,;-*' 620' 81-9 25% ()*' 06-92*..' J' 2' 8)>)' .' -* ;*2,/ 'M .6% L 'R T B1*/' 'N T ' T <6,,'LL + 'K' *,>%X' >12C

2*>,*0' 8 ,)' ,)1' >1 2 25' 1 ',)*' 1-0') 6.' -* *-*2>*' ,1' Y' ,)*'A; 05? *2,.' 6,,*2062,'12') .' 60+*2,%
7' 6-92*..' .' 1 ,*2' ; .*0'. ?D1/ >6// ' 2',)*' >- =^ ,;-*.' 6.' 1==1.*0',1'/ 5),' 8) >)' .',)*' . ?D1/ 1 'A1 ' 620'.6 *, ',1' *L=-*..' ? .*- '620'60+*-. ,E7MB1D' L+ ' ST' .6% > 7 ' T' >L/ 'NT' .6% + 'KKT' L ' T / L 'R ' T' [*9% LLL ' Q' LLL ' 'Q' LLL + ' KXT')*2>*' 6/.1' >6=, + , ' M .6% L/+ 'ST' 6?% 'SX% `: *' % ' % ,)6,' ?69*,)',)*' ?1-2 25'06-92*..' 2' ?1.' + ' Q' .' .;==1.*0',1' D*' 62' 6//;. 12',1',)*' 0*2.*' D/6>9' >/1;0.' 620' ?=,..'6,,*20 25' *6-,)_;69*.% `()*' 06 '1 '06-9^ 2*..' 2' B1*/ /'K' 6//;0*.' ,1',)*' 1D.>;-, '1>>6. 12*0' D ',)*' / 5),' 1 '/1>;,..' 2' >1?=6>,' ?6..*.% **' 1C >>. (% 2' [*9%+ ' K' 06-92*..' .' 0*.>- D*0' 6.',)*' 6>>1?=62 ?*2,' 1 ' 01/6,-1;.' - ,*.% 6-92*..' 1',)*' ;2' ?112' 620' .,6-.' .' ;.*0' 5;-6, +*/E7,1' 0*21,*' 6' 5*2*-6/ 06-92*..' 1-f 0> >*2>A' 2',)*' 51+*-2?*2,' 1-' D10 '=1/ ,>' M .6% L ' T' [*9% L7L ' B1*/' ' C' N X% 2' =)% ' ',)*' *L=-*.. 12' 81-9.' 1 '06-9^ 2*..' .' 6==/*0',1',)*')*6,)*2' ? .,*- *.' 12' 6>>1;2,' 1 ',)*' ?=;-*' 6>, 12.' 8) >)',)*' 2, 6,*0'=*- 1-?*0' 2' ,)*?% ' ;,*-' 06-92*..' 2' <6,,' + ' K' 620' */.*^ 8)*-*'-* *-.',1',)*' 06-92*..' 1;,. 0*' 2',)*' .,-**,.' 1-' 1=*2' >1;2,-A7' 6.' >12,-6.,*0' 8 ,)',)*' D/6[*' 1 '>)**- ;/ / 5),' 2',)*')1;.*' *.=*> 6// ' 8)*2' 6' >12+ + 6/ =6-, ' .')*/0' 2',)*' 2 5),',? *% 20' ,' ?6 ' D*' 1D.*-+*0' ,)6',)*' .,-**,.' 2',)*' 6.,'6-Y;,,*-/ '06-9'6 ,*-' 2 5),^ 6//',)*-*' D*25' 21' .)1=.' 8 ,)' / 5),*0' 8 2018.' 21-' *+*2' =;D/ >' 1-' =- +6,*' /6?=.',1' ?=6-,',1',/ *?',)*' / 5),' 620' >)**- ;/2*..' ,1' 8)>)' 8*' 6-*' 6>>;.,1?*0% () .'5 +*.',/ *' ?1-*' 1->*',1',)*' >12,-6.,'1',)*' `1;,*-' 06-92*..' 8 ,)',)*' 22*-' / 5),% 6-92*..' .' ;.*0',1' -*=-*.*2,',)*' ..6,*' 1',)*' 0*60' MB1D' L 'K T' L+ ' X% ,' .' 6/.1' *?=/1f*0' 6.',)*'=-1=*-' 620'. 52 /*62,'*?^ D/*?' 1' 521-62>*' M .6% O' KT' /L ' KT' <6,,' + ' KN' B1)2' 'RT' K' 1-% +' CSXJ' M ,,1X% ** ' & *-1 ..' $ ' ' .' +%

6-9 1 2 'M : *D% ' " (' T' 6>>1-0 25',1' 4*% .*2 ; .OZ-*0 P*-T' 6>>1-0 25',1' ;-.,'56-,*-* *=,% 6=%) 3 1' & %) 8 :' ;/5% ' E' 6' =*-.12' 8)1.*' >) /^ 0-*2J' 1-' 0*.>*2062,.' 8*-*' 62 D25' ' 1/1?12 .' .*-^ +62,.J',)6,' -*,;-2*0' -1?' 6D /12' 8 ,)' U*-;DD6D*/' M [-6' % ST' *)% + ' QX% % % 62,*' N %

6-/ 25' " E')*2>*' 8.,620. M .6% LL 'K T' LLL+' X' 1-' 'M6.' 6',) 25' 21,',1' D*' -*=/6>*OXT')*2>*' Y 'M/ 9*' 7 ' >1?=' 0*6-' ?*JX%

6-1?' M / BT' *=,% 620' 2=1V,X% ().' 81-0' .' 5*2*-6// ' ;.*0' 2' >-=,;-*' ,1' 0*21,*' ',)*' .1;,)J' M [*9% L/' K T' B1D' LLL+' X% ,.' ?*62 25' 2' *;,% LLL 'KN .' 01;D, ;/% <1.*.' 2' D/*.. 25' 6=),6/' .6 .' 1..*..',)1;',)*' '620' ' 1(% ()*' % *-*20*-.' ' ,)*' 8*..'620',)*' .1;,)TJ',)*' *=,;65 2,'1 + ' d V >,T',)*'1/0' 6, 2' ?6-*' *,' ->;?TJ' 620',)*' ;/56,*' '?6-*' *.' ?*- 0 *?%J' ()*',*-- ,1- '1' 6=),6/'/6A'12',)*'21-,)C*6.,'1' 6/^ *., 2*% ,'0 0' 21,',1;>)' 1-'51' 2*6-',)*' <*0 ,*--62*^ 62T' >12.*_;*2,/ ' ,)*' .*6J'>6221,'?*62',)*' <*0^ ,*--62*62% ()*.*6'1'46//*' .'01;D,/*..'-* *--*0',1' ,)*' 8)1/*' 8*.,*-2' .)1-*' 1' 8) >)' D*/125*0',1' 6=)^ ,6/' () *' % *-*20*-.' ' ,)*' 8*..'620',)*' .1;,)TJ',)*' *=,;65 2,'1 + ' d V >,T',)*'1/0' 6, 2' ?6-*' *,' ->;?TJ' 620',)*' ;/56,*' '?6-*' *.' ?*- 0 *?%J' ()*',*-- ,1- '1' 6=),6/'/6A'12',)*'21-,)C*6.,'1' 6/^ *., 2*% ,'0 0' 21,',1;>)' 1-'51' 2*6-',)*' <*0 ,*--62*^ 62T' >12.*_;*2,/ ' ,)*' .*6J'>6221,'?*62',)*' <*0^ ,*--62*62% ()*.*6'1'46//*' .'01;D,/*..'-* *--*0',1' ,)*' 8)1/*' 8*.,*-2' .)1-*' 1' 8) >)' D*/125*0',1' 6=)^ ,6/' () *' % *=,;65 2,'-*20*-25'1' 6-1?' 2',) .'=6.^ .65*' M /V' % >% ->6X' ?;.,' D*' 8-125% 6=),6/' 2*+*-')60' 62 '>122*>,12'8 ,)' ->6'1-' 8 ,)',)6,'-*^ 5 12' 12' ,.' 21-,)*-2' -12, *-'6 ,*-86-0.' >6//*0' 6-1?% ()*' 81-0' .' **?.')*-*',1'0*21,*'6'0 .,-> ,'2*6-'(D*- 6.' 620' =-1D6D/ ' ,)*' .;22 ' =/6 2' 1' 4*22*.6-*,' 8) >)' .;-=6..*0'6//',)*' -*.,'1' 6/*., 2*' 2' *-, / , 'MB1.*=)% 6-' ' 'QX% & ,)',) .' 65-**.' .)*' =-1D6D/*' *, C' ?1/15A' 1',)*' 81-0' 8) >)' 6>>1-0 25',1' ,,-.,' ! 2' [*9% LL' S' MLL 'KX' 6-1?' 6==*6-.',1' D*' 6' =-1=*-' 26?*% ' 12' 1' ?62' .*,',) ' 6>*,186-0.' (*C ?62' 620' 0-1=',)*' 81-0' 8) >)' 6>>1-0 25',1' 4*.*2 ;.' . 52 /*.' "1' 6>>1-0 25',1' ,,-.,' ! 2' [*9% LL' S' MLL 'KX' 6-1?' 6==*6-.',1' D*' 6' =-1=*-' 26?*% ' 12' 1' ?62' .*,',) ' 6>*,186-0.' (*C ?62' 620' 0-1=',)*' 81-0' 8) >)' 6>>1-0 25',1' ,,-.,' ! ,-62./6,*.' D1,)' 81-0.' .1;,) J' D;,' ,)*' *=,;65 2,' ?1-*' >1--*>,/ ' ? '620' & % ' B2.,*60'1

? ?6>);.' 5 +*.' & IC ' & *'/*6-2' -1?' B*-1?*' 620' 1,)*-' 62> *2,' 8-,*-.',)6,',)*' =/6 2' 8) >)' / *.' 6/125' ,)*' .1;,)*-2' D1-0*-' 1 ' 6/*., 2*' 620' *L,*20.',186-0.' 5 =,' 86.' 1-?*-/ ' >6//*0' 6-1?% (); .' B*-1?*' .67.' ; ?6' .' 6' /6-5*' + //65*' 2' 6-1? ',),6,' .' 2' ,)*' "' ' 2',)*' -*5 12' 1' /*;,)*-1=1/ .' .*++' *2,**2' ? /*.' 0 .,62,' -1?',),6,' > , J' >, ! Y! .% +% 6-1?XT' 620' ;.*D ;.' 0*.>- D*.' 4*-6-' 6.' . ,;6,*0' 3 0< ' 6=M1V 0+' ı ı' .% +% 6=6=6X% ()*' 26?*' 6=^ =*6-.',1')6+*' D**2' 6==/ *0',1',)*' 8)1/*' =/6 2' -1?',)*' < *0 ,*--62*62',1',)*' D**2' 6==/ *0',1',)*' 8)1/*' =/6 2' -1?',)*' <*60' *6' M */620' '=% Q' ._ %X% 2',)*' *6-/ ' 65*.' 1')- ., 62 , '6' 4-**9'>12+*2,' 86.'*-*>,*0'2*6-' ,)*' >16.,'6D1;',.*+*2' ? /*.' .1;,)'1' 46[6'620' 26?*0' ' ! ;- 25',)*' >-;.60*.',' 86.' >12+*-,*0' 2,1' 6' 1-,-*..' 620' 86.',)*' .>*2*' 1' ?62' 6')6-0' .,-;55/*' D*,8**2',)*')- ., 62.' 620' 6-6>*2.' M & //% (-* 2' ? ' ' % '@ 1'%!$ $$ ' <6-2;.' 62;,;.'=% QS' K ST' 1)60 2 6' $ '=% K' 620' '? ! .% +% 6-1;2;?' 1D 2.12';! !';N X% ()*.,*' .' 218' ?6-9*0' 6' .?6// + //65*' >6//*0' ' ' =; "1' ',)*' >12+*2,' 1',)*' 06,*.J' M 1-,*-' ;D' '$!' ' !'=% KSSX% ' ,,1'.% +%

6-,' M 2' -1+% + 'KN' " '62' '6.'*/.*^ 8)*-*'T' 2' B1D' L/ 'KS' NHp7' (' 62' :' 2' K' 6?% L+ ' ' N7' + ('6' '1-' .,6 '6.'*/.*^ 8)*-*'T' 2' K')-12% LLL ' ' " (+' 62 ' ?/.C' 8*6=12T' 2' B1D' L/ 'KR', 2 - ' " ' '6' :' 2',)*' *8% (*.,% *C+E ' =)% +/' S' 1-' WN1dV ' :*D% L 'K '6'* 8' 62' 2.,-;?*2,'1'86-'. ? /6-',1' 62' 6--18' 1-'/ 5),',.=*6-% ' ',)1;5),',)6,',)*' :*D-*8.' +-*-*' 2',)*')6D ,'1 '0 .>)6-5 25' 06-,.' -1?',)*' D18' 8) /*' 12' -*% ()*.*' *-'06-,.' 8*-*' ?60*' 1',)*' .)-;D' " '1-' =62 .)'D-11?'M,)*' $% '* ' 1' 22%X' 8) >)'5-18.'6D;2062,/ ' 2',)*' -6D 62' 00.C' *-,% ' .' =-1D6D/ ' 2' -* *-*2>*',1',) .' 6>,' " '6-^ -18.' 6-*' .1?*, ?*.' >1?=6-*0',1' / 5),2 25.' M *;,% LLL 'KN KT' .6% + ' NT' *LL' T' U*>) L / X% ()*' *-' 06-,.' 6?125',)*' 1?62.'6>>1-0 25',1' ??/6C' 2;.' <6->*// 2;.'>12. .,*0'1'6')1//18'-**0',1',)*/*18^ *-'=6-,'1'8) >)';20*-',)*'=1 2,'1-'D6-D'86.' 6.,*2*0' 6'-1;20'-*>*=,6>/*'?60*' 1'-12' 1-'>1?D;.,D/*' ?6,*^ - 6/.' .1',)6,'.;>)' 62' 6--18')60',)*' 1-?' 1'6'0 .,6 % () .'86.' //*0'8 ,)'D;-2 25'26=),)6'620'8)*2',)*'6-^ -18' 1-' 06-,'86.' .)1,' -1?' 6' /6>9' D18' M 1-' '0 .^ >)6-5*0' -1?' 6', 5),'D18',)*' -* 8*2,'1;,X' ,'.,-;>9' ,)*'*2*? *.' -629.'620'-*?6 2*0' L*0',)*' /6?*' >12^ .;? 25' 8)6,*+*-' ,' ?*,' 8 ,)T 86,*-'=1;-*0'12' ,' 2^ >-*6.*0' ,.' + 1/*2>*'620',)*-*' 8*-*' 21'1,)*-' ?*62.',1' *L, 25;.)' ,'D;,'D ',)-18 25'*6-,)';=12' ,% ? /6-' 06-,.'1-'6--18.'8) >)'8*-*',(+2*0'-1;20'8 ,)',6-'620' =,>)'620'.*,' -*',1'6-*' 0*.>-D*0'D ' + '6.')6+ 25' D**2'?60*',.*'1'D ',)*' 2)6D,62,.'1',)*' 1' 6C' 5;2,;?'8)*2'D*. *5*0'D ',)*' 1?62.'>#' 'LL 'RX% ()*'6=1.,/*' 6//;0*.',1',)*.*' *-'06-,.' 2' =)% + ' C' S% **' !

6,6- ; .'WZ 6,6 7X I6'>)6 >*//1-' 2',)*'=6=6/ >1;-,% : .' , /*' .' 0*- +*0' -1?' ' ;.;6//E' =-* L*0',1' ,)*' 06,*' 1',)*' 01>;?*2,.' ..;*0' M*% 5% 06,;?' ' ;5;.,'K X% : *' .'6/867.'6'=-*/6,*'620'.1?*, ?*.'6' >6-0 26/'620'-*>*+*.') .'26?*' -1?') .'1 >*'8) >)' .',1' '>*-,6 2'=*, , 12.' 1-'D*2* >*.',)6,')6+*'D**2' =-*.*2,*0'620'-*5 .,*-*0d)*' 8-,*.';=12',)*?' ' 5 ' % '*,>% :*' .'*?=18*-*0',1'5-62, '8 ,)1;,' 6>_;6 2, 25',)*'=1=*',)*-*8 ,)'6//D*-,*' 8) >)'01' 21,'=-10;>*';=86-0.'1',8*2, C 1;-'0;>6,.'622;6// T' 1-'.;>)'6.'6?1;2,',1'?1-*')*' .'1D/5*0',1'5*.',)*' =-1+ . 12.'. 52*0'D ',)*'=1=*'8)1'60? ,.' 2?',1'6;^ 0 *2>*'*+*-'06 % ',)*-*'D**2' 1D,6 2*0' ,)*' >620 06*,' 1-' ,)*' .6?*'D*2* >*')*')6.',)*'/D*-, ' 1 'D*.,18 25' ,' 12'62 '8)1?')*'?6 '.*/*>,% :.'.6/6-' .',81',)1;^ .620' >-182.' *L>/;.+*' 1' =*-_;.,*.% &)*2',)*' =1=*.' >12.*2,')6.' D**2' 1D,6 2*0' ,)*' 06,6-A7.;D^ .>-D*.',)*' =*, ,12' 8 ,)' ,)1' 81-0.' & ' ! ()*'=1=*.'6..*2,' .',;D.>-D*0' 2',)*.*' 81-0.%

Fiat ut petitur, "Be it according to the petition." The pope's bull granting the benefice is then dispatched by the datary, and passes through the hands of many persons, belonging to different offices, who have all their stated fees. It is very expensive to procure the pope's bull for a benefice, and very large sums go into the office of the datary, especially when the provisions are for bishoprics, or other rich benefices.—Buck, *Theol. Dict.* s. v.; Farrar, s. v.

Dathe, JOHANN AUGUST, an eminent Oriental scholar and Biblical critic, was born at Weissenfels July 4, 1731, became professor of Oriental literature at Leipsic in 1762, and died March 17, 1791, at Leipsic. His chief work is *Libri Vet. Test. ex recensione textus Heb. notisque philolog. et crit. illustrati* (Halæ, 1791, 6 vols. 8vo). He also edited Glassius, *Philologia Sacra*, and the *Prolegomena* to Walton's Polyglot (Lips. 1777); a *Syriac Psalter*, with the translation and notes of Erpenius (Halle, 1768); and (posthumous) *Opuscula ad Crisin et interp. Vet. Test. spectantia* (ed. by Rosenmüller, jun., Lips. 1795).

Date (2 Chron. xxxi, 5, margin, for דְּבַשׁ, *debash'*, "*honey*," Sept. μέλι, Vulg. *mel*), the fruit of one species of the palm (תָּמָר [Talm. דֶּקֶל, comp. δάκτυλος, date], φοῖνιξ, *Phœnix dactilifera* of Linn.). This tree formerly grew abundantly in Palestine (Joel i, 12; Neh. viii, 15; Judg. iv, 5; Mishna, *Biccurim*, i, 10; comp. Pliny, xiii, 6; Tacitus, *Hist.* v, 6, 2; Theoph. *Plant.* ii, 8; Pausan. ix, 19, 5), especially in certain warm localities (Schubert, *Reisen*, p. 105), namely, around Jericho (which hence was called the Palm City, Josephus, *Ant.* xv, 4, 2; Pliny, v, 15; xiii, 9; Strabo, xvi, 763; Philostr. *Apollon.* vi, 39), En-gedi (Solin. xxxviii, 12), and the Dead Sea (Diod. Sic. ii, 48; xix, 98); also at the Sea of Galilee (Josephus, *War*, iii, 10, 8); as a stately tree (especially fine at Jericho, Strabo xvii, 800; Galen, *Facult. alim.* ii, 26; Buxtorf, *Lex. Chald.* col. 1109; Pliny, xiii, 9), so that on Jewish and Roman coins (also Phœnician, Spanheim, *Præstant. et us. num.* p. 272) it was even employed as the symbol of the country (Froelich, *Ann. Syr. tab.* 18; see the praises of Idumæan palms in Virgil, *Georg.* iii, 12; Sil. Ital. iii, 600; vii, 456; Lucan, iii, 216; Martial, x, 50, 1). At present it is seldom to be met with there (Shaw, *Travels*, p. 297; Schubert, iii, 114; at Jericho there exists but a solitary one, Robinson, *Researches*, ii, 537; at En-gedi none whatever, Robinson, ii, 441); they are abundant, however, and even grow wild in Arabia (in Arabia Petræa they were anciently found here and there, Exod. xv, 27; Num. xxxiii, 9; comp. Burckhardt, *Reisen*, ii, 815; Robinson, i, 256, 264), in Egypt (Strabo, xvii, p. 818; Gellius, vii, 16, 5; Prosp. Alpin. *Plantt. Æg.* c. 7) and Persia (Kämpfer, *Amoen.* p. 669: on the extent of the date-palm, see Link, *Urwelt*, i, 347 sq.; Arago, in the *Annuaire du Bureau des Longitudes*, 1834), in which countries it has from antiquity been regarded as the choicest of fruit-trees (Strabo, xvi, 742; Plato, *Sympos.* viii, 4-5; compare Hasselquist, p. 541). It loves a light, sandy, warm soil (Josephus, *War*, iii, 10, 8), yet not one deficient in moisture (Sirach xxiv, 14; Strabo, xvi, 776; Pallad. *R. R.* xi, 12), attains a height of 30 to 40 (in some instances 60 and even 100) feet, and lives till about 200 years old (Pliny, xvi, 89; Plutarch, *Sympos.* viii, 4, 2; Shaw, p. 128; comp. [in the Sept.] Job xxix, 18); it has a slim (Cant. vii, 7), straight, single trunk of 10 to 18 inches' diameter, covered rather with the scaly remains of the boughs that have fallen or broken off than with a proper bark. At its summit only the palm bears a large number (40 to 80) slender branches, which, growing shorter and shorter towards the top (the bottom ones being some 20 feet long), and bending at the ends in a curve towards the ground, inclose a considerable extent of shade (Wellsted, i, 70). The boughs generally surround the body in a circle six in number, and put forth rush-like, sword-shaped, evergreen (Psa. xcii, 13; comp. Shaw, p. 128) leaves, about 2 inches broad, and 8 to 12 feet long. In the midst of the topmost and youngest branches is found a pointed, pithy heart (ἐγκέφαλον, or head), nearly two yards in length, which contains the buds of new twigs and leaves (this, when cut off, was relished as a dainty article of food from the taste of the drupes, Theophr. *Plantt.* ii, 8; Pliny, xiii, 9; Mishna, *Okzin*, iii, 7; Mariti, *Trav.* p. 407). Staminate and pistillate flowers are upon separate stems. This renders an artificial fertilization necessary in order to insure the produce (see Mishna, *Pesach*, iv, 8; Ammian. Marc. xxiv, 3, p. 13, Bip.), for which the right time must be very exactly observed. For in February there appear on the stem, at the joints of the lowest branches, long (even one yard) capsules, inclosed in a leathery skin, which in May shoot up into male blossoms and female buttons. The former are now plucked off (about March), slit through the length, and inserted upon the female germs (Kämpfer, *Amoen.* p. 707; Hasselquist, p. 133, 223 sq.; Shaw, p. 127; Thevenot, ii, 170). See BOTGH.

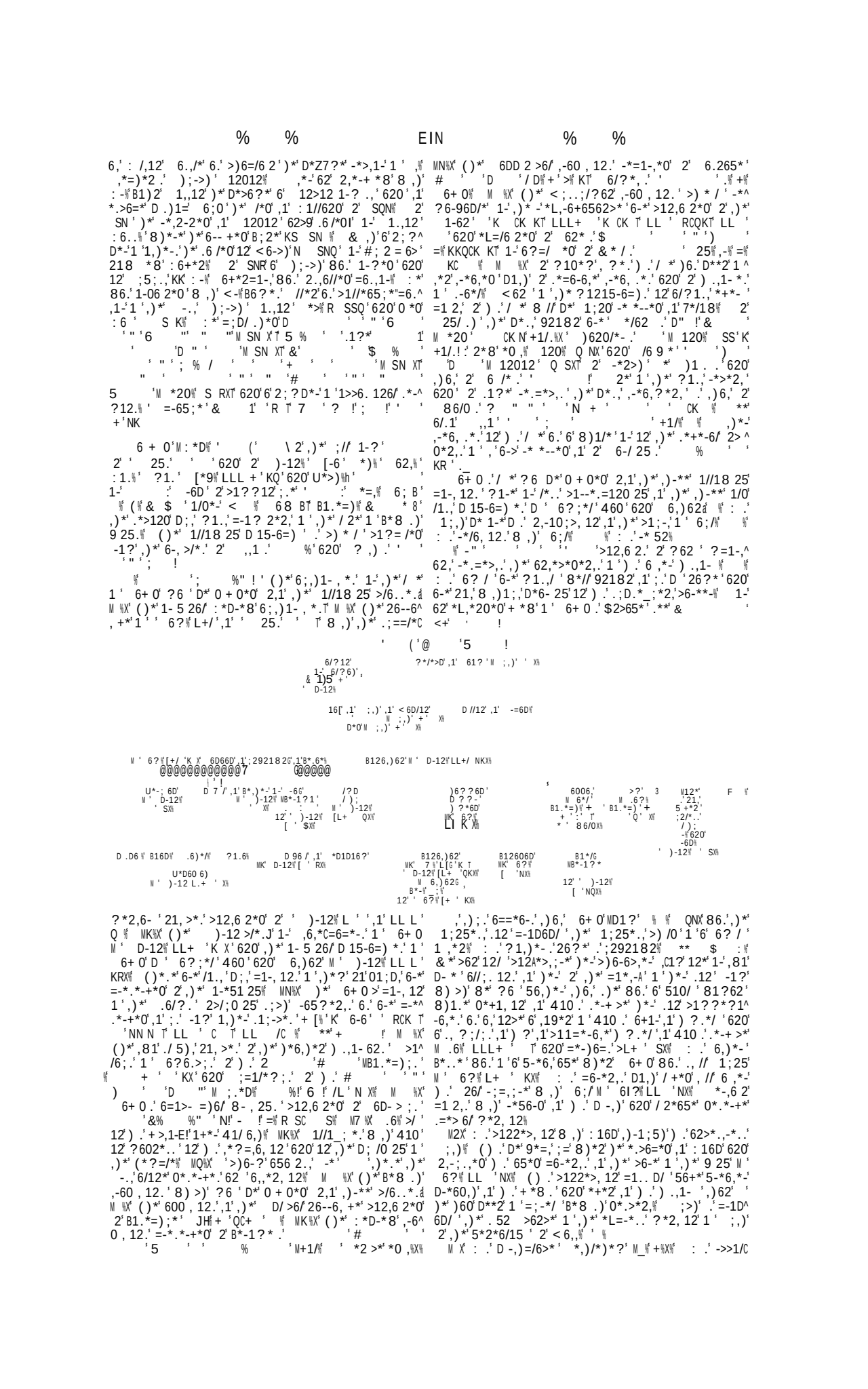
Cluster of Date-palm Fruit.

The fruit (Talm. קְתָבָה, Surenhusius, *Mischna*, ii, 253; vi, 91), which comes to maturity in about five months (August and September, or October), hangs in clusters (Cant. vii, 7) together, in form like the acorn, but mostly larger, and with a fine ruddy (Diod. Sic. ii, 53) or white skin. The best kind is called *jeni*. They were sometimes used in a fresh state (Heliod. *Æth.* ii, 23; comp. Hasselquist, p. 540) as a very common article of food (Burckhardt, *Arab.* p. 45, 575; Harmar, iii, 415), sometimes dried as a dessert-fruit (Xenoph. *Anab.* ii, 3, 15), and sometimes their juice was pressed out (comp. Jonathan's *Targum* on Deut. viii, 8), which, as *date-wine* (οἶνος φοινίκων), was made use of from ancient times (Herod. i, 193; iii, 86; Xenoph. *Anab.* ii, 3, 14; Pliny, xiii, 9; xiv, 19; Philostr. *Apol.* ii, 6, 1; Athen. xiv, 651; Strabo, xvi, p. 742; Dioscor. v, 40; Wilkinson, iii, 174 sq.), or occasionally

Ancient Egyptian Cake of preserved Dates, found by Wilkinson at Thebes. At *a* is a Date-stone.

D1 /*0' 0182' 2,1' 6' 9 20' % =" 'I- !'B12%'620' 86-0' ')*' 6==/ *0') ?.*/ '0 / 5*2,/ ',1',)*' .,;0 '1 ' D !' 12' *2,'+ 'NT' ,-6D1' L ' KT' / 2 'L 'RT' ,)*' >- =,;-*. ' 2' ,)*' 9218/*05*' 1 ' 8) >)') *' ?60*' ? ? 62% <6->*/' LL ' T' B1.*=);.' 1' +' Q' NT' .;>)'=-1 > *2> ',)6,') *' 86.' .112' 60 ? ,,*0',1',)*' .*-^)68 '=% KQT' :**-*2 'V> **2' ' ' SX% **' " 9 + >*'1 ',)*');->)% :*'.112'/* ,' 25/620 '620'*2,*-*0' % #' ()*' 06,*.' I 1' 1) 1 O 8' /* ,' 12',)*' 81-9'1 ',)*' ? 2 .,- '6,' -629 1-,% :*'.;D.*^ D',D.'A7..' 1=*-6, 12' 1 ' ._;**[25' D* 25' ., // ;-^ _;*2,/ '.1A1;-2*0' 2',)*' 6/6, 26,*% :*-*)*' .**?.' ,)*-'.;DA*>,*0',1',)*' 6>, 12' 1 ')1,' 86,*-'620',);.' ,1')6+*'D**2')*/0' 2')5)'*.,**?% :*'86.'12*'1',)*' 1' 6-*' ?60*' 2,1' 62' 2 *- 1-' D;,' =6/6,6D/*' +* *1-?*0'=-*6>)*-.' 8)11' 2',)*' =-*.*2>*' 1',)*' 8 2*% ()*' -=*' 06,*.' 6-*' 6/.1' 6,',)*' =-*.*2,' 06 '*/*>,1-'620',)*' 0;9*' 1 ' & ;-,*?D*-5 ' */0' 6' 0 .=;,6^ =-*..*0' 2,1'/6-5*' 22' >69 '?6..*.'8)>)'.*7',)*' , 12' 8 ,)' +*' ;,)*-62' ? 2 .,*-.' 12',)*' ;D _;,'1' ,-6+*/7 *-.' 2' >6-6+62.' 6.' 6' .6, . 25' 620' -*-*.) 25')- ., 'D10 % 2' SSS')*'-*,;-2*0',1')'.'26, +*/620% 6/ ?*2,' M 122 2 ' 'KST' ;->9)6-0,' & 8'=% X% &*.,' /620*-.'86.'6,' -.',)*'.>*2*'1')'./6X1-.% :*' ( ).' .',)*' 1-?'. ? /6-',1',)6,'1'-6 . 2.' 1-'05.' 2' .112' D*>6?*'92182' 6.' 12*' 1',)*' ?1.,'[*6/1;.'1',)*' 8)>)',)*' 6==*6-' 2' ?10*-2'>1?*->*% -1?',)*' * 1-?*0'=-*6>)*-.% :.'*2,);.6.?',)*' >15*2> ,8 5.'M-D.'1',)*'/*6+*.X' D6.9*,.' 6-*' ?60*'M< .)26' 1' D.' -*6.12 25' 620')'-;0*' D;,'>6=,+6, 25' */1^ " f' LL+ ' X' 6/.1' D -0C>65*.' 620' 1,)*-' 8 >9*-C86-*' _;*2>*' 6,,-6>,*0' ?;/,,;0*.% :.' 6;0*2>*' .1?*^ ,)*-' D-*.' 6-*',8.,*0' 2,1'-1=*.' 620',)-*60'D;,',)*' , ?*.' 6?1;2,*0',1' ?1-*',)62' ,**2',)1;.620% :.' /*6+*.',)*?.*/+*.' 6-*' ?62; 6>,;-*0' 2,1' D6.9*,.' /6D1-.' 8*-*' 21,'>12 2*0',1' /620*-.'D;,'*L,*20*0',1' ?6,.'620'D-11?.'M:1-6>*'$!' 'QNT' <.)26',+= U*6/620'620'1,)*-'=6-,.'1':1//620' D/ 5*0',1' /** / ' 'NT' 1>1>9*' 2 ' 'N ST' 0D*/' N ' 1-')'/ *')*' 656 2'.1;5),'-* ;5*' 2',)*' 6/6, 26,*' R d')*2>*',)*'=7?C,8 5.' 8*-*' >6//*0') *% ' 620'6,' -629*2,D6/',) ,)*-'?62 ' ;,>)' -*2>)'620' 1-')"O % % :' >1?=6-*' *=,' 6,' *+% LL ' K' ._% % &6//112.')60'/*0')*'*L*->.*0').'? 2 .,- % -1?' ? . T' 6>>1-0 25/ ' 2' 62,'+ 'Q' D ' / = ')*-*')1'8*2',1' :*0*/D*-5'8)*-*')*'D*>6?*' >1;-,C' D1;5).' 8*' 6-*',1';20*-.,620',)*' >-182' 1',)*'=6/?T' =-*6>)*-',1'B1)2' 6. ? -% 2' Q')*' 86.' .*2,' 6.' 6.>*,>.';.*0',)*'/*6+*.' 1-'>/1,) 25'B*-1?*'L%%!' ' 0*/*56,*' -1?' 4)*2,',1',)*' 4*2*-6/ 210' 6,' 1-,' T',)*' 6-*' 218' ?60*' 2,1' 62.X% ()*'B*8.'*?^ 1+*-' 8)1.*' 0*/D*-6, 12.')*'=-*. 0*0% :*'=-*6>)*0' =/1 *0' =6/?CD-62>/*.' 12',)*' *6.,' 1' (6D*-26>/*.' 2' 2' 6-1;,'>,'620'5-*6,'*L>*..*.'8*-*'>1?7 ,,*0'2'620'6-1;20' M *+% LL ' T' 1)% + ' ST' / 9*',)*' 5 =, 62.' 2' 4)*2,% .' 6' >12.*_;*2>*')*' 86.' 656 2' 1D/ 5*0',1')121-'1' . - .' < 2;,1/ '=% SX'620'12' *., +*' 1>>6^ /**' 620' 656 2')*' .1;5),'620' 1;20' -* ;5*' 8,)') . 1-?*-'=-1,*>,1-'B1)2' 6. ? -% 2',)*' ? 0.,' 1') . . 12.' ,)* ' >6-- *0',)*?' D* 1-*' =- 2>*.' 620' 0 ., 2^ 6-' =';,-.;,.% :.',-62./6, 12' 1',)*' :>0>/* 5' 6,^ 5; .)*0'=*-.1265*.' 620'86+*0',)*?' 2',19*2' 1'A1' >,' 620'5-*6,'*L>*..*.'8*-*'>1?7 ,,*0'2'620'6-1;20' 620',-;?=)'M *+% + ' RT' >1?=% -5 /' ? ' ' T' 4)*2,% .' 6' >12.*_;*2>*')*' 86.' 656 2' 1D/ 5*0',1' 2% ' T' /;,6->)'$ % '+ ' T' '<6>>% L ' 1-?*-'=-1,*>,1-'B1)2' 6. ? -% 2',)*' ? 0.,' 1') . BN' B1)2' L ' NT') /1' L%%!' ' T' < 2;,1/ ' - !' 6' >,+*' 620',-1;D/1;./ *')*' ,)/ ,*-^ ,6D% NX% +*2',)*'9*-2*/.' 1',)*'06,*.'6-*'?60*';.*' 6-' =';-.;,.% :.',-62./6, 12' 1',)*' :>0>/* 5' 6,^ 1'6,',)*'=-*.*2,'06'6.' 100*-' 1-'>6,,/*'M ;->9)6-0,' *>) .?' 2' 2,1' ;,>)' 86.' 601=,*0'620')6.'8,)'./5),' & !'=% KX% ()*'.**0'1',)*'?;/*',-**'8)>)'.)*0.' ?10 /16, 12.'>12, 2;*0' 2' ;.*' ,1',)*' =-*.*2,', ?*% 6'-65-62,'101-' .'5-**0/'*6,*2'D',)*'?10*?' -^ :*' 6/.1'56+*' 6' ;,>)'+*-. >6, 12' 1',)*' 119' 1 6D.'M&>//.,>0'K X% ()*'8110'.'+*-'.=125 'D;,' .(6/.?.'6>>1-0 25',1',)*' -*2>)'1' *[6'620'<6-1,% ,'/6.,' =-*,,' 8*// 6.'D; /0 25' ?6,*-6/ 1-' 2. 0*' ()*'86.'6/.1'601=,*0'D',)*' *1-2,*0');->)'620' D*6?7Md*21=)12' %f+' T' ,-6D1'L+' N T' 86.';.*0'2'=;D/>'81-.)=',/' N'8)*2',' 86.'.;^ L+ ` NRT' L+ 'QKK% **' 5*2*-6// I'()*1=D-% ! =*-*25*/'6 ! ' N' ._%XT' /2'L 'S' ._%T' *=-*.*0*0'D'6'+*-.12' 1')5)*-'=1*,>' ?*-.%' :.' ' ! 'N6 % 1'L+' Q' ._T */.;.' ' ' ._%T' D;-2 25'[*6/620'6D;2062,'/6D1-.'>12,-D;,*0'?;>)' 9*2' + "!' !';+' ' ' N a_%' & 2*-' 'K K% ,1'60+62>*',)*'>6;,.*'1',)*' *1-?6,12'2':1//620% **' + 4 ! 6;D'1 '6'4*-?62',)*1/15 62'1',)*':*5*/62' .>)11/'86.'D1-2'6,' 6..*/ <6->)'K ' % 2' R' 6,) 62'M:1D% ' " (' + '_% 0% @ =')*D*>6?*',;,1-'2',)*'6>60*?'1'<6-D;-5'8)*-*')* :' *=,% & 1 :'B1.*=)% & 1 % '& !' +'K' KX')60'D**2'.,;0 25'.2>* QS% :*'86.'6,.*-86-0.' 6' *;D*2,*' >) * ,6 2' .12' 1' $6D' 8)1'A1 2*0',)*' =-1 *..1-'1'=)/1.1=)'2':626;'620' 26// '2' R' >12.= -6> '1' 1-6)'M_%+%X',)*' *+,*'620'8,)') D*>6?*'=-1 *..1-'1',)*1/15 '6,':*0*/D*-5% :*0*0' 6>>1?=/>*.'86.'.86//18*0';='D'62'*6-,)_;69*'M ;?% 1+% KK QNS% 6;D'86.'12*'1',)*'-*=-*.*2,6, +*.'1' d+'T'3LL+'RT' *;,% L'ST' .6% *+' T' >1?=% >C' ,)*2*8'.=*>;/6, +*',)*1/15 % ,' --,'*.=*>6// '2' >/;.% L/+' QX% % > -% S Q% **>. !) .') + +'M:*0*/D% Q X')*'86.'6' 62, 62' 6,) 6 ,' 1 1,)*-' < ' & % ';' ;/5% ' " 1' 6' 1-,-*.')*6 ,*-86-0.' 2>/2*0',1' >),*'620'2').'-" 1L;=876'B1.*=)'U%% % 8' 2' 8)>)',)*'B*8.' 'M:*0*/D% Q SX'620'6 ' ' !'$ ' 1'4 /*60',119'-* ;5*' -1?',)*')*6,)*2'M' <6>>% + 'RT' ; (+'M:*0*/D'/Q/ X')*6==/*0' >/*// 25.'01>^ B1.*=)% & !' L 'Q'BX' :*-*',)*'8*-*' -*/*+*0'D' ,-2*',1',)*1/15 % .',)*'/6,,*-'*20*0'8,)',)*1.1=)>' B;06.'620'B126,)62'M' <6>>% + IK X% ()*'?6->)*0' 0;6/.?'.1' 6;D'2').'B806.V.>6?'M:*0*/D% Q ST' -1?' 1[1-6',1' 6,D*?6'M+*-% KQ'KRX'620'/*',' 1-' KO' *0% Q QX'0.=/6 F*0'6'.=*>;/6, 12' 6/?1.,'D1-0*-^ <6.=D6'M< [=*)X'M+*-% N X% ()*-*60 25'1',)*' *(' 25' 12' <62>)*.?% ()*'81-9'D*6-.'8,2*..',1')' .) .' 5 + '=1 2,.',1' 6?1,)C4 /*60' 8)>)' >62' .-;55/*' 8,)' :*5*/.'=-*+6 /*0% 6;D'86.'6'?62' 1'1/0')6-0/ '6 /,1'D*',)*'>1--*>,' 0*2, >6, 12% 86/0' 4*-?62' .?=/>, '5-*6,'?1-6/*2*-5 '620'86-?')18*+*-'1?"!' ' 'K'=% N R'21,*X'81;/0'>1--*>;' 6,) 6',1'D*',)*'>1?=6-*.' 8,)' :" '6' ,).' ,1' ; " '8)>)')*' >1?=6-*.' 8,)' :" ' =/6>*' -*=1-,*0'D ' ;->9)6-0,' I$ '=% RSX% ' ?,) 6,',1',)*' ..;0 '1 ' =-*.1/+*0',1'/*6+*.' 1-'>/1,) 25'B*-1?*'L%%!' ' 6>,)*2;.'+ '12*'1',)*' ;,>)' *1-?*-.' 86.'D1?'6,' =*-*2' 2' /620*-.% ' 62' *6-/ '65*' 86.'D1?'6,' =*-*2' 2' /620*-.% ' 62' *6-/ '65*')*' *2,*-*0',)*' 6-?*/,*' ?126.,*-' 6,' 1=*- 25*2% 6'=*-10>6/*2,,/*0'$ 'M:*0*/D% Q C S'+1/.%% : *-*')*D*>6?*' 6>_;6 2,*0' 8,)',)*' 01>,-2*' 1',)*' : .' 81-9.')6+*' D**2' =;D/.)*0'D' <6-)*' 2*9*' 620' * 1-?6, 12' 620' 86.' .1' >6=, +6,*0' X',',)6,')*' .112' ,,,*2D*-5*-'M *-/' QNQC ' ' +1/.%% ' *->-' 2 !=' -*.1/+*0',1'/*6+*',)*'?126.,*- '620'-*=6 -',1' 25/620% + '% 2' 12012' / *' 1//18*0',)*' 1>>;=6, 12' 1' 6' =- 2,*-% ' 0 2D% 2A1 25'/D*-, '1'>12.>*2>*';20*-',)*-*52'1' 0^ ;' Q S K? >=% K NX' F $ +-Y . 6 ' ' ' ;"'M *-/% QN XT' ,-6;..' " + + ' !') J' + G' :*-[15';=6 + %f' L L 'NR

6 ; D . 2 ' ' ' 6' 0 + 2*' 1 ',) *') ; ->)' 1 ' 25/620 ' 86.' D1-2' 2' - .,1/ ' 620' 86.' *0 ; >6,*0' 6,' & 2>)*.',*-' >)11/ 620' 6,' *8' 1//*5*' L 1-0% : *' D*>6?*' + >6-' 1 ' 1-,)' -60/* ' QT 1D,6 2*0' 6' =-*D*20' 2' 6/ .D ; - ' 6,)*0-6/ 2' Q T 86.' 6==1 2,^ *0' 6->)0*6>12' 0 ' 6- ; ?' 2' Q T 620' 0 *0' 2' QK % *. 0*.' 2 ; ? *-1 ; .' .*-? 12.' 620' >)6-5*. ') *' .',) *' 6 ; ^ ,) 1-' 1 '&' ? ' ' B*' + +'M 1)0%'-1 6/ Q+1' QN XT' N ;' 6 ' & ' M 120% Q N' Q+1X T' 5 =M + ' '; " ' 2 ' " ' ' % ' " '$ %=' E' U .>1,,-.*.' MN +1/.% Q+1 ' 720% Q KC SXT A 0' 1 ' ? 21-' 81-9.% ,' 1-,)' -60/*E ') *' D ; /,' 6/? .C) 1 ; .*.' 1-',8 *'/+*'=11-'=*-.12. '62'6. /; ? '620'6' .>)11/C-11?' 620' ,) *' >) ; ->)' 6,' 10*' 86.' *-*>,*0' =6-,/ '6,') .' *L^ =*2.*! T " 'D ' ' !' 5 ' L ' % 6 ; D ; [' ' ' 6' -*2>)' -1,*. ,62,' 0 + 2*' 86.' D1-2' 2' ' >6? *' ,1' 25/620' 12' ,) *' -*+1>6, 12' 1 ',) *' 0 >,' 1 ' 62,*. ' 620' D*>6? *' + >6-' 1 ' -1,)*-C ,12 ') *.) -*% : *' 0 *0' 2' % : ' ' " ' ; "' '5 ' M 120% K ' 1/ 1X .' 6' ?1.,' */6D1-6,*' 81-9 ',1' 8) >)' /6,*-' 8 - ,*-.') 6+*' D**2' ? ;>)' 20*D,*0' 620' 8) >)' .' 12*' 1 ',) *' ?1.,' /*6-2*0' D119.' 8 - ,.*2' 12' ,) *' =1>6/ =.*% ()*' 6D- 05?*2,' D ' 62^ >6.,*2' 12' M 120% N ' ,1X' 1-?.' 6' 5110' 626/ . .' 1 ' ,.' >12,*2,.% 1,)' 81-9.' 6-*' -6-*% : *' 6/.1' 8-1,*' '@ 'D %" ' 'D ' " '/ D-' 0 ; 1 '>; ?' =--* 6, 12*' B% 4-6+*' M 12012' S' Q+1X% ' 6-/ 25' % ' ; %" ' .% + %T 1.*' ; !' ' 0 + ' KST // 1,,' # '&% % ' + ' T' : 1?*' 9 ' 'NQQ' R,)' *O% 6 ; 5) , *-' M K ' " " ' 1-' 6 ' *-2' 1 ' :' 1 f%E' 6' 81-0' ; .*0' 2' >- =, ; -*' 2' 6' +6- *, ' 1 ' .*2.*.' .1?*' 1 ' 8) >)' 6-*' ; 292182' ,1' 1 ; -' 182' /62^ 5 ; 65*' 1-') 6+*' 12/ ' D*>1?*' 92182' ,) -1 ; 5)' 6? / 6- ^ , ' 8 ,)' .>- =, ; -6/ 1-? .' 1 ' .=**>)% **' 8 5 4!' *^ . 0*.' ,.' ; . ; 6/ 620' =-1=*-' .*2.*' 1 ' M %X' 6' 06 ; 5),*-' D1-2' 1-' 601=,*0' 8*' 20' ,' ; .*0',1' 0*. 526,*' MK%X' 6' ; ,*- 2*' . .,*-' 2 *>*' 1-' *?6/*' 0*.>*2062, M4*2% dd' KT LL +' QT LL+ 'ST LLL+ 'KT ; ?% LL+' T *; % LL ' X% MN%X & 1?*2' 6.' 26, +*. '-*. 0*2,.' 1-' =-1 *.. 25',)*'-*/ 5 12' 1 '>*-,6 2'=/6>*. '6.' 7',) *' 06 ; 5)^ ,*-' 1 ' U 12J' M .6' : ' SXT 06 ; 5),*-.' 1 ' ,) *') / .^ , 2*.J' MK' 6?% ' K XT '06 ; 5),*-' 1 ' 6' .,-625*' 510J' M<6 % ' XT 06 ; 5),*-.' 1 ' ?*2 J' %*% >6-26/ 81?*2' M4*2% + ' KX' *,>% M %X' <*,6=)1- >6// ' .?6//,182.' 6-*' >6//*0' 06 ; 5),*-.' 1 ' 2* 5) D1- 25' /6-5*' > , *. ' ?*,-1C =1/*.' 1-' ?1,)*-' > , *. ' ,1' 8) >)' ,) *' D*/125*0' 1-' -1?' 8) >)' ,) *' 8*-*' 0*- +*0' 6.' : *.) D12' 620' 6//,) *' 06 ; 5),*-.' \ ; ,) % *-.' (f ,) *-*1 J' M ; ?% LL ' K XT .1' (72-*' .' >6//*0' ,) *' 06 ; 5),*-' 1 ' 012' M .6% LL ' KX' 6.') 6+ 25' D**2' 1- 5 26// ' 6' >1/12 ' -1?' ,) *2>*T 620') *2>*' 6/.1' ,) *' ,182' 1 ' D*/ .' >6//*0' '6' ?1,) *-' 2' .-6*/J' MK' 6?% LL ' RXT 620' 46,)' .' 2' 12*' =/6>*' M>1?=% K 6?% + ' T' ')-12% L+ ' X' >6//*0' 46,) C ?? 6) ' 1-' 46,)' ,) *' " ',182' %& ',1' 0 ., 25 ; .)' ,' -1?' ,.' 182' 0*=*20*2> *. ' 1-' -1?' 62^ 1,) *-' =/6>*' >6//*0' 46,) % ** ! 1?=' 1,) *-' 2.,62>*.' 2' ; ?% LL ' NKT B ; 05% L ' KST B1.) ' L+ ' *,>% M %X' ()*' =*1=/*' >1//*>, +*/ ' 1 '62 ' =/6>*' ,) *' 26?*' 1 ' 8) >)' .' 5 +*2 ' 6.' ',) *' 06 ; 5),*-' M,% *% ,) *' =*1=/*X' 1 'B*-; .6/*?') 6,)' .) 69*2') *-') *60' 6,' ,) *' J' M .6% LLL+ ' KKT .** 6/.1' .6% L/+' NT I>LLL+ ' QT .6% d' XL T B*-% L/+ ' RT 6?% + ' KKT U*>) % L' RX% () .' ?*,6=)1-' .' //; .,-6,*0' D ' ,) *' 6/?1.,' ; 2 +*-.6/ >; .,1?' 1 ' -*=-.*.*2, 25',182.' ; 20*-' ,) *' 5 ; -*' 1 ' 6' 81?62% MS%X' ()*' 81-0' 06 ; 5),*- J' 1//18*0' D ' 6' 2 ; ?*-6/ ' 20 >6,*.' 6' 81?62' 1 ' ,) *' 65*' 20 >6,*0' D ' ,) *' 2 ; ?*-6/ '6.' 8) *2' 6-6) ' M 2' ,) *' 1- 5 26/X .' >6//*0 ,) *' 06 ; 5),*-' 1 '2 2*, ' *6-.J' M4*2 ' L+ ' X' M %X ()*' 81-0' 06 ; 5),*-J' .' 6/.1' 6==/ *0',1' ,) *' % 1 '62 ?6/.' ,-**.' 1-' =/62,.% ()* ; .' 06 ; 5),*-' 1 ',) *' .) *C1.,- >) J' M. ; ==1.*0X' 1-' ' *?6/*' 1.,- >) J' M *+' L/ SXT B1.*=)' .' >6//*0' '6' - ; , ; /D1 ; 5)' 8) 1.*' 06 ; 5) ^ ,*-.' MD-62>)*.X' - ; 2' 1+*-' ,) *' 86//J' M4*2% L/ L' KKX ,,1' .% *' ! ( ) *' >120 , 12' 1 ' 06 ; 5),*-.' ,) 6,' .' 1 ' 1 ; 25' 81-2I' *2' 2' ,) *' 6.. ' ,) * -' *?=/1 ?*2,.' 0 ; , *. ' *,>% ' ?6 ' D*' 56,) *-*0' -1?' +6- 1 ; .' =6 ,.' 1 ' >- =, ; -*' 620' .**?.' ,1') 6+*' D1-2*' D ; ' / ,,/*' -*.*?D/62>*' ,1' ,) 6,' 1 ' 1 ; 25' 81?*2' 1 ' -7=*>,6D/*' =6-*2,65*' 6?125' 1 ; -.*/+*.% *D*96)' 0-*8' 620' *,>) *0' 86,*-T 6>) *' 9*=',.) **=' 6.' 0 0',) *' 06 ; 5),*-.' 1 'B*,) -1',) 1 ; 5)') *' 86.' 6'=- *.,' 1-' 6' =- 2>*' 1 ' < 0 62% ()*' .' ; =*- 2,*20*0' 620' =*.^ 1-?*0' 01?*.,>' .*-+ >*.' 1-' ,) *' 6? / T (6?6-' ,D1 ; 5A' 6' 9 25 .' 06 ; 5),*-' D69*0' D-*60T 620',) *' .6?*' 1 ' 1,) *-.% & *') 6+*' ,) *' .6?*' 1>>; =6, 12.' 1-' ,) *' 06 ; 5),*-.' 1 ' =- 2>*.' 2' ,) *' 62> *2,' =1*,.' 1 ' 8) >)' : 1?*-' .' 62 ; 2_ ; *., 126D/*' *+ 0*2>*% ' 6/?*,' .% +% **' ' 'g > $ 'g " 'g ! ()*' 1- 5 26/ ,*-?.' -*20*-*0' 06 ; 5),*-C 2C/68 J' 6-*' 2' ,) *' : *D% + "(:' *=, '620' *8' (*.,% D1,)' / ,*-6// '?*62 25'6' " 'M6.' */.*8) *-*' -*20*-*0X' 620' 6==/ *0',1' 6' ' ! 6+*262, ' (' ' % %' D .) 1=' 1 ' 6/ .D ; - '86.' D1-2' 2' 12012' 6D1 ; ' '620' 86.' *0 ; >6,*0' 6, # ; **2 .' 1//*5*' 6?D-05*% 2' Z R' 6' *//18.) = 86.' 1 *-*0') ?' 8) >)') *' 6>>*=,*0' 6 ,*-') .' 6,) *-.' 0*6,)' 2' R I' 2' S R) *' 86.' */*>,*0' 60' ' <6-56-*, =-1 *..1-' 1 '0 + 2 , % 2' S ') *' 86.' >) 1.*2' ?6.,*-' 1 ') .' >1//*5*' 620' 2' S Q 86.' 12*' 1 ',) *' 1 ; -' 0 + 2*.' .*2,' ,1' ,) *' 210' 1 ' 1-,' D ' B6?*.' % ** : *' -*, ; -2*0',1' 25/620' 2' <6 ' S R' 6 ,*-') 6+ 25' + . ,*0',) *' ?1.,' *? 2*2,' > , *.' 2' ,) *' *,) *-/620.% 2' SK ') *' 86.' 6==1 2,*0',1' ,) *' .** 1' 6/ .D ; - T D ; ,' 2' SN CN ') *' 2>; --*0',) *' 0 .=/*6. ; -*' 1 ' ,) *' >1 ; -,' D ' 6' .*-?12' 12' =-*0*., 26, 12' '6// >; - 1 ; .' .*6->)' 2,1' 8) >) J' ,) *' 9 25' 2') .' 0*>/6-6, 12' =-* L*0' ,1' ,) *' ( ) -, C2 2*' -, >/*.' 2' SKQ') 60' .,- >, / ' *2A1 2*0' ,1' D*' /6 0' 6. 0*%J' ()*' D .) 1=' 0 *0' 1 ' >12. ; ?=, 12' H7 S % : *' 86.' 6' ?62' 1 ' 5-*6, /*6-2 25% : *' =; D^ / .) *0' 6 % ' 6% 2' % ' ' M 6?^ D- 05*' SN ' KO' *0 , 12' 1/% T ,-62./6,*0' D ' //=1-,' 12012' QN ' K' +1/.% Q+1X' " " ' !' % ' M 62,6D% SN ' 1/%XT ' =' 4 ' " ' M 62,6D% KO' *0 , 12' S7R' 1/%XT ' J' ' ' ' 2' ' ' =' (= ' M 6?D% SN X% ',-62./6, 12' 1 '12*' 1 ',) *' =' '6==*6-*0' ; 20*-',) *' , ./*' &' - ' 'D =' ' ' ' ' ' ' M 120% Q C S' K' +1/.% Q+1X% ,*-' D .) 1=' 6+*262, .' -*^ , ; -2' -1?',) *' 210' 1 ' 1-,') *' = ; D/ .) *0' 62' *6-2*.' 6==*6/ 1-' -6,*-26/ ; 2 12' 6?125',) *' * 1-?*0' >) ; ->)^ *.' ; 20*-',) *' , ./*' & ' ' ' 6 ' " ' M 6?D% S T ,-62./% 2,1' 25/.) ' S ' Q+18! T ; %" ' ; ' + ' SKR% 6+*2=1-,') -.,1=) *-' 62' 25/.)' 1?62.,' 0 + 2*' 86.' D1?' 6,' 1+*2,-' 6D1 ; ' RQ' 620' 86.' .*2,' ,1' /*-,12' 1//*5*' L 1-0' 6,' 'D ; ' 86.' =*-.; 60*0' 6,' 'D ' 6' =-*.,' ,1' 51' ,1' ,) *' 1?62.,' >1//*5*' 6, 1 ; 6 ' -62>*' 620' ,) *2>*' ,1' =-*.% : *-*') *' D*>6?*' 6' 1?62.,' 620' 6' -62> .>62% $20*-',) *' 26?*' 1 ' -62> .>; .' 6' 62>,6' /6-6') *' >6?*' 6.' 6' ? .. 126- ',1' 25/620' 620' 86.' ? 7*' >) 6=/6 2',1' : *2- *,,6' <6- 6' >12.1-,' 1 ')6-/*.' % 6+*2=1-,' 86.' 6' ?62' 1 '/*6-2^ 25' 620' 1 '5110' 600-*.. ' 620') *' /6D1-*0' [*6/1 ; ./ '620' .; >>*.. ; // ' 1-' ,) *' >6 ; .*' 1 ' 1?% 2',) *' 0*6),)' 1 ')6-/*.' ') *' 8*2,' 6D-160' 620' 12/ '6==*6-*0' 2' 25/620' 2' 0 .5 ; .*' ; 2, /',) *' -*.,1-6, 12' 1 ')6-/*.' ' 8) *2') *' D*>6?*' >) 6=/6 2' 1 '_ ; **2' 6,) 6- 2*' 620' =-1^ + 2> 6/ 1 ',) *' 25/.)' -62> .>62.% : *' 0 *0' < 6 ' N ' SQ % ?125') .' 8 - , 25.' 6-*' %" '6 % # ' & (' & M , , "(' 2*8' ,-62./% ' 120% QS XT ' '7 '? 'M SQ XT' D1,)' 81-9.' 6 ? 25',1' .D1f0',) 6,',) *' 25/.)' -, >/*.' 6-*' 21,' -*6/^ / ') 1.,/*,1' 1?*! T 7 '? ' ; ! ' ' + ' NK % 6+*2=1-,' B1) 2' M*/0*-'D-1,) *-' 1 ')- .,1=) *-X' 62' *? 2*2,' 125-*56, 126/? 2 .,*-' 86.' D1-2' 1+0' *2,- ' 25/620' R % : *' 86.' .*2,' <*-,12' 1 ' /*5*' L 1-0' S N' 620' 6 ,*-' =6.. 25' %7%O' D*' *2,*-*0' ,) *' ? 2 .,- '6,' 2 2*,**2% : 6+ 25' .*-+*0' 6' .) 1-,', ?*



/*>, 12' 1 ',)*' 8*// 1 ' *,D/*)*?' .' 12*' 1 ',)*' ?1.,' ,1 ;>) 25' 2> 0*2,.' 1 ') .' /6,*-' / *' M ')-12% L ' X% -1?',)*',*-- ,1- '1 ' *,)/*)*? '6.' -1?') .'182'=6,^ - ?12 ')*' 56+*' 6' = *>*' 1 '=-1=*-, ' 6.' 6' -*86-0' ,1') ?)6?'.12'1 ' 6-[$6'MK' 6?% L L 'N NQT' B*-% L/ X' % ,' .',) .' >122*>, 12' 1 ' 6+ 0' 8 ,)' *,)/*)*?': *' 86.' -*.,-6 2*0' D ' 0 + 2*' 2, ?6, 12' 6.' .;2' 6 ,*-' ,) 6,'56+*' ?=1-,62>*',1',)*' =/6>*' 656 2' 2'/6,*-', ?*. ' .12'=6..*0'D % / 6D',)*'*/0*.,'D ' ')' .')*>1;2,*262>*J'.**?*0',)*' 26,;-6/' >1;2,*-=6-,' 8)*2'B1.*=)*' 8*2,';=',1' *,)/*)*?' D*>6;.*')*' 86.' 1 ',)*')1;.*'620'/2*65*'1 ' 6+ 0 'M ;9*' 'X% 1 ' 6;/' 8)1.*' - +6/';29218 2',1',)*?' ',)*' =-1=)*,' M>X' :.'5*2*-6/'>122*>, 12' 8 ,)',)*',- D*' 1 'B;06)' >6?*' ,1' .*/*>, ;',)*' 06 ')60'512*' D ' 8)*2'9 25.' 2' 8) >)',)*',- D6/' **/ 25'6==*-.',1')6+*' D**2' .,-12^ 8*-*' >)1.*2' D*>6;.*')*' 8*-*')*60'620' .)1;/0*-.' 5*-',)62' 2'62 '1 ',)*' 1,)*-.% ()' >122*>, 12' ?;.,' ,6//*-',)62',)*'-*.,% 6?;*/ .6 0' ;2,1'B*..*' ->' D*' D1-2*' 2' ? 20',)-1;5)1;',)*' .,1- 'D1,)' 1' 6^ ,)*.*' 6//',) ' >) /0-*2'H 20')=' .6 0' ()*-*' *,' ->C + 0 .' .*>;- , '6?125',)*') //.' 1 'B;06)' 0;- 25') .' ?6 2*,)' ,)*' 1;25*.,' 620' D*)1/0')*' 9**=*,)' ,)* / 5),' -1?' 6;/' 620' 1',)*' *6-/ '=*- 10' 1 ') .' -* 52' .>,+ ,' ?60*') ?'W/ 9*') .'/*'/ 9*' 6' 8 /0' 6,' : *D-12' 6.' 8*// 6.' 1',)*' A*6/1;. ' 1',)*',- D*' 6,' 56[*//*') .' **,' / 9*')6-,.' **,'620') .' 6-?.' .,-125')6+ 25' /1.,' ,)* -' *L>/;. +*' =1..*.. 12' 1 ') ?' 8) >)' *21;5)',1' D-*69' 6' D18' 1' ..**/ M .6% L+ 'NN' N X% D-19*' 1;,' 2',)*' -*+1/,'1' D.6/1?% :*' 86.' =;-.; 25',)*' 1>>;=6, 12' 6//1,,*0' 2' 6.,*-2' I 8' : .'-*/6, 12.',1'U*-; 6)'620' D 56 /% ()1;5)' D*1;2,- *.';.;6// ',1',)*' ./6+*.',)*' *?6/*.'1-',)*' 0*^ >6//*0' 2' ')-12% ' S'..,*-.'1 ' 6+ 0',)*' 6-*' 21,' .=*.*0'1' ,)*' 6?/'M>1?=',)*' >6.*' 1' <1.*.' = 'B6^ *L=-*../ '>6//*0',)*' 06;5),*-.'1 'B*..*' 620' D 56 /' >1D'1 'U ==1-6)'620'1' 6>)*/'620' 2'/6,*-',?*.'1' 2'K 6?% L+ 'K' .' >6//*0',)*' 06;5),*-'1' 6)6.)% <1)6?7*0' =-*25*-'=% QX% ()*=6.,;-*.'1' *,)^ .',,11' ?;>)',1' .;==1.*',)6,' 6+ 0.' ?1,)*-' 6//*' 6-*' 6?1;.',)-1;5)1;',)*')6>*0').-1- % ()* D-*,)-*2% ()*'*/0*.,'D-1,)*-'8)1'6/12*' .'?*2, 12*0' (18*-' 1')*=)*-0.'M4*2% LLL+ 'K X' 86.',)*-*' 620' 2'>122*>, 12' 8 ,)')?'620'8)1'86.'6 ,*-86-0.'?60*' ,)*-*,11',)*'.)*=)*-0.'6D10*' 80,)',)*-' /1>9.'D '2 5),' D')?')*60' 1',)*',- D*' 1 'B;06)')-12% LL+ QX' ,-*6,*0')?' .>1-2 ;// '620' ?=*- 1;./' M ' 6?% M 7/>*' X% :*';.;6// '>6-- *0'6' .8 ,>)'1-'7+6 0' 2')')620'M ' 6?% L+ ' X' .;>)'6.' 81;/0'D*' ;.*0' 1-')' L+ 'KQX' 6.',)*' */0*.,'D-1,)*-.' 1'/6-5*0' 6?/*.'6->')620'M ' 6?% L+ ' X' .;>)'6.' 81;/0'D*' ;.*0' 1-')' 6=,'1'6>,1')' .'>1?2620'86.'-*56-0*0' 2',)*' 6?/'6.' 015.' ML+ '-X' 620'6' .>-='1-'86//*,'-1;20').' 2*>9' /68'MLL' KRXT' 620',)*' 6,)*-'/119*0';=12',)*' 1;25*.,' ,1'>6 (X'62 ,) 25',)6,'86.'2**0*0' 1-')..)*=)*-0.' .12'6.')6-0B'12*' 1',)*' 6?/'6,'6//ML+ ' X'620'6.' *ML+ ' X% ;>)'86.',)*'1;,*-'/ *'1' 6+ 0'8)*2' 6' 2*-*' 6.,*2062,'12',)*'-*..'ML+ ' X% ()*' 6?/M6.',)*'/6,*-' .6/?.,)*' 0*.>-D*0').' >6//X')*' 86.' 6-',)*' 8)1'/1.,'8',)')' .'D-1,)*-.';)**=1/0.' -1?' 1//18 25',)*'*8*.' ,69*2' -1?',)*'.)**=1/0.' -1?' 1//18 25',)*'*8*.' 5-*6,'8,)' 1;25','1' **0' .-6*/6>>1-0 25',1',)*' 2^ ,*5-,'1')')*6-,'620',1'5; 0*',)*?' ,)*'.9/;/C 2*..'1')' .')620.J'M .6% LL+ ' C KX% ()*-*>1/^ 6?/'8*-*'=-1D6D/'1',)*'.6?*'65*'6.' 6+ 0')?^ /*>, 12' 1',)*'.;00*2'620'5-*6,'*/*+6, 12' -1?',).' .*/'620',)*'6>>1-0 25/'8*-*',1')?'*.=*>6// ',)*'); ?D/*'.,6, 12'.' 0**=/' ?=-*..*0' 12')' 6 ,*-'/*% ,)-**'.12.'1'U*-; 6)',)-1;5)1;'/*' 2',)*'-*/6, 12' ()*?62'8)1'86.'-6.*0';='12') 5)J'MK' 6?% LL ' ;.;6// '1>>;=*0'D'D-1,)*-.'620'>1;.2.% 2',)*?' X' ' ')6+*'*L6/,*0'12**>)1.*2'1;,'1',)1'=*1=/*I' 8*'.**',)*'-1;5)*_;6/,*.'1',)*'6?/'8)>)' 6^ M .6%I/LLL L' RX' ',119',)**' -1?',)*'.)>>=>1,1J' + 0'.)6-*0'8,)',)*?'8)/*')*'86.'0.,25;.)*0'-1?' MK' 6?% + 'QX% ()*'*+*2,'..*/'=-*=6-*0')?',1'01' ,)*?'D'_;6/,*.'=*>;/6-',1')?.*/%' ()*',81'.12.' ,)6,'2'8)>)' 6;/)60'.1'*?2*2,/'6/*0'+[%,1'-*>^ 1')'D-1,)*-')?*6)'6-*D1,)'.**?',1')6+*'D**2'*2018*0'8,)')'.'6^ 12>/*')'.'182'?/6-'51+*-2?*2,'8,)'.)6/'-*.=*>,' ,*-')..,1-'620'D1,)'.**?',1')6+*'D**2'*2018*0'8,)' 1-',)*'=-1=)*,.'620'62')121-6D/*'=6,-1265*'1',)D' ,)*'.656>,'2'8)>)' 6+ 0')?.*/'*L>*//*0% 2* =-'.126/*.*/'C0*2 6/ 86.'B12606D',)*'-*20'620'60+.*-'1')'*/0*.,'.12' 620'/D*-6/,'M'6?'LLL'K CN T')-12% L' QX% ?212'MK' 6?% L 'NXT',)*'1,)*-'86.'B126,)62'MK' N% ;',)*-*'86.'621,)*-'=-*=6-6, 12' ,//?1-* 6?'LL'K X'8)1'6,*-86-0.'D*>6?*',)*'>1;2.*//1-' 2**0*0' 1-')'1 >*'8)>)'=-1D6D/')60'?60*')?' 1'6+ 0')?.*/'M')-12% LL+ 'NKX% ,'.'6'>12% *>^ 6/-*60'92182',1' 6?;*/'620'8)>)'6;/)60'.1'*?2*2,/'6/*0'+[%,1'-*>^ ,;-*'1-',-60, 12'1',)*B*8.7-*.*-+*0'DA'B*-1?*'>!' 12>/*')'.'182'?/6-'51+*-2?*2,'8,)'.)6/'-*.=*>,' # "!2 12' 6?% L+ 'KX',)6,',)'.'86.'21'1,)*-',)62' 1>*'8)>)'=-1D6D/')60'?60*')?'7 " ',)*'=-1=)*,'8)1'D*25'601=,*0'2,1'B*..*.' 6?/'?69*.';=',)*'*5),)'.12'21,'26?*0'2'')-12% 6-'6,'8)>)'6;/)60'.1'*?2*2,/'6/*0'+[%,1'-*>^ NC ;,',) .')6-0/'=-1D6D/*% 12>*'60?,;':.',1',)*'8)1/* 6?/'>-/*% 4 % ()*-*'86.'6'=-6>,>*'12>*'6' *6-'6,' *,)/*)*?'=-1D^ 6D/'6,',)*' -.,'2*8'?112'1',)*' *6-'1')1)0 25'6' .6>- >6/ *6.,'6,'8)>)%B*..*'6.',)*'>)*'=-1=-*,1-' 1',)*'=/6>*'81;/0'=-*.0*'M' 6?% LL'SX'8,)',)*' */0*-.'1',)*',182% ,'.)'1-'.;>)'/9*'*6.,ML+ 'X .;00*2/'6==*6-*0',)*'5-*6,'=-1=)*,' 6?;*/'0-+25' 6')*' *-'D*1-*')?'620')6+25'2')'.')620'6')1-2'1' ,)*'>12.*>-6,*0'1/1',)*'(6D*-26>/*' ()*'*/0*-.'1' ,)*'/,,/*',182'8*-*',*-- *0'6,',) .'6==6-,12'D;,' 8*-*'-*6..;-*0'D ',)*'6;5;..'+ .,1-'620'2+,*0'D ')?',1',)*'>*-*?12'1'.6>- >25',)*')* *-% ()*)*-*'86.'9//*0% ()*=6-,'8*-*'86,25',1'D*5 2' ,)*'*6.,% 6?;*/..,110'8,)'D.')1-2',1'=1;-' 1-,)' 1/'6.' 1'1-'62'2+,6, 12'1'D*5 2'M>1?='L'KKX% ,)*'86.'-*.,-6 2*0'D '0 + 2*' 2, ?6, 12'6.'.;2'6 ,*-' .12'=6..*0'D % / 6D',)*'*/0*.,'D' ')'.')*>1;2,*262>*J'.**?*0',)*'26,;-6/'>1;2,*-=6-,' 1'6;/'8)1.*' - +6/';29218 2',1',)*?',)*'=-1=)*,' >6?*',1'.*/*>, % ;',)*'06')60'512*'D'8)*2'9 25.' 8*-*' >)1.*2'D*>6;.*',)*'8*-*'D**2'.,-12^ 5*-',)62'2'62'1',)*'1,)*-.% ()'>122*>, 12'?;.,' D*'D1-2*'2'?20',)-1;5)1;',)*',1-'D1,)'1' 6^ + 0.' .*>;-, '6?125',)*')//.' 1'B;06)' 0;-25')./5),'-1?' 6;/'620'1',)*'*6-/'=-*-10'1') .'-* 52' 6,' :*D-12'6.'8*// 6.'1',)*'A*6/1;.'1',)*',-D*' 6,')6+25'/1.,',)*-'*L>/;.+*'=1..*..12'1')?')8)>)' D-19*'1;,'2',)*'-*+1/,'1' D.6/1?% I 8' :.'-*/6, 12.',1'U*-; 6)'620' D 56 /% ()1;5)' >6//*0'2')-12% ' S'..,*-.'1' 6+ 0',)*'6-*'21,' *L=-*../'>6//*0',)*'06;5),*-.'1'B*..*'620' D 56 /' 2'K 6?% L+ 'K' .' >6//*0',)*'06;5),*-'1' 6)6.)% .',,11'?;>)',1'.;==1.*',)6,' 6+ 0.' ?1,)*-' 6//*' D**2',)*'8 *' 1-'>12>;D 2*' 1' 6)6.)'620',)*2'?6-^ - *0'D'B*..*'H () .' 81;/0'65-**' 8,)',)*'0 *-*2>*' 1'65*'D*,8**2' 6+ 0'620').' ..*-.'620'6/.1'M ' 6^)6.)'86.',)*' .6?*'6.',)*' 9 25'1' ??12%8,)',)*' 9 202*..*.'8)>)' 6+ 0'-*>* +*0' -.,' -1?' 6)6.)'MK' 6?% d KX'620',)*2' -1?')1D'.12'1' 6)6.)'ML+ K X% K% .',)*' 1;25*.,'1',)*' 6?/ ')*'?6 '=1..D*1;2,- *.';.;6// ',1',)*'./6+*.',)*'*?6/*.',)*'0*^ .=.*0'1',)*' 6?/'M>1?=',)*'>6.*' 1'<1.*.'='B6^ >1D'1 'U ==1-6)'620'1' 6>)*/'620' 2'/6,*-',?*.'1' <1)6?7*0' =-*25*-'=% QX% ()*=6.,;-*.'1' *,)^ /*)*?'6-*' 6?1;.',)-1;5)1;',)*',-D*0',)-1-% ()* (18*-'1')*=)*-0.'M4*2% LLL+ 'K X' 86.',)*-*' 620' ,)*-*',11',)*'.)*=)*-0.'6D10*' 80,)',)*-' /1>9.'D '2 5),' 620'M ' 6?% L+ ' X' .;>)'6.' 81;/0'D*' ;.*0' 1-')' 620'M ' 6?% L+ ' X' .;>)'6.' 81;/0'D*' ;.*0' 1-')' 6=,'1'6>,1')' .'>1?2620'86.'-*56-0*0' 2',)*' 6?/'6.' 015.' ML+ '-X' 620'6' .>-='1-'86//*,'-1;20').' 2*>9' /68'MLL' KRXT' 620',)*' 6,)*-'/119*0';=12',)*' 1;25*.,' ,1'>6 (X'62 ,) 25',)6,'86.'2**0*0' 1-')..)*=)*-0.' .12'6.')6-0B'12*' 1',)*' 6?/'6,'6//ML+ ' X'620'6.' *ML+ ' X% ;>)'86.',)*'1;,*-'/ *'1' 6+ 0'8)*2' 6' 2*-*' 6.,*2062,'12',)*'-*..'ML+ ' X% ()*' 6?/M6.',)*'/6,*-' .6/?.,)*' 0*.>-D*0').' >6//X')*' 86.' ',69*2' -1?',)*'.)**=1/0.' -1?' 1//18 25',)*'*8*.' 5-*6,'8,)' 1;25','1' **0' .-6*/6>>1-0 25',1',)*' 2^ ,*5-,'1')' .')*6-,'620',1'5; 0*',)*?' ,)*'.9/;/C 2*..'1')' .')620.J'M .6% LL+ ' C KX% ()*-*>1/^ /*>, 12' 1',)*'.;00*2'620'5-*6,'*/*+6, 12' -1?',).'); ?D/*'.,6, 12'.' 0**=/' ?=-*..*0' 12')' 6 ,*-'/*% ,)-**'.12.'1'U*-; 6)',)-1;5)1;'/*' 2',)*'-*/6, 12' ;.;6// '1>>;=*0'D'D-1,)*-.'620'>1;.2.% 2',)*?' X' ' ')6+*'*L6/,*0'12**>)1.*2'1;,'1',)1'=*1=/*I' M .6%I/LLL L' RX' ',119',)**' -1?',)*'.)>>=>1,1J' MK' 6?% + 'QX% ()*'*+*2,'..*/'=-*=6-*0')?',1'01' ,)6,'2'8)>)' 6;/)60'.1'*?2*2,/'6/*0'+[%,1'-*>^ 12>/*')'.'182'?/6-'51+*-2?*2,'8,)'.)6/'-*.=*>,' 1-',)*'=-1=)*,.'620'62')121-6D/*'=6,-1265*'1',)D' =-*.,)110% *.0*.',).')*'D*>6?*'92,'2,1'6'D120' 1'D-1,)*-)110'8,)',)')*-1>'>1?-60*.',1'8)1?')1' 86.'*?2*2,/'*20*6-*0'D')..'=*-.126/*.*/'C0*2 6/ 620'/D*-6/,'M'6?'LLL'K CN T')-12% L' QX% N% ;',)*-*'86.'621,)*-'=-*=6-6, 12' ,//?1-* 2**0*0' 1-')'1 >*'8)>)'=-1D6D/')60'?60*')?' 6/-*60'92182',1'6?;*/'620'8)>)'6,'62'-6,*'.') .'2*L,'2,-10;>,12',1',)*')..,1-% &)*2',)*'D10 ^ 5;6-0'1'6;/8*-*'0.>;..25'8,)',)*'-'?6.,*-'8)*-* ',)*'D*.,'?2.,-*/>1;/0'4'1;20',1'>)6.*'686')' .' ?602*..'D'?;.>'12*'1',)*'1;25'?*2'2',)1'5;6-0' .;55*.,*0'6+0'6;/8*-*'0.>;..25'8,)',)*'6D.1/;,*'>12,-1/2^)*-*2,'2'0*6'1'62'-*2,6/9 25'2.,62,/'.*2,' 1-')?'620'2',)*'.;>>*..;/*1-,'1'6+0.')6-=' 8*')6+*',)*'-.,'5/?=.*'2,1',)6,'5*2;.'1-'?;.>' 620'=1*,-'8)>)'86.'6,*-86-0.'>12.*>-6,*0'2',)*' .6/?.%' .'?=1..D/*'21,',1'>122*>,',)*'*6-/A'0.^ =/6'1',).'5 ;8,)',)*'.>)11/.'1',)*'=-1=)*,.'8)1' *L*-> .*0',)*-'+1>6, 12'8,)',6D-*,7=NZA/,*-'='=*' 620'6-='M 6-6'L'X'2',)*'=6.,;-*.'5@ %4!>1?=% .6%LL 'KX',1'8)>)')*'6,*-86-0.'-*,;-2*0'%6.',1

) .' 26, ; -6/)1?*' M ' 6?%L L ' QX% &)*,)*-'62 '1 ' ,)*' *L ., 25' .6/?.' >62' D*' -* *--*0',1',) .' *=1>)'1 ' 6+ 0 .' / *' .' ; 2>*-.6 2% ()*' KQO' -1?' ,.' .; DA*>, 1 ',)*' .)*=)*-0' 620' -1?' ,.' *L,-*?*' . ?=/ > , ' M,)1;5)' =/6>*0' D ' 86/0' .1?*8)6,'/6,*-X' ?6 ' 8*//)6+*' D**2' . ; 55*.,*0' D ' ,) .' , ?*% ()*' Q,D' dR,) 620' KR,) ' 8) >)' 6-*' ; 2 +*-.6// '-*>152 .*0'6.' 6+ 0 . 0*.>- D*' ,)*' =)*21?*26' 1 ' 26, ; -*' 620' 6.' . ; >)' M6, /*6..',)*', 81' 1-?*-X' ?6 ' ?1-*' 26, ; -6// 'D*' -* *--*0' ,1',) .' .-62_ ; /*=*- 10' 1 ' D .' / *',)62', 1' 62 '1,)*-% ()* =65*-' 1 ' 0625*-' -1?' 8 /0' D*6.,. ' / 12. ' 8 /0' D ; //. ' *, >*M .6% + 'KT' LL 'K ' K X ' ?6 ' D*' -*? 2 . I' >*2>*.' 1 ',) .' , ?*% 20' 218 ' 6, '62 ' -6, *') *' ? ; .,')6+*' -. ,' 6>_ ; -*0',)*' 6-, ' 8) >)' 56+*') ?' 12*' 1 ') .' >) * '>/6 ? .' ,1%? *2, 12' 2' 6 ,*-', ?*. ' ,)*' .8**,' . 25*-' 1 ' .-6*/J' MK' 6?%LL ' X' ,)*' 2+*2,1-' 1 ' 2. ,-; ?*2, .' 1 '?; . . >J M ?1.'+ ' SXT' 8 ,)') .' 8)1/*)*6-, ')*' . ; 25' .125.' 620' /1+*0') ?' ,)6, ' ?60*') ?J' M >>/ ; .% L/+ QX% % 2*' 2> 0*2, ' 6/12*' 1 ') .' .1/ ,6- ' .)*=)*-0' /)6.' >1?*' 0182', 1' ; . ') .' >12 / >, '8 ,)',) *' / 12' 620' ,)*' D*6-' 2' 0* *2>*' 1 ') .' 6,) *- .' /1>9.' M ' 6?%L+ ' Q ' N X% ; ' , ' 0 0' 21, ' . , 620' 6/12*% : *' 86.' 6/-*60 ' 92182', 1' 6 ; / .' 5 ; 6-0.' 1-') .' ? 6-, 6/*L=/1 , . ' =-1/7' 6D/ ' 656 2. ,' ,)*') / ., 2*.' ML+ ' QX' 620' 8)*2')*' . ; 00*2/ ' 6==*6-*0' 2',)*' >6?=') .' */0*-' D-1,)*-' ?^ ?*0 6, */ ' 5 ; *. .*0',) 6, ')*') 60' /*, ',)*' .)**=' 2') .' 6-01-', 1' .**',)*' D6, , /*' ML+ ' KQX% (1',) .' 2*8' 6. =*>, ' 1 ') .' >)6-6>, *-' 8*' 6-*' 2*L, ' 2, -10 ; >*0% % % SN% ()*' .>*2*' 1 ',)*' D6, , /*' .' 6, ' =)*. CO6?? ?' M_%+%X' 2',)*' -12, *-') //.' 1 'B ; 06) ' >6//*0' =-1D6D/ ' -1?',) .' 1-' . ? /6-' *2>1; 2, *-.' ,)*' D1; 20' 1 ' D/110%J' 6 ; / .' 6-? ' .' *2>6?=*0' 12' 12** . 0*' 1 ',)*' -6+ 2*7',)*') ^ / ., 2*.' 12',)*' 1,) *-' ,)*' 86, *->1 ; -.*' 1 ' /6) ' 1-' ,)*' (*-*0 2,) J' -; 2.' D*, 8**2',)*?*') / ., 2*' 1 '5D' 562, >' .,6, ; -*' 620' >/1,)*0' 2' >1?=/*, *' 6-?1-' 2. ; /, .' ,)*' >1?=6-6, +*/ '0* *2>*/*..' .-6*/ , *. '6?125' 8)1?' ,)*' 9 25' 6/12*' 6==*6-.', 1' D*' 8*// 6-?*0' ML+ ' NQT' >1?=' L ' K X% 1' 12*' >62' D*' 1 ; 20', 1', 69*' ; =' ,)*' >)6//*25*% ' ,) .' A ; 2>, ; -*' 6+ 0' 6==*6-.' 2' ,)*' >6?=' . *2, ' D ') .' 6,)*-' 8 ,)', *2' /16+*.' 620', *2' ./ >*.' 1 '>)**.*' , 1') .' ,)-**' */0*.', D-1,)*-. ' -*.)' *1?',)*' .)**=' 1/ /.% B ; . , 6.')*' >1?*.', 1',)*' > ->/*' 1 '86512.' 8)>)' 1-?*0' 6.' 2' -6D' .*, , /*?*2, .' 6'-; 0*' 1-, >6^ , 12' -1 ; 20',)*' .-6*/ , *' >6?=' ML+ ' K X') *')*6-.',)*' 8*//C9218 271 ; , ' 1 ',)*' .-6*/ , *' 86-C>- 'M>1?=% ; ?% LL ' K X% ()*' ?6-, 6/ .= - , ' 1 ',)*' D1 ' .' ., --*0' 6, ,)*' .1 ; 201')*' /*6+*.') .' =-1+ . 12.' 8 ,)',)*' D65565*C ?6., *-' 620' 06-, .' , 1' A1 2') .' D-1,)*-.' M/ 9*' 12*' 1 ',)*' -1A76/ ?*. . *25*-.X' 2, 1' ,)*' ? 0. , ' 1 ',)*' / 2*.% ()*2')*')*6-.',)*' >)6//*25*' 218' ?60*' 1-',)*' 1-, *,)', ?*' ' .**.',)*' 0 . ?6 ' 1 ') .' >1 ; 2, - ?*2 ' : *6-.' 1 7*' -*^ 86-0' =-1=1.*0' D ',)*' 9 25 ' 51*.' 8 ,)',)*' ?=*, ; 1. , ' 1 ' 1 ; ,)' -1?' .1/0 *-', 1' .1/0 *-', 6/9 25' 1 ',)*' *+*2, ' 2' .=, *' 1 ') .' D-1,)*- .' -*D ; 9*CIC)' 1' 2, -10 ; >*0' 1, 6/ ' ' ; 20*-, 69*.',)*' >1?D6, %' : .' + >, 1- '1+*-',)*' 5 562^ , >') / ., 2*' .' -*20*-*0' ?1-*' >12. =>; 1; .' D ') .' _82' 0 ? 2; , +*' ., 6, ; -*' 620' D ',)*' . ?=/*' 8*6=12.' 8 ,)' 38) >)' , ' 86.' 6>>1?=/ .)*0 ' 21, ',)*' 6-?1-' 1 ' 6 ; / ' 8) >)')*' 26, ; -6// ' 1 ; 20', 11' /6-5*' D ; ',)*' .)*=)*-0 .' ./ 25' 8) >)')*' 6/86 .' >6-- *0' 6D1 ; ' 8 ,)') ?' 620' ,)*' / +*' =1/ .)*0' =*DD/*.' 8) >)')*' = >9*0' ; =' 6.')*' 8*2, ' -1?' ,)*' 86, *->1 ; -.*' 1 ',)*' +6//* ' 620' = ; ' 2') .' .)*=)*-0 .' 86//*, % (81', -1=) *.' /125' -*?6 2*0' 1 ',)*' D6, , /*' 12*',)*') ; 5*' .81-0' 1 ',)*') / ., 2*' 8) >)' 86.') ; 25' ; =' D*) 20',)*' *=)10' 2',)*' (6D*-26^ >/*' 6, ' 1D' M ' 6?%LL 'RXT' ,)*' 1,)*-',)*')*60' 8) >)')*' D1-*' 686 ') ?.*/ ' 620' 8) >)' 86.' * ,)*-'/6 0' ; =' 6, ' 1D' 1-' . ; D.*_ ; *2, / '6, 'B*-; A6/*?% **' R ! .6/?' >L/ + ',)1 ; 5)' D ' , .' >12, *2, .' 1 '6' ?; >)' /6, *-' 06, *' .' D ' ,)*' , ./*' 2' ,)*!' *=, ' 656 2. , ' 41/6,)%J' , ; -*' .' 6/.1' 6' =.6/?' =-*.*-+*0' 2' ,)*% *=, ' 6, ' ,)*' *20' 1 ' ,)*' .6/, *-' 620' 8) >)' ,)1 ; 5)' =-1D6D/ ' 6' ?*-*' 606=, 6, 12' -1?',)*') .,1-A ' 8*// . ; ?. ' ; =' ,) .' *6-/ ' =*- 10' 1 ') ./ 7*a

() .% .',)*' =H6/?' 1 ' 6+ 0 .' 182' 8- , 25' MHX I 1=[% U% ' *-' 6 -\OX' 620' 1 ; ,. 0*',)*' 2 ; ?D*-' 8)*2')*' 1 ; 5), ',)*'. 25/*

>1?D6, '+' ,)' 41$6,)J' ' ' 81.7?6//6?125..' ? 'D-*,)-*2' 620' ,)*' 1 ; 25*.', ' ? ' 6,) *-. ' ; % ' 86.' **0 25' ? ' 6,)*-' . ' .)**=% < ') 620.' ?60*' 6') 6-= '620' ? ' 25*-.' , , *0' 6' =.6/, *- % 20' 8)1' .)6// , */ , ' 1' ? ' 1 0H' : *' , ' ') *' 1-0') *')*6-*,)% : *' . *2.') ' ?* . *25*-' M625*/HX' 620' , 119' ?*' -1?' ? ' 6,)*-. ' 1>9. ' 620' 621 2, *0' ?*' 8 ,)',) *' 1 / 1 ') .' 621 2, 25% < ' D-*,) -*2' 8*-*' D*6 ; , ; / 620', 6// ' D ; ',) *' 1-0' 86.' 21, %8*// =/*6. *0I' 8 ,)',) *? % ' 8*2, 1 ; , ' 1' ?**',) *') / .. 2*' 620') *' >; -. *0' ?*'D ') .' 01/.% .' ' 0-*8') .' 182' . 81-0' 620' D*) *60*0') ?' 620', 119' 686 ' ,)*' -, =-16>0' -1?', /*' >) /0-*2' 1 ' .-6*/J

6+ 0 .' . ; .>*=, D/*' , *?=*-6?*2, 'A1 2*0', 1') .' 0*+1^ , 126/ , *20*2> *. ' ?; . , ' 6, ' 6' +*- ' *6-/ ' 65*') 6+*' ?60*') ?' 6' 6+1-, *' =; =/ 1 ',)*' =-1=)*, . ' 8) 1.*' =*^ >; / 6-' ?6-9' 86.',)*') 6-=' 620',)*' =.6/?' M ' 6?%L ' C' K ' 620' L L ' K CK ' T .**' 6/.1' K' 25.' ' X% ()*-*' .' 21' . ?6//0 >; /, ' 2' -*>12> / 25',)*' -*>^ 1?*?*206, 12' 1 ' 6+ 0', 1' 6 ; /0.' 6' .9 / ; /=/6 *-' 620' 86-- 1-' 2' ' 6?%L+ ' CKN' 8 ,)',)*' 6>>1 ; 2, ' ; ',)*' 1//18 25' >)6=, *-' 1 ' 6+ 0 .' 6==*6-62>*' 2',)*' >6?=' 1 ' 6 ; / ' 620') .' 2, -10 ; >, 12', 1',) 6, ' ?126->)' 2' >12^ .*_ ; *2>*' 1 ') .' + >, 1- '1+*-' 41/6,)% 1,)' 26--6, +*.' 6==6-*2, / ' 5 +*',)*' 9>>1 ; 2, ' 1 ' 6+ 0 2, -10 ; >^ , 12', 1' 6 ; / ' 620' *, ' , ' .' 21, '=1.. D/*', 1' >1?D 2*',)*?' 2, 1' 12*% 1?*' 81 ; /0', -62.=1.*',)*/6, , *-'=6-, ' 1 ',)*' S,)*)6=%.' 1' 6.', 1' ?69*' , ' 1//18' 6, *-' L+ ' R' M : 1-.^ /* ' ; !' ' NNKXT' D ; ', ' .' 21, '*6. ', 1' .**' 8)6, ' 56 2*0' D ',) .' 1-' ' 6+ 0' 86.' 9218' 2', 1' 6 ; / ' 620' 6>>*=, *0' 2, 1' 6 ; / .' .*-+ >*' 6.' ,)*-*' 26--6, *0') 18' >1 ; /0' 6 ; / .*20' 1-') ?', 1') .' 6,)*- .') 1 ; .*' 620' -*^ >* +*') ?' 6.' 6%=*- *>, ' .,-625*-' 6.' 26--6, *0' 2' L+ ' CK 'H 2',)*' 1,)*-') 620' ' 6+ 0' >6?*' D* 1-*',)*' 21, >*' 1 ' 6 ; / ; 20*-',)*' >-> ; ?*2, 120*' 2' 0' 2' ,) .' S,)' >)6=, *-' 620' 86.' -*>* +*0' 2, 1') .' 6+1-' 620' .*-+ >*' 6.',)*-*' 26--6, *0' MK CKNX') 18' >1 ; /0',)*' 6>, .' -*>1-0*0' 2',)*' ,)' >)6=, *-' *.=*> 6// ',) 1.*' 2' +*-.*.' N CN '620' CSQ') 6+*' 1>>; --*0'H ()*' 6, 6>62 < %1' ,)*' *=, ' -*A*>, .' L+ ' KCN ' C Q' 620' L+ ' C ' 6.' .=; - 1 ; .' T 620',) .' *22 >1, ' 6==-1+*.' 6.',)*', -; *' .1^ / ; , 12' 1',)*' 0 >; /, 'M.*>') .' 0 .>; .. 12' 1',)*' _; *.^ , 12 ' ' ' + ' # (>6-'=% QC NK C QX% &) 6, ' 5 +*.' .1?*' =/6 ; . D / , ' , 1',) .' . ',) 6, ' +*-%NK 26, ; -6// ' >122*>, .' 8 ,)' +*-% ' 620' 6// D*, 8**2') 6.' +*-' ? ; >)' ,)*' 6.=*>, ' 1 ' 62' 2, *-=1/6, /1 % ',) *' .) **=1/ .)*0' =*DD/*.' 8) >)')*' = >9*0' ; =' 6.')*' 8*2, ' -1?' ,)*' 86, *->1 ; -.*' 1 ',)*' +6//* ' 620' = ; ' 2') .' .)*=)*-0 .' 86//*, % (81', -1=) *.' /125' -*?6 2*0' 1 ',)*' D6, , /*' 12*',)*') ; 5*' .81-0' 1 ',)*') / ., 2*' 8) >)' 86.') ; 25' ; =' D*) 20',)*' *=)10' 2',)*' (6D*-26^ >/*' 6, ' 1D' M ' 6?%LL 'RXT' ,)*' 1,)*-',)*')*60' 8) >)')*' D1-*' 686 ') ?.*/ ' 620' 8) >)' 86.' * ,)*-'/6 0' ; =' 6, ' 1D' 1-' . ; D.*_ ; *2, / '6, 'B*-; A6/*?% **' R ! .6/?' >L/ + ',)1 ; 5)' D ' , .' >12, *2, .' 1 '6' ?; >)' /6, *-' 06, *' .' D ' ,)*' , ./*' 2' ,)*!' *=, ' 656 2. , ' 41/6,)%J' , ; -*' .' 6/.1' 6' =.6/?' =-*.*-+*0' 2' ,)*% *=, ' 6, ' ,)*' *20' 1 ' ,)*' .6/, *-' 620' 8) >)' ,)1 ; 5)' =-1D6D/ ' 6' ?*-*' 606=, 6, 12' -1?',)*') .,1-A ' 8*// . ; ?. ' ; =' ,) .' *6-/ ' =*- 10' 1 ') ./ 7*a

() .% .',)*' =H6/?' 1 ' 6+ 0 .' 182' 8- , 25' MHX I 1=[% U% ' *-' 6 -\OX' 620' 1 ; ,. 0*',)*' 2 ; ?D*-' 8)*2')*' 1 ; 5), ',)*'. 25/*

>1?D6, '+' ,)' 41$6,)J' ' ' 81.7?6//6?125..' ? 'D-*,)-*2' 620' ,)*' 1 ; 25*.', ' ? ' 6,) *-. ' ; % ' 86.' **0 25' ? ' 6,)*-' . ' .)**=% < ') 620.' ?60*' 6') 6-= '620' ? ' 25*-.' , , *0' 6' =.6/, *- % 20' 8)1' .)6// , */ , ' 1' ? ' 1 0H' : *' , ' ') *' 1-0') *')*6-*,)% : *' . *2.') ' ?* . *25*-' M625*/HX' 620' , 119' ?*' -1?' ? ' 6,)*-. ' 1>9. ' 620' 621 2, *0' ?*' 8 ,)',) *' 1 / 1 ') .' 621 2, 25% < ' D-*,) -*2' 8*-*' D*6 ; , ; / 620', 6// ' D ; ',) *' 1-0' 86.' 21, %8*// =/*6. *0I' 8 ,)',) *? % ' 8*2, 1 ; , ' 1' ?**',) *') / .. 2*' 620') *' >; -. *0' ?*'D ') .' 01/.% .' ' 0-*8') .' 182' . 81-0' 620' D*) *60*0') ?' 620', 119' 686 ' ,)*' -, =-16>0' -1?', /*' >) /0-*2' 1 ' .-6*/J

6+ 0 .' . ; .>*=, D/*' , *?=*-6?*2, 'A1 2*0', 1') .' 0*+1^ , 126/ , *20*2> *. ' ?; . , ' 6, ' 6' +*- ' *6-/ ' 65*') 6+*' ?60*') ?' 6' 6+1-, *' =; =/ 1 ',)*' =-1=)*, . ' 8) 1.*' =*^ >; / 6-' ?6-9' 86.',)*') 6-=' 620',)*' =.6/?' M ' 6?%L ' C' K ' 620' L L ' K CK ' T .**' 6/.1' K' 25.' ' X% ()*-*' .' 21' . ?6//0 >; /, ' 2' -*>12> / 25',)*' -*>^ 1?*?*206, 12' 1 ' 6+ 0', 1' 6 ; /0.' 6' .9 / ; /=/6 *-' 620' 86-- 1-' 2' ' 6?%L+ ' CKN' 8 ,)',)*' 6>>1 ; 2, ' ; ',)*' 1//18 25' >)6=, *-' 1 ' 6+ 0 .' 6==*6-62>*' 2',)*' >6?=' 1 ' 6 ; / ' 620') .' 2, -10 ; >, 12', 1',) 6, ' ?126->)' 2' >12^ .*_ ; *2>*' 1 ') .' + >, 1- '1+*-' 41/6,)% 1,)' 26--6, +*.' 6==6-*2, / ' 5 +*',)*' 9>>1 ; 2, ' 1 ' 6+ 0 2, -10 ; >^ , 12', 1' 6 ; / ' 620' *, ' , ' .' 21, '=1.. D/*', 1' >1?D 2*',)*?' 2, 1' 12*% 1?*' 81 ; /0', -62.=1.*',)*/6, , *-'=6-, ' 1 ',)*' S,)*)6=%.' 1' 6.', 1' ?69*' , ' 1//18' 6, *-' L+ ' R' M : 1-.^ /* ' ; !' ' NNKXT' D ; ', ' .' 21, '*6. ', 1' .**' 8)6, ' 56 2*0' D ',) .' 1-' ' 6+ 0' 86.' 9218' 2', 1' 6 ; / ' 620' 6>>*=, *0' 2, 1' 6 ; / .' .*-+ >*' 6.' ,)*-*' 26--6, *0') 18' >1 ; /0' 6 ; / .*20' 1-') ?', 1') .' 6,)*- .') 1 ; .*' 620' -*^ >* +*') ?' 6.' 6%=*- *>, ' .,-625*-' 6.' 26--6, *0' 2' L+ ' CK 'H 2',)*' 1,)*-') 620' ' 6+ 0' >6?*' D* 1-*',)*' 21, >*' 1 ' 6 ; / ; 20*-',)*' >-> ; ?*2, 120*' 2' 0' 2' ,) .' S,)' >)6=, *-' 620' 86.' -*>* +*0' 2, 1') .' 6+1-' 620' .*-+ >*' 6.',)*-*' 26--6, *0' MK CKNX') 18' >1 ; /0',)*' 6>, .' -*>1-0*0' 2',)*' ,)' >)6=, *-' *.=*> 6// ',) 1.*' 2' +*-.*.' N CN '620' CSQ') 6+*' 1>>; --*0'H ()*' 6, 6>62 < %1' ,)*' *=, ' -*A*>, .' L+ ' KCN ' C Q' 620' L+ ' C ' 6.' .=; - 1 ; .' T 620',) .' *22 >1, ' 6==-1+*.' 6.',)*', -; *' .1^ / ; , 12' 1',)*' 0 >; /, 'M.*>') .' 0 .>; .. 12' 1',)*' _; *.^ , 12 ' ' ' + ' # (>6-'=% QC NK C QX% &) 6, ' 5 +*.' .1?*' =/6 ; . D / , ' , 1',) .' . ',) 6, ' +*-%NK 26, ; -6// ' >122*>, .' 8 ,)' +*-% ' 620' 6// D*, 8**2') 6.' +*-' ? ; >)' ,)*' 6.=*>, ' 1 ' 62' 2, *-=1/6, /1 % ',) *' .) **=1/ .)*0' =*DD/*.' 8) >)')*' = >9*0' ; =' 6.')*' 8*2, ' -1?' ,)*' 86, *->1 ; -.*' 1 ',)*' +6//* ' 620' = ; ' 2') .' .)*=)*-0 .' 86//*, % (81', -1=) *.' /125' -*?6 2*0' 1 ',)*' D6, , /*' 12*',)*') ; 5*' .81-0' 1 ',)*') / ., 2*' 8) >)' 86.') ; 25' ; =' D*) 20',)*' *=)10' 2',)*' (6D*-26^ >/*' 6, ' 1D' M ' 6?%LL 'RXT' ,)*' 1,)*-',)*')*60' 8) >)')*' D1-*' 686 ') ?.*/ ' 620' 8) >)' 86.' * ,)*-'/6 0' ; =' 6, ' 1D' 1-' . ; D.*_ ; *2, / '6, 'B*-; A6/*?% **' R ! .6/?' >L/ + ',)1 ; 5)' D ' , .' >12, *2, .' 1 '6' ?; >)' /6, *-' 06, *' .' D ' ,)*' , ./*' 2' ,)*!' *=, ' 656 2. , ' 41/6,)%J' , ; -*' .' 6/.1' 6' =.6/?' =-*.*-+*0' 2' ,)*% *=, ' 6, ' ,)*' *20' 1 ' ,)*' .6/, *-' 620' 8) >)' ,)1 ; 5)' =-1D6D/ ' 6' ?*-*' 606=, 6, 12' -1?',)*') .,1-A ' 8*// . ; ?. ' ; =' ,) .' *6-/ ' =*- 10' 1 ') ./ 7*a

() .% .',)*' =H6/?' 1 ' 6+ 0 .' 182' 8- , 25' MHX I 1=[% U% ' *-' 6 -\OX' 620' 1 ; ,. 0*',)*' 2 ; ?D*-' 8)*2')*' 1 ; 5), ',)*'. 25/*

>1?D6, '+' ,)' 41$6,)J' ' ' 81.7?6//6?125..' ? 'D-*,)-*2' 620' ,)*' 1 ; 25*.', ' ? ' 6,) *-. ' ; % ' 86.' **0 25' ? ' 6,)*-' . ' .)**=% < ') 620.' ?60*' 6') 6-= '620' ? ' 25*-.' , , *0' 6' =.6/, *- % 20' 8)1' .)6// , */ , ' 1' ? ' 1 0H' : *' , ' ') *' 1-0') *')*6-*,)% : *' . *2.') ' ?* . *25*-' M625*/HX' 620' , 119' ?*' -1?' ? ' 6,)*-. ' 1>9. ' 620' 621 2, *0' ?*' 8 ,)',) *' 1 / 1 ') .' 621 2, 25% < ' D-*,) -*2' 8*-*' D*6 ; , ; / 620', 6// ' D ; ',) *' 1-0' 86.' 21, %8*// =/*6. *0I' 8 ,)',) *? % ' 8*2, 1 ; , ' 1' ?**',) *') / .. 2*' 620') *' >; -. *0' ?*'D ') .' 01/.% .' ' 0-*8') .' 182' . 81-0' 620' D*) *60*0') ?' 620', 119' 686 ' ,)*' -, =-16>0' -1?', /*' >) /0-*2' 1 ' .-6*/J

,)*' *20' 1 ',)* -' / +*.% I ()*',- 6?=)62,' .125.' 1 ',)*' .-6*/ , .)' 81?*2' 6221;2>*0',)6,',)* ' */,',)6,' 2') ?' .-6*/)60' 218' 1;20' 6' 0*/ +*-*-' ? 5), *-' *+*2',)62' 76; /I' 620' 2',)1.*' .125. ' 620' 2',)*' 6?*' 8) >)' 6^ + 0',) ;.' 6>_; -*0 '86.'/6 0',)*' 1;206, 12' 1 ',)6,' ;2C')6== 'A*6/1;. ' 1 ' 6;/ ,186-0.') ?' 8) >)' ? 25/ 25' 8 ,)',)*' 9 25 .' >12., ,; , 126/ ?6/60 ' =1 .12*0' D .' 8)1/*' /6,*-' -*/6, 12.',1' 6+ 0%' ()-**' 2*8' _;6/ , .' 218' D*562' ,1' 0*+*/1=' ,)*?.*/+*.' 2' 6+ 0 .'>)6-6>^ ,*-%' ()*' -.,' 86.') .' =-;0*2>*%' ,')60' 6/-*60 ' D**2' 5/62>*0'6,'12',)*' -.,'?*2, 12' 1 ') ?',1' 6;/ M ' 6?%L+ ' QX'6.' '=-;0*2,' 2'?6,,*-.D ; ,' ,'86.',)*' ?6-9*0' *6,;-*' 1',)*' D*5 22 25'1 ') .' =;D/ >' >6-**-% ()- >*' 1+*-' ,' .' *?=)6, >6// '.6 0)*' D*)6+*0') ?^ .*/ '8 .*/ J' 620' *+ 0*2,/ '8 ,)',)*' ?*62 25',)6,' ,' 86.',)*' 8 .01?' >6//*0' 1-,)' D ',)*' 2*>*.. , .*.' 1 ') .' 0*/ >6,*' 620' 0 >;/,' . ,;6, 12%' ,' 86.',)6,' =*>;/ 6-' B*8 .)' >6;, 12' 8) >)')6.' D**2' >1?=6-*0',1',)*' .656>^ ,'1'6') ;2,*0'62 ?6/' .;>)'6.' .'-*?6-9*0' 2'B6>1D' 620'6 ,*-86-0.' 2',)*'=*-.*>;,*0' .-6*/ ,*.'1',)*' < 0^ 0/*' 5*.% 2*' 2.,62>*'1',6==*6-.' ?? *0 6,*/ ' 2') .'62.8*-',1',)*',-6=' /6 0' 1-') ?' D ' 6;/ .'.*-+62,. ' **?*,)' ',1'E1;'6/ 5),',) 25',1'D*',)*' 9 25 .'.12C 2C/68 '.** 25',)6,' '6?'6'=11-'?62'620'/ 5),/ '*.,**?^ *0'HJ'7+ 'KNX% *>120/ ' 8*'218' .**') .' ?65262 ^ ?1;.' 1-D*6-62>*' >6//*0' 1-,)' 2',)*' -.,' 2.,62>*',1^ 86-0.' 6;/'D;,'0 .=/6 25' ,.*/'M8 ,)' 6' *8'=6 2 ;/ *L>*=, 12.X' 2',)*' -*.,'1')./ *% :*' .',)*' -.,'*L^ 6?=/*' 1',)*' + -.;*' 1 ') +6/-A% () -0/ ') .')6 -^ D-*60,)'*.>6=*. '>12, 2;*0',)-1;5)'.1'?62 ' *6-.' ?^ =-*..*0';=12') ?'6'.*2.*' 1 '0*=*20*2>*' 12',)*' + 2*')*/='>/*6-/ '0*- +*0' -1?',) .'*=1>)% : .'; ;6/16,)' 1-'6..*+*-6, 12' 2'/6,*-', ?*.'86. ' .',)*' 1-0'/ +*,)' 8)1')6,)'-*0**?*0' ? '.1;/1;,'1'60+*-. , J'MK' 6?% +'RT' 25.' 'KRX' 620',)*' .6/?2-6-*' //*0' 8 ,)' ?65*- ',69*2' *+*2'/ ,*-6// ' -1?'.)*/,*-'656 2.,'=;-^ .;*-.'./ == 25 0182'=-*> = >*.' M .6 'L+ 'NSX') 0 25C =/6>*.' 2' -1>9.' 620' >6+*.' /*6 '>1+*-,.' MLLL 'K X' .,-125' 6.,2*..*.' ML+ 'KX% ( ) .' =6-,' 1 ' 6+ 0 ./ *' ?6 'D*' .;D0 + 0*0' 2,1' 1;-'=1-, 12.a %# ' ' ' " ' ' '$ ' 2'" '6 %' M ' 6?%L+ 'KCL L ' QX% ' : .' 1 >*' .' 21,' *L6>,/ ' 0* 2*0%' ;,' ,' 81;/0' .** ?',)6, *)6+ 25'D**2' -.,'6-^ ?1-CD*6-*-' ML+ 'K T' L+ 'KX',)*2' ?60*' >6=,6 2' 1+*-' 6',)1;.620 ' ,)*' .;D0 + . 12' 1 '6',- D* ' ML+ ' NX')*' 3 26// ' 12') .' ?6-- 65*' 8 ,)' < >)6/',)*'9 25 .' .*>120' 06;5),*-' 86.'-6 .*0',1',)*') 5)'1 >*' 1 '>6=,6 2' 1 ',)*' 9 25 .' D10 C5;6-0' .*>120' 12/ ' '21,'*_;6/',1' D2*-' ,)*' >6=,6 2' 1 ',)*')1.,' 620' B126,)62' ,)*')* -' 6==6-^ *2,% ()*.*',)-**' 1-?*0',)*' ; .;6/ >1?=62 12.' 1 ',)*' 9 25' 6,') .' ?*6/.' MLL ' K X% 6+ 0' 86.' 218' >) * / ' 92182' 1-') .' .;>>*.. ;/ *L=/1 ,.' 656 2.,' ,)*') / .^ ,2*.') '12*' 1 '8) >)')*' 812') .' 8 *'620' 0-1+*' D6>9' ,)*') / ., 2*' =18*-' 8 ,)' 6' D/18' -1?' 8) >)' ,' 12/ ' -6// *0' 6,' ,)*' 0 .6.,-1;.' >/1.*' 1 ' 6;/ .' -* 52% :1' 6/.1' ., // =*- 1-?*0' -1?', ?*',1', ?*',)*' 1 >*' 1 ' ? 2^ ,.-*/%' ;,' ,)*' .;>>*.. +*' .26-*.'/6 0' D ' 6;/ ,1' *2^ ,-6=') ? ' 620',)*' 1=*2' + 1/*2>*' 2,1' 8) >)',)*' 9 25 .' ?602*..' ,8 >*' D-19*' 1;,' 6,' /6.,' >12+ 2>*0') ?',)6,') .'/ *' 86.' 21' /125*-' .6 *% : *')60',81' 6 ,) ;/ 6/^ / *.')18*+*-' 2',)*' >1;-, ',)*' .12' 1 ' 6;/') .' - *20' B126,)62' ' ',)*' 06;5),*-' 7 ' 6;/') .' 8 *' < >)6/% !&6-2*0' D ',)*' 12*' 620' 6.7,*0' D ',)*' 1,)*-')*' ^ >6=*0' D ' 2 5 ,' 620' 86.' -1?',)6,', ?*' 1-86-0' 6' ;^ 5 , +*% % % SK% B126,)62')*' 2*+*-' .68' 656 2' *L^ >*=,' .,*6/,)% >)6/ 86.' 5 +*2' 2' ?6-- 65*',1' 62^ 1,)*-' M)6/, */X' 620')*' .68')*-' 21' ?1-*', /I' /125' 6 ,*-')*-' 6,)*-' .' 0*6,)% **' $' (1',) .' *.>6=*',) ' ,-60 , 126/ , ,/*' 6.. 52.% .6% / L% 2,*-26/ *+ 0*2>*' M6>>1-0 25',1' 86/0X' 5 +*.' .6%+ ' 620' + ' ',1',) .' =*^ - 10% 2',)*' 1-?*-')*' .' -.,' D*5 22 25',1' >12,*?^ =/6,*',)*' 2*>*.. , '1 ' / 5),1' 2',)*' /6,,*-')*' .' ?1+*0' D ',)*'=/1,.' 1 '6'=*-.12' 21,' 26?*0' 2',)*') .,1-E' M=*-^)6=.' ,)1.*' 6//;0*0',1' 2' ')-12%L ' X ' 6>>1-0 25' ,1',)*' ,/*' 1 ',)*'=.6/?' ;.) '6' *2A6?,*' 620',)*-*^ 1-*' 1 ' 6;/ .',- D*%' **' 1. ' K% K%# ' 6 % ' M ' 6?%L L ' QCLL ' X% ' : *' -., *0',1' 6 1,)' M1-',)*' =6..;-*.X' 1 ' : 6?6) ',1' 6?;*/% () .' .',)*' -.,'-*>1-0*0' 1>>6. 12' 1 ') .' ?**, 25' 8 ,) ' 6?;*/ . 2>*' ,)*' 1- 5 26/ 2,*-+ *8' 0;- 25') .' D1 ^)110' 6,' *,)/*)*?% ,' ? 5),' 6/?1.,' .**?' 6.' ')*')60' 2,*20*0',1' 0*+1,*') ?.*/ ' 8 ,)') .' ?;. >6/ 620' =1*, >6/ 5 ,.',1',)*' =-1=)*, >6/ 1 >*' 620' 5 +*' ;=',)*' >6-*.' 620' 0625*-.' 1 '=;D/ >' / *' ;,')*')60' 6') 5)*-' 0*., 2 '., //% $=' ,1',) .', ?*' D1,)',)*' 9 25' 6=0') ?^ .*/ ')60',)1;5),',)6,'6'-*;2 12' 86.'=1.. D/*' M.>1' LL ' 'KSX% ;',)*' ?602*..' 1 ' 6;/ 218' D*>6?*' ?1-*' .*,/*'0' 620' *-1> 1;.' 2' >)6-6>,*-' 620' 6+ 0 .' 0625*-' =-1=1-, 126,*/ ' 5-*6,*-% ()*' .*>-*,' 2,*-+ *87' 8 ,/' B126,)62' 1 '8) >)',)*' -*>1//*>, 12' 86.'=-1D6D/ ')620^ *0' 0182',)-1;5)'B126,)62 .' 0*.>*2062,.' 8)*2',)*' ' >6?*' ,1' 6+ 0 .' >1;-,' >12 -?*0' ,)*' 6/6-?' 6/-*60 ' *L> ,*0' D ' 6;/ .'*20*6+1-',1' .* [*') ?'6,' :6?6) '620')*' 218' 0*,*-? 2*0',1'/*6+*') .' >1;2,2W 620',69*' -* ^ ;5*' / 9*' 1- 1/62;. ' 1-' ()*? .,1>/*.' 2' / 9*' > ->;?^ .,62>*.' 2',)*' >1;-,' 1 ') .' *2*? % * 1-*',) .' /6.,' -*.1/+*')*' +D ,*0' 1D' M_%+%X',)*' .*6,' 1 ',)*'%,6D*-^ 26>/*' Md 6?%LL X' =6-,/ ',1' 1D,6 2' 6' 26/ 2,*-+ *8' 8 ,)',)*' 5)C=- *.,' D ?*/*>)' M ' 6?%LL ' R X' =6-,/ ',1' =-1>;-*' 110' 620' 8*6=12.% 2',)*' =-*,*L,' 1 '6' .*>-*,'? .. 12' -1?' 6;/ ')1' 1D,6 2*0' -1?');2C */*>)' .1?*' 1 ',)*' .6>-*0' /16+*.' 1 ' .)*8CD-*60' M_%+%X' 620',)*' >12.*>-6,*0' .81-0' 1 ' 41/ 6,)' 1 ' 8)>)')1' .6 0' ()*-*' .' 212*' / 9*',)6,1' 5 +*' ,' ?*%J' ()*' 2> 0*2,' 86.' 1 '01;D/*' ?=1-,62>*' 2' 6+ 0 .' >6-**-% -.,' ,'*.,6D/ .)*0' 6'>122*>, 12' D*,8**2') ?' 620',)*' 12/ ' .;-+ +1-' 1 ',)*' ?6..6>-*' 2' 8) >)' 6+ 0 .' + .^ ,' 2+1/+*0',)*')1;.*' 1 ' D ?*/*>)% *>120/ ' -1?') ?*/*>) .' .;--*20*-' 1 ',)*' .6>-*0' D-*60',1' 6+ 0 .');25*-' M.**' . 620*-' # ' # ' % ' % % ' -*> =,*2 *%(;D 25% X 1;-' 1-0' 0-*8',)*' 2 >-*2>1' 1',)*' .;=-*- 1- ,' 1',)*' ?1-6/,1',)*' >*-*?12 6/ 68' 8) >)' .',)*' 12/ ' 6//;. 12' ?60*',1' 6+ 0 .' / *' 2' ,)*' %(M< 6,,' L ' NT' < 6-9' 'K T' ;9*' + ' N' X% ,' .'6/.1'>1?*?1-6,*0'D ',)*',-60 , 126/,7,/1'1' .6% : .')1.= ,6D/*' -*>*=, 12' 8)*2' 2' 0 .-*.. ' D') ?*/>>)',)*'=- *.,'620',)*'6,-1> 1;.' ?6..6>-*' 227' >*2,/ 'D-1;5),'D ') ?' 12' 1D' ,)*' > , ' 1',/ *'=-*..' M ' 6?%LL '620' LL 'RC RX' ?;.,')6+*' 0**=/ '6 *>,*0' .'5*2*-1;.'26,;-*' 620'/6 0%,)*' 1;206, 12' 1 'D .'>1-' 0 6/6 *>, 12' 1-',)*' 8)1/*'=- *.,/ '1-0*-' 8)1.*' ? 2^ .,-6, 12.')1') ?.*/ ')*/=*0' ,1' */*+6,*' ') .' 0*+1^ , 126/ ?*/10 >.% **' ' ' % 7 : .' ..,6 '6,',)*' >1;-,' 1 ' >) .)' M_%+%X' 86.' .)1-,% .>1+*-*0' =1.. D/ ' D ' ,)*' .81-0' 1 ' 41/ 6,) J') .' =-*.*2>*' -*+ +*0',)*' 26, 126/ *2? , ' 1 ',)*') / .^ , 2*.' 656 2.,',)* -' 1-?*-' >12_;*-1-T' 620')1' 12/ ' *.^ >6=*0' D ' * 52 25' ?602*..' D ' + 1/*2,'5*.;-*.' =/6 ^ 25' M ,',)*' 56,*.' 1 ',)*' > , ' 1-' 12' 6' 0-;? 1-' > ?D6/' /*,, 25') .' D*6-0' 5-18 ' 620' 16? 25' 6,',)*' ?1;,/ ' M ' 6?%LL ' N' *=,%X% M *>' -,/1D' # ' # ' # ' =.% ST :*D*2.,-*, ' # ' ' !' ' 2" 1' ,% T -6 ,' # ' ' ' ' "' ? + ' -/625,' SQ%X ()*' S,)' 620'N ,)' .6/?.'6->'D1,)'-* *--*0'D ',)*' -' , ,/*.',1',) .' *+*2,' 620',)*' , ,/*.' .,6,*' M8)6,' 01*.' 21,' 6==*6-' 2',)*' 26--6, +*'X' ,)6,')1')60' D**2' .* [*0' 6.' 6' =- .12*-' D ',)1') / ., 2*.' 620',)6,')1' 86.' 2' >12.* ;*2>*' 1 ',) .' .,-6,65*?' .*,' -**' D ' >) .)' 1-' M6.')1' .' ,8 >*' >;//*0X' D ?*/*>)% **' > . ' % N% # ' ' ' ' % ' , ' MLL ' CLL+ K X% ' M %X' : .' -.,'-*,-*6,' 86.',)*' >6+*' 1 ' 0;//6?' =-1D6D/ ',)*' /6-5*' >6+*-2' M,)*' 12/A'+*- ' /6-5*' 12*' 2' 6/*., 2*X' 21,' 6-' -1?' *,)/*)*?' 218' >6//*0');C -*,;2' M.**' 126- .' ' '

62662/,*. ' 1 ' 8)1?' ,)*' >6?*' 1 ' 12*' 6,' /*6., ')6.' D**2' =-*.*-+*0 ') ?*/*>)' ,)*' : ,, ,*' M ' 6?%LL+ ' 4X% **' $!

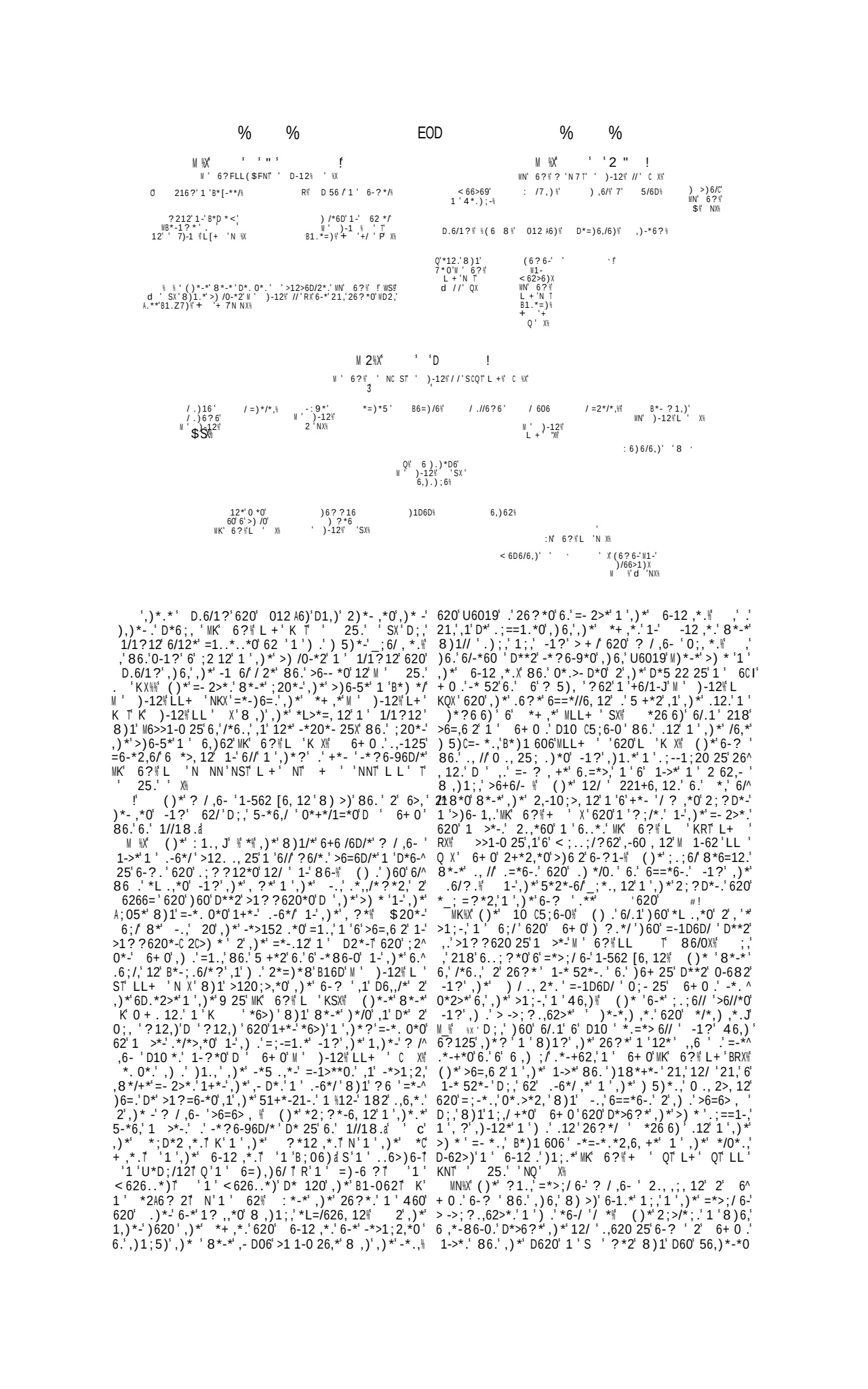
MK%X' : .' 2*L,' ?1+*' 86.' ,1' 6' .,-125)1/0 ' * ,)*-',)*' ?1;2,6 2' 6 ,*-86-0.' >6//*0' : *-10 ; ?' >/1.*' ,1' 0;$' /6? ' 1-' ,)*' 6.,2*..' >6//*0' D ' B1.*=) ; .' I N '+ ' Q' NX' <6.606' ,)*' 4-1*>/.*0' 1-?' 1 ' ,)*' : *D-*8' 81-0' 1 "' M ' 6?%LL ' ' T' ')-12%L ' SX' 2' ,)*' 2* 5)D1-)110' 1 ' 2I5*0% &) /*' ,)*-*') *')60' 0*^ =1. ,*0') .' 65*0' =6-*2,.' 1-' ,)*' .69*' 1 '5-*6,*-' .*>;'% 6/ .=*6-' 1 ' 6;/' 8) >)' ,8 >*')60' .1' 2*6-/ ' ,-62*' T - , ' /7 120' ,)*' B1-062 ' 8 ,)' ,)*' -' 62>*.,-6/ 9 2.?62' 1 ' <16D' M D% NX% ()*' 2* 5)D1- 25' 9 25 ' 6D6.)' 1 ' ? ?12 ' 6/.1',-*6,*0') ?' 9 20/ ' MK' 6?%L ' KX% : *-*' 621,)*-'>1?=62 12' 6==*6-.' 1-',)*' -.,', ?*' 6' .>)11/.' 1 ' */18' ' 8*' ?6 ' ;.*' ,)*' 81-0' -1?',)*' .>)11/.' 1 ' 6?;*/',)*' =-1=)*,' 460') .' .;D.*_;*2,' D 15-6=)*-' M ' 6?%LL ' SXT' 620' 8) /*)*' 86.',)*-*' 1>>;--*0',)*' >) +6/-1;.' *L=/1 ,' 1 ',)*' ,)-**')*-1*.'A;.,' ?*2, 12*0' ,1' =-1>;-*' 86,*-' -1?',)*' 8*//1 ' *,)/*)*?' 620' 6^ + 0 .' >) +6/-1;.' 62.8*-'/ 9*',)6,' 1 ' /*L620*-' 2',)*' 0*.*-,' 1 ' 4*0-1. 6' M ')-12%L ' SC RT' K' 6?%LL ' C Xd : *' 86.'A1 2*0')*-*' D ',81' .*=6-6,*' D620.d 12*' 6' / ,,/*' D10 '1 '*/*+*2' *->*' 460 ,1' ?1;2,6 2**-.' 8)1' .86?',)*' B1-062' 2' /110C, ?*' ,1' -*6>)') ?' M ')-12%L ' QXT' ,)*' 1,)*-' 6' 0*,6>) ?*2,' 1 ' ?*2' -1?' B;06)'620' *2A6? 2 ';20*-') .' 2*=)*8' ?6.6 ' 8)1')*2>* 1-,)' 6,,6>)*0') ?.*/ ',1' 6+ 0 .' 1-,;2*.' M ')-12%L ' SC QX% MN%X' ,',)*' 86-2 25' 1 ' 460 ')*' /*0' 2*L,',1',)*' 1-*.,' 1 ' : 6-*,)' M.1?*8)*-*' 2',)*') //.' 1 'B;06)X' 620',)*2' 656 2' *// 2' 8 ,)',)*') / ., 2*. ' 620' 656 2 ' 6==6-*2,^ / ' 60+ .*0' D ' 460' MLL ' X' ?60*' 6' 0*.>*2,' 12',)*-' 1-65 25' =6-, *. ' 620' -*/ *+*0' * /6)' M_%+%X' 2' 8) >)')*',119' ;=') .' 6D10*% &) /*',)*-*' 218' 1-',)*' -.,' ,?*' 2' 6' 1-, *0',182' 1 ') .' 182' MLL ' X')*' 86.' A1 2*0' D ' 6' C2*8' 620' ?1.,' ?=1-,62,' 6// ' D 6,)6-' ,)*' /6.,' .;-+ +1-' 1 ',)*')1;.*' 1 ' ,)6?6-' 8)1' >6?*' 8 ,)',)*') 5)C=-*.,.' *=)10' 620')*2>* 1-,)' 56+*' ,)*' 1-6>/*.' 8) >)' 6+ 0')60') ,)*-,1'-*>* +*0' -1?' 460' MLL ' S' RT' LL ' KNX% ',) .', ?*',)*' ' 8)1')60' A1 2*0') ?' 6,' 0;//6?' MLL ' KX')60' .8*//*0',1' S ' MLL ' NX% M %X' ()*. .;6, 12' 1 ' 6+ 0' 86.'218')625*0' D ',)*' 6==*6-62>*' 1 ' 6;/) ?.*/ '12',)*' .>*2*% ==6-*2,/ ',)*' 0625*-' 86.',11' 5-*6,' 1-',)*' / ,,/*' 6-?E!',1' 9**=' ,15*,)*-% ()* '*.>6=*0' -1?' * /6)' 620' 0 .=*-.*0' If 8),)*-.1*+*-',)* '>1;/0' 51 J' 6?125',)*' 6.,2*..*.' 1 'B;06)% : *2>* 1-,)' ,' D*>1?*.' 0 >;/,' ,1' 1//18') .' ?1+*?*2,.' 8 ,)' *L6>,2*..' =6-,/ ' -1?' 521-62>*' 1 ',)*' /1>6/ , *. ' =6-,/ ' D*>6;.*' ,)_' .6?*'*+*2,' .**?.' ,1' D*' ,8 >*' 26--6,*0' M ' 6?%LL ' RCK T' LL+ ' C ' 620' =*-)6=.' ' 6?%LL+ ' CKKT' Ld+ ' CK X% ;',);.' ?;>)' 8*%0 .>*-2% : *' .' 2' ,)*' 8 /0*-2*..' 1 ' U =)% 42>*M1-',8 >*X',)*' U =) ,*.' D*,-6 ') .' ?1+*?*2,.',1' % 6;/' 8)1' / ,*-6// ') ;2,.') ?' / 9*' 6' =6-,- 05*d ,)*' ,-*6>)*-1;.' U =) ,*.' D*6, 25' ,)*' D;.)*.' D* 1-*' 2 ?' 620' N ' ?*2' D* 25' .,6, 12*0' D ' 6;/ ,1' >6,>)' *+*2' ,)*' =- 2,' 1 ') .' 11,.,*=.'12',)*') //.' M ' 6?%LL ' ' KK\: *D%h'K ' \ *=,%hT LL+ ' T' LL+ ' K' K X% 6+ 0' 20.') ?.*/ '0- +*2',1',)*' *L,-*?*'.1;,)' 1 'B;06) ' 2' ,)*' 8 /0*-2*..' 1 ' <612% 2',81' '21',)-**' 1>>6^ . 12.' ,)*' =;-.;*-' 620' =;-.;*0' >6,>)' .5),' 1 ' *6>)' 1,)*-% ',)*' -.,' 1 ',)*.*' *.>6=*. ',)*' ?*?1-' 86.' /125'=-*.*-+*0' 2',)*' 26?*' 1 ',)*' ' / '1 ' + . 12. J' 5 +*2' ,1' ,)*' >/ ' 0182' 12*' . 0*' 1 ' 8) >)' 6+ 0' >/ ?D*01' 8) /*' 6;/ 86.' .;--1;20 25',)*') // 12',)*' 1,)*-' . 0*' MLL 'K CKRX' 8)*2')*' 86.' .;00*2/ '>6//*0' 686 'D ',)*' >- '1 '6') / ., 2*' 2+6. 12% 2' 621,)*-' 1>>6. 12' 6+ 0' ,119' -* ;5*' 2' 6' >6+*' I7D ',)*' .=- 25' 1 ',)*' 8 /0' 516,.J' M 2C5*0 X' ?*0 6,*/ '6D1+*' .)-6*0' D ',)*' *60' *6' M ' 6?%LL+ ' 'KX% ()*' -1>9.' 8*-*' >1+^ *-*0' 8 ,)',)*' =;-.;*-.% 6;/*2,*-*07 6.' .',)*' >;.^ ,1?' 2' -*2,6/ >1;2 - *.' 1-' 6' 26,;-6/ 2*>*.., % ()*' 1//18*-.' 1 ' 6+ 0' .*6,*0' 2',)*' 06-9'-*>*..*.' 1 ' ,)*' >6+*' .** 25 ' *,' 21,' .**2' .;55*.',1') ?',)*' >)62>*' ,)' .' ,)-182' 2' ,)* -' 86 % 6+ 0' 8 ,)' 6' c)6-6>,* .,f>' ? L,;-*' 1 ') ; ?1-' 620' 5*2*-1. , ' 0*^ //% ' d' d .>*20.' 620' . /*2,/ ' >;,.' 1 ')*' .9 -,' 1 ',)*' /125'-1D*' .=-*60' 6.' .' ;.;6/ 2' ,)*' 6.,' 12' .;>)' 1>>6. 12. ' D*^ 1-*' 620' D*) 20' ,)*' =*T712' .1' 1>>;=*0 ' 620' ,)*2' *2^ .;*0',)*' =6,)*, >' .>*2*' 1 '-*?12.,-62>*' 620' 1-5 +*^ 2*..' MLL +' QCKKX% ()*' ,) -0' 86.' 2' ,)*' 8 /0*-2*..' ;-.,)*-' .1;,)% ()*-*' 86.' 6' -*5;/6-' >6?=' 1-?*0' 8 ,)' ,.' ;.;6/ 1-, >6, 12' 1 ' 86512' 620' %D65565*% 2,1' ,) .' 2>/1.;-*' 6+ 0' =*2*,-6,*0' D ' 2 5),' 620' >6-- *0' 1 ' ,)*' >-;.*' 1 ' 86,*-' 620' ,)*' 8*//C92182' %-1 6/ .=*6-' 1 ' 6;/' 8) >)' ,8 >*')60' .1' 2*6-/ ' ,-62*' T L*0') ?',1',)*' 86//' 2' 1-?*-'06 .' MLL+ ' 'KKX% ()*' .6?*' .>*2*' .' -*=*6,*0' 6.' 6,' 2C5*0 ' 620',) .' .',)*/6.,' 2,*-+ *8'D*,8**2' 6;/' 620' 6+ 0' MLL+ ' K X% % ' 6+ 0')60' 6/-*60 ' =6-,*0' 8 ,)' B126,)62' 2',)*' 1-*.,' 1 'U =)' MLL ' QX% (1',) .'=*- 10'6-*' 622*L*0' D ',)* -',-60 , 126/., /*.' .6/?' / +' M &)*2' ,)*' U =) ?' >6?*' 620' .6 0' 1,)' 21,' 6+ 0') 0*') ?.*/' 8 ,)' ; .HJXT' + ' M &)*2')*' *0' -1?' 6;/ 2',)*' >6+* J',)1;5)',) .' ?6 '-* *-'6/51' ,1' 0;//6?XT' L ' &)*2')*' 86.' 2' ,)*' 8 /0*-2*..' 1 'B;06) J M1- 0; ?6N6' *=,%XT' >L/ ' M ' =-6 *-' 8)*2' 1*' 86.' 2' ,)*' >6+*JX% &) /*')*' 86.' 2' ,)*' 8 /0*-2*..' 1 ' <612%1>>;--*0' 6+ 0 .' 60+*2,;-*' 8 ,)' 6D6/ M_%+%X' 2..-;>, +*' 6.' .)18 25') .' ?10*' 1 '>6--E025' 12",)*' -**D117 .'/ *' 620') .' ?6-- 65*' 8 ,)' D 56 /% : .' ?6-- 65*' 8 ,)') 216?' -1?'B*[-**/' 6/.1' 2',)*' .6?*' 2* 5)D1-)110' MB1.)%F ' SX' .**?.',1')6+*',69*2' =/6>*' 6' .)1-,', ?*' D* 1-*' M ' 6?%LL+ ' NT' LL+ ' NT' K' 6?% 'KX% % & " M') 6?%LL+ ' T' K 6?% 'K X% ' & *6- *0' 8 ,)') .' 8620*- 25' / *')*' 6,' /6.,' >-1..*.',)*') / ., 2*' -12, *-' 21,' 6.' D* 1-*' 6.' 6' ;5 , +*' D;',)*')*' >) * ' 1 ' 6' =18*- ;/ D620 ' D .' S ' ?*2' 218' 5-182' 2,1' 62' 1-562 [*0' 1->*' 8 ,)',)*' -' 8 +*.' 620' 6? / *.' 6-1;20',)*?' MLL+ ' NC X% ^ ,*-',)*' ?622*-' 1 ' 6..*-2' =1,*2,6,*.' >) .)' 56+*') ?' 1-') .' .;==1-,' 6' > , ' U 9/65 %12',)*' -12, *-.' 1 ') / ., 6 ' 620' ,' 86./ 125' -*?*?D*-*0',)6,',1',) ;-1;.' 6--625*?*2,',)*' 9 25.' 1 ' B;06)' 18*0',) .' =6-,' 1 ',)*-' =1..*.. 12.' MLL+ ' SX% :*-*' 8*' ?**' 8 ,)',)*' -.,' 21,*' 1 ', ?*' 2' 6+ 0 .' / *% : *' ',)*-*' ' ' ' "' MLL+ ' X' 620' D .' 2>-*6. 25' ?=1-,62>*' .' 20 >6,*0' D ',)*' 6>,',)6,'6'D10 '1 ' *2A6? ,*' 6>)*-.' 620' ./ 25*-.',8*2, C' ,81' 1 ' 8)1?' 6-*' .=*> 6// ' 26?*0' A1 2*0') =' -1?' ,)*' +*- ',- D*' 1 ') .' - +6/M ')-12% L ' C X% 1.. ^ D/ '0;- 25',) .' .,6 ')*' ?6 ')6+*' 6>_;-*0',)*' 9218/^ *05*' 1 ' ? / ,6- '1-562 [6, 12' 620' 8*6=12.' 1 ' 86-' M ' 6?%L ' RCKNX' 2' 8) >)',)*') / ., 2*.' .;-=6..*0' ,)*' .-6*/ ,*.' 620' 2' 8) >)') *' .;-=6..*0' 6// ,)*' =-*^ >*0 25' -;/*-.' 1 ' .-6*/% ;- 25') .' 1';,/68- ' 6+ 0')60' 6/.1' D*>1?*' 6>_;6 2,*0' 2',;-2' 21,' 12/ ' 8 ,)' 6//' ,)*' 8 /0' >1;2,- ' 2',)*' /620 ' D;',' 8 ,)',)*' .,-125)1/0.' 1 ',)*' *2*? '6//' 6-1;20% ()*' >*/*D-.;-*0' 2' .;>>*.. ;/ 5;*- //6' 86-6-*' *+*2' 2' ?10*?' 06 .' ,;-2.' ?62 ' * *.' 12' 6' >) * ,6 21' 620' 2' 62' 65*' 8) >)' -*56-0*0' =*-.126/') *-1 .?' 6.',)*' -.,_;6/ >6, 12' 1' 6' 5*2*-6/' M ')-12%L ' SX' 620' 1 ' 6' 9 25' 1',;- ;?=)' 1+*-',)*' =*-.*>;, 12.' 1 ' 6;/ 56+*' 6+ 0',)*' 6 -*.,' =-1.=*>,.' 1 ' 6' 9 2501?% ()6,')*' 86.' 6D/*' ,1' *.^ >6=*',)*' ?6/ >*' 1 ') .' *2*?' 86.' 0;*' 2' =6-,',1',)*' 0 -*>,')*/=' 5 +*2') 2"7D ',)*' 26, 12.' 1-,20' 8) 1' 8*-*' 5/60',1' 9**=' 6',)1-2' -629/ 25' 2' 6;/.' . 0*T' 2' =6-,' 6/.1',1',)*' 20 -*>,'-*.;/,.' 1 ',)*' -' 2+6. 12.' M ' 6?%LL ' K X% : *' 0*>* +*0' >) .)' 2,1' >12 0*2>*' D ' 6,,6>9 25' ,)*' 1/0' 21?60 >' 2)6D ,62,.' 1 ',)*' 0*.*-,' -12, *-' 620' -*=-*.*2, 25',)*=/;20*-',1'D*' 1 '=1-, 12.' 1 ',)*' .1 ,)' *-27 D*.' 1-',)*' 21?60 >' 6// *0',- D*.' 1 ' .-6*/% ;,' ,) .' >12 0*2>*' 86.' 21,' .)-6*0' D ',)*') / ., 2*' 21^ D/*.' 620' 6>>1-0 25/ ' 6+ 0' 86.' .*2,' D6>9' D ' >) .)' -1?',)*' /6.,' + >,1- 1;.' >6?=6 52' 656 2.,' 6;/' 2' f ,) .' ?622*-' 6+ 0' *.>6=*0',)*' 0 >;/, '1 'D* 25'=-*.^ *2,' 6,',)*' D6,,/*' 1 '4 /D16');,' 1;20',)6,' 0;- 25') .' 6D.*2>*',)*' *01; 2' ?6/*9 ,>. ' 8)1?',)*')60' =/;2^ 0*-*0' 0;- 25',)*' =-*+ 1;.' *6-')60' ?60*' 6' 0*.>*2,' ;=12' U 9/65' D;-2,' ,',1',)*' 5-1;20' 620' >6-- *0' 1

,)*' 8 +*.' 620')/0-*2' 1 ',)*' 2*8' .*,,/*?*2,% '8 /0' 7,)*' 9 2501?' 620' 6/,)1;5)' 6+ 0')60' 218' 1,)*-' .>*2*' 1 ' -62, >' 5- * ' 620' -*>- ? 26, 12' *2. ;*0' D*^ ,8**2' 6+ 0' 620') .' 1//18*-.% ,' 86.' M7 ?*0' D '62' 6>/*' 1 '6. . ;-62>*' -1?' D 6,)6-% ,')6==*2*0',)6,' 62' ?=1-,62,'6>>*. . 12')60'A; .,'D**2' ?60*',1' 6+ 0 *' 1->*d 2') .' ?6->)' 8 ,)' ,)*') / ., 2*.' 21-,)86-0' ,1' 4 /D16')*')60' D**2' A1 2*0' D ' .1?*' >) * .' = ',)*' <626. . ,*. ' ,)-1;5)' 8)1.*' ,*-=,1- ')*' 86.' =6. . 25% $-5*2,'6.' ?;. ,')6+*' D**2',)*' 2**0' 1-',)*?' 6,')1?*' *,' 6+ 0 .' 6.>26, 12'>6-- *0',)*?' 1 '620',)* '218' 6. . .,*0') ?' 656 2.',)*' =/;20*-*-.' M ' D-12% L '% RC K X% ()* '1+*-,119',)*' 2+60*-.' 2',)*' 0*.*-,'620'-*^ >1+*-*0',)*' .=1 /% ()*.*' 8*-*',)*' 5 ,.' 8 ,)' 8)>)' 6+ 0' 86.' 218' 6D/*' 1-',)*' -.',' ?*' ,1' -*_;,*',)*' - *20/ ' 2)6D ,62,.' 1 ',)*' ,>*2*' 1 ')' 8620*-*.' M ' 6?% ddd'KSCQ X% '?1-*'/6. , 25'?*?1- 6/' 86. ,)*' /68' 8)>)',-6>*0' ,.' 1- 5 2',1',)*' 6--625*?*2,'?60*' D ')?' 1-?*-/ ' 2',)*' 6,,6>9' 12' 6D6/' D ;,' 218' 656 2' ?1-*' >1?=/*.*/ ' 1-',)*'%*_;6/ 0 + . 12' 1 ',)*' =/;20*-' 6?125',)*',81',)-0.' 8)1' 1//18*0',1',)*' */0'620',)*'12*',) -0' 8)1'-*?6 2*0',1'5;6-0',)*'D65^ 565*'M ' 6?% ddd'K T' LL+' NX% (81'06 .'6 ,*-',) .' + >,1- '7' *01; 2'6-- +*0' -1?',)*' 21-,)' 8 ,)',)*' 6^ ,6/2*8 .'1 ',)*'0* *6,'1 '4 /D16% ()*'-*>*=, 12'1 ',)*' , 0 25.' 1 ',)*' 0*6,)' 1 ') .' - +6/'620'1 ') .' - *20',)*' .1/*?2' ?1;-2 25',)*'+*2,'1 ') .' 20 526, 12' 656 2.,' ,)*' D*6-*-' 1 ',)*' ?*..65*',)*' =6,)*, >' /6?*2,6, 12' ,)6,' 1//18*0' 8*// >/1.*',)*' .*>120'=*- 10' 1 ' 6+ 0 .' / *' MK' 6?% ' CK X% % % N% : %' ' 1 '5 ! ' M %X' & ') ' 'D "' '# 9 ' 7 *6-.' MK' 6?% ' C+' X% ' :*D-12' 86.' .*/*>,^ *0'01;D,/*. . 'D*>6;.*' ,'86.',)*'62> *2,' .6>-*0'> , '1 ',)*',- D*' 1 'B;06) ',)*' D;- 6/C=/6>*' 1 ',)*' =6,- 6->).' 620',)*' 2)*- ,62>*' 1 ' 6/*D% :*-*' 6+ 0' 86.' -.,' 1-?6// '621 2,*0'9 25 ' D '8)1?' ,' .' 21.',.6,*0' 1--*2>*' ,)*' *L=-*. . 12' .**?.',1/ ?,',)*' 26;5;-6, 12',1',)*' 7,- D*' 1 'B;06) '620',)*-* 1-*',1' *L>/;0*'62 ' 2,*-+*2^ , 12' 1 ' D 6,)6-' MK' 6?% ' X% (1'B;06)') .' 01? 2^ 12' 86.' 21? 26//E7>12 2*0% ;,'=-1D6D/ ' 1-',)*' -.,' +*' *6-.'1 ',)*', ?*',)*'01? 2 12'1 ',)*')1;.*'1 ' 6;/' 8)1.*' .*6,' 86.' 218' 6,' <6)626 ? ' 0 0' 21,' *L,*20',1' ,)*' 8*.,'1 ',)*' B1-062 '620' >12.*_;*2,/ ' 6+ 0' 81;/0' D*' ,)*' 12/ ' .-6*/ ,*' =1,*2,6,*' 6?125',)*' 8*.,*-2' ,- D*.% :*' ,)*2' .,-*27)*2*0') ?.*/ 'D '6' ?6-- 65*' 8 ,)' <66>6)'06;5),*-' 1 '(6/?6 '9 25' 1 '4*.);-' MK' 6?% 'QX' 6' =*,, ' ?126->)' 8)1.*' 01? 2 12.' 8*-*' 2*6-',)*' .1;->*.'1 ',)*' B1-062 '620' 8)1.*' 2 /;*2>*' 6,' ,)*' 1==1. ,*' *20' 1 ',)*' /620' ? ; ,')6+*' 600*0' 6' 5-*6,' 8* 5),' 2,1' 6+ 0 .' .>6/*% -1?' D 56 /' 8 018' 1 ' ,)*' >);-/ .)' 6D6/' 6+ 0' .**?.',1')6+*' -*>* +*0' 6' /6-5*' =- +6,*' 1-,;2*% 12>*-2 25') .' 1.,)*-' 8 +*.' 8*' 9218' 21,) 25' 2' =6-, >;/6-' 12/ ' ,' .' ?*2, 12*0',)6,')*')60' . L' .12.' D ' . L' 0 *-*2,' ?1.,)*-.' 2' :*D-12% ()*' >) * 'A*6/1;. ' 86.' D*,8**2',)*',81',- D*.' 1 ' *2^ A6? 2' 620' B;06) ' 6.' 6;/)60' D*/125*0',1',)*' 1-C ?*-' 620' 6',1;-26?*2,' 86.' ;-2*0' D ' ?;,;6/ /IC8 // 2,1' 6' D6,,/*' 2' 8)>)' D2*-' ;28 // 25/ ' ./*8' 1;25' .6)*/ 'D-1,)*-' 1 'B16D% ' 125' 86- J6 ,*-',) . ' 86.' >6-- *0' 12' D*,8**2' ,)*')1;.*' 1 ' 6;/620',)*')1;.*' 1 ' 6+ 0% &*' ?6 ' 2 *-',)6,',)*'-*.;' 1 ' .-6*/,119' / ,,/*' =6-,' 2' ,)*' >12,*.,' 620' 6/,)1;5)',)*' 21? 26/ =1..*.. 12' 1 ',)*' 9 2501?' *26D/*0',)*' / ,,/*' ,- D*' 1 ' *2A6? 2',1',-;55/*' =-' .1?*' , ?*' 656 2.;B;06) ',)*' .9 //620' 65*' 1 ' D2*-' >1;/0' 21,' =-*+6 / 656 2.',)*' + 51-'620'=1=;/6-' 6?*' 1 ' 6+ 0% 4-60;6// ' 6+ 0 .' =18*-' 2>-*6.*0' 620' 0;- 25',)*',81' *6-.' 8)>)' 1/^ /18*0',)*' */*+6, 12' 1 ' .)D1.)*,)' 6' .*-*.' 1 ' .9 -^ ? .)*.' ,119'=/6>*' D*,8**2',)*',81' 9 2501?.% -.7 >6?*' 6' .;>>*.. ;/ 2-160' 2,1',)*',*-- ,1- ' 1 ' .)D17 .)*,)'MK' 6?% 'KQX% *L,'1>>;--*0',)*' 0* *>, 12' 1 ' D2*-'MK' 6?% ' KX% ';_;6--*/ D*,8**2' D2*-'620' 3' .)D1.)*,)'0*>0*0',)*' 1-?*-',1' D- 25',)*' 9 2501?' 1+*-',1' 6+ 0' M.**' -,/1D' ' '% ' ' ' '& ' =.% RX% ()*' /6,,*-' -* ; .*0',1',-*6,' ;2/*.. ' 6.' 6' =-*/ ? 26- '=-11 '1 ' D2*-.' . 2>*- , ' < >D6/ '06;5)^ ,'-'1 ' 6;/ '86.'-*.,1-*0',1' 6+ 0% ()*'=1..*.. 12' 1 ' .;>)'6' 8 *' 86.' +6/;6D/*' ,1' 12*' 8)1' 86.' 6.= - 25',1 $20*-2*6,)' ,) .' .)18' 1 '1 ;,86-0' =-1.=*- , ',81' >629*-.' 2> 0*2,',1',)*'-1 6/.,6,*' 8)>)' 6+ 0' 218' 6. . ;?*0')60' -.,' ?60*',)*?.*/+*.' 6==6-*2,'6,' : *^ D-12'620'6 *>,*0'6//',)*'-*.,'1 ')' >6-**-% ()*' -.,' 86.',)*' 1-?6, 12'1 '6' D6->=' 6>>1-0' 2*>-*6. 25' =18*-' .')2 ?*2' 620' >) * ' 1 >*-.' 1+*-',1' -*.,-6 2' 8 ,)2',)*' / ? ,.

1 '- 5) ,'† 620',) ; . ' 1 '6//' ,) *' 2> 0*2,.' 1 ',) D' =6-,'1 ') .' >6-**-',) *' ?17,' =/6 2, +*' 620' >)6-6>,*- ., >' .') .' /6?*2,6, 12'1+*-') .'=18*-/*..2*..',1'=-7 *2,',) *' ?;-P' 0*-'1 ' D2*-'MK' 6?% ' N CQSX%
M %X'5 ' ' ' 1'NN' *6-.'MK' 6?%+ ' ',1' '
25.' ' X% ' 7()*-* 52'1 % 6+ 0' .',) *' 5-*6,'>- , >6/ *-6' 2' ,) *') .,1- ' 1 ',) *' : *D-*8.% ,' 0*> 0*0',) 6,' ,) * '8*-*',1') 6+*' 1-'2*6-/ ' +*' >*2,;- *.' 6' 26, 126/ ?126->) ' 6' L*0' / 2*' 1 ' =- *.,) 110 ' 620' 6' .1/*?2' -*/ 5 1;.' 81-.) =' D ' ?;. >' 620' =.6/?.' 1 ' *L_; . ,*' D*6;, 7I' ,' 26// ' .*=6-6,*0' .-6*/ -1?',) *' .;--1; 20I' ll 25') *6,) *2 'C620' 56+*' -11?' 1-'=-10 ; > 25',) 1.*' 21D/*' ?12; ?*2,.' 1 ' .6>-*0' 8-, ' ,1',) *' 2 /;*2>*' 1 ' 8) >)' 1+0 ' ,) *' 8) 1/*' 81-/0' 21'*20'>62' D*' .**2% : .'=-*0*C' C>*..1-' 6;/ ') 60' ?62 ' .;>>*..*.' 656 2..',) *') / . I' , 2*. ' D;,' ,' .'>/*6-',) 6,' D*' ?60*' / ,,/*' ?=-*.. 12' 12' ,) * -' -*6/ =18*-'† 1-') *' 0 *0' 5), 25' 656 2..',) *? ' 21,' 12',) * -'182' D1-0*-' D ;,' 6,',) *' 1==1. ,*' . 0*' 1 ') .' /7 2501?' 2' < 1;2,' 4 //76% .' 1-'6//',) *' 1,) *-' *2C *= *.' 12' *+*- ' . 0*I ' <16D ,*.' ? ?12 ,*.' 01?^ ,*.' 620',/ *'9 25.' 1 'U1D6) ') 18*+*-' ?;>)') *' ?6 ')6+*' +*L*0',) *?J'M ' 6?%L + ' X',) * ' 6.' 8*//6.' ,) *' ?6/*9 ,*.' -*?6 2*0' ;2.;D0;*0'7' 8*69*2*0% I()*' -*6/' 81-9' 1 ' *.,6D/ .) 25' .-6*/ 6.'/1-0' 1+*-',) *' 8)1/*' .1/1' 62662' 86.'/* ,' 1-' 6+ 0% % -" '@ 4 ' 'D % ' ,'?;.,') 6+*' D**2' 8 ,)' 21'1-0 26- ' 2,*-*.',) 6,',) *' .;--1;20 25'26, 12.' 86,>)*0' 1-',) *' =-* '12'8) >)',) *' 12'1 'B;06) '218' 6D1;',1' ..;*' -1?') .' 26, +*'/6 - '620'*..6D/ .)') ?^ .*/' 2'6'2*8') 1?*' 81;/0' ?69*') .' -.,'.=- 25% 2* 6..2*..' 6/12*' 2' ,) *' >*2,-*' 1 ',) *' /620')60') ,) *-.'1' 0* *0',) *' 6-?.' 1 ' .-6*/% 2',) . ' 8 ,)' 6' . 25;/6-' =-*.> *2>* '=*->* + 25',) 6,' .1' .1:,) *-/ '6'=1. , 12' 6.' 7 : *D-12' 86.' 21'/125*-' .; ,6D/*' 6+ 0' L*0'6.') .' ;^ ,;-*' >6= ,6/% '12*' .;00*2'6..6;/,'B*D2.' 86.',69*2' 620'D*>6?*') *2>* 1-,)'92182'D ',) *' 26?*.'M8) *,) *-' D1-2*' D ',' D* 1-*' 1-' 21,' 81'>6221,',*//X 1 'B*-;.6/*?' 627' U 12' % % < % **' ($! '6//',) *' > ,*.' 1 ' 6/*., 2*' 5-*6,' 2' 1-?*-' 65*.' B*-;.6/*?' 6/12*') 6.' + 20 >6,*0'D ',.'/125'=*-?62*2>*',) *' >)1 >*' 1 ',.' 1;20*-% ()*' ?=1-,62>*' 1 ',) *' >6=,;-*' 86.' ?6-9*0'6,' ,) *' ,?*% ()*' -*86-0' D*.,18*0' 12' ,) *' .;>>*.. _/ .>6/*-'1 ',) *' =-*> = >*' 86.') *' ?=-1 ,62>*' 1 ',) *' >6=,6 2' 1 ' 2',) *' 6-?% B16D') *2>* 1-86-0' D*>6?*' >6=,6 2' 1 ' ,) *')1.,'M ')-12' L ' SX% ()*' -1 6/ -*. 0*2>*' 86.' ' 2.,62,/ ' L*0',) *-*' 1-, >6, 12.' 8*-*' 600*0'D ',) *' 9 25' 620' D ' B16D' 620' ,' 86.' 92182' D ',) *' .=*> 6/ 26?*' 1 ',) *' '> , '1 ' 6+ 0J'M ')-12% L ' '† K' 6?% ' g8! 2',) *' 6>>1;2,' 1 ',) .' . *5*' .1?*')6+*' ?65 2*0' ,) *')-12 >/*.',1' >12,-60 >,',) *' D119' 1 ' 6?;*/' D;',) *-*' .' 21' -*6/ 2>1?=6, D / , ' 2',) *' ,81' 26--6, +*.% B16D' 86.' ' ' .-;*' ' 6+ 0 .' >) * ' >6=,6 2T' D;,' 6+ 0' 86.') *6-, / ' 0 .5;.,*0' 8 ,)') ?' 620' ?6 ')6+*' .1;5),' 6' =-*.*2>*' 1-' .;=*-.*0 25') 1-' .;--*.' 0*' 25' ,) *' =1.,' ,1' ,) *' ?62' 8)1' .)1;/0' -.,' .>6/*' ,) *' 86/% B16D' 81;/0' D*' 62 ?6,*0' D ',) *' 0*. -*',1'-*,6 2' D .' 1 >*' 6,'/*6.,' 6.' 9**2/ ' 6.' 1,) *-.' D ',) *' 0*. -*',1' 5*,' ,' 620' ,' .' >-*0 D/*' ,) 6,') *' ?6 ' 6>,;6// ')6+*' D**2' ,) *' .;>>*.. ;/) *-1' 1 ',) 6,' . *5*' 6/.1% ',) .' 86.',/ *' >6.*' ,' 8 // ;-,) *-' *L=/6 2' 8) ' 6+ 0 ' *+*2' 2' ,) *' ;/2*..' 1 '=18*-' ?60*' 21' ;-,) *-% 1-,',1' *L^ =*/) /;2, /) *') 60' ./6;5),*-*0' D.6/1?% ()*' 2* 5) D1- 25' 26, 12.' 8*-*' =6-,/ ' *2-65*0' 620' =6-, V68*.-;>9% ()*') /., 2*.') 60' 6/-*60 ' ?60*' ,81' 2* *>,;6/ 6,,6>9.' 12',) *' 2*8' 9 25' MK' 6?%+ ' C K X' D1,)' 2*6-',) *' +6//* ' 1 ' *=)6 ?' 220',) *.*' 8*-*' =-1D6D/ ' ,) *' -.,' D6,,/*.' 1;5),' D ' 6+ 0' 6 ,*-' D*^ >1? 25' 9 25' 1 '6//' .-6*/% ' -*,- D;, 12' 12',) * .' 1-C' ?*-' + >,1- *.' 218',119' =/6>*' D ',) *' >6=,;-*' 620' >12CJ 65-6, 12' 1 ',) *.' -' 182' 01/.'M ')-12% L + ' KX% O5 ' 218' 1-',) *' -..', ?*' 6==*6- 25' 2',) *' .6>-*0') .,1- ' 6// *0',) *-.*/ ' 8 ,)' .-6*/!' 620' : -6?' .*2,' >*06-8110' 1-',) *' D; /0 25.' 1 ',) *' 2*8' >6= ,6/MK' 6?' + ' X' *.^ =*> 6// ' 1-',) *' =6/6>*' 1 ' 6+ 0') ?.*/' MK' 7?% + KX% ()6,',) *' ?*>)62 >6/ 6-,.' .)1;/0')6+*' D**2' 2' 6' +*- '/18',.,6,*' 6?125',) *' .-6*/ ,.*' 86.',1' D*' *L=*>,^ *0' . 2>*' D* 1-*',) *' -* 52' 1 ' 6;/' *+*2' .? ,) .' 1-5*.' 8*-*' 21,' 6//18*0' 6?125',) *?' D ',) *') / ., 2*.% 1,) 25' A18*+*- 7' >1;/0' D*' ?1-*' =-1 ,6D/*' 1-',) *')1*2>62.',) 62',) *' .*>;-, ' 1 ' >;/, +6, 12' *2A1 *0' D ',) *' .-6*/ ,*.' 2',) *' -* 52.' 1 ' 6+ 0' 620' 1/1?12% ()*',-60*' D*,8**2' (-*' 620' .-6*/' D*>6?*' 6,'12>*' *L^ ,-*?*/ ''/;>-6, +*',1' D1,) '620',) *' /*65;*' D*,8**2',/ *' ,81' ,6,*.' 86.'_; >9/ '+*- ' 2, ?6,*% $2)6//18*0' 620'=-1 62*' 6.' B*D;.') 60' D**2' D* 1-*' ,' 86.' 6,' 12>*' */*+6,*0',1' 6' .62>, , ' 8) >)' ,') 6.' 2*+*-'/1.,' 6D1+*' 62 ' 1 ',) *' 62> *2,' .62>,; 6- *.' 1 ',) *' /620% ()*' 6-9' 86.' 218'-*?1+*0' -1?' ,.' 1D.>;-, ' 6,' A6,)CA*6- ?' 8 ,)' ?6-9*0' .1/*?2, ' % T N% ',*?=1-6- ')6/,' M18 25',1' ,) *' 0*6,)' 1 ' $[[6)X 0*,6 2*0' ,' 6,' D*0C' *01? .') 1;.*' 6 ,*-' 8) >)' ,' 656 2' ?1+*0' 1-86-0' 8 ,)' 5-*6,'.,6,*' ,1' B*-;.6/*?% 2' 6..*?D/ ' 1 ',) *I' 26, 12' 86.' >12+*2*0' 620' M6>>1-0 25',1' ')-12% L K T d 'KCK X*.=*> 6// ' 1 ',) *' *+ ,*.% ()*' ?;. >6/ 6-,. ' 2' 8) >)' 6+ 0') ?..*/' *L>*//*0' I &*-* 218% 0*^ +*/1=*0' 12' 6' 5-*6,' .>6/*'M ') -12%' L+ ' SCKKT' K' 6?% + ' X% U6019' 620' D 6,)6-' ,) *' -*=-*.*2,6, +*.' 1 ' ,) *',81' 6-12 >' 6? / *.' 8*-*' D1,)' =-*.*2,'M ') -12% d ' X%)*262 6)'=-*. 0*0'1+*-',) *' ?;. >'M ') -12% d 'K7' K X% D*0C*01?' 1//18*0') .' .6>-*0' >)6-5*' M ')-12% L ' Q' K ' K X% ()*' =-1=)*,' 6,)62' 6==*6-.' 1-',) *' -.',?*' 6.',) *' >12,-1// 25' 60+ .*-' 1 ',) *' ;^ ,;-*' MK' 6?%+ ' NX% 6+ 0') ?.*/' 86.' 0-*..*0' 2',) *' 8) ,*' / 2*2' 0-*..' 1 ',) *' =- *.,/ ' 1-0*-' 8 ,) 1;,') .' -1 6/ -1D*.' 620' =/6 *0' 12' .,-;?*2.,' M ') -12% d 'K T K 6?%+ ' K X% .' 2',) *' =-1=)*, >'.>)11/.' 8)*-*') *') 60') ?.*/' D**2' D-1;5),' ;='M ' 6?% L ' X' 620' 6.',, // 2',) *' ?=-*.. +*' >*-*?12 6/1'.*?*' 6.,^ *-2' 0*-+ .) *.' 620' 1 ' *+ //*' >6,) *0-6/ M=-1D6D/ ' 0*^ - +*0' -1?',) *' 6.,X' 6' 8 /0' 062>*' 86.' =6-,' 1 ',) *' -*/ 5 1;.' .1/*?2, % 2,1',) .' 6+ 0',) A*8') ?.*/' % 8 ,)' ;2-*.*-+*0' *2,) ;. 6.?' 620',) ;.' >12+* *0',) *' .A7?D1/ 1',) *' =-*.*2>*' 1 'B*) 1+6)' 2,1',) *' 62> *2,')*6,) *2' 1-,-*..' M.** B% % < ;//*-' ' ' ' 1' ' 2' $51/2' -" f LLL X% **' f 2',) *' .6?*' .= - ,' 1 ' ;2, 25',) *' .6>*-01,6/ 8 ,)',) *' -1 6/ ;2>, 12.') 1' 1 *-*0' .6>- >*.' 12' 6' /6-5*' -6>*' 620') ?.*/' 56+*',) *' D*2*0 >, 12',1',) *' =*1=/*' MK 6?% + ' QT ')-12% L+ ' KX% ()*' .>*2*' 1',) .' 26;^ 5;-6, 12' 86.' 12',) *') // 8) >)' -1?' 6+ 0 .') 6D ,6^ ,12' 86.% .=*> 6// ' 921822' 6.',) *' ,' 1' 6+ O%J' .' ',1' ?6-9',) *' 2*8' *-6') *') 60' 21,' D-1;5),',) *' 62^ > *2',,6D*-26>/*' -1?' 4 D*12' D;,') 60' *-*>,*0' 6' 2*8' ,*2,' 1-',6D*-26>/*' M ')-12% L+ ' X' 1-',) *' -*>*=, 12' 1',) *' 6-9% ' 86.',) *' -.,' D*5 2;25' 1',) *' 5-*6,' 0*. 52' 1' 8) >)' 8*' 8 // .=*69' =-*.*2,/ ' 6 ,*-86-0.' >6-- *0' 1;,' D ') .' .12' 1' *-*>, 25' 6' =*-?62*2,',*?=/*' 1-' =6/6>*' 1-' ,) *' 6-9 ' >1--*.=120 25',1',) *' .,6,*' 2' 8) >)') *') ?.*/' 86.',1' 08*/!% ' 86.',) *' 5-*6,*.,' 06 ' 1 ' 6+ 0 .' / *% 2*' 2> 0*2,' 12/ ',6-2 .) *0' ,.' .=/*201- ' ,) *' -*=-16>)' 1 ' < >)6/') .' 8 *' 6.') *' 86.' 26// ' *2,*- 25') .' 18 /' =6/6>*' M1' >6-- ' ,1') .' 182')1;.*)1/0',) *' D*2*0>, 12' 8) >)') *') 60' 6/-*60 '=-1^ 21;2>*0' 12' D .' =*1=/*% ** ' ! : .' 6>,' 1' .*+*-, ' ,186-0.') *-' 86.' 62' 600, 126/ ?6-9' 1' ,) *' .,-*..' 8) >)') *') ?.*/' /6 0' 12',) *' .1/*?2, 'MK' 6?% + ' K CKNT ')-12% L+ ' KRX% '/6-5*' 2;?D*-' 1 '=.6/?.' * ,) *-' 2',) * -',-60, 126/ ,./*.' 1-' 2',) *' --*. ., D/*' *+ 0*2>*' 1',) * -' >12,*2,.' D*6-',-6>*.' 1 ',) .' 5-*6,' *., +6/' D*. 0*.,) 1.*' 8) >)' ?6 'D*' -* *--*0' *,) *-',1',) .' 1>>6. 12' 1-',1',) *' 0*0^ >6, 12' 1 ' 1/1?12.' (*?=/*' 1-' *+*2',1',) *' -*.,1-6^ ,12'1 ',) *' .6>-*0' .*-+ >*.' 12',) *' -*,;? -1?' 6D /12% ()*' ,) ' .,' 620' Q,) 'D ',) *' -' >12,*2,.' *L=-*..' ,) *' **/ 25./ 1 ' 6+ 0' 12') .' 1>>;=6, 12' 1') .' 218')1?*% ()*' SQ,) '6,' /*6.,' 2' =6-,' 620',) *' K ,D' .**?' ,1') 6+*' D**2' 6>,;6// ' >1?=1.*0' 1-',) *C' *2,-62>*' 1 ' ,) *' 6-9' 2,1',) *' 62> *2,' 56,*.' 1 ',) *') *6,) *2' 1-,-*..' 620',) *' /6..' 81-0.' 1 ',) *' .*>120' 1 ',) *.*' ,81' =.6/?.' ?6 ' D*' -*56-0*0' 6.',) *' 26;5;-6, 12' 1 ',) *' 2*8' 26?*' D ' 8) >)' 410') *2>* 1-,)' .' >6//*0' ()*' 1-0' 1 ') 1.,.%

&)1' ',) .'9 25' 1 '5/1- 'ZJJ II( )*' 1-0' 1 ')1.,.)*' .',) *'9 25'1 '5/1- J'M .6% LL + ' 1* >1?=% K 6?% + ' KX% -65?*2,.' 1 '=1*,- ' 81-9*0' ;=' ,,1' =.6/?.' ML>+ 'KC NT >+1 >+ ' ' QX 1>>;-' 2' ')-12% L+ ' QCNS' 6.')6+ 25' D**2' 0*/ +*-*0' D ' 6+ 0' 2,1',) *')620.'1 ' .6=)'620') .'D-1,)*-J'6 ,*-',)*' >/1.*' 1 ',)*' *., +6/% ' **' +

( )*' =- *.,.'1-' 6-12 ,*.' ?;.,' 1-'6'/125', ?*')6+*')60'/ ,,/*' 1>>;=6, 12' 2',)* -'.6>-*0'1 >*1' 1-',)*'6-9' 86.'6,' A6,)CA*6- ?';20*-',)*' >6-*' 1 '6'=- +6,*% 6?I' / % 20**0'0;- 25',)*' -* 52' 1 ' 6;/'8*' 20' .)*8C D-*60',1')6+*' D**2'.*,' 1-,)'6,' 1D'M ' 6?% LL ' CSX D ') ?*/*>)',)*' =- *.,1' 620',' .'=1.. D/*',)6,'?62 ' 1,)*-'>*-*?12 *.' 8*-*' =*- 1-?*0'D ',)*? 'A2' .= ,*' 1 ',)*' 6D.*2>*' 1 ',)*' 6-9% ;,'6 ,*-',)*'0-*60 ;/?6.C I'.6>-*' =*-=*,-6,*0' 12',)*' =- *.,/ ' 1-0*-'D ' 6;/' *8' 6-12 ,*.' 6-*/9*/ ',1')6+*' */,'6,' *6.*' 2',)*' -'+1>6P' , 12% (1'8*6-'62'*=)10 ',)*' ?6-9'1 '6'=- *.,' 8)1' .' 6.9 25' >1;27/ 1 'B*)1+6) ')60' 6/?1.,' D*>1?*' 6' >- ?*1' 620' *+*2'6 ,*-',)*' 0*6,)' 1 ' 6;/' ,' .'=1.. D/*' ,)6,',)*' 6-12 ,*.' /9*',)*' 1,)*-' G7-6*/,*.'-*?6 2*0' 1-562 [*0' 6.' D620.' 1 ' .1/0 *-.% ,' /*6.7'B*)1 606' M8)1'6>>1-0 25',1' ')-12% LL+ 'S'86.') 5)C=- *.,' 6,',) .',?*' 620'A1 2*0' 6+ 0' 6,' : *D-12' 8 ,)' N ' 6-12 ,*.X' 86.' 6,)*-'1 ',)*' >*/*D-6,*0' 86-- 1-' *26C 6)'6 ,*-86-0.'>6=,6 2'1 ' 6+ 0 .'D10 C5;6-0 ' 6' ?62' 8)1.*' _;6/ ,*.' 8*-*' 62 ,) 25' D;,' =- *.,C/9*' 620' U6019'6 ,*-86-0.') 5)C=- *.,'8)1'A1 2*0' 6+ 0' 8 ,)' ,8*2, C,81'>6=,6 2.'1 ') .' 6,)*- .')1;.*J'6,',)*' .6?*' , ?*'6.'B*)1 606' .'0*.>- D*0'6.' 6' 1;25'?62'? 5),' 1 '+6/1-J'M ')-12' L 'K 'KQX% : 18' /125'B*)1 606' -*,6 2*0',)*' =/6>*' 1 ') 5)C=- *.,' .';2>*-,?2% ,' ' =-1D6D/*',)6,' 21' 0* 2,*' >12>*=, 12',)*2' *L .,*0' 1 ',)*' 2**0'1 ')6+ 25' ') 5)C=- *.,' 620',' .'>*-,6 2' ,)6,' 6+ 0 .'6 *>, 12' 1-' D 6,)6-'D*>6;.*' 1 ') .' 6^ ,)*-.' 6,*' ?6 2,6 2*0') ?' 2' >) *'=/6>*',)-1;5)',)*' 9 5-*6,*-'=6-,' 1 ') .'-* 52% 1,' ;2,/'6'/6,*-',?*' ' 81;/0'.**?'!86.'U6019'*/*+6,*0',1'6'>1C1-0 26,*'=1. ^ , 12% ** ' ! 2 ' ;-,)*-'*?6-9.'>12>*-2^ 25',)*'1-0*-.'620'>1;-.*.'1 ',)*'=- *.,.' 8 // D*'D*,.*-' -*.*-+*0' 1-',)*'6-, >/*'12',)6,'.;DA*>,% ,' .'*21;5)')*-*',1' 600',)6,',)*'>-;*/.'6/.1'-* *-' ,1' 1-0*-*0'D ' 6;/' 1 ',)*' 6-12 ,*.'1 ',)*'/2*'1 ' ,)6?6-'8)1?' D 6^ ,)6-'218'-*=-*.*2,*0' 26,;-6// '56+*' 6'5-*6,'=-*=12^ 0*-62>*' 1 '2;?D*-.'620'=18*-',1',)*'/2*'1 ' /*6[6-',1' 8) >)' U6019'D*/125*0% & *' ?;.,' 6/.1'-* *-' ,1' 1-0*-*0'D ' 6;/' 1 ',)*' 6-, >/*') ' 1-' ;-,)*-' 2 1-?6, 12' >12>*-2^ 25',)*?% ()*' D- 25 25' 1 ',)*' 6-9' -1?' -A6,)C A*6- ?',1'B*-;.6/*?'*.,6D/.)*0',)*/2*'1 ') 5)C=- *.,.' 2'0 -*>,'.*-+ >*'D* 1-*' ,1' 620' -1?',) .', ?*'8*' ?6 ' =-*.;?*',)6,',)*'>*-*?12 *.' 1 ',)*' 5-*6,'06 '1 '6,12*^ ?*2,'D*562',1'D*' 1D.*-+*0% -*+ 1;./ ' ,' 81;/0'6=^ =*6-',)*' >122*>, 12' D*,8**2',)*' =- *.,)110' 620',)*' ,6D*-26>/*')60' D**2' +*- ' /11.*% ()*' =- *.,' L*0' ,)*' -'6D10*' 6,' 1D'8)*2',)*'6-9' 86.'6,' -A6,)CA*6C - ?'6'+*- '.)1-,'0.,62>*1' *',),)*-*' .'21,) 25',1'0*^ 21,*',)6,',)*' 6,'6//2,*-*-*0'8 ,)' D 2606D' 2') .' *L>/;.+*'>6-*'1 ',)*' .6>-*0'0*=1. ,% ,*-',) .'*+*2,',)*'9 25'>12,-6., 25') .'>*06-'=6/^ 6>*' 8 ,)',)*' >;-,6 2.'1 ',)*' ,6D*-26>/*'86.'0*. -1;.' 1 'D; /0 25' 6',*?=/*' 1-',)*'6-9 1' .;>)'6' .,*=' ?1-*^ 1+*-'86.'/9*/ ',1'=-*+*2,'62 ' ;,;-*' >)625*' 1 ' ,' 6D10*% ()' 0*. 52' 8)*2' ?=6-,*0',1',)*'=-1=)*,' 6,)62' &6,'-*>* +*0'D ') ?' 8 ,)' 86-?' *2>1;-65*^ ?*2,% : *')60',1'/*6-2')18*+*-',)6,',)*' .**? 25/ '1D+1;.' ,2*..' 1 '6' =;D/>' ?*6.;-*' 0 0' 21,' *L>;.*' 6' =-1=)*,' -1?',)*'1D/ 56, 12' 1 '>12.;/, 25',)*' 1-0'D*^ 1-*')*'+*2,;-*0',1';,,*-'62'6;,)1- ,6, +*'1= 2 12' Z.' ,)*'2*L,'06 ')*')60',1'-*,;-2',1',)*'9 25'8 ,)' 2^ ,?6, 12',)6,')*'?;.,'6D62012',)*' 2,*2, 12'1 '*L*>;^ ,25',) .'5-*6,';20*-,69 25% ()*' 0*. 52' .' 20**0' >1?2?*20*0' *,'6.')*')60'D**2'6' 86-- 1-' -1?')' 1;,)'620')60'.)*0'?;>)')?62'D/110')*' 86.'=-1^ 21;2>*0',2 ,' 1-',) .'.6>-*0'81-9'8)>)'86.',)*-*^ 1-*',1'D*' -*.*-+*0' 1-',)*'=*6>*;/-*52'1 ')..';>^ >*..1-% 2>1;-65*0'D ',)*'0 + 2*' 6==-1D6, 12' 620' D ',)*')5)'=-1? .*.' 8)>)'8*-*' 12',) .' 1>>6. 12 5 +*2',1') ?' 6+ 0')*2>* 1-,)'?60*' ,' 12*' 1 ',)*' 5-*6,'1DA*>,.' 1 'D .'-* 52',1'56,)*-' *62.'620'?6,*- ^ 6/.' 1-',) .' ?=1-,62,';20*-,69 25',)*'>-*0 ,'1 '8)>)')*' .' 6 -/ '*2, ,/*0',1'0 + 0*'8 ,)') .'.12'D '8)1?',' 86.'6>,;6// '*L*>;,*0% *' ! 6 4-*6,'6.'? 5),'6==*6-',)*'60+62,65*'1 '*.,6D/.) 25',)*'.6?*'>, '6.',)*'-*/5 1;.'620'> + /?*,-1=1/.',)*' * *>,'86.' 2'12*'-*.=*>,'?1.',;2 1-.;26,*† ,'1 ,*20C *0',)*'=18*- ;/620'>*2,-6/,-D*' 1 ' =)-6 ?% ()*')60'D**2'6>>;.,1?*0',1'-*56-0')/1)'6.',)*'-5), ;/ 6D10*' 1 ',)*' 6-9% 56 2.,' A6,)CA*6- ?' 21' *2+ 86.' */,'*.=*> 6// '&)/*',)*'6-9'620', 7=- *.,.'8*-*' 2'1D.>;-, T D;,'8)*2' .1' ?;>)')121-' 6,,*20*0', T 8)*2' ,'D*>6?*'6'=*>;/6-'5/1- ',1'B;06)'620' *2A6^ ? 2C,- D*.'6/-*60 ',11' ?;>)' 6+1-*0† 8)*2'6' ?65^ 2 >*2,'*0 >*' 86.'C*-*>,*0',1' -*>* +*' ,',)*' .**0.' 8*-*' .182'1',)6,'0 .6 *>, 12'8)>)'*20*0' 2'6' -*20^ 25'1',)*',- D*.'6=6-,% 1-'86.',)*'6-5;?*2,';2-*6C7 .126D/*',)6,'6'?1-*'>*2,-6/.=1,'86.'2**0*0'1-' .-6*/ ,='6..*?D/*'6,' *6-'D ' *6-% K@ ' '" ' ' '6 % ' ' 'MK 6?% ,'1 L X% ' ()*'*-*>, 12'1',)*'2*8' >6=,6/6, B*-;.6/*?' 2,-10;>*.';.',1'6' 2*8'*-6' 2' 6+ 0./ *' 620' 2',)*') ..,1- '1',)*'?126->) % $='1',) .', ?*')*')60'D**2'6'9 25' .;>)'6.' 6;/)60'D**2'D* 1-*')?' 1-'6.',)*'9 25.'1',)*'2* 5)D1- 25',-D*.'*6>)'-;/25' 1+*-').',*,-,1- ';2>12>*-2*0'8 ,)'62' 1-* 52' -*/6^ ,12.'*L>*=,'1' 6-'6.'86.'2*>*..6- ',1'0* *20'D .'182' 26, 12% ;,' 6+ 0'620',)-1;5)')?',)*' .-6*/ , .)' ?126->) '218',119'6'8 0*-' -625*% : *%D*>6?*' 6' 9 25'12',)1'.>6/*' 1 ',D*'5-*6,' -*2,6/.1+*-* 52.'1' 5 =,'620' *-. 6'8 ,)'6' -*5;/6-'60?2 .,-6, 12'620' 1-562 [6, 12'1 '>1;-,'620'>6?='620')1'6/.1' 1;20*0' 62' ?=*-6/01?2 12'8)0*-' -625*% ..',?*'-*6/[*0' ,)*'=-1=)*,>'0*.>-=, 12'1',)*'D1;20.'1',)*')1.*2' =*1=/*'M4*2% L+' QCK X% ()*' 2,*-26/1-562 [6, 12' 218'*.,6D/.)*0'/6.,*0',//,)*' 26/1+*-,)-18'1'B)*' ?1?,->) % ()*'*?=*-6% 1' ?;>)'.)1-,*-'0;-6^ ,12'>12, 2;25'12/',)-1;5)',)*-*'52.'1' 6+ 0'6=0').'.;>>*..1-' 1/1?12% ;,' 1-',)*'=*- 10'1' ,.'*L^ .,*2>*' ,/*2,'6'=*>;/6-'>)6-6>,*-',1',)*'.6>-*0') .^ ,1- % 1-'12>*',)*'9 25'1' .-6*/8*-*' 12'6'/*+*/ ,)',)*'5-*6,'=1,*2,6,*.'1',)*'81-/0% 6+ 0'86.' 62' ?=*-6/>12_;*-1-' '21,'1',)*'.6?*'?652,;0*' *,'1',)*'.6?*'9 20'6.'6?*.*.'1-' -;.% ')6+*'7 ?60*',)**'6'5-*6,'26?*'/9*';2,1',)*'26?*'1',)*' 5-*6,'?*2',)6,'6-*' 2',)*'*6-,)J'MK 6?% + 'RX% ()1;')6.,'.)*0'D/110'6D;2062,/ '620'D6.,'?60*' 5-*6,'86-.J'M ')-12% LL 'QX% 20'6.'12',)*'12*')620',)*'*L,*-26/-*/6,12.'1'/ *'620',)*'5-*6,'2>^ 0*2,.'1'86-'620'>12_;*.,'-*>* +*' 62'*/*+6,12'D' ,)*-'>12,6>,'8,)',)*'-*/5 1;.') .,1- '.1',)*'-*/5^ 1;.') .,1 '.8*//.'2,1'/6-5*-'620'D-160*-'0?*2.12.' -1?' ,.'>12,6>,'8,)',)*'>1;-.*1',)*'1;.*-'81-/0% ()*'*2/6-5*?*2,'1',*-- ,1- ',)*'6?=/ >6, 12'1 '=18^ *-'620'.,6,*'/*60.',1'6'>1--*.=120 25'*2/6-5*?*2,'620' 6?=/ >6, 12'1 '0*6.'1 ' ?65*- '1 '. ?=6,) *.'620' ,);.'M);?62/'.=*69 25%',)*'?652 >*2,'1-*,)6018^ 25.'1 '6'8 0*-'0.=*2.6, 12' 2',)*'=-1=)*,>'8- , 25.' -.'D*>6?*'=1.. D/*',)-1;5)',)*'>1;-,'620'*?=-*'1 ' 6+ 0% ! 2',)*' 2,*-26/1-562 [6, 12'1 ',)*'9 2501?',)*' -.',2*8'*/*?*2',)6,')6.',1'D*'>12. 0*-*0' .',)*'-1 ^ 6/'6?/ ',)*'0 26., '1'8)>)' 6+ 0'86.',)*'1;20^ *-'6'=1. , 12'f-)>)'*2, ,/*0',)?',1',)*'26?*'1' ' 6^ ,-6->)J'M >,.' 'KRX'620'M;/, ?6,*/ X'1',)*'62>*.,1-' 1',)*' <*.. 6)% 2>*'.*,,/*0' 2'B*-;.6/*?' 6+ 0' =-1>**0*0',1' 2>-*6.*',)*'2;?D*-'1') .'8 +*.'=*-^)6=.' 2'=6-,' -1?',)*'.6?*'=1/,>6/'?1, +*',)6,'6>,;^ 6,*.'1,)*-' -*2,6/?120-6>).'+[% 2'1-0*-',1',69*' " ' -1?',)*')*>)*,6 2.'-1;20' 2',)*/*6.,'1 *2. +*' ?10*% ().'*L=/626, 12'8 // 21,'6==/',1',)*'>12>;^ D 2*.% &*'9218'21,) 25' ;-,)*-'>12>*-2 25' 6+ 0.' 6? /'-*/6, 12.',)62',)*'26?*.'1'*/*+*2'.12.'D1-2' 2' B*-;.6/*?'MK 6?'+' SX'1'8)1?' 1;-'8*-*>)/^ 0-*2'1 ' 6,)*)*D6'M ')-12% ' X'620',)*-* 1-*' ?;>)' 1;25*-',)62',)*'*/0*-'.12.%



-1;20' ?' 2') .' 8620*- 25.% ()*' 2; ?D*-' 1 S '86.'
D, // =-*.*-+*0'8 ,)',)*' 26?*' 1'? " 1' '/ *-1*.J'
1-' -6 5), '?*2%J f ,'D*>6?*' *,' ;-.,)*-'..;DO + 0*0'
2,1',)-*'' /6-5*' D620.' 1 K '*6>)'620'.?6// D620.' 1'
K '*6>)%3 ()*'.?6//D6;0.' 8*-*' >1?7620*0'D ',) -, '
1 >*-. 72*' 1-' *6>)' D620' 8)1',15*,)*-' 1-?*0' ,)*'
,) -, 'J'620',)*',)-**'/6-5*' D620.'D ',)-**'1 >*-.'8)1'
,15*,)*-' 1-?*0' ,)*' ,)-** J' 620' ,)*' 8)1/*' D ' 12*'
>) * ' ,*'>6=,6 2'1 ',)*' ? 5), '?*2J'MK' 6?%LL '
QCNRT' ')-1)%L ' C X' ()*-*'.**?.',1')6+*' D**2'6'
.*>120'%1-' 6/,*-26,*' .*,',1' ,)*',)-** J' 620' 2',) .'
5-60*'6.' 8*// 6.' 6?125',)*' .;D6/,*-2' ,) -, J' 12*'
.' 6==6-*2,/ ' 26?*0' 6.' 1;,-629 25' D .' >1//*65;*.7'
()*-*' .' >12. 0*-6D/*' 0 >;/, ' 2' 60A;., 25',)* -'-*/6-'
, +*'=1., 12'620',81'1-',)-**' 26?*.' 6==*6-',1')6+*'
D**2'1?,,*0% ()*' . L,**2' 600 , 126/ 26?*.' 5 +*2'
2' ')-12%L'?6'D*',)1.*'1'6/,*-26,*.',1' ',)*',) -^
, %J' ' ,)*',) -, J' .1?*' *8'12/ '6-*' 92182',1'
6?*' */.*8)*-*% .6)*/' 6+ 0 .' 2*=)*8'M')-12%
L 'KST' K' 6?% ' QXT' /)626?',)*' + >,1-' 1'6,'/*6.,'
1=*' 41/6,)'M')-12%L 'KST' [' 6?%LL ' RXT' B1*/'
, /7D-1,)*-'1-'.12'M *=,%X1' 6,)62'M' #)-1 7L 'NQXT'
6)6-6 ',)*' 6-?1-CD*6-*-' 1 'B16D'M')-12%L 'NRT' K
6?%LL 'N XT' /6?',)*' .12'1') ,1=)*/'MK' 6?%
LL 'N XT' -6' 12*' 1 '=6+0 .' =-*.,,' M')-12%L '
T' K' 6?%LL ' NQT' LL 'KSXT' $-6)',)*' : ,, ,.*' M'
)-12%L ' T' K' 6?%LL ' NRT' L 'NX%' **' : 1 ^
?622' ? " " ' '#2 '; 'M2') .'6 !'+ '
&"" 1' 1%+X%
()*' 1//18 25' .' 6' >1--*>,*0' 620' >/6.. *0'/ .,' 1'
,)*' 21,*0' 86-- 1-.' 1' 6+0 .' +*,*-62.% **' *6>)'
26?*' 2' ,.'6/=)6D*, >6/=/6>*%

1% " ' ' ! a ''&X K6
%B6./1D*6?'M.12'1'U6D0*/X'6'0*.>*2062,'
1'/ 6>)?12%%%

,)*' .;==1-,'1 ') .' .12 ,)*'1,)*-'U60197 8)1' ? 2 .,*-.'6'0 6,' 4 D*12')-12'L+ 'NRX'620'8)1'86.' ?60*',)*')*60'1 ',)* 6-12 >' 6? / 'ML L+ ' X 7. 0*.',)*.*' 1;-'5-*6,'-*/ 5 1;.' ;2>, 126- *.',)*-*'8*-*',81'>/6..^ *.' 1 '.#D1-0?6,*. ' =-1=)*,. ' .=*> 6// ' 2.,-;>,*0' 2' . 25 25'620' ? ;. > ' ;20*-' .6=) ' : *?62 ',)*' 5-620^ .12' 1 ' 6? ;*/ '620'B*0 ;.) ;2' M ')-12 LL+ ' CN X' *+ ,*. ' 1-' 6,,*2062,.' 12' ,)*' .62>,;6- ' 8)1' 656 2' 8*-*' .;D0 + 0*0' 2,1',)*' 5;6-0 62.'1 ',)*,-*6.;-*.'M ')-12 LL+ 'KQX 8) >)')60' D*'2' 6>>; ? ;/6,*0 ' . 2>*' ,)*' -*0*.,6D/ .) ? *2,' 1 ' ,)*' 26, 12 'D ' 6? ;*/ ' 6;/ ' D2*-'B16D'620' 6+ 0') ?.*/'M ')-12 LL+ 'KSCKQX ()*'>1//*>, 12'1 ',)1.*'+6-1;.' ? 2 .,*-.'620'-*=-*^ .*2,6, +*.'1 '81-.) =' -1;20',)*'>6= ,6/ ? ;.,')6+*'5 +^ *2'6'2*8'6.=*>',1',)*') .,1 ' 2' 6+ 0 .', ? *' .;>)'6.' ,')60' 21,'D1-2*' ;20*-',)*'0 .>122*>,*0'=*- 10'1 ',)*' A;05*. ;',)*' ?6 2'=*>;/ 6- , '1 ',)*' 8)1/*' ?;.,')6+*'D**2',)6,' ,1'8*/')6-?12 [*0'8 ,)',)*' >)-6>^ ,*-'1 ') ?' 8)1'86.' ,.' >*2,-* .') .' *6-/ ' ?6-, 6/ / *' ., /' =/6>*0') ?' 6,',)*')*60'1 ',)*' ? / ,6- '1-562^ [6, 12'8) >)')60' .=-;25';='6-1;20') ? ' ') .' *6-/ ' *0;>6, 12'620') .' 26,;-6/0 .=1. , 12'=/6>*0') ?'6,',)*')*60'1 ') .' 182' -*/5 1;.' 2., ,;, 12. : ?.*/'6' =-1=)*,' 6' =.6/? .,')*' 86.'12*' 2')*6-,' 8 ,)',)1.*' 8)1.*' 60+ >*')*' .1;5),'620' 8)1.*' 6-,.')*' 1.,*-*0)6,'86.' .,// ?1-*'-*?6-96D/*',)1;5)'21,') ?.*/'6' =- *.,')*' *,'6..;?*0'6/?1.,'6//',)*' ;2>, 12.';.;6// ' 6.>-D*0',1',)*' =- *.,/ '1 >* :*' 81-*'6.'8*')6+*' .**2',)*' =- *.,/ '0-*..'1 *-*0',)*' .6>- >*.'56+*',)*' =- *.,/ 'D*2*0>, 12'MK' 6? + ' QX' 620'6.' ',1' 2>/;0*') .' 8)1/*>1;-,' 8 ,) 2',)*' .6?*.6>*-01,6/ .62>,, ' *26 6)',)*>6=,6 2'1 ').'5;6-0'86.'6'=- *.,' D '0*.>*2,'M ')-12 LL+ 'SX'620'A1 2*0' 2',)*' .6^ >-*0';.>'M ')-12 L+ 'SX' 6+ 0') ?.*/'620' ',)*' >6=,6 2.'1 ',)*')1.,J'6--625*0',)*'=-1=)*, >6/0;,*.' M ')-12 LL+ ' X' 620') .' .12.' 6-*' 6>,;6// ' >6/*'0' =- *.,.J'MK' 6? + ' ' ')-12 L+ ' ',-62.^ /6,*0' >) * J'620' O % ' >) * '-;/*-.JX'6.'8*/' 6.' -6' 1 ' <626..*)'MK' 6?LL 'KS',-62./6,*0' >) * '-;/*- J'D;,'$V1,2*XI' ;>)'6';2 12'86.'2*+*-'.**2'D*^ 1-*' 1-' .)**' 2',)*' B*8 .)') .,1- +*2' 1/1?12' */' D/*18' ,' 2'.1?* ?=1-,62,'=1 2,. ! -1?',)*' 2,*-26/ .,6,*' 1 ' 6+ 0 .' 9 2501?' 8*' =6..',1',..' *L,*-26/-*/6, 12. 6+ 0 .' ;-,)*-'+>,1^ - *.' 6-*' 26--6,*0' 2',)*' 1//18 25'1-0*- ') / ., 2*.' <16D'U1D6)' 01?' 1-,)*-2' *65;*' ., --*0' ;=' D' ,)*' ? ?12 ,*.' ? ?12'M.**' : 6.*' ' ' ' ' ' $!' % ' !'" !' 1- ?D NR S X ( )*' .)1-,'620'0- ' 21, >*' >12>*-2 25',)*') / ., 2*.' A;.,'5 +*.';.',1';20*-.,620',),)',) .' .',)*'*-6'1',)*-' 0*> . +*',)1;5)'21,' 26/ .;DA;56, 12 ( )* -',182.' 8*-*' 0*.=1/*0'1',)*-'8*6/,)'MK' 6? + ' L X'620' 01;D,/*..'6/',)*-'6-?.'620'?;2 , 12.'1'86-'=6..*0' 1*-' 2,1*,)*'.*-+ >*'1',)*'>12_;*-1- K ( )*'<16D^ ,*.' 8*-*' 6' =6.,1-6/ =*1=/*' 8)1.*' 5*2*-6/ -*/6, 12.' 8 ,)' .-6*/ 6==*6-',1')6+*' D**2'=*6>* ;/ ./ 5),' 21, >*' 1' 6;/ .')1.,/ ,*.' 8 ,)',)*?' M ' 6?% L + ' X' .',)*' 12/ ' D-*6>)' -*>1-0*0' 2>*',)*' , ?*' 1' 5/12' 620') ;0 2',)*' D119' 1' ;,)' 8*' .**,),)*?' 6.' - *20/ ' 2* 5)D1-.'020'?;>)' ?1-*'-*>*2,/ 'M ' 6? LL 'N X' 6+ 0'>1?? ,,*0') .'=6-*2,.',1',)*' >6-*' 1' ,)*'9 25'1'<16D & *'9218'21'>6;.*'*L>*=,' 6+ 0 .',-*25,)' 8) >)' 218' 0-*8') .' 6-?.' ;=12' ,)*? =*1=/*'/125'6>>;.,1?*0',1'=*6>*' 2'>12 />,'8 ,)' 6'+*,^ *-62'6-? '86.'.,-;>9'0182'6,'12>*'D;,),)*' *->*2*..' 1') .',-;?=)'?6 '.;-=-.*'; (81',)-0.'1',)*' =1=;/6, 12'M '8*' - 5),/ ' 2,*-=-*',)*' 81-0.'K' 6? + 'KX' 8*-*'=;,',1',)*' .81-0' ,)*' -*.,'D*>6?*',-D^ ;,6- N &)1'6-*' ?*62,'D ',)*' A- 6_='1 'U1D6)' .' ., // 6' =-1D/*? **' 2 '! & *' >*-*' 1//18',)*' D*/ *',)6,' ,'86.'6'=18*-'1 '21-,)*-2' -6',)*?'6 ?^ 25'6,'*L,*2. +*' *?=-*' 8) >)')60' 21,' 12/ '0* *6,*0' 620'); ?D/*0',)*' 9 25'1 ' :6?6,)'D;')60' 1D,6 2*0')1?65*' D* 120',)*' ;=)-6,*. ()*',-62.CB1-062 >' ,-D*.' 2',)*', ?*' 1 ' 6;/)60' 1;20*0'6'/ ,,/*' *?=-*' 1-',)*?.*/+*.'D '>12_;*- 25',)* -' *6.,*-2'2* 5)D1-. ,)*' : 656-*2*. ' 620 '=*-)6=. '1>>6. 126// ' 1+*--62',)*' 0 .,- >,'12',)*'. 0*' 1 ',)*' ;=)-6,*. ' 8) >)' : 6060*[*-' 9 25' 1 ' U1D6)' >12. 0*-*0' 6.') .%182 : .' * 1-,.' ,1' -*>1+*-') .' D1-0*-' 6,' ,)*' - +*-' ;=)-6,*.J' -,' D-1;5),') ?' 2,1' >< / . 12' 8 ,)' 6+ 0 '=*-)6=.'D '62' 6,,6>9' 8) >)' D*' ?60*' 12',)*'-16? 25' 6.,* [',- D*.% 6+ 0' 0* *6,*0' 21,' ?*-*/ ') .' 6-? 'D;,',)6,'1 ' 6^ ?6.>;.' ,11' 8) >)' >6?*',11'/6,*' 8 ,)' .;>>1-' 620'=;,' .-6*/ , .)' 56-- .12.' 2,1',)*',182.'1 ',)*' 6?6.>*2*.' M.**' < >)6*/ .' # ' ' ' > ' 7 " 1' 2')' 2!' $ ' ? ' SN ' ' . %X 2' ,) .' >6-**-' 1 '.;>>*.. ' 8*' .**' 1-',)*' -.,', ?*' 2' D .,1-A ' ,)*' ;2 1-?' .;=*- 1- , ' 1+*-' -68',-11=.' 1 '6' =18*-' 8) >)' .' 6/86 .' 5), 25'1' 8)1.*' .,620 25' 6-) ' .' *+*-' 56 2 25' *L=*- *2>*' 620' ? ;,;6/ >12 0*2>* % ' 21,)*-'+ >,1- '56 2*0' ' 2',)*'+6//* '1 '.6/, J'1;5),' =*-)6=. ',1'D*' -*60'6.' 2' ')-12 L+ ' K'620' 2',)*' .;=*-.>- =, 12' 1 ' .6 /L ' 1+*-' ,)*' 6 1(21,' 1+*-',)*' $ 1(( )*' 0 *-*2>*' 1 ',)*' : *D-*8' ,*L,;6/ /*,,*-.' .' +*- ' ./5),' 620' ( )* +*-.*' 8)>)' 1//18.' MK' 6-6'+ ' X' .**?.',1',*//',)*' -*.;/,' M -',) .' + >,1- ' + [',)*' >1?=/*,*' .;DA;56, 12' 620'56-- .12 25'1' 01?'8) >) '/ 9*' <16D'86.' 2>1-^ =1-6,*0' 8 ,)' 6+ 0 .' *?=-* ? ?*0 6,*/ ' D* 1-*' ,) .'/6.,' >12_;*.,'6.' 81;/0'6==*6-')*' 8-1,*' ,)*' ,)' .6/?' 620'6.',)6,' .6/?'5 +*.'21') 2,'1 ').6>) *+*^ ?*2,.'656 2.',)*' 9 25'1 'U1D6)'620',)*' 6?6.>*2# ' ,) .' .' 6' .,-125' 5-1;20' 1-' D*/ *+ 25',)6,',)1.*' .;>^ >*..*.' 8*-*' 21,'56 2*0', /' .1?*8)6,'/6,*-' 2', ?* ,*-' 6+ 0')60' D*>1?*' ?6.,*-' 1 '6/ .-6*/' 1 ',)*') / ., 2*' ,182.' 1 ' 01?'620' 1 ' <16D' 8) /*' ,)*' 6.,*-2' ,- D*.')6+ 25' >12_;*-*0' ,)*' : 656-*2*.' ,)-*6,*2*0',)*' ? ?12 ,*.' 12',)*' 21-,)' 6.' 0 0' <16D' 12',)*' 1-' 6-?*0' 620'>6//*0' 2',)*' =18*-.'1 ' - 6',1',)*-')*/=' 656 2.,' 6' 1*' 8)1' 86.'5-18 25'0625*-1;.' *+*2',1',)*?' 620' 8)1?',)*')60' =-1+19*0' D '6'5-1..' 2.;/,' M.**' 69*' ?6>)*-' ' * " ' 1' 2') .' ," + f d '._ X ( )*' >16/ , 12'656 2.', 6+ 0' .I0*7 .>- D*0'6.' >12. ., 25'1',)*' - 62.' 1 ' *,)-*)1D'620' 1 ' <66>6)' 1 'U1D6)' 620' 1 ' (1D ( )*' /6.,' >1;2,- ' 6==*6-.',1')6+*' D**2' 2',)*' 0 .,- >,'1 ' (-6>)-2 . ',)*' -.,',81' ? ?*0 6,*/ '12',)*' 21-,)' 1 ' .-6*/ 2',) .' 86-' 8*' ?6 ' D*/ *+*',)6,' 6+ 0' *2A1 *0',)*' = =1-'C ,62,'6// 62>*' 1 '(1 '9 25'1 ' : 6?6,) '8)1')6+ 25'.; ^ *-*0' -1?' : 6060*[*- .')1., / , ' >1;-,*0',)*' - *20^ .) =' 1 ',)*' .-6*/ , .)' ?126->)' MK' 6? + ' R' MX & *' 6-*' D6-*/ ' 2 1-?*0',)6,'12*'0 + . 12'1 ',)*' .-6*/^ ,*.' ;20*-' D .)6 '86.' =1.,*0'656 2.',)*' ? ?12 ,*.!' 6' .*>120' ;20*-' B16D' ?*.',)*' >12 *0*-6,*.' -1?',)*' 21-,)' N .,-125'620'=-*+*2,*0',)*-'A;2>, 12'C8 ,)' ,)*' ? ?12 ,*. 2' /X ,)' =/6>*.',)*' *2*? ' 86.' -*^ =*//*0',)1;5)' ,'81;/0' .**?' 8 ,)' 21' 0*> . +*' -*. ;/, '.*>120' >6?=6 52')18*+*-',119' =/6>* ()*' 9 25' 1 'U1D6)'D-1;5),' 2'62'6-? '1 '<*.1=1,6? 62.' 2'60^ 0 , 12',1') .' 1-?*-',-11=.' 620' 6+ 0' 1;20C ,' 2*>*.^ .6- ',1' ?69*' 6'/*+ '1 '6// .-6*/ ,1' ?**,',)*' =-*.. 25' 0625*- ' = ,>)*0' D6,,/*' 12' 6' 5-*6,' .>6/*' 86.',)*2' 1;5),'6,' : */6? ' 76' D* 120',)*' / ? ,.' 1 ',)*',8*/+*' ,- D*.' ' 2' 8) >)' 6+ 0' 86.'+ >,1- 1;. : *' .' .6 0',1')6+*' ./6 2'6>>1-0 25',1' K 6?% L' Q',)*' ?*/9' 1 ' ' >)6- 1,.' 620' ')1-.*?*2'1 ' 6>>1-0 25',1' ')-12 L L' Q',)*' ?*2' 1 ' ' >)6- 1,.' 620' ' 11,?*2 ' 8*)60'6>>*..',1',)*'>1;-,C-*>1-0.'1 ': 6^ ?6,)'8*' .)1;/0'=-1D6D/ ' 20',)6,'(1')60'6..*?D/*0') .'8)1/*'>6+6/- ',1'6.. .; 6+ 0'620',)6,',1') ?'86.' 0;*' ,)*' ?=1-,62,' .*-+ >*' 1 '0 .6D/ 25' 1-' 0*.,-1 25' ,)*'*2*? .')1-.*C ;>)' 1-* 52'6 0' ?6 '*L=/6 2')*' 5*2*-6/ -*.;/, ' 8 ,)1;,' 1;-' 1D,-;0 25'6' ? -6>/*' 1-' 8)>)' ,)*' 26--6, +*' 5 +*.' ;' 21,' ,)*' /6..' 86--62,' ()*' - 62.')*2>* 1-,)' /* ',)*' ? ?12 ,*.' ,1',)*' -' 182')1?*' D '6,^ ,6>9 25',)*' -'>) * '> , ' 1-' 6DD6)' 1 ' ? ?12 ()*

26,;-6/ ..-*25,)' 1 ',)* -'D1-0*-' >1;/0' 21,'9**='1;,'+*,^ *-62',-11=.'620'62'*L=*- *2>*0'/*60*-' 620',)1;5)',)*' . *5*' 1 ',)*' > , ' 1>>;= *0' ? 62 ' ?12,) .'M ' 20**0' ,' 86.' 21,'=-1/125*0' 2,1' ,)*' 2*L,' *6-X' ,' 86.' 6,' /6.,' ,69*2% ' ,' .' >)6-6>,*- .,>' 1 ' - *2,6/ 0*.=1, .?',)6,' B16D 8)*2',)*' > , ' 86.' 2*6-/ '-*0;>*0' .*2,',1' 2+ ,*' 6+ 0',1'>1? ?620',)*' 26/ 6..6;/,' 2'=*-.12% 6+ 0' 56,)*-*0'6'/6-5*' 1->*' *6. / '>6=,;-*0',)*'-1 6/,182' 620'0*.=1 /*0' ,'1 '6// ,.' 8*6/,)% : .'+*25*62>*' 86.' 6.' ? ;>)' ?1-*' 0-*60 ;/ 12',)*' ;2 1-,;26,*' 2)6D ,62,.' ,)62' 1-?*-/ '12',)*' <16D ,*.'6.',)*'0625*-' 2'8) >)' ,)*' ? ?12 ,*.'D60' 2+1/+*0' .-6*/)60'D*'2' ?1-*' ?^ ? 2*2,% ()*'=*-.12.'>6=,;-*0' 2',)*'> , '8*-*'=;','1' 0*6,)'D ',1-,;-*' .1?*' 1',)*'?'D* 25'.68*0' 2'= *>*.' 1,)*-.')1==*0';=' 8 ,)'6L*.'1-'?625/*0'8 ,)')6--18.' 8)/*.1?*' 8*-*'.?1,)*-*0' 2'D-> 9©9 /2.'MK' 6?% L ' N T ')-12% LL 'NX' () .' .*+*-, ' 86.'=*-)6=.' * ^ *>,;6/ 2'_;*// 25' ;,;-*' ?1+*?*2,.'1 '-*+1/,'1-'8 6-' 1-';2,/ 2.;--*>, 12.' 2' .-6*/ *?D1/0*2',)*?' 1-^ * 52' 1*.' 6 ,*-',) .' -*?6 2'_;*,% ,)*-.')18*+*-' ;20*-..,620',)6,',)*.*' =- .12*-.' 1' 86-' 8*-*' ?*-*/ ' =;',1')6-0'/6D1-' 8 ,)',)*'+6- 1;.' 2.,-;?*2,.'26?*0% M ** 62[' ' ' ' 2' '& ' 2' 'B*2% ' ?=,.>)' ' '& 2' ' ' 4 ' ' '* ' ! =.% N X% ()*' -1 6/ >-182'1-' '>-182'1' < />1? II' 86.'=/6>*0'12' 6+ 0 .')*60'MK' 6?% L 'N X'620'6>>1-0 25',1'B1.*=);.'I1& ' + 'SX'86.'6/86 .' 81-2'D ') ?'6 ,*-86-0.% ()*' : *^ D-*8',-60 , 12'MB*-1?*' '# !' ' ')-12% LL 'KX' -*=-*.*2,.' ,' 6.')6+ 25' D**2',)*' 0 60*?' 1',)*' ?^ ?12 ,*' 510' < />1?'1-' < 1/1>)' 620',)6,' ,,6',)*' 4 ,C ,*'M01 25' 8)6,'21' .-6*/ ,*' >1;/0')6+*' 0127' 1-' *6-' 1 '=1//;, 12X ,1-*' ,' -1?',)*' 01/ .')*60' 620' D-1;5),' ,',1' 6+ 0% ()*' 5*2*-6/ '=*6>*' 8) >)' 1//18*0' 86.' >1? ?*?1-6,*0' 2',)*' 26?*' 1' ',)*' *6>* ;/J' M 1/1^ ?12X'5 +*2',1',)*' .12' D1-2',1') ?'6,',) .'>- . .% (1',)*.*' 86-.' 2' 5*2*-6/ ?6 ' D*' 6.>- D*0'=.6/?.' L' 620' F ' (1',)*' 01? , .)' 86-'D1,)' D ' ,.', ,/*' 620' >12,*2,.' ? ;.,' D*' 6.>- D*0'=.6/?'/L 'SC K7>+ ' C NX' 0*.>- D 25',)*' 6..6;/,'12' *,-6% .6/?'L+ 'M-*=*6,^ *0' 2'K' 6?% LL X' .'6.>- D*0'D ' ,.', ,/*' 620'6==*6-.' -1?' .1?*' *L=-*.. 12.',1'D*/125',1',)*' 06 ' ``8)*2' ,)*' 1-0')60'0*/ +*-*0') ?' 1;,)*')620'1' 6;/J'MK' 6 2' LL ' T' .6% L+ ' X% ()6,' 06 J' ?6 ' D*' * ,)*-' 6,',) .', ?*' 1-'6,',)*' *20'1 'D ./ *% .6/?.' ddf 620' LL '-*/6,*',1',)*' 5*2*-6/ ;2 12' 1 '-*/ 5 1;.' 620' 1 '? / ,6- ' *L>*//*2> *.' 0 .=/6 *0'6,',) .', ?*' 1 ') .'>6-**-% M .6/?' LL 'N' '()1;'.*,,*..',6'>-182'1' =;-*' 51/0';=12') .')*60 J'21,' ?=-1D6D/A'-* *-.',1',)*' 51/0*2'>-182'1' ? ?12' K' 6?*L 'N %X N% (' 4 ' : .,1- % ' ()-**' 5-*6,'>6/6?,^6/1 ') ./ *' 86.'655-6+6,*0'D ',)*' ?=*,21. ,'1' B16D' 218' =*-)6=.' -1?') .' >1?=/>, ' 2' 6+ 0 .' >- ?*' ?1-*' ;2?6265*6D/*',)62'*+*-% , *.' ?6 'D*' .*/*>,*0'6.' ?6-9 25',)*' D*5 22 25' ? 0^ 0/*' 620'>/1.*' 1 ' 6+ 0 .' 1,)*-8 .*' =-1.=*-1;.'-*' 52' 8)>)'6==*6-',1'D*' 2, ?6,*0' 2',)*' _;*., 12' 1 '460' MK' 6?% LL +' NX' 6',)-**' *6-.' 6? 2*' 6',)-**' `?12,).' / 5),'1-6',)-**'06 .'=*.,/*2>*%J 6% ',)*.*',)*' -.,'M,)*',)-**' *6-.' 6? 2*X 2,-1^ 0;>*.' ;.',1',)*'/6.,'21,>*.'1' 6+ 0 .'-*/6, 12.' 8 ,)' ,)*'1);.*' 1' 6;/% ()*-*')6.'1 ,*2'6- .*2'6'=6 2 ;/ .;.= > 12' 2'/6,*-',?*.'6.',)*-*'.**?.',1')6+*'D**2' 6,',)*', ?*'ML+ ' X',)6,',)*'1-6>/*' 8) >)'56+*'6.',)*' >6;.*' 1',)*' 6? 2*' 6;/ .'?6..6>-*' 1',)*' 4 D*12,*.' ?6 ')6+*'D**2' >122*>,*0' 8 ,)' ,)*' 0*. -*',1'*L, 2^ 5;.)',)*' /67,'-*?6 2.'1',)*' 6//*2' 0 26.,% ;' .;>)' 62' *L=/626, 12' .' 21,' 2**0*0% ()*' ?6..6>-* 86.'=-1D6D/',)*' ?1.,'-*>*2,'26, 126/ >-,2>',)6,'D60' /* ,'62 '0**=' ?=-*.. 12' 620',)*' 8)1/*',*21-'1 ' 6^ + 0 .' >120;>',,186-0.' 6;/ .' 6? / ' .'1 '62' 1==1. ,* 9 20% ,'86.',)*2',)6,')*',119',)*'1==1-.;2 ,'1 '-*^ ?1+ 25',)*'D10 *.'1 ' 6;/ 620'B126,)62',1',)*-.'182' 62>*.,-6/ .*=;/>)-*'6,'U*/6)'MK' 6-6'LL ' X'T 620',' 86.',)*2'1-' .)1-,/ 'D* 1-*',)6,')*'56+*'6'=*-.?62*2,')1?*' 620'-*.,1-*0'6//,)*' =-1=*-, ' 1',)*' 6? / ',1' <*=) D1.)*,)',)*'12/ .;-+ + 25'.12' 1'B126,)62'MK' 6?% L' C NT' LL ' X% ()*' .*+*2' 8)1' =*- .)*0' 8*-*',81'.12.'1 ' 6;/'D ' [=6)'620' +*'5-620.12. ' .12.'1 ' < >)6/620' 0- */MK' 6?% LL ' QX' 6.' .,6,*0' 2',)*'>1? ?12' : *D-*8'620' 4-**9',*L,'620' 2'1;-'-*^ >* +*0'+*-. 12T 620'B1.*=);.' ?65 2*.',)6,',)* '8*-*' D1 72 1')*-'6 ,*-'6' .*>120'0 +1->*')P?' 6+ 0% ;',' .'>*-,6 2' -1?' ' 6?% L+ ' R',)6,' " ' .')*-*' 6' ? .,69*' 1-' ' 8)>)' 26?*' *' & *,,*')6.' 2^ ,-10;>*0' 2,1') .'+*-. 12% ()*0'*.>- =, 12'1',)*'1,)*-' D*-*6+*0' ?1,)*-' [=6)',)*' 06;5),*-' 1' 6)'8)1' ,119')*-'.,6, 12' ;=12',)*'-1>9'620'86,>)*0',)*'D10 *.' 1')*-'.12.'06 '620'2 5),'/*.',)* '.)1;/0'D*' 0*+1;-*0' D' 0*6.,.' 1'=-*7' 1-',1?'D',)*'D -0.' 1',)*' 6 -' .' 0**=/ '6 *>, 25% ,',1;>)*0',)*')*6-,'1' 6+ 0'8)*2' ,)*')*6-0'1' ,% : *' 81;/0' 21,' 6//18' =;D/ >' 0*>*2> ' ,1'D*' 62' ;-,)*-'1 (*20*0',1' .6, . ',)*' -*.*2,?*2,' 1',)*' 4 D*12,*.'D;'0 -*>,*0',)*'D10 *.',1'D*',69*2' 0182'620')121-6D/ '0*=1. ,*0'2',)*' 6? / '.*=;/>)-*% O% ()*' .*>120'5-1;=' 1' 2> 0*2,.'>12,6 2.',)*',-65*^ 0 '1' 6+ 0 .'/ *' 8)>)' 5-*8' 2' 6//,.' =6-,.' 1;,' 1' ,)*'=1/ 56? '8,)' ,.'*+ /*>12.*_;*2>*.' 2,1' 8)>)' ,)*')60'=/;25*0'12'D*>1? 25'9 25% M %X $20*-2*6,)' ,)*'.=/*201-'1')./6.,'5/1-1;.'>6?=6 52'656 2.',)*' ? ?12,*.'86.'6'06-9'.,1-A '92182'=-1D6D/ '6',)6, , ?*'12/ ',1'6'+*- '*8'620'*+*2' 2'/6,*-', ?*.'9*=,' 6.'?;>)'6.'=1.. D/*'1;,'1',)*'+*8'1',)*'=*1=/*'D;,' 218'-*>152 .*0'6.'12*'1',)*'?1.,' 2.,-;>,+*'=1-,12.' 1')./>6-**- '7,)1'01;D/*'>- ?*'1'60;/,*-' 8 ,)' 6,)C ,)*)6%'620'1',)*'+ -,;6/?;-0*-'1'$-6) % % N % ()*'>- ?*.'6-*';201;D,*0/',)1.*'1'6'>1?? 12' - *2^ ,6/0*.=1,% ;',)*' -*D;9*'1' 6,)62',)*' .;00*2' -*+ +6/1',)*'9 25 .'>12.>*2>*').'5- *' 1-',)*' .>9^ 2*..'1',)*'>) /0',D*'56,)*- 25'1'D .';2>/*.'620'*/0*-' D-1,)*-.'6-1;20') ?').'-*,;-2'1 ')1=*'620'=*6>*'6-*')6-6>,*- .,>' 1' 6+ 0'620'1' 6+ 0'12/ % '8*' 600',1',)*.*',)*',81'=.6/?.',)*'NKO'620',)*' ."' 1'8)>)',)*' -.,'D ',.'6>9218/*05*0'2.*-26/*+^ 0*2>*',)*'.*>120'D ',.', ,/*'6/.1'>/6 ?',1'D*/125',1' ,) .'>- .'1' 6+ 0./ *'8*'.)6// **/,)6,',)*'2.,-;>^ ,12'0'I682% -1?',)*' . 2' :6.'?1-*',)62'>1?=*2.6,*0' ,1' ;.'6,'/*6.,'1-',)*' .>6206/1>>6. 12*0'D ',% M *7 *D*/' ' % ' % ' -5*2,% NW% ;,7 ,)1;5)',)*' '-**' .= - ,J'620' '>/*62',)*6-,J'1' 6+ 0' T*,;.-2*0'620'6/,)1;5)',)*'D -,)'1' 1/1?12'86.'6.' *,;.=>1;'6.' '21,)25')60'1>>;--*0',1',-1;D/*',)*' + >,1- 1;.' *., +6/8)>)' .;>>**0*0' ,',)*'>/1;0.' -1?' ,) .',?*'56,)*-*0'1+*-' 6+ 0 .' 1-,;2*.'620')*2>*^ 1-86-0' ,)*' .81-0'2*+*-' 0*=6-,*0' -1?') .')1;.*J' MK' 6?% L ' X% ()*'1;,-65*'12'D .'06;5),*-'(6?6-' ,)*' ? ;-0*-'1')./*/0*.,'.12' ?212'620',)*2',)*'-*^ +1/,'1')'D*.,'D*/1+*0' D.6/1?'D-1;5),'12',)*'>- . .' 8)>)'12>*'?1-*'.*2,')?' 1-,)'6'8620*-*-'6.'2',)*' 06 .'8)*2'D*' /*0' -1?' 6;/'620',) .',)*')*6+*.,' ,)-**' *6-.'?'D;',)*'>12/>,' 2',)*'9 25.' ? 20' .' .-9 25/ '.)182'D ') .' 6//18 25' D.6/1?',1'08*// ,81' ;// *6-.' 2'B*-;.6/*?'D* 1-*')*' 81;/0' .**') .' 6>*% **! MN%X ()*' 2.;--*>,12'1' D.6/1?'656 2.',)*' 9 25' 86.',)*'2*L' ?=1-,62,'*+*2,' 2',)*'>1;-.*'1'8)>)' ,)*-*'+-6.')182',)*'5*2*-6/,*20*2>'1' ?*2',1'/119' 6+1-6D/ '12' 1;25'620' ;2,-*0'=-2>*.'-6,)*-',)62' 12',)1.*'8)1?',)*'9218' 1-'D*,,*-'620' 1-' 81-.*% % KN% D.6/1?'*-*>,*0' .' -1 6/..,6206-0'6,' :*D-12'-.,'62'86.' ;// '=-*=6-*0',1'./6 ') .' 6,)*-' ,)*

2-5*, >' 60+ >*' 1 ') ,)1=)*ƒ)60' D**2' 1//18*0‰ ( )*' -*D*// 12' 86.' 1.,*-*0'6==6-*2,/ 'D ',)*' 5-18 25' A*6/1;. '1 ',)*',- D*' 1 'B;06)'6,'.** 25',)* -' 9 25'6D^ .1-D*0' 2,1',)*' 8)1/*' 26, 12† 620' '6.' 6==*6-.' -_?' K 6?‰ L ' k† LL /'Q ') ,)1=)*ƒ 86.',)*' 5-620 6^ ,)*-' 1 ' 6,).)*D6' ,.' ?6 2' .;==1-,*-' 86.' 12*' 8)1?' 6+ 0')60' =-1+19*0'D ') .'182'>- ?*.‰ ,' 86.' 6==6-*2,/ '*6-/ '12',)*' ?1-2 25'1 ',)*'06 ' 6 ,*-')*)60'-*>* +*0',)*' 2*8.' 1 ',)*'-*D*// 12'6,' : *^ D-12',)6,',)*' 9 25'/* ,',)*>, '1 'B*-;.6/*?'12' 11,‰ : *' 867 6>>1?=62 *0'D '6'+6..'>12>10,.*' 2',)*' ?0.,' 1 ' 8)>)'),)*' 620') .' D10 C5;6-0' 8*-*' >12.=>;1;.‰ ( )* '..6-,*0' -1?'6')1;.*'12',)*'1;,.9 -,.'1',)*'>, ' MK' 6?‰ d ' ' *=,‰'620'*+*- '.,65*'1',)*'?1;-2^ ;ƒ =-1>*..12' 86.' ?6-9*0' D '.1?* 2>0*2,' 8)>)' >6//*0' 1-,)' 6' =-11'1',)*' 0**=' 620'/6., 25'6 *>, 12' 8)>)',)*'9 25.' =*>;/6-')6-6>,*-')60',)*'=18*-'1' 2.=-25' 2'6//8)1'92*8') ?‰ ( )*' -.,'0 ., 2>,')6/,' 86.' D '6'.1/,6-'1/+*C,-**' MK' 6?‰L+' Q' *=,‰',)6,' ?6-9*0' ,)*' -160',1',)*' 8 /0*-2*..' 1 ',)*' B1-062‰ ?125').' 5;6-0'1') /., 2*.' 620').' 6 ,) ;ƒ>1?^ =62 '1 'S ')*' 1D.*-+*0'/,,6 I1'46,)'620'8 ,)',)*' ,-;*' 21D/*2*..' 1 ') .' >)6-6>,*-' *2,-*6,*0',)*') / .^ ,2*' >) *' 21,',1' =*- ƒ) .' 182'1-').' >1;2,- ?*2 .' / +*.' 2' ,)*' .*-+ >*' 1 '6' 6//*2' 620'6' .,-625*-' .1+*-^ * 52‰ ` ;' ,,6 '0*>/6-*0') .'-*.1/;,12'M8 ,)'6' *-+1-' 8)>)'6/?1.,' 2*+ ,6D/ '-*>6//.'6'/9** =-1 *.. 12' ?60* 6/?1.,'12',)*' .6?*' .=1,',1',)*' 5-*6,'0*.>*2062,'1' 6+ 0' >*2,;- *.'6 ,*-86-0.X',1' 1//18') ?' 2' / *' 620' 2'0*6,)‰ ( )* '6//*=6..*0'1+*-',)*'-6+ 2*'1',)*' *C 0-12620'0')*-*' 8)*2' ,' D*>6?*' 6==6-*2,',)6,',)*' 9 25'86.' -*6// 'D*2,'12'0*=6-,;-*'I7,)*' 8)1/*'/620' 8*=,'8 ,)'6'/1;0'+1>*J '7,D*' ?1;2,6 2'620',)*+6//* ƒ7 -*7=;60*0'8 ,)',)*' 86ƒ1',)*'=*1=/*‰ ',) .'=1 2,' ,)* ' 8*-*' 1+*-,69*2' D ',)*',8'=-*..' U6019'620' D 6,)6-'D- 25 25',)*'6-9' -1?' ,.' =/6>*' 12',)*' .6^ >-*0')//',1'6>>1?=62 ' 6+ 0' 2')' /5),' D 6,)6-' ,)*I>/0*-'51 25'1-86-0';=',)*'?1;2,6 2'6.',)*'?;/^ ,,;0*' 0* /*0'=6..',) ?‰ 56 2' 8 ,)'6'.= -.' 81-,)' 1',)*'9 25'8)1'86.'=-1=)*,'6.'8*//6.'=- *.,' 6+ 0' ,2?*0',)*?'D6>9‰ : *')60'21'.;=*-.., 1;.'D*/*' 2' ,)*6-9'6.'6>)6-?†)*')60',11'?;>)'-*+*-*2>*' 1-',1'-09',' 2') .'=*-.126/=*-/‰ 20'218',)*'8)1/* >-180',;-2*0';=',)*'?1;2,6 2'=6,)86A7†6// 86/25' 6//'8 ,)',)*-')*60.'?; /*0'6.',)*'8*2,†',)*'9 25' 12/'0.,25; .)*0' -1?',)*'-*.,'D ').';2.6206//*0' **,‰ ',)*',1='1',)*'?1;2,6 2'>12.*>-6,*0'D '62' 6/,6-'1'81-.)='),)*'8*-*'?*,'D ':;.)6',)*' ->),*' - *20 J'6.')*'86.'1/>6//A7>6//*0'1',)*'9 25‰ ( )*=-*.,/'56-?*2,'8)>)')*'81-*'6,*-',)*'6.)12' 6.' ,'81;/0'.**?'1' 6+ 0.')>)*'1 >*-.'86.',1-2' 620').')*60'86.'.?*6-*0'8,)'0;.,' 2',)*'D,,*-2*..' 1')..'5-*‰ 2')?' 6+ 0'.68†')..' --,' 5/*6?'1')1=*‰ '?1?*2,'D* 1-*',)*', 0 25.')60'>1?*'1',)*' ,-*6.12'1') ,)1=)*/†620',1' -;..-6,*')..'0* 25.';;==-*..*0')6,-*0'1',)*' 6//*2' 6?'1-2' : ;.)6'86.'.*2,'D6>9';.,'72',?*',1'?**,' D..01?' 6-- + 25' -1?' :*D-12‰ .' 86.' 2112' 8)*2'76+ 0' =6..*0'1+*-',)*'?1;2,6 2',1=' 620'218'6.'B*-;.6/*?' 86.'/* ,'D*)20'620',)*'2*8'.>*2*'1=*2*0'D'1-*')?.*/'='2')..'1--18'620' ,81'2*8')6-6>,*-.'6==*6-*0'D1,)'2'>122*>,12'8,)' ,)*)1.,/*,-D*'1' *2A6?2'8)1.*',*--,1-''.)*' 8*-*'*2,*-25‰ 2*' 86.'U D6'.*-+62,'1'<*=)D1C .)*,)'.69 25'60+62,65*'1',)*'>+/'86-',1'?69*')..' 182'1-;2*.‰ ,' 6);-?'6/.1'*+0*2,/'12',)*' 018286-0'=6..'>6?*'1-,)'12*'1',.' 2)6D,62,.')?*' 2'8)1.*';-1;.'>;-.*.'D-19*'1;',)*'/125C .;==-*..*0')6,-*0'1',)*'6//*2'6?/'1' 6;/'6.'8*//=*-)6=.'6.',)*'=1=;/6-' **/25'656 2.',)*'?;-0*-*-' 1'$-6)‰ & ,)'>)6-6>,*-.,>'-*=/*.',1'D1,)'.',)*' 9 25'0*.>*20*0',1',)*'B1-062'+6//*'MK' 6?‰L+' †' 620'>1?=' L+ 'KK†B1.*=)‰& !'+ 'R' X'620',)*-*' -*.,*0'6.,*-',)*'/125'620'*+*2, ;ƒ06'6,',)*'1-0'1-D-05*'I& 8'1',)*- +*-‰ ,'? 02 5),',)*' 8*-*' 6-1;.*0'D ',)*'6-- +6/'1',)*',81'.12.'1',)*') 5)C =-*.,.'620'D 'D-*69'1'06 ',)*') 60'-*6>)*0',)*'1=^ =1.,*'.0*'2'.6 *, ‰ I (1',)*'0682'1',)6,'?1-2 25' .',1'D*'6.>-D*0' .6‰ ' 620'M6>>1-0 25',1' 86/0',)1;5)',) .'.**?.'/*..' >*-,6 2X',1',)*'=-*+ 1;.'*+*2 25' .6‰ +‰ % .6‰ >L/ ' D ',.',,/*' 2',)*' *=,‰' &)*2') .'.12'86.'=;-.; 25') ? J'D*/125.',1',) .', ?*‰ /.1'D '/125'=1=;/6-' D*/*' ',)*'(-62.CB1-062>'*L /*'1' .6‰L/ ')6.'D**2' .;==1.*0',1'D*' 6+ 0'620',)*'>1?=/6 2,.'1' .6‰ +' 620' L L',1'D*/*+*//*0'656 2..'),)1=)*/M_‰+‰'8)1' 12' 20 25') .'60+ >*' 0 .-*56-0*0'>1?? ,,*0' .;>0* 2'6' ,'1'1 *20*0'=- 0*'620'0*.=6 -'M.**' >)86-[' ' '&" %" 21'& ,,*2D‰ X‰ ()*') .,1- '1',)*'-*?6 2 25'=*- 10'1',)*'-*D*// 12' .'>1?=6-6, +*/ 'D- *‰ <6)626 ?' 86.',)*' >6=,6/ 1' 6+ 0.'*L /*'6.',D60'D**2'1',)*'*L /*0')1;.*'1' 6;/'MK' 6?‰L+ 'K†?>1? ‰ 'Q' KX‰ ()-**' 5-*6,' >)*.'1',)6,'=6..1-6/0 .,-->,'6-*'.=*>60*2,12*0' 6.'.;=,X1-,25') ?d12*'1'5-*6,'65*'21,'D* 1-*'26?*0' 6-[//6',)*'4 /*60 ,*†,)*',81'1,)*-.'D1;20',1') ?' " '1-?*-',*.')1D',)*'.12'1' 6+ 0.'62>*2,' -*20' 6D6.)'=-1D6D/A7=;,'D ' 6+ 0' 2') .'D-1,)*-.'=/6>*' ML 'N†L'KX'620'<6>)-',)*'.12'1' ??*/',)*' 1-?*-'=-1,*>,1-'1',)*>) /0'1' 6+ 0 .' -*20'B126^ ,)62'MK' 6?‰L+ 'K†L'X‰ ,-*25,)*2*0'D ',)*' 86-/9*' 6.,*-2',-D*.'620'.;--1;20*0'D ').'*L=*-^ *2>*0'>6=,6 2. I',)*'9 25'21'/125*-')*. ,6,*0',1'?**,' D.6/1?' 2',)*' */0‰ : .' 1->*.' 8*-*' 6--625*0';2^ 0*-',)*',)-**' 5-*6,' ? /,6-E' 1 >*-.' 8)1' -*?6 2*0' 6 ,) ;ƒ,1'.' 2*+ ,6D/'-*>6//.'6'/9** =-1 *.. 12' ?60* 6/?1.,'12',)*'.6?*'.=1,',1',)*'5-*6,'0*.>*2062,'1' 6+ 0'>*2,;-*.'6 ,*-86-0.X',1' 1//18') ?' 2' / *' 620' 2'0*6,)‰ ( )* '6//*=6..*0'1+*-',)*'-6+ 2*'1',)*' *C 0-12620'0')*-*' 8)*2' ,' D*>6?*' 6==6-*2,',)6,',)*' 9 25'86.'-*6// 'D*2,'12'0*=6-,;-*'I7,)*' 8)1/*'/620' 8*=,'8 ,)'6'/1;0'+1>*J '7,D*' ?1;2,6 2'620',)*+6//* ƒ7 -*7=;60*0'8 ,)',)*'86ƒ1',)*'=*1=/*‰ ',) .'=1 2,' ,)* ' 8*-*' 1+*-,69*2' D ',)*',8'=-*..' U6019'620' D 6,)6-'D- 25 25',)*'6-9' -1?' ,.' =/6>*' 12',)*' .6^ >-*0')//',1'6>>1?=62 ' 6+ 0' 2')' /5),' D 6,)6-' ,)*I>/0*-'51 25'1-86-0';=',)*'?1;2,6 2'6.',)*'?;/^ ,,;0*' 0* /*0'=6..',) ?‰ 56 2' 8 ,)'6'.= -.' 81-,)' 1',)*'9 25'8)1'86.'=-1=)*,'6.'8*//6.'=- *.,' 6+ 0' ,2?*0',)*?'D6>9‰ : *')60'21'.;=*-.., 1;.'D*/*' 2' ,)*6-9'6.'6>)6-?†)*')60',11'?;>)'-*+*-*2>*' 1-',1'-09',' 2') .'=*-.126/=*-/‰ 20'218',)*'8)1/* >-180',;-2*0';=',)*'?1;2,6 2'=6,)86A7†6// 86/25' 6//'8 ,)',)*' -')*60.'?; /*0'6.',)*'8*2,†',)*'9 25' 12/'0.,25; .)*0' -1?',)*'-*.,'D ').';2.6206//*0' **,‰ ',)*',1='1',)*'?1;2,6 2'>12.*>-6,*0'D '62' 6/,6-'1'81-.)='),)*'8*-*'?*,'D ':;.)6',)*' ->),*' - *20 J'6.')*'86.'1/>6//A7>6//*0'1',)*'9 25‰ ( )*=-*.,/'56-?*2,'8)>)')*'81-*'6,*-',)*'6.)12' 6.' ,'81;/0'.**?'1' 6+ 0.')>)*'1 >*-.'86.',1-2' 620').')*60'86.'.?*6-*0'8,)'0;.,' 2',)*'D,,*-2*..' 1').'5-*‰ 2')?' 6+ 0'.68†')..' --,' 5/*6?'1')1=*‰ '?1?*2,'D* 1-*',)*', 0 25.')60'>1?*'1',)*' ,-*6.12'1') ,)1=)*/†620',1' -;..-6,*')..'0* 25.';;==-*..*0')6,-*0'1',)*'6//*2'6?'1-2' : ;.)6'86.'.*2,'D6>9';.,'72',?*',1'?**,' D..01?' 6-- + 25' -1?' :*D-12‰ .' 86.' 2112' 8)*2'76+ 0' =6..*0'1+*-',)*'?1;2,6 2',1=' 620'218'6.'B*-;.6/*?' 86.'/* ,'D*)20'620',)*'2*8'.>*2*'1=*2*0'D'1-*')?.*/'='2')..'1--18'620' ,81'2*8')6-6>,*-.'6==*6-*0'D1,)'2'>122*>,12'8,)' ,)*)1.,/*,-D*'1' *2A6?2'8)1.*',*--,1-''.)*' 8*-*'*2,*-25‰ 2*' 86.'U D6'.*-+62,'1'<*=)D1C .)*,)'.69 25'60+62,65*'1',)*'>+/'86-',1'?69*')..' 182'1-;2*.‰ ,' 6);-?'6/.1'*+0*2,/'12',)*' 018286-0'=6..'>6?*'1-,)'12*'1',.' 2)6D,62,.') ?*' 2'8)1.*';-1;.'>;-.*.'D-19*'1;',)*'/125C .;==-*..*0')6,-*0'1',)*'6//*2'6?/'1' 6;/'6.'8*//=*-)6=.'6.',)*'=1=;/6-' **/25'656 2.',)*'?;-0*-*-' 1'$-6)‰ & ,)'>)6-6>,*-.,>'-*=/*.',1'D1,)'.',)*' 9 25'0*.>*20*0',1',)*'B1-062'+6//*'MK' 6?‰L+ 'K†?>1? ‰ 'Q' KX‰ ()

.,*-.' ,1' 6+ 0' D ' 6,' /*6 .,' 12*' =6-*2,' MK' 6?%L+ ' K T' ')-12% ' N' SX% ( )*' ;2.>-;=:/1;.' B16D')18*+*-' 86.' 21,' .1' ,1' D*' .*,' 6. 0*% * 1-*' /125' >6,>) 25' 62' 1==1-.;2 , ')*' 6..6.. 26,*0') .' ;2.;.^ =*>, 25' >1;. 2' 8 ,)') .' 182')620T 620' 6+ 0 ' 8)1')60' ;.*0',)*' 2.,-;?*2,6/ , '1 'B16D',1' ?;-0*-'$- 6) ' 0 0' 21,' 06-*',1'-*.*2',,)*'0**0' MK' 6?%.L ' C KX% ()*' -*,;-2' 86.' ?6-9*0' 6,'*+*- '.,65*' D '-*A1 > 25' 620' 6?2*.,' D ?*' 1-5 +*2' <*=) D1.)*,)'=6-, 6/^ /'-* 2..6,*0' 6-[6//6'-*86-0*0' D ',)*' 5 ,.'/125'-*^ ?*?D*-*0',1') .' .12') ?)6?'MK' 6?%L L' SC T' 25.' ' X% B;06)' 86.' -.,' -*>12> /*0% ()*' *?^ D*-.' 1',)*' 2.;--*>, 12' ., // .?1;/0*- 25'MK' 6?%L L' C NX' 2' 6+ 0 .')-*0 ,6- '*2*? *.' 1 ',)*' ,- D*' 1' *2A6? 2' 8*-*' ,-6?=/*0' 1;,' D ',)*' ? L,;-*' 1 'D1/0^ 2*..' 620' .656> , ' 2' B16D' 218' 6 ,*-',)*' ? ;-0*-' 1' ?6.6' 12>*' ?1-*' 2') .' 1/0' =1. , 12% 6+ 0' 656 2' -* 52*0' 2' ;20 .,;-D*0'=*6>*' 6,'B*-;.6/*?' MK' 6?%LL' 5 ' M %X' '_;6--*/')18*+*-' 8) >)',119' =/6>*' D*,8**2' ',)*' ?*2' 1' B;06)' 620' ,)1.*' 1',)*' 1,)*-',-D*.' 2' D- 25 25',)*' 9 25' D6>9')60' *2>1;-65*0' 6' *2A6? ,*' 26?*0')*D6',1'-6 .*' 6'2*8' 2.2--*>, 12' 8) >)'.=-*60' 8 ,)'8120*- ;/-6=0 , ' II +*-EIC?62' 1' .-6*/ J'6-*' ,)*'..-125' 81-0.'1',)*',*L,' 8*2,';=' -1?'6 ,*-' 6^ +0'620' 1//18*0')*D6',)*'.12' ' >)- J'6'?62'1' 8)1?' 21,) 25' D*. 0*.' .' 9218 2% ()./ .,-9 25/' .)18.',)6,',)*' /6,*-' ;2=6,-1, >' *6,;-*.' 1' 6+0./ -* ;')60',1'6'5-*6,'0*5-**' *L)6;.,*0',)*' *2,);.6.?' 12>*' 9 20/*0'D ') .' 0*+1, 12' 620' >) +6/-E77 620',)6,') .',)-12*' 218' -*.,*0'-6,)*-'12',)*'-1,,*2' 1;206, 12' 1' ?*-*' ? /,6- '.;=*- 1-, ' ?6.6' 86.' >1//*>, 25' ,-11=.' 6.' 6+0./ 5*2*-6/6,',)*', ?*' 8)*2')*' 86.' ,-*6>)*-1;./ '6..6.. 26,*0'D ') .' >1;. 2' 8)1',)*2' 8 ,)').' ;.;6/*2*-5 '=;-.;*0')*D6' 620' D/1>960*0') ?' 2' *,)C?66>)6)' D* 1-*')*' >1;/0' >11//*>,') .'=6-^ ,.62.%)*D6.')*60' 86.'>;,'1/'620',)-182' 1+*-',)*' 86//1' 620'.1'*20*0',)*' 2*8'- .25'MK' 6?%LL' CKKX%' *,'),) .' 86.' 21,',)*' *20' 1',-1;D/*' 1-',)*' 2.*.,2*' 86-' .**?.',1')6+*' 2.=-*0',)*') /., 2*.' 8 ,)',)*')1=*' 1',)-18 25' 1',)*' 19*% 1;-' .;>>*.. +*' D6,^ ,/*.' 6-*' -*>1-0*0' MK' 6?%LL' CKKX' 2' ,)*' -.,' 1B! 8)>)' ,/*' 65*0' 6+0' 86.' 2 5)' *D6' 620' D/1>960*0') ?' 2' *,)C?66>)6)' D* 1-*')*' >1;/0' >11//*>,') .'=6-^ ,.62.%)*D6.')*60' 86.'>;,'1/'620',)-182' 1+*-',)*' 86//1' 620'.1'*20*0',)*' 2*8'- .25'MK' 6?%LL' CKKX%' *,'),) .' 86.' 21,',)*' *20' 1',-1;D/*' 1-',)*' 2.*.,2*' 86-' .**?.',1')6+*' 2.=-*0',)*') /., 2*.' 8 ,)',)*')1=*' 1',)-18 25' 1',)*' 19*% 1;-' .;>>*.. +*' D6,^ ,/*.' 6-*' -*>1-0*0' MK' 6?%LL' CKKX' 2' ,)*' -.,' 1B! 8)>)' ,/*' 65*0' 6+0' 86.' 2 5)' *D6' 620' D/1>960*0') ?' 2' *,)C?66>)6)' D* 1-*')*' >1;/0' >11//*>,') .'=6-^ ,.62.%)*D6.')*60' 86.'>;,'1/'620',)-182' 1+*-',)*' 86//1' 620'.1'*20*0',)*' 2*8'- .25'

*0' 1 ;,' 2' ,) *' /6,* .,', ? *.' 1 ',) *' B* 8 .)' =*1=/*% : .' .*=;/>)-*' .' 8 ,)' ;.' ;2,1', =.' 06Λ J' .6 .' *,*-' 6,' *2^ ,*>1.,'M >,.' 'KRXT' 620' B1.*=) ; ,' I1& !+ X' 'QT' L ' Q' ' ' L+ ' X' .,6,*.' ,) 6,' 71/1?1 ') 6+ 25' D ;- *0' 6 +6.,', -*6.;-*' 2' ,) *' ,1?D ' 12*' 1 ' ,.' >)6?D*-.' 86.' D-19*)' 1=*2I'D ' : A2762 ; . ' 620' 621,) *-' D ' : *-10' ,) *' 4-*6,% ,' .' .6 0',1') 6 *' 6//*2' 2,1'-; 2' 2' ,) *', ?*' 1 ' : 60- 62'M 1' 6.. ; .' L L ' 7X% 2' B*-1?*.',', ?*' 6',1?D' >6//*0' 86.' ,) *' 1DA*>,' 1 ' = /5- ?65*' >6%!' !' & ' SX' D ;,' 6==6-*2,/ ' 2' ,) *' 2* 5DD1-C I)110' 1 ' *,)/*) *?% ()*' *0 >*' .)1 2' 6.' .;>)' -1?' ,) *' -; .60*.',1',) *' =-*.*2,'06 ' .'12',) *' .1 ;,) *-2') // 1 ' ?10*?' B*-; .6/*? '>1?? 12/ ' >6//*0' <1;2,' U 12' ;20*-',) *' .1C>6//>0' 1*26>;/; ?%I ' 1-',) *' 0*.>- =^ , 12' 1 ',' .** 6->/6 .' ' '" ' ? ') 1'=% K R% 1-' ,) *', -60 , 12.' >12>*-2 25' ,' .*** & // 6?. .' # ' 1' ' RC N' ()*' .1C>6//*0' ,1?D.' 1 ',) *' 9 25. J')6+*' 1 '/6,*' D**2' >/6 ?*0'7 ',) *'-1 6/ .*=;/>)-*' D ' 1' 6;/> 'M ' SKCK SX' 8) 1' D-1;5),',1',) *' 1;+-*' M 8) *-*' ,' ?6E' D*' .**2X' 8) 6,') *' D*/ *+*'0',1' D*' ,) *' / 0' 1 ' 6^ + 0 .' .6->1=)65;.% ;',) *.*' ,1?D.' 6-*' ',) *' 86//.' 620',) *-* 1-*' >6221,' D*' 0*2,) *0' 8 ,)',) *',1?D' 1 ' 6+ 0' 8) >)' 86.' *?=)6, >6// ' " ',) *' 86//.' M.**' 1D 2.12' ' =% K K' 21,*X% (/ *' " '1 ' 6+ 0') 6.' D**2' .1'26,;-6// 'D-1;5),' 1;' 2',) *' 2> 0*2,.' 1 ') .'/ *',) 6,' ,' 2**0' 21,' D*') *-*' 0*.>- D*0' 2' 0*,6 / M.**' *?* *-' " + !' + ' K ' ._%h % 2',) *' >1?=/*L , ' 1 ',.' */*?*2,.' =6.. 12',*2^ 0*-2*.. ' 5*2*-1. , ' *->*2*.. ' ,) *' .1/0 *-',) *' .)*=^)*-0',) *' =1*,' ,) *' .,6,*.?62',) *' =- *.,' ,) *' =-1=) *,' ,) *' 9 25 ',) *' -1?62, >' - *20',) *' >) +6/-1;./*60*-*' ,) *' 0*+1,*0' 6,)*- ',) *-*' .' 21' >)6-6>,*-' 1',) *' % (% 6,' 6// ,1' D*' >1?=6-*0',1' ,% B6>1D' >1?*.' 2*6-*.,' 2' ,A 1' +6- *, ' 1 '*/*?*2,.' 2>/;0*0' 8 ,) 2' ,% ;,' 6^ + 0 .' >)6>,*-' .,620.' 6,'6') 5)*-' =1 2,' 1 ',) *' .6>-*0') .,1- ' 620' -*=-*.*2,.',) 1' B*8 .)' =Z71=/*A;.,' 6,',) *' ?1?*2,' 1 ',) *-',-62. , 12' -1?',) *' /1 , ' + -,;*.' 1 ' ,) I*1/0*-' .,*?',1',) *' ;//*-' > + / [6, 12' 620' >;/, +6^ , 12' 1 ',) *' /6,*-% 2',) .' ?622*-') *' D*>1?*.' 26,;'^ -6// ' '12*' ?6E7 .6 ' .1',) *' / 9*2*..' 1-'=1-,-6 ,' 1',) *' /6.,' 620' 5-620*.,' 0*+*/1=?*2,' 1 ',) *' 26, 12' 620' 1 ',) *' ?126->) ' 2',) *' =*-.12' 620',) *' =*- 10' 1 ',) *' <*.^ . 6) % 2' 6'.*2.*' ?1-*',) 62' 5;-6, +*') 1' .',) *',E=*' 620' =-1=) *> ' 1 ' B*.;.')- .,%)-.,' .' 21,' >6//*0' ,) *' .12' 1 ' D-6) 6?' 1-' 1 ' B6>1D' 1-' 1 ' <1.*.' D ;,') *' 86.',-;/ ' I',) *' .12' 1 ' 6+ 0% I (1') .' 182' =*1=/*') .' 86.',) *' 26?*' ?1.,' 0*6-/ ' >)*-.) *0' 6 ,*-',) *-' -.,' 62>*.,1-' D-6) 6?% J' ()*' >, '1 ' 6+ 0 J' ',) *') 1;.*' 1 ' 6+ 0 J' ',) *',) -12*' 1 ' 6+ 0 J' I',) *' .**0' 1 ' 6+ 0 J' ,) 1' 16,)' .81-2' ;2,1' 6+ 0 J'M,) *' =/*05*' 1 ',) *' >12, 2;62>*' 1 ') .' 0 26., X' 6-*' *L=-*.. 12.' 8) >)' =*-+60*' ,) *' 8) 1/*' 1 ',) *' /0' (*.,6?*2,' 620' 6//',) *' 5;-6, +*'/625;65*' 1 ',) *' *8 ' 620',) *' .*-+*',1' ?6-9',) *' /6., 25'. 52 >62>*' 1 ') .' 6==*6-62>*' 2') ,.1- % : .' .6/?.' M8) *,) *-',) 1.*' 6>, ;6// ' 8-.,*2'D ') ?C I .*/ ' D*' ?62 ' 1-' *8X') 6+*' D**2',) *' .1;->*' S ' >12.1/6^ , 12' 620' 2.-;>, 12' D* 120' 62 ' 1.) *-' =6-,' 1 ',) *' : *^ D-*8' >-=;,-*.% 2',) *?' 6==*6-'_ ;6/ , *.' 1 ' ? 20' 620' -*/ 5 1;' =*->*=, 12.' 21,' D* 1-*' *L=-*..*0' 2',) *' .6>-*0' 8-, 25.' D ;,' *? 2*2,/ ' >)6-6>,*- .,>' 1 ' 6+ 0' ',) *' /1+*' 1 '26,;-*',) *' .*2.*' 1 '. 2' 620',) *',*20*-' 6-0*2,',-;..' 2' 720' >1?? ;2 12' 8 ,) ' 410% 1' 1.) *-' =6-,' 1 ',) *' /0' (*.,6?*2,' >1?*.' .1' 2*6-',1',) *' .= - ' 1 ',) *' *8% ()*' .6/?.' 6-*',) *' 12/ ' *L=-*.. 12.' 1' 0*+1, 12' 8) >)') 6+*' D**2' *_;6// ' ;.*0',) -1;5)' ,) *' 8) 1/*')- .,62') ;->) ' DA.. 2 62' 4-**9' 6, 2' ;- ,62' 25/ >62% I ()*' 0 >;/,*.',) 6,' 6,,*20') .' >) 6-6>,*-' 6-*' +6/;6^ D/*' 6.' =-11 .' 1',) *' ?=6-, 6/ , '1' >-=,;-*' 2'-*>1-0^ 25',) *?' 620' 6.' 20 >6, 12.' 1',) *' ;2 12' 1 '26,;-6/ =18*-' 620' 8*692*..' 8) >)') >) 6-6>,*-' 2>/;0*0% ()*' 6DD.' 2' 1-?*-',?*.' 620' >-, >.' W/ 9*' 6 /*X 2' /6,*-',?*.') 6+*' .* [*0' 12' ,.' 06-9' *6,;-*.' 620' *L655*-6,*0',) *?',1',) *' ;,?1.,% ,') 6.' 1 ,*2' D**2' 6.9*0' D1,) ' D ' .>1 *-' 620',) *' .*- 1;.') 18',) *' ?62' 6 ,*-' 410.' 182') *6-,' >1;/0') 6+*' ?;-0*-*0' $-6) 620' .*0;>*0' 6,) .) *) 6' 620',1-,;-*0',) *' ?? 12 ,*.' ,1' 0*6,) 'H 2' *L,-6>,' -1?' 12*' 8) 1' .' 21,' 6',11C 2C 0;/5*2,' >-, >' 1' .6>-*0' >) 6-6>,*-.' *L=-*..*.' 6,' 12>*' ,) *' >1?? 12' .*2.*' 620',) *' -*/ 5 1;.'/*..12' 1',) *' 8) 1/*' ?6,,*-% &) 1' .' >6//*0' ,) *' ?62' 6 ,*-' 410.' 182') *6-,H' 6+ 0',) *' :*D-*8' 9 25') 60' 6//*2' 2,1'. 2.' *21;5) ' D/6>9*.,' >-?*. ',) *-*' 86.' 21' 862,' 1' . 2% 20',) *-* 1-*',) *' ;2D*/ *+*-.' .2**-' 620' 6.9' ' .I,) .' 1;-' ?62' 6>>1-0 25',1' 410.') *6-,H' ()*' .2**-' ' ? ;.,' Q&EW.**?.',1' ?*' D ;,' 6'.) 6//18' 12*% &) 6,' 6-*' 6;/,.' 8) 6,' 6-*' ,) *' 1 ;,86-0' 0*,6 /.' 1' 6' / *' ',) 1' 22*-'..*>-*,' 1 ' , ',) *' -*?1-.*',*?=,6, 12. ',) 1' 1 ,*2' D6 /*0' 2*+*-' *20*0' .,-;55/*' 1 ' ,' D*' 1-51,,*2'H % % % 6+ 0 ./ *' 620') .,1- ' 6.' 8-,,*2' 1-' 7;.' 2',) 1.*' 6/?.' 1 ') .' '>12. 0*-',1' D*' ,) *',-;*.,'*?D/*?' *+*-' 5 +*2' ;.' 1 '6' ?62 .' ?1-6/ =-15-*..' 620' 86-6-*') *-*' D*/18% // *6-2*.,' .1;/.' 8 // *+*-' 0 .>*-2' 2' ,',) *' 6 ,) ;/ .,-;55/*' 1 '62' *6-2*.,') ;?62' .1;/ ,1806-0.' 8) 6,' .' 5110' 620' D*..% ,-;55/*' 1 ,*2' D6 /*0 ' .1-*' D6 /*0 ' 0-+*2' 6.' 2,1' *2,-*' 8 -*>9T *,' 6' .,-;55/*' 2*+*-' *20*0' *,*-' 8 ,)' ,*6-.' -*=*2,62>*',-;*' ;2>120F _;*-6D/*' =;-=1.*' D*5;2' 62*8J' M 6-/ /*.' # ' # = "%1' =% KX% **' 5*2*-6// ' : 6+*->6?=' ' ' ' ' ' M % % N XT' *?* *-' N " ' " ' ' " !' " ' M : 6/' RXT' 86/0' " ' ' !' M4*-6' R XT' : 6;^ .*-' ' '6 2' ' !' M(;D% Q XT' : 1.?622' # !' X !' $ ' ' ' !' M /% KXT' *;*-/* 2' 2 ' ' ' * % !' ' 2 'M /,% XT' *8^ ,12' ' " ") ' ' ' 'M *20% Q XT')*=)*-0' + ' ' ' ' ' 'M 120% Q QXT' % % % % 1" !" ' ' ; " " ' M QS XT' : 6. *' =' "' ' 'MB*2% Q XT' <*,[5*-' ' ' ' ' ! ' ' ' ' 'M ;5.D% SXT' *-=/ ;.' 9 ' ' ' M+1/% L' 1 ') .' ' *=.>' QXT' -;?? 6>)*-' ' " ') 3 '\ -1?',) *' 4*-?%H' M OC' 2D% QS ' '<!' QSQX% **+ ! % ' + % ' ()*' : 1;.*' 1 ' 6+ 0J' M .6% + 'K' NT' B*-% LL ' KT' U*>)% L ' X' .52 *.') .' 6?/ ' =1.,*-, % ' 2' 6+ 0 J',) 6,' .' 2',) *' ; +' '' ' ,) *' .6/?.' M<6,,' LL ' KC T' : *D% +' T' .6% L>+' X% ()*' 26?*' ' ' 2' [*9% LLL +' KN' K T' LLL+ 'K T' : 1.% ' '0*21,*.',) *' M 120% Q QXT' <*.. 6) % 2' 6'.*2.*' ?1-*',) 62' 5;-6, +*') 1' .',) *',E=*' 620' =-1=) *> ' 1 ' B*.;.')- .,%)-.,' .' 21,' >6//*0' ,) *' .12' 1 ' D-6) 6?' 1-' 1 ' B6>1D' 1-' 1 ' <1.*.' D ;,') *' 86.',-;/ ' I',) *' .12' 1 ' 6+ 0% I (1') .' 182' =*1=/*') .' 86.',) *' 26?*' ?1.,' 0*6-/ ' >)*-.) *0' 6 ,*-',) *-' -.,' 62>*.,1-' D-6) 6?% J' ()*' >, '1 ' 6+ 0 J' ',) *') 1;.*' 1 ' 6+ 0 J' ',) *',) -12*' 1 ' 6+ 0 J' I',) *' .**0' 1 ' 6+ 0 J' ,) 1' 16,)' .81-2' ;2,1' 6+ 0 J' M,) *' =/*05*' 1 ',) *' >12, 2;62>*' 1 ') .' 0 26., X' 6-*' *L=-*.. 12.' 8) >)' =*-+60*' ,) *' 8) 1/*' 1 ',) *' /0' (*.,6?*2,' 620' 6//',) *' 5;-6, +*'/625;65*' 1 ',) *' *8 ' 620',) *' .*-+*',1' ?6-9',) *' /6., 25'. 52 >62>*' 1 ') .' 6==*6-62>*' 2') ,.1- % : .' .6/?.' M8) *,) *-',) 1.*' 6>, ;6// ' 8-.,*2'D ') ?C I .*/ ' D*' ?62 ' 1-' *8X') 6+*' D**2',) *' .1;->*' S ' >12.1/6^ , 12' 620' 2.-;>, 12' D* 120' 62 ' 1.) *-' =6-,' 1 ',) *' : *^ D-*8' >-=;,-*.% 2',) *?' 6==*6-'_ ;6/ , *.' 1 ' ? 20' 620' -*/ 5 1;' =*->*=, 12.' 21,' D* 1-*' *L=-*..*0' 2',) *' .6>-*0' 8-, 25.' D ;,' *? 2*2,/ ' >)6-6>,*- .,>' 1 ' 6+ 0' ',) *' /1+*' 1 '26,;-*',) *' .*2.*' 1 '. 2' 620',) *',*20*-' 6-0*2,',-;..' 2' 720' >1?? ;2 12' 8 ,) ' 410% 1' 1.) *-' =6-,' 1 ',) *' /0' (*.,6?*2,' >1?*.' .1' 2*6-',1',) *' .= - ' 1 ',) *' *8% ()*' .6/?.' 6-*',) *' 12/ ' *L=-*.. 12.' 1' 0*+1, 12' 8) >)') 6+*' D**2' *_;6// ' ;.*0',) -1;5)' ,) *' 8) 1/*')- .,62') ;->) ' DA.. 2 62' 4-**9' 6, 2' ;- ,62' 25/ >62% I ()*' 0 >;/,*.',) 6,' 6,,*20') .' >) 6-6>,*-' 6-*' +6/;6^ D/*' 6.' =-11 .' 1',) *' ?=6-, 6/ , '1' >-=,;-*' 2'-*>1-0^ 25',) *?' 620' 6.' 20 >6, 12.' 1',) *' ;2 12' 1 '26,;-6/ =18*-' 620' 8*692*..' 8) >)') >) 6-6>,*-' 2>/;0*0% ()*' 6DD.' 2' 1-?*-',?*.' 620' >-, >.' W/ 9*' 6 /*X 2' /6,*-',?*.') 6+*' .* [*0' 12' ,.' 06-9' *6,;-*.' 620' *L655*-6,*0',) *?',1',) *' ;,?1.,% ,') 6.' 1 ,*2' D**2' 6.9*0' D1,) ' D ' .>1 *-' 620',) *' .*- 1;.') 18',) *' ?62' 6 ,*-' 410.' 182') *6-,' >1;/0') 6+*' ?;-0*-*0' $-6) 620' .*0;>*0' 6,) .) *) 6' 620',1-,;-*0',) *' ?? 12 ,*.' ,1' 0*6,) 'H 2' *L,-6>,' -1?' 12*' 8) 1' .' 21,' 6',11C 2C 0;/5*2,' >-, >' 1' .6>-*0' >) 6-6>,*-.' *L=-*..*.' 6,' 12>*' ,) *' >1?? 12' .*2.*' 620',) *' -*/ 5 1;.'/*..12' 1',) *' 8) 1/*' ?6,,*-% &) 1' .' >6//*0' ,) *' ?62' 6 ,*-' 410.' 182') *6-,H' 6+ 0',) *' :*D-*8' 9 25') 60' 6//*2' 2,1'. 2.' *21;5) ' D/6>9*.,' >-?*. ',) *-*' 86.' 21' 862,' 1' . 2% 20',) *-* 1-*',) *' ;2D*/ *+*-.' .2**-' 620' 6.9' ' .I,) .' 1;-' ?62' 6>>1-0 25',1' 410.') *6-,H' ()*' .2**-' ' ? ;.,' Q&EW.**?.',1' ?*' D ;,' 6'.) 6//18' 12*% &) 6,' 6-*' 6;/,.' 8) 6,' 6-*' ,) *' 1 ;,86-0' 0*,6 /.' 1' 6' / *' ',) 1' 22*-'..*>-*,' 1 ' , ',) *' -*?1-.*',*?=,6, 12. ',) 1' 1 ,*2' D6 /*0' 2*+*-' *20*0' .,-;55/*' 1 ' ,' D*' 1-51,,*2'H % % % 6+ 0 ./ *' 620') .,1- ' 6.' 8-,,*2' 1-' 7;.' 2',) 1.*' 6/?.' 1 ') .' '>12. 0*-',1' D*' ,) *',-;*.,'*?D/*?' *+*-' 5 +*2' ;.' 1 '6' ?62 .' ?1-6/ =-15-*..' 620' 86-6-*') *-*' D*/18% // *6-2*.,' .1;/.' 8 // *+*-' 0 .>*-2' 2' ,',) *' 6 ,) ;/ .,-;55/*' 1 '62' *6-2*.,') ;?62' .1;/ ,1806-0.' 8) 6,' .' 5110' 620' D*..% ,-;55/*' 1 ,*2' D6 /*0 ' .1-*' D6 /*0 ' 0-+*2' 6.' 2,1' *2,-*' 8 -*>9T *,' 6' .,-;55/*' 2*+*-' *20*0' *,*-' 8 ,)' ,*6-.' -*=*2,62>*',-;*' ;2>120F _;*-6D/*' =;-=1.*' D*5;2' 62*8J' M 6-/ /*.' # ' # = "%1' =% KX% **' 5*2*-6// ' : 6+*->6?=' ' ' ' ' ' M % % N XT' *?* *-' N " ' " ' ' " !' " ' M : 6/' RXT' 86/0' " ' ' !' M4*-6' R XT' : 6;^ .*-' ' '6 2' ' !' M(;D% Q XT' : 1.?622' # !' X !' $ ' ' ' !' M /% KXT' *;*-/* 2' 2 ' ' ' * % !' ' 2 'M /,% XT' *8^ ,12' ' " ") ' ' ' 'M *20% Q XT')*=)*-0' + ' ' ' ' ' 'M 120% Q QXT' % % % % 1" !" ' ' ; " " ' M QS XT' : 6. *' =' "' ' 'MB*2% Q XT' <*,[5*-' ' ' ' ' ! ' ' ' ' 'M ;5.D% SXT' *-=/ ;.' 9 ' ' ' M+1/% L' 1 ') .' ' *=.>' QXT' -;?? 6>)*-' ' " ') 3 '\ -1?',) *' 4*-?%H' M OC' 2D% QS ' '<!' QSQX% **+ ! % ' + % ' ()*' : 1;.*' 1 ' 6+ 0J' M .6% + 'K' NT' B*-% LL ' KT' U*>)% L ' X' .52 *.') .' 6?/ ' =1.,*-, % ' 2' 6+ 0 J',) 6,' .' 2',) *' ; +' '' ' ,) *' .6/?.' M<6,,' LL ' KC T' : *D% +' T' .6% L>+' X% ()*' 26?*' ' ' 2' [*9% LLL +' KN' K T' LLL+ 'K T' : 1.% ' '0*21,*.',) *' M 120% Q QXT' <*.. 6) % 2' 6'.*2.*' ?1-*',) 62' 5;-6, +*') 1' .',) *',E=*' 620' =-1=) *> ' 1 ' B*.;.')- .,%)-.,' .' 21,' >6//*0' ,) *' .12' 1 ' D-6) 6?' 1-' 1 ' B6>1D' 1-' 1 ' <1.*.' D ;,') *' 86.',-;/ ' I',) *' .12' 1 ' 6+ 0% I (1') .' 182' =*1=/*') .' 86.',) *' 26?*' ?1.,' 0*6-/ ' >)*-.) *0' 6 ,*-',) *-' -.,' 62>*.,1-' D-6) 6?% J' ()*' >, '1 ' 6+ 0 J' ',) *') 1;.*' 1 ' 6+ 0 J' ',) *',) -12*' 1 ' 6+ 0 J' I',) *' .**0' 1 ' 6+ 0 J' ,) 1' 16,)' .81-2' ;2,1' 6+ 0 J' M,) *' =/*05*' 1 ',) *' >12, 2;62>*' 1 ') .' 0 26., X' 6-*' *L=-*.. 12.' 8) >)' =*-+60*' ,) *' 8) 1/*' 1 ',) *' /0' (*.,6?*2,' 620' 6//',) *' 5;-6, +*'/625;65*' 1 ',) *' *8 ' 620',) *' .*-+*',1' ?6-9',) *' /6., 25'. 52 >62>*' 1 ') .' 6==*6-62>*' 2') ,.1- %

( ) .' 86.' 6+ 0 .' D -,)=/6>*' 620' ,)*')1?*' 1 ') .' 1 ;,)% & *' 9218' 21,' 6,' 8)6,' , ?*' ,)*' / ,,/*' ?1;2^ ,6 2' + //65*' D*562' ,1' D*' >6//*0' D ') .' 26 ? *1' D ; ,' ,)-*' .' 21' ,-6>*' 1 ' . ;>)' 6' 0*. 526, 12' 2' ,) *' % (% ,' 6==*6-. ')18*+*-' ,1')6+*' D**2' =-*,, ' 5*2*-6// ' ; . *0' 2' ,)*1' , ?*' 1 '1 ;-' 1-0% ' ,,1 '.% +% **' 8 ' 4 : N %

6+ 0 '1-' *8 0 ' '=6,-1-' .6 2,'1 '& 6/*. '86. ' 6>>1-0 25',1',-60 , 12 ',)*' .12'1 ',)*'=- 2>*' 1 ' *-*,' >6' M 6-0 562.) D*X ' 620' 86.' D1-2' 6D1 ;' ,)*' *20I'1 ',)*' ,)'1-' D*5 22 25'1 ',)*' S,)'>>2,; % :'6+ 25'-*.1/+*0' 12' 6'-*/ 5 1 ;.' / * ')*' .=*2,'6.' 86.' >;.,1?6- ' 2',)1.*' 06 .' 6'=-1D6, 126- '=*- 10' 2' .1/ ,;0*' 6 ,*-' 8) >)') *' >1? ?*2>*0' =-*6>) 25',1') .' >1;2,- ?*2% : *' D ; /,' 6' >)6=*/ 6,' 4/6.,12D ;-E ' 620' 1 ;20*0' ,8*/+*' ?126.^ ,*- *. ',)*' >) * '1 ' 8) >)' 86.' 6,' < *2*+ 6 2',)*' +6/*' 1 ' 1.. ' ,' ,)*' . 210' 1 ' -*+ ' 2' 6-0 562.) -*') */0' 2' R' 6+ 0' .)18*0') ? .*/ '6' .,-125'1==12*2,' 1 ',)*' *65 62')*-*. % ;D.*, ;*2,/ ')*' D*>6?*' 6->)D .)1=' 1 ' 6*-/*12C;=12C$ .9 ¯D ; ',-62. *--*0') .' .*' ,1' <*2*+ 6'218' >6//*0' ,% 6+ 0 . ' 8)*-*')*' 0 *0' 6D1 ;' ,)*' *6-' S N' : .' / *' 86.' 8- ,,*2' D ' >*C ?6->) ' D .)1=' 1 ' ,' 6+ 0 . ' 8)1' 0 *0' 6D1 ,' ,)*' *6-' RR% ()*' # '$!' ' 'D ' 4 -6/0; .' 6?D-*2C . . ' 7-- ,,*2' 6D1 ;,' ' 620' =;D/ .)*0' 2' &)6-,12 .' & ' $ 1' .' / ,,/*' ?1-*' ,)62' 62' 6D- 05?*2,' 1 ' >*?6->) .' 81-9% ' ')6?D*-.' 6 % 1' .% + %' ;,/*-' ' '$ ' <6->)' %

6+ 0 ' ' '12*' 1 ',)*' 1;20*-.' 1 ' : *-'?C) ; ,' 86.' D1-2' *>% N SR ' 6,' *2 ,/*D*2 ' <1-6+ 6 ' 620' 86.' D-*0' 6' >6-=*2,*-% 2' *6-/ ' ?62)110')*' D*^ >6?*' 6' -1,*.,62,% 2' KK')*' 86.' .*2,',1' 20' 6')1?*' 1-' ,* =*-.*>;,*0' <1-6+ 62.' 620' .*>;-*0' 12*' -1?' 1;2,' U 2[*201- ' 6,' *-,)1/0.01- ' ;.6, 6% **' ! &)*2' ,)*' >);->)' 86.' 1-562 [*0' 6,' : *-?) ;',%,)*-'2*8' 6D10*X' 6+ 0' 86.' */*>,*0' -.,' 1',)*',8*/+*'*/0*-.% : .' .;D.*_;*2,'/ *' 86.' *2,-*/ ' 0*+1,*0',1' ? .. 126- '620')- ., 62'/6D1-.% 2' NN)*' /*0',)*' -.,' <1-6+ 62' ? .. 12',1' 4-**2/620% 2' NQ & *./* ')60' .*+*-6/ 2,*-+ *8.' 8 ,)' 6+ 0' 6, : *-?) ;,% ()*' 6 ,*-' /6D1-.' 1 ' 6+ 0' 2>/;0*0',81' 600 , 126/ + . ,.',1' 4-**2/620 '620' */*+*2',1' <1-6+ 61' 8 ,)' 1,)*' .' ,1' *2?6-9 ' : 1//620 ' & *,,*-6+ 6 ' +1C I2 6 ' 620' 25/620% 2',)*' D*5 22 25'1 ' ')*' + . ,^ *0' 6/0' ,)*' >125-*56, 12.' 2' 4*-?62 '620' 6/?1.,' ?^ ?*0 6,*/ ' -*, ;-2*0' ,1' 12012% 2' B ; / ')*' -*C*?C)6-9*0' 1-' 4*-?62 '+ . ,*0',)*' >);->)*.' 2' & *,,*-^ 6+ 6 ' 620' 6.. .,*0' 6,',)*' . 210')*/0' 6,' 6-D % -1?' ,)6,'=*- 10')*' -*. 0*0' 6,',)*' >);->)') .')620.')60' 1;20*0% ()*' ,1 /.' 1 '62')121-*0' 620' ;.* ;/ / *' 8*-*' ;2*L=*>,*0/ ' >/1.*0' D ') .' 0*6,) ' 6 ,*-' 6' .)1-,' //2*.. ' *D-;6- ' N ' % **' ,*+*2.' D *' " ' ' R T ' / ' <6->)' Q KT' & *./* 7' + ' QST' + ' KQ

6+ 0' < ' 'M N,)' >*2,;- X' .' .6 0',1')6+*' D**2' 6' 0 .> =/*' 1 ' ?6/- >)' 1 ' *26' M_% +%X' 8)1' 0 *0' % % K ' ()*' 1;2> / 1 ' 6- .' M % ¯ K RX' 21,'12/ ' >120*?2*0' ?6/- >) ') ;,' 6/.1' 6+ 0' 1 ' 262,1% ()1?6.' _; 26.' >$ ' ' .,'L+ ';'% '6-,% X' .=*69.' 1 '>*-,6 2' ' ?10*?' =) /1.1=)*-.J' 6.¯60)*-*2,.' 1 ' 6^ + 0 '620' 6,,- D ;,*.' ,1') ?' 6' 01>,- 2*' 2' .;D.,62>*' =62^ ,)* .,>' d 7 410' .' ,)*' *,*-26/ .;D.,62>*' 6// ,) 25.' 6-*' 410' 620' 410' .' *+*- ,) 25%J' /D*-,;.' <652;.' .=*69.' 1 '6',-*6, .*' 1 'D .' ' ' - ! ;,' 2' 6>,'/ ,,/*' .' -*6// '92182' 1 ' 6+ 0' 1-') .' 8 - , 25. ' *L>*=*,',)6,')*' 86.' 12*' 1 ',)*' /*60*-.' 1 ',)*' =62,)* .,>',*20*2>' 2',)*' < 00/*' 5*.% *620>-' I1# ' ,, ' ' S ' : /620 .' ,-62./6, 12X' 5 +*.' ,)*' >) * ' 6;,)1- ,*.' 1-' 8)6,' .' 92182' 1 ' 6+ 0 .' 01>,- 2*. ' + [% 12> /% 6=. ' K R.' 2' <6-,*2*' -+ '& 2' +' SNT /D*-,;.' <652;. ' $ ' V% ' (-6>,' +' # 6*.,1' K ' <*?D% ' *0% ;50%,% L+ ' ;' '6-,% ' *0% *2*,%,% L ' =% KN % 6+ 0' 0*.>- D*0' 410' 6.' " ' % % ' ' 720' 2' -* *-*2>*',1',)*' ,)-**' 0*=6-,^ ?*2,.' 1 ' *L .,*2>*' 0 ., 25; .)*0' ,)-**' =- 2> =/*.a ?6,,*-',)*' -.,' 20 + . D/*' =- 2> =/*' 1 ',)*' >1-=1-*6/ 81-/0†' 2'-* *-*2>*',1',)*' .= - ,;6/ 81-/0 ' .= - ,',)*' 2+ . D/*' ' -1?' 8) >)' =-1>**0.',)*' .1;/† 620' 2' -* *-*2>*',1',)*' 0*6.' 1 ' #10 ' ,)*' -.,' 20 + . /7*' 2' ,)*' *,*-26/ .;D.,62>*.% *,8**2',)*.*',)-**' =- 2> =/*.' 21' 0 ., 2>, 12' >1;/0' *L ..,' 1-' 1,)*-8 .*',)*' ?;.,'D*' -* *--*0' D6>9',1' 6') 5)*-' =- 2> =/*' 1 ';2 , % ()*-*' 6-*',)*-* 1-*',)-**' -*/6, 12.' 1 ',)*' 12*' 0 + 2*' * 25' ,1%,)*' >1-=1-*6/',)*' .= - ,;6/ '620',)*' 0*6/ 81-/0.%J **' 6;-'N f kS' ' " ' QSS'+1/' '=% NKQ' 4 *.*/*-' "!' # !' +1/% ' g' ->*2/* 2' ' 1' ' & ' ' ; ' * ' ' ' ' ' ' ' ' ' 4 *..% Q KT ,6;0*2?6 *-' " !' !' " + ' SNN' ._%' 25*/)6-0,' ?6/->)' +12' *26' 2' '+ " "!' & " ! 1% NT' ->*2/* 2' ?6/->)' +12' *26' ;% 6+ 0' +12' 262,1' 2' $!' ;%) 2' Q ' 'K ' ._%

6+ 0' M<6-12 ,*'6->)D)1= % % NX' /' $ ') $ '8-1,*' 62' 6% ',1' -.*2 ;,' >12>*-2 25',)*' <*/>D ,*' 620' <6-12 ,*' .*>,.' 6/.1' 6' - ' 12' ,)1' 1= 2 12.' 1 ',)*' 6..*-2')- ., 62. ' =6-,'1 '8)>)' 86.' =;D/ .)*0' D ' D-6)6?' >>)*/*2. .' M6' 1?62' <6-^ 12 ,*X' & 4!' , '=% R' M 12012' SQKX% 2',)*' *6-' R'6,',)*'-*_;*.,'1 ',)*' 6DD1,'B1.*=) ')*',-62.^ /6,*0' -1?' -6>' 2,1' -6D >',)*' '6 1' ' 2' .*+*2,**2' >)6=,*-.'M.**' D-6)6?' >>)*/*2. .' 7 !' ' ' !' # " * ' 2% X% ' /6-9*' $!' $ ' ' S % **'

6+ 0' < ' $ $ ' 6' -62> .>62' 1 ',)*' N,)' >*2,;- '86.' 6' -*20' 1 ' *-,)1/0' 1 ' 6, .D12' 8)1?')*' 6>>1?=62 *0' 12') .' ? .. 126- 'A1;-2* .% : *' 0 *0' 2' ;5.D;-5' 2' K % ()-**',-6>,6,*.' 1 ') .' 6-*' 5 +*2' 2',)*' ; 2 " ' '+1/% L '+ [% -" ' 7 1' @ ' ' " '5 ' ' " ' ' '620'&' ' ' " ' ' '$ % ' ' '5 ! ()*.*',7>,.')6+*' D**2' *--12*1;./ '6.^ >- D*0',1' 126+*2,;-6% *+*-6/ 1 ') .' 81-9.' 8*-*' 8- ,,*2' 2',)*' 4*-?62' /625;65*' 620' 1 ',) .' 06.' . L')6+*' D**2' =;D/ .)*0' D ' * *-' 2') .' ' " ' + ' E.2 ' D " " ' M * =[5' Q X% ' ;0 ;' ' ! ' $ % !' 6 ' ' /6 + 0' 4 *1-5*' 1L' B1- .% **' (! 6+ 0' >*,6.% **' * ! 6+ 0 . ,. ' 1//18*-.' 1 ' 6+ 0' B1- .% **' (! 6+ 0 . ' ! '62' *= .>1=6/ >, ' 2' *?D-19*.) -*' & 6/*.% ,')6.' D**2',)*' .*6,' 1 '6'D .)1=-> . 2>*' 6D1 ;' S R' 8)*2',% 6+ 0' M_%+%X',-62. *--*0',)*' 6-->)D .)^ 1= .' .**',1' ,% 6+ 0 .' MD* 1-*' >6//*0' < 2 8 ' 620' D ' ,)*' 1?62.' <*2*+ 6X' -1?' 6*-/*12% ,' 86.' 2',)*' < 00/*' 5*.' 6'/6-5*' > , ' ,)*' 5-*6,'-*.1-,'1 '= /5- ?.' ,1' ,% 6+ 0 .' .)- 2*T ,' .' 218' 6' .?6// + //65*' 8 ,)' 12/ ' 6' *8' 5110')1;.*.' D*. 0*.',)1.*' 1',)*' >/*-5 % ,')6.' 6' 2*' >6,)*0-6/' 620' .=/*20 0' -*?6 2.' 1 '-*/ 5^ 1;.')1;.*.' *= .>1=6/ =6/6>*' 620' ,0% <6- .' 1//*5*' M 1;20*0' D 'B1)2' 1 ' 46;2,X' 8 ,)2' 6') 5)' *?D6,,/*0' 0 86// 2*6-/ '6' ? /*' 2' > -> ;,% ()*' >6,)*0-6/ 1;20^ *0' 2' Q '12',)*' . ,*' 1 ',)*' ?126.,*- '1 ' ,% 6+ 0' .' >-;> 1-?% ,.' 0 ?*2. 12. ' 2',)*' 2,*- 1-' 6-*I' 6.' 1//18.' d /*25,)' KR ' **,T D-*60,)' S T 26+*' K ' T >)1 -' Q T ,-62.*=,' K T >*2,-6/ ,18*-' K ' *=,') 5)% ?125',)*' 1-?*-' D .)1=.' ?6 ' D*' 26?*0' 6;0' ;// 1;,)' 620' : 1-./* % ()*' =-*.*2,' 2>;?D*2,' M QSQX' 1',)*' .**' .' 1221=' ( ) -/86//',)*') .,1- 62' 1 '4-**>*' ( )*' >6,)*0-6/ *.,6D/ .)?*2,' 2>/;0*.' 6'D .)1=' 6' 0*62' 1;-' >6212.' +*' +>6-.' >)1-6/' 620' 1,)*-' 1 >*-.' -*. C MB*2, 6- ' 8 ,)' 1;-' 6->)0*6>12.' 620' K =-*D*206-*.' ')121-6- ' >6212.' 212C-*. 0*- ,% '-)6?D>-.' 6 % 'X' +%

6+ 0 .12 ' ' % %' 62' *? 2*2,' -*.D A' ,*- 62' 0 + 2*' 620' .>)1/6-' 86.' D1?' 6,' /9,12' <0% '620' 5-60;6,*0' 6,',)*' $2 +*-. , '1 ' *22. /+62 6' % 2' N)*' 86.' 1-06 2*0' D ',)*' *>120' -*.C DA ,*- ' 1 ') /60*/=) 6' 620' D*>6?*' 6..1> 6,*' =6.,1-' 1 ',)*' -.,') ;->)' 620' =-1 *..1-' 1 ') .,1- ' ',)*' $2 +*-. , % ;- 25)*' *+1/;, 12')*' 86.' 6' [*6/1;.

&) 5 ' 620' 8)*2' ,)*' - , .)' 1>>;= *0') /60*/=) 6')*' -*, -*0',1' */686-*% o 2' Q ')*' 86.' 6==1 2,*0' + >*C =-*. 0*2,' 620' =-1 *. .1-' 1 ' D*//*.C/*,,-*.' 2' >9 2.12' 1//*5*' 620' 86.' 6/.1' >6//*0' ,1' D*' =6.,1-' 1 ',)*' -.,' -*.D ,*- 62');->)' 2' 6-/ ./*' 2' /*6+ 25') /6^ 0*/=) 6')*' 86.' ?60*' % %D ',)*' $2 +*8 , % ()*' 01;D/*' 0;, *.' 0*+1/+ 25' 12') ?' 6,' 6-/ ./*' 8*-*' 0 .^ >)6-5*0' 08 ,)' . 526/' 6D / , ' 20;.,- ' 620' .;>>*..% : .'/*6-2 25' *?D-6>*0' 6' 8 0*' -625*' 2>/;0 25' * 5),' /625;65*. ',)*1/15 ' 620' =) . >.% : *' 86.' *.=*> 6// ' 0*+1,*0',1' 6.,-121? ' 620' 2+*2,*0' 62' 25*2 1;.' 6==6-6,;.'>6//*0' 6' %" '=-*.*2, 25',)*' *6-,)' 620' -?6?*2,',1'+ *8' 12',)*' .6?*' 6L .% : *' 86.' 6/.1' 6' ?62' 1 '*/*562,',6.,*. ' .9 //*0' 2' ?;. > 620' 0-68 25% 2' Q ')*' 86.' 6==1 2,*0' D ',)*' /0' 210' 1 ' *8' 1-9' 620') /60*/=) 6 ' 6/125' 8 ,)' -.' / .12' 620' 8 25 ' 12' 6' >1?? ,,*' ,1' =-*=6-*' 62' ?=-1+*0' +*-^ . 12' 1 ',)*I' .6/?.' ,1' ,69*' ,)*' =/6>*' 1 ' :1;.*% 2' RS)*' 86.' >)1.*2' ?10*-6,1-' 1 ',)*' 4*2*-6/ ..*?^ D/ '620' 2' Q ')*' .;>>**0*0' -% .D*.' 2',)*' =-*. ^ 0*2> ' 1 ',)*' >1//*5*' 8)>)')*' -*. 52*0' 2' Q R' 2' 1-0*-',1'0*+1,*') ?.*/ '*L>/;. +*/ ',1') .' =6.,1-6/ 0;^ , *.% : *' 0 *0' 6,' 6-/ ./*' *>% N Q K% : .'=;D/ >6^ , 12.' 6-*' &' ' S "' ' , ' ' 'NV;. >' T & '6% ' '? %" ' Q T &' ' ' ' +' * .:' % ' ' & :' @ ' 6 " ' ' " ' RRT -" ' " ('& ' ; ' ' Q T 7 ' ' N ' '" ' ' Q KT , '$ 1' ' **' =-65;*'& ' 'NKK%

6+ *. ' '6' -*.DA0*- 62' ? 2 .,*-' =-*. ^ 0*2,' 1 ',)*' 1//*5*' 1 ' *8' B*-.* ' 86.' D1?' 2*6-' ;? ? , ' 05*' *8>6./*' 1;2, ' */% ' 1+% N KN% : *' 86.% *0;>6,*0' 6,' 155 .' <621-' >)11/' 8/A *-*')*' >1?=/*,*0') .' ,)*1/15 >6/' .,;0 *.' 6/.1' 620' 86.' / ^ >*2.*0' B;/ ' N ' S% : *' 86.' 1-06 2*0' 6.' 62' *+62^ 5*/ .,' 2' ';20*-,119' 6' ? . . 12',1' : 621+*-' 1;2, ' 6% ' 620' 12') .' 6-- +6/' 1D,6 2*0' 6' / >*2.*' -1?',)I* 4*2*-6/ 1;-',1' 1 >6,*' 6,' 1;-'0 *-*2,'=/6>*.' 1 ' 81-.) =% 2' Q) *' 6>>*=,*0' 6' >6//',1' : 621+*-' 620')6+ 25'-*>* +*0' 62' *L,*2. 12' 1 ') ./ >*2.*')*' 0 + 0*0' D .' /6D1-.' D*,8**2' +*' >1;2, *.' 8 ,)' 5-*6,' . ;>>*..% : *' .;D.*_;*2,/ ' >/6 ?*0',)*' =- + /*5*' 1 ',)*' >,' 1 ' (1/*-6, 12' 1-' -5 2 6 ' 620' -*>* +*0' 6' /*,,*-' ;20*-' 6;,)1- , ' 2' 25/620' >12 -?6,1- ' 1 'D .'+ *8.% 2' N)*' 8*2,',1' 25/620' 2' D*)6/ '1 ',)*' 1//*5*' 1 ' *8' B*-.* ' 620' -*,;-2*0',1' -5 2 6' 2' S ' 8)*2' ,)*' -*.D ,*- '1 ' : 621+*-' 86.' 1;20*0 ')* / ',)-1;5)') .' 2.,-;?*2,6/ , % 2' R')*' D*>6?*' =-*. 0*2,' 1 ' *8' B*-.* ' 1//*5*' 620' -*?1+*0',1' -2>*,12' 8)*-*')*' 0 *0' *D% S % ,' .' 0*.*-+ 25' 1 '-*>1-0',)6,' 2' 6' 0 .>1;-.*' 12',)*' 1>>6. 12' 1 ' -6001>9 .' 0* *6,')*' ?60*' ,)*' 1//18 25' =-1=)*, >' -*?6-9' 1 ' & 6.) 25,12a' ' ?6 ' =1 2,' 1;',1',)*' =;D/ >',)6,')*-1 >' 1;,)' >1/12*/ & 6.) 25,12' 8)1?' '>6221,' D;,')1=*' -1+ 0*2>*')6.') ,)*-,1'=-*.*-+*0' 2' .1'. 526/' 6' ?622*-' ' ' 9 % ' ' " ' !P' 2',)*' =;/= ,' D*' 86.' 6,' 12>*' 2.,-;>, +*' 620' =*-.;6. +*' ;// 1 '/ 5),' 620' =18*-' 620' /1+*T 620') .' ?622*-' 1 '0*/ +*-' 86.' 81-,) ' 1 ') .' 2*' ,)1;5),.' .=/*20 0' 0 >, 12' 620' 0**=/ ' *+625*/ >6/' .= - ,%J' : .' .*-?12.' 8) >)' 6-*' .,- 9 25/ ' */1_;*2,')6+*' D**2' 1 ,*2' -*=- 2,*0T ,)*' /6,*.,'*0 , 12.' 6-*' ,)1.*' 1 ' /D*-,' 6-2*. ' 8 ,)' 6' / *' 1 ',)*' 6;,)1-' M *8' 1-9' Q ' N' +1/.% Q+1X' 620',)6,' 1 ',)*' -*.D ,*- 62' 16-0' 8 ,)' ?*?1-' D ' -% =-65;*' M) /6% N' +1/.% Q+1X% ' =-65;*' & ' % 6+ . ') 6-/*.' 6' <*,)10 .,' = .>1=6/' ? 2 .^ ,*-' 86.' D1?' >,% ' Q K' 620' 86.' 60? ,,*0' 12',- 6/' D ' ,)*' 6/, ?1-*' 12 *-*2>*' 2' QK % ;- 25') .' , 2*-62,'/ *')*' //*0' ?62 ' ?=1-,62,' 6==1 2,?*2,.% : *' 86.' .,6, 12*0',)-**', ?*.' 2' 6/, ?1-*% : *' .*-+*0' 6/.1' 2') /60*/=) 6' & 6.) 25,12' *8' 1-9' <12,^ 51?*-' ->;,' <0% /*L620- 6' % 226=1/.' <0% 620',8 >*' 2' & 2>)*.,*-' 6% 2' <6 ' QNK')*' 86.' 12*' 1 ',)*' .*>-*,6-*.' 1 ',)*' 4*2*-6/ 12 *-*2>*' 6,' ,.' .*.. 12' 2' B /60*/=) 6% C 1-' .*+*-6/ *6-.')* 86.' >/*-9' 2' 12*' 1 ',)*' 0*=6-.?*2,.' 1 ',)*' 5*2*-6/ 51+*-2?*2,' 2' & 6.) 25,12' 8)*-*')*' 86.' -*>* +*0' 2,1',)*' -5 2 6' 12 *-*2>*' 1',)*' <*,->)10 .,' = .>1^ =6/);->)' 1;,)' 620' //*0' 62' 6==1 2,?*2,' 2' >)^ ?120' 620' 6/.1' 2' 1-,.?1;,)' 6% &)/*' 2A71-,.C ?1;,)')*' -*>* +*0',)*' 6==1 2,?*2,'1 ')6=/6 2' 2',)*' 26+ % &)*2' %,)*' > + /' 86-' D-19*' 1;,')*' -*?6 2*0' ,-;*',1' ,' >1;2,- ' 620',)*' -5 2 6' 12 *-*2>*' 1 ',)*' <% %);->)' 1;,)' *L=*//*0') ?' D ' -*.1/;, 12% : *' ;2 ,*0' 8 ,)',)*' -5 2 6' 620' 1-,)' 6-1/ 26' 12^ *-*2>*' 1 ',)*' <*,)10 .,' = .>1=6/);->)% : *' 0 *0' ;')6-5*' 1 ',)*' 1- 1/9' 6+6/' : 1.= ,6/' *D' K QS % ' -%B% < ,>)*//' 2' " !'& ' 'D !

6+ . 'B1) 2 '6' <*,)10 .,' = .>1=6/ ? 2 .,*-' 86.' D1-2' 2' 1-,);?D*-/620' 1;2, ' 6% ' >,% N ' Q ' 86.' >12+*-,*0' 6,' R' *2,*-*0',)*' , 2*-62> '1 ',)*' 6/^ , ?1-*' 12 *-*2>*' 2' Q '6=0' 0 *0' 2' : //.D1-1;5)' 6% ';5% N Q N% <-% 6+ .' 86.' 6' +*- ' ?=1-,62,' 620' ;.* ;/ ? 2 .,*-' 1-' ?1-*',)62' 1-, ' *6-.% .' .112' 6.')*' 86.' >12+*-,*0') *' D*562',1' *L)1-,' 620' =-*6>)';D/ >/ ' 620' 8 ,)' 5-*6,' * *>, ' *+*2' D* 1-*')*')60' D*>1?*' 6' ?*?D*-'1 ',)*' ;->)' 620' 12' 6' > ->;,' 2' Q Q' 6D1;,' 12*' ,)1;.620' .1;/.' 8*-*' >12+*-,*0' DA') .' =-*6>) 25% 2' =*-.12')*' 86.' >1? ?620 25' 620') .'+1 >*' 86.' *L>*//*2,% .' ? 20' 86.' 8*// D6/62>*0' 620' -1D;.,' 620') .'.1> 6/ _;6/ ,*.' 2*' .'6' ? 2 .^ ,*-' 620' =-*. 0 25'*/0*-')*')60' *8' *_;6/.' 620')*' 86.' 6/86 .' 6' /*60*-' 2' ,)*' >1;2> /.' 1 ',)*');->)' - *' 86.' 62' 6D/*' 65*2,' 620' ,-;.,**' 1 ' >9 2.12' 1//*5*' 620' 6' ?*?D*-'1 '*+*-' 4*2*-6/ 12 *-*2>*' .6+*',81' -1?' Q S ,1',)*', ?*' 1 ') .' 0*6,)% ' ' 9 ' 'QKR

6+ . ' 16) '6' 6=,.,' ? 2 .,*-' 86.' D1-2' 2*6-' 6/ .D;- ' & 1->*..*-' 1;2, ' <6..% ' B;/ ' K ' Q K% ,*-' -*>* + 25' 6' >1?? *-> 6/ *0;>6, 12')*' 86.' / ^ >*2.*0',1'=-*6>)'B;/ ' R QK % ,*-'6' D- * ' ? 2 .,-' 2' >>1?6>')*' D*>6?*' =6.,1-' 1 ',)*' 6=,.,'>);->)' 2' 1- 1/9' 6% : 6+ 25' D ') .' *2*-5 ' .;>>**0*0' 2' =-1^ >;- 25',)*' 1-?6, 12' 1 ',)*' 6=,D,' 4*2*-6/ (-6>,' 1^ >*, ' 2' & 6.) 25,12' *D% K QK ')*' 86.' ;=12' D .' -*?1+6/ .112' 6 ,*-',1') /60*/=) 6' 2+ ,*0',1',)*' ?6265*?*2,'1 ' ,.'>12>*-2.% ( ) .'1 >*')*' 6>>*=,*0' 620' //*0' 8 ME' 5-*6,' ;.* ;/2*..' ;2, /) .% 0*6,)' B;/ ' N QN % ' =-65;*'& ' + ' %

6+ .12' (' % %' *//18' 1' - */% 1//*5*' L 1-0' 86.' D1-2' 6,' <1-=*,)' 2' 620' ?6,- >;/6^ ,*0' 6,')- .,');->)' L 1-0' 2' <% : *' D*>6?*' + >6-' 1 ' ;,,*-,12' 2>1/2.) -*' 2' Q ' 620' 6 ,*-^ 86-0.' -*>,1-' 1 ' & 6.) 25,12T ,)*2' =-*D*206- ' 1 ' & 1->*.,*-' 620' -*>,1-' 1 ' $=,12C;=12C *+*-2' 2' QKS% : *' 0 *0' ?' QN %C : .' ' ' ' %" '6-*'+6/^ ,6D/*' 1-' ,)* -' =-6>, >6/ ,*20*2> ' 6.' 8*// 6.' >- , >6/ -*.*6->)% ()* '6-*' >12,6 2*0' 2') .' ; ' ', 9 ' 'M L % Q 'Q+1X% ' 6-/ 25' 1 = % ' ; %" ' 'Q %

6 8 * . ' -' " % %' 6->)D .)1=' 1' 71-9' 86.' D1?' 6,' 12.' 2*6-' -6 2,-**' 2' S % : *' 86.' *0';>6,*0' 6,' ,%B1)2 .' 1//*5*' L 1-0' 620' 6,)6- 2*' : 6//' 6?D- 05*T D*>6?*' ?6.,*-' 1' 6,)6- 2*' : 6//' 2' SRS' D .)1=' 1')*.,*-' 2' '620' 26// ' 6->)^ D .)1=' 1' 1-9' 2' ' : *' 0 *0' 2' K % : *')60' 6' / +*/ ' ?65 26, 12' 6' .,-125' ?*?1-A7' 620' 6' .1;20' A;05?*2,% : *' 86.' 12*' 1 ',)*' ?1.',*=1=;/6,'=-*6>)^ *-.' 1 ') .' 06 % ?125') .' 8- , 25.' 6-*' -" '& ' '&' " ' M SRN ,1Xa ' ' ' ' ' ' *,>%M ' Q+1X' *,>% ' >1//*>, 12' 1 ') .' 81-9.' 86.' =;D/ .)*0' M *20% NN' N' +1/.% Q+1X' 8 ,)' 6' =-* 6>*' 5 + 25' .1?*' 6>>1;2,'%1') ./ *' 620' >)6-6>,*-I ' 6-/ 25' % ' ; %" ' 'Q T ; % ' ; '+' %

6 8 2 ' "& ' (+ %" ' ,)*' " ' 1-' D-**[*' 1' ,)*' >11/*-'=6-,' 1',)*' 06 T =-1=',)*' ' '' " P' M6.' ; .;6// ' -*20*-*OX')*2>*' c) ' ,8 / 5),' 1-' 0682 25J' MB1D' + ' T .6' >L L' 7 T ,8 / 5), J' ' 6?% ddd' T K' 25.' + ' S' XT =1*,%

%" %% (' = ' M6.' */.*8)*-*' -*20*-*0X' 1 ',)*' ?1-2 ' ' ' 06 CD-*69' MB1D' ' RXT' 6/.1' ,1' ' .=19*2' 1 ',)*' >)625*' 1 ' 06-92*..' 2,1' / 5),' MB;05% L L 'KSXT' 620' ,1' '1 ',)*'/ , 25' 1 '2 5), .' .)60*.I' MB1.)' + ' X% 2' 4-**9' - %) ',1' ' "' M<6,,' LL+ ' T')*2>*' 6/.1' 1 ',)*' %% " ' 6DD6,)' ' ;9*' LL ' XT' 620' 1 1 8' ,1' " ' ' 6.' ,)-1;5)7 6' >-*+ >*' MK' I*,% ' RX% **' 5 4

6 ' M=-1=*-/ ' 2 N ' ' % 8!' ()*' +6- 6D/*' /*25,)' 1 ',)*' 26,;-6/ 06 'M '6D' *L1-,;' 60' 1>>6.;?' .1^ /.'J' *2.1-' ' ' 7 'KNX6,'0 *-*2,'.*6.12.'/*0' 2' ,)*' +*- '*6-/ *.',, ?*.',1',)*' 601=, 12' 1 ',)*' > + /06 ' M1-'12*' -*+1/;, 12' 1 ',)*' .;2X' 6.' 6' .,6206-0' 1 ', ?*% ()*' >1? ?*2>*?*2,'1 ',)*' > + /06 '+6- *0' 2' 0 *-*2,' 26, 12.T ',)*' 6D /12 62.' M/ 9*',)*' =*1=/*' 1 ' ;-*?^ D*-5X'-*>912*0' ,' -1?' .;2- .*',1' .;2- .*' M . 01-%, ! 'N XT ,)*' $?D- 62.' -1?' 2112',1' 2112T ,)*' 1?62.' -1?' ? 02 5),',1' ? 02 5),' M / 2% ' RXT' ,)*' ,)*2 ^ 62.' 620' 1,)*-.' -1?' .;2.*',1' .;2.*,'M<6>-1D% $! 'N T 4*//% 'KX% **' ' #

()*' :*D-*8.' 601=,*0' ,)*' /6,,*-' -*>912 25' M *+% LL 'QK' ' -1=6*+*2',1' *+*2'.)6// *' >*/*D-6,*' 1;-' 6BPD6,)JX' 8) >)'6==*6-.'*+*2' 2' 4*2% ' ' ',)*' 9 '620',)*' '8*-*'\12H',)*' -.,'06 J'M6'=6..65*' 8)')',)*' B*8.' 6-*' .6 0',1')6+*' _;1,*0',1' /*L620*-' ,)*' 4-*6,' 4*?6-6' - 11' T' */620' & !'# !' +' X% 1?*' M6.' 2' 4108 2 .' ' '& 8' 6-^ 5;*' 11/ .)/ ' -1?' <6,,' LL+ ' ',)6,',)* ' D*562' ,)*-' > + /06 ' 2',)*' ?1-2 25T D;',)*' *L=-*.. 12' --I% 8I-) I-8 .)18.',)6,',)*`' '06 ' .',)*-*' 2^ ,*20*0% :*2>*',)*' *L=-*.. 12' *+*2 25C?1-2 25J' b'06 ' M A?% + ' ' *=,' 7)*' : 2011 " ' M 12' 1)/*2' 12' 4*2% ' X',)*' 4-**9'

% % ' MK' 1-% L ' K X% 3 ()*-*' 86.' 6' . ? /6-' >;.,1?' 6?125',)*' ,)*2 62.' -6D 62.' 620' 62> *2,' (*;^ ,12.' M(6>% ? ' L ' 2*>' 0 *-;?' 2;?*-;?' ;' 6=;0' 21.' .*0' ' >1?=;,62,' % % 21L' 0;>*-*' 0 *?' + 0*,;-JX' 620' */,>' 26, 12.' M 6..6-' ; !' ? ' + ' Q' ;' 21>,*?' 0 *.' .;D.*_;6,;-JX% () .' ?10*' 1' -*>912 25' 86.' 8 0*/ ' .=-*60T ,' .' 1;20' 2',)*' 1^ ?62' /6D' M4$;.' ' KX' 2',)*' *D*/;25*2/ *0' 2',)*' 6/ >'/68'> ' ' 8' 2' 1;-'182',*-?.' ' 1-,C " ((.* 2C2 7 J'M.**' -*// ' *,>% 2' /1>% (6>%X' 620' *+*2' 6?125',)*' 6?*.*' M ,)* '-*>912' D ' 2 5),. J' 18-25' ' N X' 620' *8' U*6/620*-.' M(6 /1-.' - -' D+ = '=% K X% 1'01;D,',) .' 6-1.*' -1?',)*' 5*2^ *-6/ 21, 12' ,)6,',)*' -.,'06 ' 2' 0*2' 86.' NS')1;-.' /125J'M 5), D1, .' + ' 'NN '*0% ,?62T :*. 10' -1 ! \$E - .,1=)% +% SRNT & /9 2.12' 2>% +'K X% 6/.>)'=/6;. D/ '-* *-.' ,'1',)*' ;.*' 1' 9 ' *6-.' >? !' =% S X% 1?*, ?*.')18*+*-',)*' -*>912*0' -1?'.;2- .*' >4% %) '>1?=% .6% 'KT' *+% + ' X% ()*/*..'1D+ 1;.',6-, 25C=1 2,.'1 '2112' 620' ? 02 5),',)*' 1-?*-' 601=,*0' D',)*' ,-;.>62.' *,>%',)*/6,,*-'D',)*' 1?62' =-*.,.' 5 =, 62.' M.**')18*+*-' *=. ;.' " !' =% N X' 620' 1,)*-.' 8*-*' >)1.*2',1*')*-'6.',)*' >;/? 26, 25'=1 2,.'6.' ,'8*-*'1' / 5),'620'06-92*..'1-' 1-'6.,-121? >6/=;-=1.*.'M 0*/*-' 6 !' !' + !' 'KR Q ' _ %T >1?=% (6>,% ? !' T' <6>-1D% $!' LLL ' *,>%X% ' (1',)*' : *D-*8.',)*' ?112')60' 0 ., 2>,/ ' D**2' =1 2,*0' 1;' 6.',)*' -*5;/6,1-' 1' ,?*' M .6% > + ' RX% *+*-,)*/*..',)6.'6/86 .'D**2' 6' ?11,'=1 2,' 8)*,)*-',)*' : *D-*8.',6,' 6//',?*,' 620' 2' 6// -*.=*>,.' D*562',)* -'>6/*206-' 1-' > + /06 '8 ,)' ,)*' 2 5),% M **' */.* .*2' ' ' D ' ' =[% KT' *0*--*;,)*-' ' ' ' 1 % ' /,0% %X' ,')6.' D**2' 6-5;*0',)6,' ',) .')60' D**2',)*' >6.*' ,)*' /6 8 5 +*-' >1;/0' 21,')6+*' 0*. 526,*0',)1.*' +*-A' *+*2 25.' 8)>)')*' 8 .)*0',1' D*/125' - .;6// ' ,1' ,)*' 1//18 25' M ,)' ,)X' 06 '6.',)*' *+*2 25.' 1 ',)*' =-*+ 1;.' M ,)'R,)X' 06 'M *+% %X% ;-,)*-',)6,' 2' >1? ?12' D D/ >6/ =)-6.*1/15 ',)*' 06 ' .' -* _;*2,/ ' ?*2, 12*0' X* 1-*',)*' 2 5),' M .6% 'K' *,>% XT' 620',)6,' 1',)1' 6.,' 06 Y' ?*2, 12*0' 2' U*>)% + ' R' 12/ ' 12*' D*5 2.' 8 ,)',)*' =-*+ 1;.' *+*2 25% 26// ' 721',1 ?*2, 12' 1,)*-' 1DA*>, 12. ' ,')6.' D**2' 6//*5*0',)6,' *+*2' 2' - ,;6/ =1 2,.',)*' D/*' 1>>6. 126// ' -*>912.' ,)*' 2 5),'6.' 1//18 25',21,'6.'=-*>*0 25',)*' 06 'M *+% + ' X% ()*-*' .**?.' 2' 6>,' 21' 1,)*-' 86 '1'-*>12^ >/25',)*.*' 6==6-*2,' 2>12. .,*2> *.',)62',1' 6..;?*' M>1?=% < .)26D' " '+'SX',)6,'21'6D.1/;,*-;/*' 60' D**2'/6 0'0182'8 ,)'-*.=*>,',1',)*' >1?2?*2>*?*2,'1' ,)*' > + /06 '620',)6,';.65*' +6- *0' .1?*8)6,' 8 ,)' ,)*' >;.,1?.'1',)*' =*1=/*' 8)*-*',)*' : *D-*8.' 8*-*' 1-' ,)*' ,?*' .1A1;-2 25% ()*' =-*+6/*2,' ?*,)10' 1' >1?^ =;,6, 12')18*+*-' .'*+ 2>*0' D ',)*' 6>',)6,',)*' B*8^ .)' > + /06 ' ., /' D*5 2.' 21,' 8 ,)' ,)*' ?1-2 25' D;',)*' *+*2 25 ',);.',)*' 6DD6,)' >1?2?*2>*.' 8 ,)',)*' .;2.*,' 1 ' - 06 '620' *20.' 8 ,)' ,)*' .;2.*,' 1' 6,,-^ 06 % ()6,',) .' 86.',)*' >6.*' 2' B;0.*6' 2' 1;-' 6+^ 1;-.'06 '.'*+ 0*2,' -1?',)*' *+625*/ .,.' 6>>1;2,' 1' ,)*' 6.. 12% 2' *8' 25/620',)*' .6?*' ?10*' 1'-*>9^ 12 25',)*' 6DD6,)' 86.' 1-?*-/ ' >1??12% I' **' L !

()*' B*8.' 6-*' .;==1.*0' / 9*',)1' ?10*?' -6D.' ,'1')6+*' 601=,*0' -1?' 62' *6-/ ' =*- 10' = 2;,*' .=*> >6^ ,12.' 1 ',)*' =6-,.' 1 ',)*' 26,;-6/ 06E' M.**' D !' $! !' B62% QSK' =% X% 1;5)/ ' 20**0',)*' 8*-*' >12,*2,',1'0 + 0*' ,' 2,1' ' ?1-2 25' *+*2 25' 620' 2112^ 06 J' M .6% +' XT' D;',' 8)*2',)*' 8 .)*0' 1-' 5-*6,*-' 6>>;-6> ',)*' =1 2,*0',1' . L' ;2*_;6/ =6-,.' *6>)' 1' 8)>)' 86.' 656 2' .;D0 + 0*0% ()*.*' 6->')*/0',1')6+*' D**2a

M %X' 7 (" %"' M -1?' ,1' 8' 620' " +(^ ' 1-',)*' !' ,*-',)*-'*' 6>_;6 2,62>*' 8,)' *-. 6',)*' 0 + 0*0',)' .' 2,1' M6X',)*' ,?*' 8)*2',)*' *6.,*-2' 620' MSX' 8)*2',)*' 8*.,*-2')1- [12' 86.' //;^ ? 26,*'/ 9*',)*' 4-**9' *2>1,)>6 ' <6,;7 ' 620' ;-1-6T 1-' ,)*' 5-6 ' 06 8 2 J' M< /,12X' 620',)*' -1. ' 06 8 2% : *2>*' 8*' 20',)*' ')6D6-6 ?' 6.' 6' =-1=^ *-' 26?*' M ')-12% + 'QX% ()*' 8-,*-.' 1',)*' B*-;.% (6/?;0'0 + 0*',)*' 06 8 2' 2,1' =6-,.' 1 '8)>)',)*-* 86.' % & * "' "=" " 'M +%X' ,)*' 56[*//*' 1',)*' ?1-2 25 J' 6' 26?*' " ' 8)>)',)*' -6D 62.' >6/',)*.;2' M>1?=% '* */0.' 1',)*' 06 8 2 J' B1D' 'RT' % 'VNd C 1 % &' 1=)% & ! RX% ()*' 86.',)*' ,?*' 8)*2')-.,' 6-1.*' M<6-9' L+ 'KT' B1)2' LL' T' *+' LL ' T' ' + U% GI-),U+H8' <6,,'LL+ ' X% ()*' 1,)*-',)-**' O0' + . 12.' 1',)*' 06 8 2' 8*-*' K% '8)*2' 12*' >62' 0 ., 2^ 5;.)'D/;*' -1?'8),*J'I-% ',) ' ' * 'B1)2' d d' T' 1D.>;-;?'60);>'>1*=,?'/;>. J' (6> ,% 6!' + KX% ',) .',?*',)*' 'D*562',1'-*>,*',)*' =) /6>,*-*. N% &)*2',)*' *6.,'D*562',1'5-18'/5),'I %,% 'I$? ;9*' LL +' X% % (8/5),'IO '-% ' O ' - ' 8E '<6-9' L+ 'KT' 5), 11,'6 !'# !'60'/1>% ** 5 6

M %X' ; (- ' !' 1?*' .;==1.*',)6,',)1' B*8.' /9*' 1,)*-' -*2,6/ 26, 12.' >1?2?*2>*0',)*' -' > + /06 '6,',) .',?*' ;2,/ ,)1' L10;.' MB*22 25. .' D "' & !(8' ** !

M %X' " '" =< ' : ')*6,'1',)*'06 I M *=,% FI8' % 8' 8' 81;% ' ' 6?% L ' T' /*..' *L6>,/EJ*/.*8)*-*' % *% % 8' 6D1;,'R'1>/1>9' 2',)1' 1-*2112%

M %X' - " (' ,)*',81'2112.J'M4*2 L/ ' ST' *;,% LL+ 'KRX% **' ,11

M %X' 5 ("' " =- (' ',)*'>11/M/,*-% 8' 1',)*'06 J' D* 1-*' .;2.*,'M4*2% 'QXT' .1'>6//^ *0' D',)1' *-. 627',1',) .' 06 'M)6-0 2' N ! +' QT' B6)2% ;" !' & "!' g' KRX% **' !

M /%X' 6(' 1(B !P ()*' =)-6.*')*(,&* 2',)1',81' *+*2 25.J' M L10% L+ ' KT' LLL' QX' D* 25',)*-?*' ?6-9*0' 1-' ./6 25',)*' =.>6,)6/ 6?D' 620' 1 *- 25',)*' *+*2 25'.6>- >*' M L10% L ' ST' LL L NRX'/*0',1'6'0 .=;,*' D*,8**2',)*' 6-6,*.' 620' 6?6-^ ,62.' 12',)*' 12*')620' 620',)*')6- .**.' 12',)*' 1,)*-% ()*' 1-?*-',119',1' ?*62' D*,8**2' .;2.*,'620' ;// 06-92*<'M *;,% L+ 'SXT',)*' 6DD 2 .,.' *L=/6 2*0' ,'6.' ,)*', ?*' D*,8**2',)*' D*5 22 25' MN5dH' - % ' / ,,/*

M.**' 6.6;D12' 'X "!' 'Q T' (B9*-,' ? !' ' ? "' !' 5 ' ' ' QX%' ;',,)*' 62> *2,' 8- ,*-.' .**?' ,1')6+*' L*0' 12' ,)*' 6+*-65*' 1 ' 8)6,' 86.' ; .;6// ' =*-^ 1-?*0' D ' 11,C,-6+*//*-.' M *-10%' 'RT' +' RX%' :*^ -101,;.' 2' 12*' =/6>*' .6 .' M + ' X' 6' 06 .' A1;-2* ' 6?1;2,.',1' K '.,60 6' M>1?=% 1/ D%' 'Q' + ' LL XT' 2' 621,)*-'M+' NX',1' 'M>1?=' 6;.62 6.' L 'QN KX%' >>1-0 25',1' *5*, ;.' I1 ' 'RX',8*2,' 1?62' ? /*.',)6,' .' S ' .,60 6' 8*-*' -*>912*0' 1-' 6' 06 .' A1;-2* % 2',)*' -6D 62' 5*15-6=)*-.',)*' /*25,)' 1' 6' 06A7.'A1;-2* ' .'*_;6// '+6- 6D/*1' *,'6?125',)*?' 6.' 2',)*' 6.,' 6,',)*' =-*.*2,' 06 'M(6+*-2 *-' ' QX' ,' ?6 ' D*' .,6,*0' 5*2*-6// ' 6,' 6D1;,' .*+*2' /*65;*.' 1-' -1?' * 5),**2',1',8*2, ' 25/ .)' ? /*.' 8D _)' .' =-1D6D/ ' 21,' 6-' -1?',)*' 0 .,62>*' 2,*20*0' D ',)6,' *L=-*.. 12' 2' >- =,;-*' 8)>)' 1>>;-.' >) * / ' 2',)*' *2,6,*;>)'M4*2%LLL 'NST' LL0%+' NT' + ' K T' ;?% L ' N T' *2,' ' KX' D;',' 6/.1' */.*8)*-*' M ' 25.' L L ' T' K' 25.' 'RX' 620' *+*2' 2',)*' =1>^ - =)6'M ' <6>>% 2' K 'KQT' + ' 7T' (1D ,'+ ' X' 2',)*' *8' (*.,%M ;9*' ' T' >,.' ' KX' 1 ,*2' 2' B1.*=);.' I1& ! L ' 'ST' &% ' 'RT' ' KX' 620' 2',=' (6/?;0' M.**' ,)1' '5 '=% K X%' **' ($ 6 #!

6 '(' ' % %'=-*. 0*2,'1' 6/*' 1//*5*' 86.'D1-2' 2' *8' -*.,12' 122%' ;5;.,'N N' 620' 86.' *0;>6,*0' 6,' 6/*' 1//*5*' 8)*-*')*' 5-60;6,*0' 2' R % ,*-' .1?*' *6-.' .=*2,'6.',;,1-' 6,' 4-**2 *0' >)11/' & // 6?.' 1//*5*' 620' 6/*')*' 86./>*2.*0'6.' 6' ? 2.,*-' 1',)*' 125-*56, 126/);->)' 2' Q '620' 2' Q ')*' 86.' */*>,*0' =-1 *..1-' 1' ?6,)*?6,>.' 620' 26,;-6/' =) /1.1=) ' 2' 6/*' 1//*5*%' : .')*6/,)' 6 /^ 25')*' .=*2,' 6' *6-' 1-',81' 2',-6+*/' 620' -*, -*?*2,' 620' 0 0' 2 .'D*5 2') .'/6D1-.' 2'>1//*5*' ; 2, /' Q N%' :*')*/0',)6,' 1 >*' ;2, /' Q ' =;D/.) 25' ?*628) /*' 6' .*- *.' 1 '?6,)*?6, >6/ ,*L,CD1;' 8*//C606=,*0',1',)*' 862,.' 1 ',)*',?*' 620' 8)>)')60' 5-*6,' .;>>*..% 2' ,)*' KKO' 1 ' =- /' Q ')*' 86.'>)1.*2'=-*. 0*2,'1' 6/*' 1//*5*' 620')*/0',)6,' 1 >*' ,// Q S'8)*2') .' .*2.*' >C',)*' 2 -? , *.' 1 '65*' 20;>*0') ?',1'-*. 52'656 2.,' ,)*'A;05?*2,'620'8 .)*.' 1 ') .'>1//*65;*. '6.') .'A;05CC' ?*2,' 620' 51+*-2 25' 6>;/, *.' 8*-*' *,' 2' 6D;2062,' 3' + 51-% 1,8 ,)., 620 25'>)-12>' **D/*2*..' 1 '>12., ^ ,;, 12 'D .'>6-* ;/)6D ,.' 1 '/ *' 1-?*0' 6 ,*-' =) . 1^ /15>6/ .,;0 ' 1 ') .' 182' >12., ,;, 12 ' *26D/*0') ?',1' =-*.*-+*') .' 2,*//*>,;6/ + 51-' 620' 6' 6 -' 0*5-*' 1' 10/ ')*6/,) ';=',1',)*' *6-' 1 ') .' 0*6,) ' 8) >)' 1>^ >;--*0' ;5;.,' KK' QS % *. 0*.') .' ?6,)*?6,>6/ 81-9.'=-*. 0*2,' 6 ' 8-1,*' & ' 4 ' % ' "' = ' ' '" ' 2'M QNQT' KO'*0% Q RX' 8)>)' 86.' .;D.,62, 6// '6'-* ;,6, 12'1' 1;. 2 .' + *8' 1',)*' 8 //6.' 5 +*2' 2') .' " ST 6 '6 ' ' " ' 'M Q K?1X'8)>)' .' 62'6D^ .,-6>,' 1 ' 086-0.' ?60*' 2' 6' /;>0' 620',-;,)C/1+ 25' .= -,%J' : *' 6/.1' >12,- D;,*0' 2;?*-1;.'6-,>/*.',1'-*^ + *8.' 620' A1;-26/.% .' 6' >1//*5*' 1 >*-') .' ?1-6/ 620' 2,*//*>,;6/ _;6/ ,*.' >1?D 2*0',1' ?69*') ?' 6' ?10*/% **' 62' 60?-6D/*' .9*,>)'D '=-*. 0*2,' &11/C .> '7 '6 ' >,% QS '6-,%+%

6 .?62'M27 7' + "'62' * 8' 62' 1/0' 25/.)',*-?' ?*62 25' % ' 1-' " 'MB1D' L 'NNX%' ,' .' 0*- +*0' -1?' ' 2',)*' .=*> .*2.*' 1 '6' 06 ' ' ' 'M>1?=%' 1-% + 'N' 8)*-*' =' ;% - -G' % ' / ,%' (' '620' .'1 5 +*2' 2' & >C' / * .',-62./6, 12 ' .'-*20*-*0' >?62 . 2 ',)*' % %X%' ? /6-' *L=-*.. 12.' 1>>;-' 2' 4*-?62' I ' $ "' A 'D- 25' 6' ?6,,*-' D* 1-*' 6' >1;-;' 1 'A;.^ ,>*X' 620' 1,)*-' (*;,12 >' /625;65*.J' M ? ,)X% ()*' =- ? , +*' ?*62 25' 1',)*'+*-D' M6>>1-0 25',1' 4*.*C' 2 ;.' -+ V%=% RKX' .' `,1' D*' >/*6-' 1-' ?62 *.,T' 620' 2' : =) /`,1' ?69*' ?62 *.,T' 6/.1' `,1' >12+ 2>*' ,1' >12^ ;,*' ,1' -*=-1+*' 1-' -*D ; 9*D ',)*.*' /6.,' ,81' 81-0.' ,)*' 81-0' .' -*20*-*0' 2' 2*6-/ '*+*- ' =6..65*' 1 ',)*' % %' 2>/;0 25',)*' ,*2' 2.,62>*.' 1 ',)*' : =) /=6-^ , > =/*' ,' .' 21,' *6. ',1' >12A*>,;-*' 8) ' 2 B1D' L ' NN' 6/12*' ,)*' ,-62./6,1-.' -*.1-,*0',1' ,)*' 21, ,)*2' >1?2' 12' 81-0' ! ()*' ?6-5 26/ -*20*-^ 25' % '.**?.',1' >12+* 'D*.',)*' ?*62 25' 1 'B1D' 2',)*' =6..65*' '.1?*' 12*',1' >1?=1.*' 1;-' 0 , *-*2>*.' 620' >1? 620' ./*2>*' 8)*2' *,)*-' 1 ';.' *L>**0.' 1;-' D1;20.' M 6,-9>' 2' /1>%X% ;-.,.',*-?'$ D ' I# "!'=% N RX'+*-' 8*// *L=-*..*.',) .' 0*6' 1 '6;,)1-,6, +*' 6-D,-6, 12% .',1',)*' 1/0' 25/.)' 21;2' 'B1)2.12 .' 0* 2,12' ' .')6-0/' D1-2*' 1;,'D ') .'.1/,6- '_;1,6, 12' -1?' =*2.*-' I@ 9 ' ' 'QXT' 1-' % ' 81;/0' D*,,*-' L=-*..' ,)*' .*2.*% 2' :1//620 .' 1/0' ,-62./6, 12' 1' 'M=% W 8 ' '620' 2 % '6-*';.*0'6.' . 2C' 12 ?* % 2',)*' D/*' 1' ' 6?% 'K ' .',);.' *?=/1A7*0J' M ,,1X% 2'=- ? , +*', ?*.' .;>)' 6'=*-.12' 6===*6-.',1')6+*' D**2' 6==1 2,*0',1'=-*.>- D*' A;..'/ ? ,.' ,1' .;>)' 6.' 8*-*' ??10*-6,*' 2',)* -' 0*?620.' 620' 2^ ,*-=1.*') .'6;,)1- , '8 ,)',)1.*' 8)1' *L>**0*0',)*' 6.^ . 52*0' D1;20.' 1',)* -' >6;.*% ()*' /6 25',)*')620' 12' D1,)' ?6 '6//;0*',1' .1?*' =6-, >;/6-'>*-*?12 T D;,' '+* 0*2,/ '6/.1'-* *-.',1',)*' =18*-' 1 '>1*-> 12' 8) >)' ,)*' >1;/0' *L*-> .*' 1+*-' D1,)' =6-, *.% **' ! 6 C.=- 25' M :7P' " "(' B1D' LLL+/ ' K' */.*8)*-*' ;.;6// ' ?1-2 25TJ' O 8' ;9*' ' Q' */.*8)*-*' *6.,JX' . 52 *.',)*' -.,'.,-*69.' 1 '0;A' C' / 5),',)*' 0682' 1-' 06 CD-*69T' 620' 2',)*' 1-?*-' 1' ,)*' 6D1+*C>,*0'=6..65*.' ,' .';.*0' 2' ,.'/,*-6/.*2.*% () .'=1-, 12' 1',?*' 86.'6,'6/6,*-'=*- 10' 2' ?,6, 12' 1',)*' *-. 62.'0 + 0*0' 2,1',81' =6-,.',)*' -.,' 1' 8)>)' D*562' 8)*2',)*' *6.,*-2',)*' .*>120' 8)*2',)*' 8*.,*-2' 0 + . 12' 1',)*' 1)- [12' 86.' //;? 26,*0% **' s '4 ' ' ! 2',)*' /6,,*-'=6..65*' " 'D -,)' 1 'B1)2',)*' 6=, .,' .'D*6;, ;// '>1?=6-*0',1',)*' *6-/' ,8 / 5),'=-*>*0 25',)*' - . 25' 1',)*' 5-*6,'?1-6/ .;2' ,)*' <*.. 6)'M>1?=*<6 % +'KT' .6% L' CN7' K' 1-% + SX%' **' #!

6 C.,6-'I1U8 U%[% ' " 3 * '8)Z72>*' %" 9 %" 8' ',)*'?1?25C.,6-'=;,'MK' *,%' ' RX'6.' ,)*'*?D/*?'1',)*'0682'1'.=-.;6/'/5),'620'>1? 1-',1',)*'D*2 5),*0'620',-1;D/*0'? 20% **')$! ' *6>12' 25/>[*0' -1?',)*' 4-%$) ' 6,% M;.;6// '0*- +*0 -1?7,0'620 >1+,>_%0% 12*' -1?'-;22 25TJ'D;','D*,,*-' -1?'62'1D.1/*,*' 7 0C')8'1-'B,B DP' ,1'-;2 J'1-')6.,*2' 9 20-*0'8,)' (3' ,1' =;-.;*a')*2>*' .,- >,/ '6' ' % *' ?*..*25*-' .',,?622' ' I' 'K QCKK X'6' 'M6.'1,*2' -*2^ 0*-*0X' %=-1=*-/ '1',)1.*' 8)1'6,,*20' 12' 5;*.,.'1-' 6,'6',6D/*'6' 'MB1)2' S'RT' .1' 1/ D% LLL ' T' d*21=)% ' ' 'KX% ?125',)*' 4-**9.',)*.*' $) '8*-*' 6') 5)*-'>/6..',)62',)*' O '1-' M ,)*2%'L '=% RK'DX%' K% 4*2*-6// '620'8 ,)',)*' 26?*' 1',)*' ?6.,*-'1-'=*-.12' .*-+*0'6' 'M6.' ,' .';.:.^ 6// '-*20*-*0' 2',)*' %(%X M<6,,'LL 'KST' LL ' T' <6-9' L 'N T' L ' NT' .1' d*21=)% '+ 'N'QX% /.1' 62' 6,,*2062,'1 ')-.,'6' % 'MB1)2' L 'KSX' 1 '6' 9 25' M<6,,'LL ' NX'620')*2>*' 1 '410' M 1?% L ' X% N% =*>6// ' 2'-*/6, 12',1',)*' 41.=*/620',)*');->)' 6' ? 2.,*-'1-' "'I !8'1',)*'=*-.12' 1-'8)1?'12*' ? 2.,*-.'M ' 1-% ' T' K' 1-% 'ST' + ' T' ' ()*.% ' KT' K' 1-% L 'KNT' 1/% ' T' =)% + 'K a' 1/% +' T' 'KST' 620' D ' 62, ,)*. . ' 1 ' 6,62' K' 0-% L ' X% M %X' (*>)2>6// '62' 1 >*-' 1',)*' =- ? , +*');->)' 6' 'M) /' ' T' ' (?% 'Q' KT' + ' ST' .*** >,.' ; 5E' % ' ' " '7'- ' % '()*' 1 >*' 0*.>- D*0' D ' ,) .',,/*' 6==*6-.' ,',)*' (% 6.',)*'>1--*/6, +*' 1 ' =' ,),--, 'D .)1=' 1-' =-*.D ,*-' M % +%X% ()*' ,81' 6-*' ?*2, 12*0',15*,)*-' 2') /' ' T' (?% 'K' Q' ()*' ;2 12' 1 ',)*' ,81' 2',)*' *=,' 1 ' .6% /L' ' ?6 ')6+*' .;55*.,*0' D1,)' 6.' ,' ,/*.' 1-',)*' 1 >*-.' 1 ',)*')-.^ , 62');->)' 1-')6+*' /*0',1',)*' 601=, 12' 1' 12*' 6 ,*-' ,)*' 1,)*-' D**2' >)1.*2' 12' 20*=*20*2,' 5-1 720.% ()*' >1 2> 0*2>*' 6,' 6// *+*2,.' .112' 6,,-6>,*0' 21, >*' 620' 86.' 6==*6/*0',1' D ' /*?*2,' 1 ' 1?*' M ' 1-% L/ X' 6.' =-1=)*, >% 9*' ?1.,' 81-0.' 1 ' . ? /6-' ?=1-,' ,' 6==*6-.',1')6+*' D**2' -.,' ;.*0' 2' ,.' 5*2*-> .*2.*

?=/ 25' .;D1-0 26,*'6>, + , 'M ' 1-% ' T' K' 1-' + X' 620'6 ,*-86-0.',1')6+*'56 2*0'6' ?1-*'0* 2*0'>12^ 21,6, 12C6.' 6==/ *0',1' 6' 0 ., 2>,'D10 ' 1 ' ?*2' 2',)*')- ., 62'.1> *, J'M ? ,) '.%+%X% K% ()*'1- 5 2'1 ',)*'1 >*' 1 '0*6>12' 2',)*');->)*' .' ;.;6// ' .;==1.*0',1'D*' 0*.>- D*0' 2' >,.' + ' CS% ()*' :*//*2 .,>'B*8.' >1?=/6 2*0',)6,' ',)* -' 8 018.' 8*-*' 2*5/*>,*0' 2',)*'06 / '? 2 .,-6, 12.%J' ()".'2*5^ /*>,' ?6 ' D*' 6.>- D*0' * ,)*-',1' ,)*' 6>,(',)6,'),)* -' 8 018.' 8*-*' 21,'92182'D* 25'6.' 1-* 52*-.'1'6'.1?*^A 8)6,'D6>986-0'.= - ,'1-'=1.. D/ '6/.1',1'.1?*A*6/1;. ' *L ., 25' D*,8**2',)*' =-1=*-' : *D-*8.' 620',)* -'9 2^ 0-*0' -1?',)*-' /620.% ' -.,' ,)*' 6=1.,/*.' ,)*?^ .*/+*.' 8)1',)60',)*'>)6-5*' 6/.1'1 ',)*'>1?? 12' ;20' M >,.' + ' N T' + ' KX' .;=*- 2,*20*0',) .' .*-+ >*' *?^ =/1 25' 2,*-?*0 6,*' 65*2,. ' 1;25' ?*2' 1 ',)*'>12^ 5-*56, 12'=-1D6D/ 'M =,.'+' S X'8)1')60'5 +*2'>6;.*' 1-',)*'>1?=/6 2,'218'?*2, 12*0% 2'=-1=1-, 12')18^ *+*-'6.',)*');->)'*L,*20*0',)*'?1-*' ?=-6>, >6D/*' 0 0',D*>1?*' 1-',)*?',1'5 +*',)*?.*/+*.',1'.;>)'1;,^ 86-0'>12>*-2.' 8 ,)1;,' ',1',)*-'=-1=*-'.= - ,;6/ 81-9' ` ,' .' 21,' -*6.12 ' .6 0',)*',8*/+*' `,)6,' 8*' .)1;/0'/*6+*',)*'& 1-0'1 '410'620'.*-+*',6D/*. ',)6,' .' .;=*- 2,*20',)*'06 / '/1+*C *6..,' 620',)*' 0 .,- D;^ ,12' 1' 6/?.% 2'.)*' >,.' 20**0',)*.*'1 >*-.'6-*' ., /*0' . ?=/ ' ' .(--0',)*'.*+*2'MLL 'QX'620'21,'0*6>12. ' ',)6,' .' .*-+62,.' 1-')*/=*-.T D;,' ,)6,',) .' 86.',)*-' >)6-6>,*-' 8*' 9218'=6-,/ ' -1?',)*',*-?.') ' ") N#N' -% 1 ';.*0'1',)*-'1 >*'M >,.' + ' KX' 620'=6-,/ ' -1?'6/?1.,';2 +*-.6/*L*5*, >6/,-60 , 12% M()*'62> *2,');->)'*+*2')*/0',)*'.6>-*0'2;?D*-'.*^ *2' 2',) .' >6.*' 1'1D/ 56,1- ' 1->*T 620'6,' 1, *' 1-' *L6?=/*',)*-*' 8*-*' ., // 6.'/6,*' 6.',)*',) -0' >*2,;- ' 12/ '.*+*2' 0*6>12.'6/,)1;5)',)*'2;?D*-'1 'A -*.D C ,*-.'6?1;2,*0',1' 1L, XJ'M >)6 '&% ' " "'g N X% % 1?*' 8-.,*-.'M*% 5% <1.)*?' ! >*2,' 'g N X ?6 2,6 2',)6,',)*' .*+*2J' 8*-*' 6==1 2,*0'21,',1'>6-*' 1-'6/',)*1=11-'6,'B*-;.6/*?'D;,'12/ ' 1-',)g' 8 018.' 620'=11-'1',)*' 4-**9.' 1-' 1-* 52*-.% () .'+ *8' .;=^ =1.*.',)6,' .?/6-' 1 >*-.')60'=-*+ 1;./ ' *L .,*0',1' 0 .>)6-5*',)*.*' ;2>, 12.' 1-',)*' 5*2*-6/);->)'M.1' 12 D*6-*'620':18.12' ' $! ' ' S T' &)6,*C / ') ' ' "(' : 20.' 6 ' " 1 (8! ,62/* 'I1&% '& ' =% SK' ._%' .;==1.*.',)6,'),)* .*+*2J' 8*-*' 21,'0*6>12.' .;>)'6.' 8*' 20' 2',)*' /6,*-' =*- 10'1',)*'6IX1.,1/ > 65*' ',)1;5)',)* I7?6 '=1.. D/ ')6+*' D1-2*',)*' 26?*'620',)1;5)',)*-*' 86.' 2' .1?*' -*.=*>,' 6' / 9*2*..' D*,8***2',)*' -'-.=*>, +*' 0';, *.%J' M 1?=6-*'12',)*'1,)*-')620' >)6 '&% ' " "' g' N X% -%& % /*L620*-' 2' ,,1 .' % ' M.% x 6..*-,.',)6,',.'21,'*6. ',1'A;., 7',)*'6..;?=C 3,12',)6,',)*' .*+*2J' 8*-*' 0*6>12.' 2',)*'/6,*-'..*2.*% ' 1,) 25'>62'D*'0-682'-1?',)*'?*62 25'1',)*'81-0' ") '6.% 6==/*0',1',)* - ;2>, 12.' M+*-% X' 1-',) *T 81-0'7,6>171>'6.' ',) .', /*')60'D**2' 1- 5 26// '0*^ - +*0' -1?' ;>)'6' `.*-+ 25'1',6D/*.'6.' .') *-*' -* *.^ -*0',1'D*>6;.*',)*.*' 81-0.'6-*' ;.*0' 2',)*' % (% 8 ,)' ,)*' ;,?1.,'/6, ,;0*' 1'?*62 25'.166',1' 2>/;0*' *+*- 7 9 20' 1' .*-+ >*' -*20*-*0',1',)*');->)'1-' >6;.*' 1' 410'12'*6-,)' ,)*.*-+ >*' 1'=*-.D ,*-.'L 'KN' T' 1/% ' ' *,>%X' 1' *+625*/ .,.' M' ()*..% 'KX' 1'6=1.,/*.' M >,.' LL 'K T' LL ' RT' 1?% L ' NT' K' 1-% + ' ' *,>%X' 1' =-1=)*,.' M ' *,*-' ' KX' 1'625*/.' M :>D% ' X' 1 ')- .') ?.*/' M 1?% L+' QX' 6.' 8*// QQ' .*-+ >*' 2',*?=1-6/?6,,*-.% 1-'>62'?;>)'8*5),' D*' 6,7>)*0',1' =6,- .,>',.,?12 ' 12',) .')*60' D*^ >6;.*' 8*)6+*' 21' >/*6-' 0*>/6-6, 12' 2' 6+1-' 1 ',)*'=1^ . ,12'6..;?*0'*6-/ *-',)2=',)6,'1 ',)*' . L,)'%4*2*-6/ % ' 1;2>/ 2'(-;//1X')*/0' % %SQ T' 6/!',)*'*6-/ *-' 8 ,^ 2*..*.' .=*69' 1 ',)*'0 6>126,*' 2'>122*>, 12' 8 ,)' .= -^ ,;6/ .*-+ >*.' 1-',)*' - ,*.' 1 ',)*');->)% ' ?1-*^ 1+*-',) .' 86.',)*' 2., ,;, 12'1'6'7-?62*2,'1 >*' 2' ,)*');->)*' 1-' ?62 ' *6-.'620'>1?*' ;=' 656 2' 1-',)*' -.,', ?*' 2' ,)*' 1-?' 1'62' 2> 0*2,6/ 21, >*' 2'62'*= .,/*' 8-.,,*2' 2',)*' /6,,*-')6/'1 ',)*' -.,' >*2,;- % (69 25',)*' 26--6, +*' 2',)*' >,.' 2' ,.'>122*>, 12'8 ,)',)*')..,1- 1' 1'8)>)' ,' 1-?.'6'=6-,',)*'6==1 2,?*2,'1',)Y'.*+*2' D-*,)-*2')6.'6/!',)*'6==*6-62>*' 1'6',*?=1-6- '*L=*^ 0 *2,',1'?**,'6'=*>;/6-'*?*-5*2> %J 1?*'8-.'?6 2,6 2',)6,',)*'1 >*'1',)*'.*+*2J' >1--*.=120*0',1',)6,'1',)*' B:' " // ' 2',)*'B*8.)' 26515;*',)*' *% * *'1-' ? 2 .,*- J' 1',)*' %(% M ;9*' +'K T' B1)2' +/ 'NKX% () .' .',)*' 1= 2 12'C1' ,- 256'I' '$ 'N '=%QR' ._%T *-26-0 .' - !' =%Q' ._%X'8)1.*' =- 2> =/*',)6,',)*' 1-0*-' 1',)*')- ., 62' >) ;->)*.' 86.' >12.,-;>,*0' 12',/*' ?10*/1' ,)*' . 26515;*.'/*0' ?',1' =-*..',)*' 626/15 'D*,8**2' ,)*',81' 2' *+*- '=1.. D/*' 86 I% ;,' 1-',) .' 1= 2 12' ,)*-*' .'21'.1/0' .;==1-,% ,- 256 .'?6 2' =- 2> =/*' .' ,.*/' ;2.1;20' 1-' 21,) 25' >62' D*' ?1-*' *+ 0*2,',)62' ,)6,',)*' 6=1../*.' =-1>**0*0' ;=12' 21' =-*6--625*0' .>)*?*' 1 ');->)' =1/> T D;,' 2.,,;,*0' 1 >*.' 620' 6==1 2,*0';.65*.'A;.,'6.'> ->;?.62>*.'-*_;-*0' 620' 6.'-*.=*>,.',)*'0*6>12 .'1 >*' ,'>6221,'D*' .)182',)6,' 12*' 1',)*'0;,*.'=*-,6 2 25',1',)*'1 >*' 1' " // ' 2' ,)*'. 26515;*'D*/125*0',1',% .':6-,?622'-*?6-9.' >6 'N 2 !' '& '-!' !'7!'=% KQ X',)*' " // ; 86.P06?*-*%.*-+62,'8)1.*' ;2>, 12.'-*.*?D/*0',)1.*' 1',-'.*L,12'1-'>);->)'1 >*-'IM ,,1' % ' .% T .*' 6/.1' *620*-' ' - " !' " "' /620.',-62./6, 12' 'N '._%X% ** # $! N% ;' 8)6,*+*-'+*8'?6 'D1',69*2'1' >,.' + ' , 6==*6-.' >/*6-',)6,',)*' /6,*-' >);->)'1 >*' M)/' T' (?% X'0*+*/1=*0',.*/' -1?',)*'1 >*'0*. 526,*0' 2' >,.' + '620'?6 'D*',-6>*0'D6>9',1',% ()*' ;2>^ ,12.'1',)*'0*6>12'8*-*'=- ?6-/ '.*>;/6-'D;,'.112'-1.*' 2,1'.= - ,;6/?=1-,62>*% : *2>*',)*' '?1-6/ _;6/ C'd' >6, 12.'0*.>- D*0'2' '(?% '6.'2*>*..6- ' 1-',)*'1 >* 1'0*6>12'6-*' .;D.,62, 6// ',)*' .6?*'6.',)1.*'1',)*' D .)1=% ()*'0*6>12.')18*+*-'8*-*'21,'-*_;-*0',1'D*' 5+*2',1')1.=,6/ ,'21-',1'D*'6=,',1',*6>)% ,'86.' *21;5)'1-',)*?',1'')1/0',)*?.,*-'1',)*'6,)'2'6' =;-*'>12.>*2>*%I' ()*'1'8*-*'21,',1'56 2',)*'-'/+25' D'0.-*=;,6D/*'1>>;=6, 12.' %)1%" 8! 2' 1 *-25',)*?./+*.'1-',)*-'81-9',)*'8*-*',1'D*'.;D^ A*>,',1'6'.,-,>,'.>-;,2'M' (?% ' X'620' ',) .'*20*0' .6, .6>,1-/ '8*-*',1'*2,*-'12' ,% ,'01*.'21,'6==*6-' ,1')6+*\2*>*..6-/ h'D*/125*0',1',)*'1 >*'1'6'0*6>12' ,1',*.*)'=;D/>/ ' 2',)*'>);->/ ()*=1..*.. 12'1' 62 '.=*>6/ M.=-.,;6/*2018?*2,X'81;/0'/*60 26,;-6// ',1'6')5)*-'81-9'620'1 >*'D;',)*'0*6',)6,',)*'0 6>126,*'86.'D;,'6'=-1D6,12',)-1;5)'8)>)'6' Z ?62')60',1'=6..'D*1-*')*>1;/0'D*'62*/0*-'1-'D .)1= 86.'1-*52',1',)*'>12.,,;,12'1',)*');->)'1',)*' -.,'>*2,;- % &)6,*+*-'>1;2,*262>*',?6'-*>*+* ' 1,) 25'>62'D*'0-682'-1?',)*'?*62 25'1',)*'81-0' -1?',)*'>1?? 12'=6,- .,>' 2,*-=-*,6, 12'1'' (?% N'M>1?=% .,;.'620':6?? 120'60'/1>%X',7-*'>62'D* /,,/*'01;D,'M6.'6//',)*') 5)*-'1-0*/'1'*L=1. ,1-.')6+* *,'>1?=% &*. 25*-'620' // >1,,'60'/1>%X',)6,'8)*2' 6;/.=*69.'1',)*') O '$,% '1-'5110'0*5-** I' 8)>)'.'56 2*0'D',)1.*'8)1'01',/L*'1 >*'1'6'0*6>12' 8*// ')*-*'-.',1',)*')121-'8)>)'D*/125.'*..*2, 6// ',1',)*'/18*-'81-9'21,',1',)6,'8)>)',)*'8*-*',1' 20' 2' =-1?1, 12',1'6')5)*-J'M ? ,)'.% +%X% 2',)*' 1,)*-'. 0*' -% ()1?6.' >1,,'.6 .'I '12' '(?% QC NX' ()*'0*6>12.'8*-*'=- ?6-/ '6==1 2,*0',1' 0 .=*2.*',)*'>)6- ,'1',)*');->)'620',1'?6265*' .' .*>;/6-'>12>*-2.% *,',)*'=-*6>)*0'1>>6. 126// '1-' .6;5),' 2'=- +6,*'1-'8*-*'-*60*-.' 2',)*'=;D/>'6..*?^ D/*.' 620'=6..,1-.' 620% *+625*/ .,.' 8*-*' >)1.*2' -1?' 6?125',)*?% ()' 2,*-=-*,6, 12')6.' D**2'>12,*.,*0

*,' ,' . ** ? .' ,1' D*' ,) *' 6=1../* .' ? *62 25† 620 ' 8 ,) 1 ; ,' 60+*-, 25',1' ? 10* ? ') 6D , .' 620' >12,-1+*-. *. ' ,' .' *+ ^ 0*2,' ,) 6,' ,) *' 0 ; *' 0 .>)6-5*' 1 ' ,) *' =- ? , +*' 1 >*' 1 ' 0*6>12' ? ; .',*20',1'_; 6/ ' ? *2' 1-',) *' ? 2 .,- %J ' ' '" ' 6 '* =&% ' " " ' ( ) 6,' ,) *' 0 ; , *.' 1 ' ,) *' .*+*2' 0*6>12.' 8 *-*' 21,' 1 '62' *L>/ ; . +*/ ' .*> ; /6-' >) 6-6>,*-' .' >/*6-' -1 ? ',) *' 6>,' ,) 6,' D1,) ') / =' 620' ,*=) *2' =-*0>) *0 ' 620' ,) 6,' 12*' 1 ' ,) * ? ' 6/.1' " %1' / ! ' .' .,-625* ' ,) *-* 1-*' ,) 6,' ,) *' ,*2,) ' >* 2 ,; - X' 5 +*.') .' ,*., ? 12 ' ,1' ,) *' .6 ? *' * *>,' ID ' & !' & % ! E ' =% NNXP ;,' 1==1.*0' ,1' ,) .' 1= 2 12' .' ,) 6,' 1 ' .1 ? *' 1 ' ,) *' 6,) * -.' 1 ' ,) *')- ., 62') ; ->) ' 1 ' 526, ; . ' 6' ? 6-^ , -0 .0 > =/*' 1 ' ,% B1) 2 ' 620' D .) 1= ' 1 ' 2, 1>) ' M ' X' ., /*.' ,) * ? ' 6,' 12>*' ? 2 .,*-.' 1 ' ,) *' ? .,*- *.' 1 ')- .,TJ' 600 25',) 6,' ,) * ' 6-*' 21,' ? 2 .,*-.' 1 ' ? *6,. ' 620' 0- 29. ' D ; ' 1 ' ,) *') ; ->) ' 1 ' 410' M 526,% 6%!' ' - ' 2% KX% 56 2') *' .6 .' >6%!' ' - ' 2% NX' ' ,; OE' ,1' 01' 6// ' ,) 25.' 2' 0 + 2*' >12>1-0 ' ; 20*-' 1 ; -' D .) 1=' =-*. 0 25' 2' ,) *' =/6>*' 1 ' 410 ' 620' ,) *' =-*. D ^ ,*-.' 2' ,) *' =/6>*' 1 ' ,) *' 6=1.,1/ >' .*26,*' 620' ,) k' 0*6^ >12.' ? 1.,' 0*6-,1' ? *' 6.' ,) 1.*' ,1' 8) 1 ? ' .' >1 ? ? ,,*0' ,) *' ? 2 .,- ' 1 ' B*. ; .')- .,,J' (*-, ; // 62' M ' KK X' >/6..*. I,) * ? ' 8 ,) ' D .) 1=.' 620' =-*. D .*-.' 6.' 5 ; 0*.' 620' /*60*-.',1',) *' /6 , % : *' 6.9.' M (*-, ; //% ' ' 6 1'>% X' ' # ; ; ?' =. ' 6 ; >,1-7 ' 0' *.,' =. ' 6>12 ' -*. D .*-. ' *,' = .>1=' ; 5 ; 2, ' _ ; 1 ? 101' 6 > ; .' 2,*// 5*-*' =1,*^ 2 ,H ' ' ; ?' ;>*.' ;5 ; 2,' _ ; .' 0*' 5-*56- 1' 2 ; ? *-1' . ; ., 2*D ,HJ' =- 62 ' D .) 1= ' 1 ' 6-,) 65* ' % % K7 ' M 8) /*' -* *-- 25',) * -' 1- 5 2',1' >,.' + X' ., /*.',) *? ' ? 2 .,*-.' 1 ' *= .>1=6> ' 620' 1 ',) *') ; ->) ' M =-% 6%!' S ' 6/% N ' '5 !1' 6,',) *' .6 ? *' , ? *') *' 6..*.,.',) 6,' ,) * ' 8 *-*' >6//*0' ' ' ,1',) *' ? 2 .^ ,- ' 1 ',) *' 6/,6-% ( ) 1 ; 5) ' B*-1 ? *' 2' 12*' =/6>*' .=*69.' 1 ',) *' ? 2 .^ 1 ',6D/*.' 620' 8 018 .' *,' 656 2') *' -629.' ,) * ? ' 6 ? 125' ,) *' 5; 0*.' 1 ',) *' =*1=/*d ., // D*' 0 .,25; .) *.' ,) * ? ' -1 ? ',) *' =-*.,.' 1 ',) *' .*>120' 1-0*-' ,) 6,' .' -1 ? ',) *' =-*.D ,*-.' D ',) *', ,/*' $! 20'.1' -*_ ; *2,/ ' 3 2',) *' 1 ; 2> /. ' ,) *' 26 ? *.' $ '620' 1 '6-*' ; .*0' 6.' ,) *' 0 ., 25; .) 25', ,/*.' 1 ' =-*.D ,*-' 620' 0*6>12% ( ) *' 1 ; -,) ' 1 ; 2> / ' 1 ' 6-,) 65Y*' L=-*../ ' 1-D 0.' ,) *' 0*6>12' ,1' 6..; ? *' 62 ' 12*' ;2>, 12' =*>; / 6-' ,1' ,) *' =-*.,) 110 ' D ' 0*>/6- 25 ' 6>12 ; .' 212' 60' .6>*-01, C' ; ? ' .*0' 60' ? 2 .,*- ; ? ' >12.*>-6, ; .%J' M **' 6/.1' Q,) ' 62% 12% >%X' o : .' 1-0 26,-1 ' ? 1-*1+*-' 0 *-*0' -1 ? ',) 6,' 1 '=-*.^ D ,*-' D1,) ' 2' ,.' 1-?' 620' 2',) *' =18*-.' 8) >) ' ,' >12^ *--*0 ' 1-' 2',) *' 1-0 26, 12' 1 '6' =-*.D ,*-.',) *' =-*.^ D ,*-.' 8) 1' 8*-*' =-*.*2,' 8*-*'-* ; -*0' ,1' A1 2' 2',) *' ? =1. , 12' 1 ') 620.' 8 ,) ',) *' D .) 1=' D ; .',) *' 1-0 26^ , 12' 1 ' 6' 0*6>12' ? 5) ,' D*' =*- 1-?*0' D ' ,) *' ,0.) 1=' 6/12*' D*>6 ; .*' 6.' ,) *' ,) ' 6212' 1 ',) *' ,) ' 1 ; 2> / 1 ' 6-,) 65*' 0*>/6-*.') *' 86.' 1-06 2*0 ' 21,' ,1' ,) *' =- *.,C') 110 ' D ; .',1',) *' 2 *- 1-' .*-+ >*.' 1 ' ,) *') ; ->) ' 9 ! ' % ( ) *' 0*6>12 .' ? 1-*' 1-0 26- ' 0 ; , ' 8 6.' ,1' 6.^ . .',) *' D .) 1=' 620' =-*.D ,*-' 2',) *' .*-+ >*' 1 ',) *' .62>^ ,; 6- ' *.=*> 6// ' 86.') *' >) 6-5*0' 8 ,) ',) *' >6-*' 1 ',) *' ; .*2. /.' 620' 1-26 ? *2,.' 6==*-,6 2 25',1',) *') 1/ ',6D/*% K% 2',) *' 60 ? 2 .,-6, 12' 1 ',) *' ;>) 6- .,',) 6,',' 86.' ,) *' 0*6>127' 0 ; , ' ,1') 620',) *' */*? *2,.' ,1',) *' =*1=/*' .' *+ 0*2,' -1 ? ' B ; ., 2' < 6-, -' I&% ! ' =% KX' 620' -1 ? ' =- 62' I$! ' + ' ' *' 6=. .JX% 1, ') 18*+*-' ,) 6,',) *' 0*6>12') 60' 62 '6 ; ,) 1- , '1-' =18*-',1' 9 1',) *' */* ? *2,.' 1-',) *' ,)' 62% 1 ',) *' 1 ; 2> / 1 ' -/*. ' % C' N K' 1-D 0.',) .% 20',) *' Q,)' 62% 1 ',) *' 1 ; 2> / 1 ' >*' 1-0*-.',) *' 0*6>12.' 21,' *+*2',1' 60 ? 2 .^ ,*-',) *' ;>) 6- .',1' =- *.,.' D*>6 ; .*' 1 ',) * -' 2 *- 1-. , % N% *6>12.') 60' =18*-',1' 60 ? 2 .,*-',) *' .6>-6 ? *2,' 1 ' D6=, . ? ' M (*-, ; //% *' ; % ! ' >% 1' 6/.1' / *-12% ' ' ! ' >% ' =% NRX% ( ) *' 1 ; 2> / 1 ' / D*- . ' 62% ' =/6 2/ ' 6>9218 /*05*.' ,) .' - 5) , ' 6/,) 1 ; 5) ',) *' 6 ; ,) 1-' 1 ',) *' &% ! 1' 620' = =D62 ; .' 6/.1 ' 81 ; /0' .** ? ',1' 0*2 ' ,% % ( ) *' 1 >*' 1 ',) *' 0*6>12 86.' 21,',1' =-*6>) ' .1' ? ;>) ' 6.',1' 2..-;>,' 620' >6,>>D/.*' ,) *' >6,*>) ; ? *2.% : .' =6-,' 86. ' 8) *2' ,) *' D .) 1=' 1-' =-*.D ,*-' 0 0' 21,' =-*6>) ' ,1' -*60' 6') 1 ? / ' -1 ? ' 12*' 1 ' ,) *' 6,) *-.% ,% ?D-1.*' D .) 1=' 1 ' < /62 ' % % NQ ' .6 .' *L=-*../ ' ,) 6,' 0*6>12. ' 2') .' ,' ? *' 7 0 0' 21,' =-*6>) ' ,) 1 ; 5) ') *' ,) 29.' ,) 6,' ,) * ' 8*-*' 6// 1- 5 26// ' *+625*/ ,.. ' 6.' 8*-*') / =' 620' ,*=) *2% % ,' 81.' ,) *' 0*6>12 .' D ; . 2*..' ,1' -*>* +*' ,) *' 1 *- 25.' 1 ' ,) *' =*1=/*' 620') 6+ 25' =-*.*2,*0' ,) *' ? ' ,1' ,) D' D .) 1=' 1-' =-*.D ,*-' ' 5 +*' *L=-*.. 12' 2' 6' ' ' ,1' ,) *' 26 ? *.' 1 ' ,) *' 1 *-*-.' M.**' =-% 6%!' ' 6/% S' =% N ' M : *-12% ! '6/ +!' L+ ' =% SN X% S% *6>12.' 8*-* .1 ? *, ? *.' 6 ; ,) 1- [*0 ' 6.' ,) *' 0.) 1=. ' .=*> 6/0*/*56,*. ' ,1' 5 +*' ,1' =*2 ,*2,.' ,) *' .1/*? 2' ?=1. , 12' 1 ' D620. ' 8) >) ' 86.' ,) *' . 52' 1 ' -*>12> / 6, 12' M 77=-% 6%!' N' 6/% Q' ' 6 !E' % *6>12.') 60' =18*-',1' . ; .=*20',) *' 2 *- 1-' >/*-5 !' ,) . ') 18*+*-' 86.' 012*' 12/ ' 8) *2' ,) *' D .) 1=' 620' =-*.D ,*-' 8*-*' 6D.*2, ' 620',) *' >6.*' ; -^ 5*2,' I !' &% ' + ' KQX% Q% ( ) *' 1-0 26- ' 0 ; , ' 1 ' 0*6>12.' 8 ,) ' -*56-0',1' 5*2*-6/ 1 ; 2> /.' 86.' ,1' 6>,' 6.' .>- D*.' 620' 0 .=; ,62,.' 6>>1-0 25' 6.' ,) * ' 8*-*' 0 ^ -*>,*0' D ',) * -' D .) 1=.% 2' .1 ? *' 2.,62>*.' ,) * ' +1,*0' 6.' =-1L *.' 1-' D .) 1=.' 8) 1' >1 ; /0' 21,' 6,.*20' 2' =*-..12' D ; ,' 2' 21' 2.,62>*' 01' 8*' 20',) *' ? ' +1, 25' 2' 6' 5*2*-6/ 1 ; 2> / D ' + -.,*' 1 ' ,) *' -' 1 >*% ; ,' 2' =-1+ 2> 6/ . 210.' ,) *' 0*6>12.' 8*-*' .1 ? *, ? *.' 6//18*0' ,1' 5 +*' ,) * -' +1 >*' 6.' 8*// 6.' ,) *' =-*.DAI,*-.' 2' ,) * -' 182' 26 ? *% R% ( ) *' &% ' 'M ' S ' =% Q X' 2 1-? ' ; .',) 6,' 12*' 1 ',) *' . ; D1-0 26,*' 0 ; , *.' 1 ',) *' 0*6^ >12' 86.',1' =-1+ 0*' =/6>*.' 2',) *' >) ; ->) ' 1-' =*-.12.' 6.' ,) * ' *2,*-*0 ' 7,1-*D ; 9*' 62 ',) 6,' ? 5),' 8) .=*-',6/9 ' /6 ; 5) X' *,>% 0 ; - 25' 0 + 2*' .*-+ >*% ( ) .' 86.' 6' 0 ; , ' 8) >) ') 18*+*-' ; .; 6// '0*+1/+*0' ; =12',) *' .; D0*6>12% % ; ,' D*. 0*.' ,) *' 6D1+*' ,) *-*' 8*-*' .1 ? *' 1,) *-' 1 ^ >*.' 8) >) ' ,) *' 0*6>12' 86.' >6//*0' ; =12',1' // 6D-160% 2*' 1 ',) *.*' 86.',1',69*' >6-*' 1 ',) *' 2*>*.. ,1 ; .' 1-^ =) 62.' 8 018.' ? 6-, -.' 2' =- .12' 620' 6// ,) *' =11-' 620' . >9' 8) 1') 60' 62 ' >/6 ?' ; =12',) *' = ; D/ >' -*.1 ; ->*.6' 1 ' ,) *') ; ->) % ,' 86.' 6/.1') .' *.=*> 6/0 ; , ' ,1' 21, 0>',) *' .= - . ; 6/ ' 6.' 8*// 6.' ,) *' D10 / ' 862, .' 1 ',) *' =*1=/*' 620' 8) *-*+*-') *' 0*,*>,*0' *+ /.' 8) >) ') *' >1 ; /0' 21,' D ') .' 182 ' =18*-' 620' 6 ; ,) 1- , ' >; -*' , ' 86.') .' 0 ; , ' ,1' -= *-' ,) *? ' 1-' -*0-*..',1',) *' D .) 1=% 2' 5*2*-6/ ',) *' 2 ; ? D*-' 1 '0*6>12.' +6- *0' 8 ,)' ,) *' 862, .' 1 '6' =6-, > ; /6-' >) ; ->) % 1[1 ? 12' M+ ' R' =% X' 2 1-? . ' ; .',) 6,' ,) *') ; ->) ' 1 ' 1-2*' 6 ,*-' ,) *' 6=1.,1/ >' ? 10*/' 2*+*-') 60' ? 1-*' ,) 62' .*+*2' 0*6>12.% ,' 86.' 21,' , //',) *' >/1.*' 1 ' ,) *' ,) -0' >*2,; - ',) 6,' 0*6>12.' 8*-*' 1-D 00*2',1' ? 6-- % ( ) *' 1 ; 2> /' 1 ' 2> -6' % % N ' 2' ,.' ,)' 62% ' 1-06 2.' ,) 6,' '6' 0*6>12' 0*>/6-*0' 6,' ,) *' , ? *' 1 ') .' 1-0 26, 12' ,) 6,') *' 81 ; /0' ? 6-- ' D*' .) 1 ; /0' 21,' D*' 0*=- +*0' 1 ') .' ; 2>, 12' ') *' 0 0' ? 6-- ' D ; ,' ,) 6,' ') *' ? 6-- *0' 8 ,) 1 ; ,') 6+ 25' ? 60*' .; >)' 6' 0*>/6-6, 12 ' ') *' ? ; .,' 6// 2,1',) *' 629' 1 '/6 >. J ( ) *' 4 '-*_ ; -*0' 2' 0*6>12.' D ' ,) *' =- ? ^ , +*')2->) ' 8*-*' ,) *' .6 ? *' ,) 6,' 8*-*'-*_ ; -*0' 2' D .) ^ 1=.' 620' =-*.D ,*-.' 620' ,) *' >) 6-6>,*-. ,>.' 1 '6' 0*6^ >12' 5 +*2' D ' ,% 6 ; / 2') .' *>120' = .,/*' 1' (?1^ ,) 8*-*' ,) *' -; /*' D ' 8) >) ' 6' >620 06,*' 86.' A ; 05*0C ' 1-' .;) ' 62' 1 >*% ( ) *' .*>120' 1 ; 2> / 1 ' 6-,) 65*' ,) ' 62% ' 1-D 0.',) *' 1-0 26, 12' 1 '6' 0*6>12' D* 1-*' ,/ *' 65*' 1 ',8*2, C +*' 620' D1,) ',) *' + / 620' 621 / 68' 6.' ? 6 ' D*' .**2' 2' B ; ., 62 ' 7 12!' KN' >% ' L*0') .' 65*' ,1' ,) *' .6 ? *' =*- 10% ( ) *' 1 ; 2> / 1 ' 610 >*6 ' % NQ ' 1-D 0.' 6' 0*6>12' ,1' . ' ,' 2' ,) *' =-*.*2>*' 1 '6' =-*.D ,*-' 620' ,) *' 62% 1 ',) *' -.' 1 ; 2> / 1 ' 6-,) 65*' -*5 ; /6,*.' ,) *' 2 ; ? D*-' 1 'A ; M75*.' 6,' *>>/*. 6.,>6/',- 6/. ' ,) -**' D .) 1=.' ; =12' 6' 0*6>12' . L' ; =12' 6' =-*.D7 ,*-' 620' ,8*/+*' ; =12' 6' D .) 1=% ( ) . ' 81 ; /0' ? 6-9' ,) *' -629' 1 '*6>) ' 1 ',) *' =6-^ , *.% - 5 26// ',) *' 0*6>12.') 60' D**2' ,) *') */=*-.' 1 ' ,) *' =-*. 0 25' */0*-' 1 '6' 5 +*2' 0 .,- >,% &) *2',) *' ,81' 26 ? *.' 1 ',) *' /6,,*-', ,/*' 8*-*' 0 + 0*0' 620',) *' D .) 1=' =-*. 0*0' 8) *,) *-' 6.'% '% ' 1-' 8 ,)' 6' ? 1-*' 6D.1/ ; ,*' 6 ; ,) 1- , ' 1+*-' ? 62 ' */0*-.' ,) *' 0*6>12.' 6=^ =*6-',1') 6+*' D**2' 0*=*20*2,' 0 -*>,/ ' 12') ?' 620' 21,' 12' ,) *' =-*.D ,*-.' 620' 6.' D* 25' D .' ? 2 .,*-.' ,) *

`* *.' 620' *6-.' 1 ' ,) *' D .)1=J' I ' &% !' ' X'
8*-*' ,* ? =,*0',1' .*,',) *? .*/+*.' ;='656 2.',) *' */0*-.%
: *2>*' ,) *' 2*>*.. , ' 1 '/68 .'/ 9*',)1.*' 1 ' !' 7 !' >'
 Q' ! "' +' >' N ' *2A1 2 25' 5-*6,*-') ; ? / , '
620')*2>*' =,1D6D/ ' ,) *' .,-125' /625 ; 65*' 1 ' 526, ; ,'
6.',1',) *' -*+*-*2>*' 0) *' ,1' 0*6>12.' I6%!' ' - '>% Q'
'$!' >% Q%I
 %' 2',) *' ' " "' 0*6>12.' 6-*' 1 ; 20' 6.' 8%
0 ., 2>,' 1-0*-' 1 ',) *' >/*-5 %
 2',) *' 5 ' " ' " "',) *-*' 6-*' .; D0*6>12.'
6.' 8*// ' 0*6>12.' D1,)' 2' 1-0*-.% ( ) *' " '
0 ; , *.' 6-*' ,1' =-*=6-*' ,) *' 6/,6-C/ 2*2 ',) *' .6>-*0' +*.^
.*/.' ,) *' D-*60' 620' 8 2*' 2*>*..6- ' 1-' ,) *') 1/ ' .6>-/I'
0** ' ,1' ? 2 .,*-' 86,*-',1' ,) *' =- *.,' 1-' D .)1=' 6,' ,) *'
86.) 25' 1 ',) 6') 620.' 6,' ?6.. ' ,1'-*60' ,) *' *= ../* ' 7,1
6.. .,' 6,' ?6..' 2' ,) *' >6=6> , ' 1 ' 6' 8 ,2*.. ' 620' .**'
,) 6,',) *' =- *.,' D*' 21,'0 .,; -D*0' D ' 62 '12** 0 ; - 25' ,.'
>*/*D-6, 12%J' (1',) *' ' ,' D*/125.' >12.,62,/ '
,1' 6>>1) =62 ',) *' D .)1= I,1' 6,,*20') ?' 8) *2' =-*6>)^
 25 ',1' 6.. .,') ?' 620',) *' =- *.,'6/.1' 0 ; - 25',) *' >*/*^
D-6, 12' 1 ',) *') 1/ ' ? ..*- *. ' 620' 6,',) *' 60 ? 2 ..-6^
, 12' 1 ',) *' .6>-6 ? *2,. ' 620',1' -*67',) *' 41.=*/ 6,',) *'
.6>- 0** ' 1 ',) *' ? 6..%J' % % % %' ' (1',) *' 0*6>12' 6/.1 ' 6.'
,) *' 65*2,' 1 ',) *' D .)1=' ,' D*/125.',1' 2_ ; -*' 620' 6.^
>*-.6 2' 8) 1' 8 ,) 2') .' 0 1>*.*' /*60' / +*.' 1 '= *, ' 620'
*0 >6, 12' 620' 8) 1' 01' 21,7' 8) 1' 6,,*20',) *') 1/ ' .6>C
- 0** ' 1 ',) *' ? 6..' 620',) *' 2.,-;>, 12.' 1 ',) *' -' =6.,1-.
' 620' 8) 1' 01' 21, ' ,) 6,',) ; ' .',) *' D .)1=' ? 60*' 6>_ ; 6 2,^
*0' D ') ?' 8 ,) ',) *.*' ? 6,,*-. ' ? 6 ' D*' *26D/*0',1' 60^
 ? 12 .)' *6>)' 1 *20*-' =- +6,*/ ' 1-' .) 1 ; /0') *' 0** ?' ,'
? 1-*' >120 ; > +*' ,1' ,) *' -' -* 1-? 6, 12' ,1' -*D ; 9*' 620'
>1--*>,' ,) *' ?' = ; D/ >/ % : *' 6/.1' >6//.' 1+*-',) *' 26 ? *.'
1 '>6,*>) ; ? 2.' 620' =-*.*2,.',1',) *' D .)1=.',) 1.*' 8) 1'
6-*' ,1' D*' =-1 ? 1,*0',1' 1-0*-.% 2',) *' 6D.*2>*' 1 ',) *'
D .) 1=' 620' =- *.,') *' .' 6/.1' 6 ; ,) 1- [*0',1' *L=1 ; 20',) *'
41.=*/ ,1' ,) *' =*1=/*' 21, ') 18*+*-' -1 ?' 62' */*+6,*0'
=/6>*' ,1' ? 69*' ,' ; 20*-.,110' ,) 6,',) .' .' 21,' 12*' 1 'D .'
1-0 26- ' ; 2>, 12.J' I ' - !' .*..% LL ' >) %
A X%' ( ) *-*' 6-*' * 5),**2' " ' 2' 1 ? *' 8) 1'
I') 6+*' ,) *' >) 6-5*' 1 ' ,) *' ,*? =1-6/ 2,*-*..' 620' ,) *'
-*+*2 ; *.' 1 ',) *' >) ; ->) %' '=*-.12 ' ,1' D*' >12.*>-6,*0'
0*6>12' ? ; .,' D*' ,8*2, C,) -**' *6-.' 1 '65*' I ' '
- !' .*..% LL ' >% X%
 2',) *' " "' '6 '620' 2',) *' = .>1=6/ >1?^
? ; 2 12.' 2' >1,/620' 620' 1-,)' ?*- >6 ' 6' 0*6>12' -*^
>* +*.' 1-0 26, 12' D ',) *' ?=1. , 12' 1 ') 620.' 1 '6' D .)^
1=' 2' >12.*_ ; *2>*' 1 ' 8) >)') *' >62' =-*6>) ' 6.. .,' 2'
,) *' .6>-6 ? *2,' 1 ',) *' 1-0 .' ; ==*-' 620 ' 5*2*-6// '
? 6 '=*- 1-?' 62 '.6>-*0' 1 >*' *L>*=,' >12.*>-6, 25',) *'
/? *2,.' 620' =-121 ; 2> 25' 6D.1/ ; , 12%' ',) *' .,6, ; ,*'
' 4*1-5*' '>% N ' ,' .' *26>,*0',) 6,' 21' =*-.12' .)6//
D*' 60 ? ,,*0' ; 2, /') *' .)6//) 6+*' 6,,6 2*0',) *' 65*' 1 '
,8*2, C,) -*' *6-.' >1 ? =/*,*T D ; ,',) .' 6>,' .' 0*>/6-*0'
21,',1' 6 *>,',) *' ; 5) ,' 1 '5-62, 25' 6> / , *.' *L*-> .*0'
D ' ,) *' 6->) D .)1=.' 1 ' 62,*-D ; -AJ 620' -? 65)' -*^
.=*>, +*/ ' + [% ,1' 60 ? ,' 6,' *6-/ *-' 65*.T 620' D ' SR'
4*1-5*' '>% S ' ,*>% ',) *' ,8 1' 6->) D .) 1=.' 1 ',) *'
-*6/ ? ' 1-',) *' D .)1=' 1 ' 12012 ' 1-' 62 ' D .)1=' 6 ; ,) 1-^
[*0' D ' 62 ' 1-' *,) *-' 1 ',) *? ' ? 6 ' 1-06 2' 6.' 0*6>12.'
62 '=*-.12.' 8) 1 ? ') *' 1-',) * '.) 6// 0** ? ' 0 ; / ' _ ; 6/ *0'
.=> 6// ' 1-',) *' =; -=1.*' 1 ' 1 > 6, 25' 2') .' ? 6A*.^
, .' >1/12 *.' 1-' 1-* 52' =1..*.. 12.%' ; ,' 21' =*-.12'
.1!f 1-00 2*0' >62' 6 ,*-86-0.') 1/0' 62 ' / + 25' 1-' ,)^
*-' D*2* >*' 2',) *' $2 ,*0' 2501 ? ' 8 ,) 1 ; ' ,) *' =-*^
+ 1 ; .' >12.*2,' 2' 8- , 25 ' ; 20*-') 620' 620' .*6/ 1 ',) *'
D .) 1=' 2' 8) 1.*' 0 1>*.*' .; >) ' D*2* >*' *,>% .) 6//) *' /1^
>6// ' . , ; 6,*0T' 21-' 8 ,) 1 ; , ' / 9*' >12.*2,' 1 ',) *' 6->)^
D .) 1=' 1-' D .) 1=' D ' 8) 1.*' >12.*2,') *' 86.' 1- 5 26// '
1-06 2*0 ' 1-' 1 ',) *' . ; >>*..1-' 1 ' . ; >) ' 6->) D .) 1=' 1-' D .) ^
1=' 2' >6.*' 1 ') .' 0*? .*' 1-' , -62. /6, 12' 21-' 8 ,) 1 ; ' ,
=-10 ; > 25' 6' , *. , ? 12 ' 1 ') .' 5110' D*) 6+ 1-' 0 ; - 25') .'
-*. 0*2>*' 6D-160' -1 ?' ,) *' D .) 1=' 2' 8) 1.*' 0 1>*.*') *'
) 6.' 1 > 6,*0' 1-' M ',) *-*' D*' 21,' 62 ' . ; >) ' D .) 1=X' -1 ?'
,) *' 51+*-21-' 2' >1 ; 2> / 1 ',) *' >1/12 ' 8) *-* 2') *' ? 6 '
) 6+*' ,-*. 0*0' 1-' -1) ',) *' >1/12 6/ .*>-*,6- ' 1 ' . ,6,*'
M.*>% KX%' ',) *' , ? *' 8) *2',) *' / , ; -5 ' 1 ',) *') ; ->) '
1 ' 25/620' 86.' >1 ? =1.*0' ,' 86.' ,) *' 0*6>12 .' 1 >*
 8) *-*' =-1+ . 12' .' .1' ? 60*' ,1' .*6->) ' 1-' ,) *' . >9 '
=11-' 620' ? =1,*2,' =*1=/*' 1 ' ,) *' =6- .) ' 620' ,1' 2, ^
? 6,*' ,) * .-'*.,6,*. ' 26 ? *. ' 620' =/6>*.' 8) *-*' ,) * ' 08*//'
; 2,1' ,) *' >; -6,*J' M,) 6,' . ' ,1' ,) *'-*>,1-' 1-' + >6-') 6+ 25'
,) *' >; -*' 1-' >6-*' 1 ' .1 ; /.X' ,D6, X ') .' *L) 1-,6, 12.'
,) *' ' ? 6 'D*' -*/ *+*0' 8 ,) ',) *' 6/ ? .' 1 ',) *' =6- .) 12*-.'
1-' 1,) *-.J' I5 ' ' + ' ' , 8! ( ) .'
86.',) *' ? 1-*' 62> *2,' 1 >*' 1 ' 6' 0*6>12 ' 620',) .' -; /*'
86.' ? 60*' 2' 25/620' D* 1-*',) *' *.,6D/ .) ? *2,' 1 ',D>'
=11-C/68 . ' 2' =; -. ; 62>*' 1 ' 8) >)',) 6,'>6-*') 6.' 218' 0*^
+1/+*0' ; =12',) *' >) ; ->) 86-0*2.' 620' 1+*-.**-.' 1 ',) *'
=11-' 8) >)' /6.,' 1 >*' 86.' .=*> 6// ' >-*6,*0' 1-' ,) 6,'
= ; -=1.*%
 2',) *' " '6% % ' " "',) *' 0*6>12.' >12^
., ; ,,*' 62' 1-0*-' 2',) *' ? 2 ,.- ( ) *' 6-*' 1-06 2*0'
D ' ,) *' D .)1=' 8 ,) 1 ; ' ,) *' ?=1. , 12' 1 ') 620.' 1 ',) *'
/0-.% >>1-0 25',1',) *' 1-0 26, 12' .*-+ >*' ' ,'6==*-C'
,6 2*,) ',1',) *' 1 >*' 1 ' 6' 0*6>12',1' 6.. .,',) *' */0*-' 2'
0 + 2*' .*-+ >*% 20' *.=*> 6// ' 8) *2') *' ? 2 ..*-*,) '
,) *') 1/ ' >1 ? ? ; 2 12',1') */=') ?' 2',) *' 0 .,- D ; , 12'
,) *-*1 '620',1' -*60' 620' *L=1 ; 20',) *' : 1/ ' >- =, ; -*.'
,1' 2.,-; >, ',) *' 1 ; ,) ' 20' 2',) *' 6D.*2>*' 1 ',) *' */0*-'
,1' D6=, [*% 20' ; -,) *-? 1-*' ,' .') .' 1 >*',1' .*6->)'
1-',) *' . >9 '=11-' 620' ? =1,*2, ' ,) 6,',) * ' ? 6 ' D*' + .^
,*0' 620' -*/ *+*0% J
 2',) *' ' " "' 1 ',) *' $2 ,*0' ,6,*.' ,) *'
1-?' 1 ' 41+*-2 ? *2,J' ..,6,*.' ,) 6,' ,) *' >- =, ; -*.'
>/*6-/ ' =1 2,' 1 ; ,' 0*6>12.' 6.' 0 ., 2>,' 1 >*-.' 2',) *'
) ->) ' 8) 1.*' D ; . 2*..' ,' .',1',69*' >6-*' 1 ',) *' =11-'
620',1' 0 .,- D ; ,*' 6 ? 125',) *' ? ',) *' >1//*>, 12.' 8) >)'
? 6 ' D*' -6 .*0' 1-',) * -' ; .*% (1',) *' ?' 6/.1' ? 6 ' D*'
=-1=*-/ ' >1 ? ? ,,*0',) *' ? 6265*? *2,' 1 ',) *',*? =1-6/'
6 6 -.' 1 ',) *') ; ->) J' M>) 6=% +AX%' ' .1 ? *' -*. D ^
,*- 62' >125-*56, 12. ' 620' 2',) *' -**') ; ->) ' ,) *-*'
6-*' 0*6>12.' -*5 ; /6-/ ' 1-06 2*0',1') 6+*' >) 6-5*' 1 ',) *'
 ; 20.' 1 ',) *') ; ->) %' 2' 1,) *-' -*. D ,*- 62' >) ; ->) ^
*.',) *' 1 >*' ? *-5*0' 2',) 6,' 1 '-; / 25' *0*-.%
 ' ? ' ' " " ',) *' 6.. .,62,' ? 2 .^
,*-.' 6-*' 5*2*-6// '>6//*0C0*6>12.%' ',) *-*' D*' ,81' 6.^
. .,62,..',) *' -.,' 1 ',) *? ' .'>6//*0' " !' 2',) *'
4*-? 62' * 1-?*0') ; ->) ' 2',) *' $2 ,*0' ,6,*.',) *'
 12., ; ,. 12'>) %' '6-,% K'=-1+ 0*.' 6.' 1//18.d ' ( ) *'
1 >*' 1 ',) *' 0*6>12.' .',1' >1//*>, ',) *' 6/? .' 620' 1,) *-' I
>12,- D ; , 12.' 8) >)' 6-*' 0*. 52*0' 1-',) *%-*/ * ' 1 ',) *'
=11-' 1-',) *' 2*>*.. , *.' D ',) *' >125-*56, 12T ,1' 0 .., - D^
; ,*' ,) *' 6/? .' 8 // 25/ ' 620' >12.> *2, 1 ; ./ T 620',1'
=-1+ 0*' 1-',) *' .; ==1-,' 1 ',) *' ? 2 ..- ' 1 ',) *' 41.=*/%J'
 **' 6/.1',) *' 1-?' 1 '1-0 26, 12' 2',) *' 4*-? 62' * 1-?^
*0') ; ->) %
 ? 125' ',) *' 0*6>12.' D*. 0*.' 6,^
,*20 25',1',) *' ,*? =1-6/ >12>* 2.' 1 ',) *') ; ->) ' 6.. .,'
,) *' ? 2 .,*-' 8 ,) ',) * -' 60+ >*',69*' ,) *' /*60' 6,'=-6 *-C'
? **, 25.' 8) *2') *' .' 6D.*2,' *,>%
 ! ' *. 0*.',) *' 81-9.' 26 ? *0' 2',) *' >1 ; -.*'
1 ',) .' 6-, >/*' ,**' *620*-' " "' # ' M (1--* .'
,-62. X ' ' Q ' ._%T 25) 6 ? ' , ! 6 ! D9% '>) 6=%
d d T *5*/ ' " !1" !' & 1' RQ' . %T 68^
 *-' , ' " ! ' >) 6=' L T *L,*-' , ' 9
 !' =% N ' ._%T : 119*-' 6 !' ! ' D9%+
g' QT' : 18*// ' -" ' ' " % M ? % 6=,% ; D%' 1>%X'
) /% Q S' Q ? 1T ; 2>) 6-0 ' ! ' Q '
=6-,' %
 6>12. . ' MH%") E") ' (81'
,) *' , /*' 1 '62' 1 >*' 1 ' 81 ? *2' 2',) *' *6-/ ') ; ->) T 62'
1 >*' . ; ==1.*0' D ' .1 ? *',1') 6+*' 1- 5 26, *0' ; 20*-',) *'
6=1. ,/*. ' D ' 1,) *-. ',1' D*' 1 '/6,*-' 1- 5 2%
 %' ' ' 'I '&% ' (" "! ' ( ) *' , ,/*'
M; . ; 6// ' -*20*-*0' ' 1-' 0*6>12J%' .' 1 ; 20' 2'
1 ? %L+ ' ' 6. .1> 6,*0' 8 ,) ' 6' *? 6/*' 26 ? *' M) 1*D*'
 '1 !) E' 620',) .') 6.' /*0',1' ,) *' >12>/ ; .. 12'
,) 6,' ,) *-*' *L .,*0' 2',) *' 6=1. ,1/ > 65*' 6.F',) *-*' ; 2^
01 ; D,*0/ ' 0 0' 6' / ,,/*' /6,*-' M / 2 ' 6%!' ' - *!(81' 62'
1-0*-' 1 ' 81 ? *2' D*6- 25',) 6,' , /*' 620' *L*-> . 25' 2'
-*/6, 12',1',) * -' 182' .*L ' ; 2>, 12.' 8) >)' 8*-*' 626/1^
51 ; .',1',)) 1.*' 1 ',) *' 0*6>12.%' 2',) .') =1,) *. .' ,'
) 6.' D*** 2' 2 *--*0',) 6,',) *' 81 ? *2' ? *2, 12*0' 2' 1 ? %
L+ ' S K ' D*/125*0',1' .; >)' 62' 1-0*-' M : *-[15' 5 =

6 " !' 'NSQX% ()*'-;/*.'5 +*2'6.',1',)*'>120;>,'1 ' 81?*2' 2' '(?% ' T' (,;.' 'N')6+*' 2'/ 9*' ?62P 2*-' D**2' -* *--*0',1',)*?'M)- .1.,1?' ()*1=) /6>,' : 6? ?120' & *. 25*-' 60' /1>%X% 1?*' 8-.,*-.'M*% 5% 1,)*T >)6 '&% $!' " "' g N X.;==1.*',)6,',)*' 3 '8 018.J' 1' ' (?%+'NC '8*-*' 0*6>12*..*.% :*-^ [15' 12',)*' 1,)*-')620')1/0.',)6,',)*' =6..65*.' "2' (?1,D ' >6221,' D*' 6==/ *0',1' 0*6>12*..*.%J' -% &% /*L620*-' 2' ,,1 .' % 'M.%+%X' ?6 2^ ,6 2.',)6,' 1?%L+ ' '01*.'21,'.)18',)6,')1*D*')*/0' 62 ' 1 > 6/ -*/6, 12',1',)*')1->)T 1-%6/',)6,' 6=^ =*6-.' .)*' ?6 ')6+*' D**2' . ?=/ ',)*' 011-9**=*-' 1-' >/*62*-' 1 ',)*'=/6>*' 1 '81-.) =% /;?=,-*'M 2' ?,).' ' 1'.% +% '.6 .',)6,' ,'.**?.')6-0/ '01;D,;/ ,)6,'8-,*-.')6+*',-62. *--*0',1',)*' *6-/*.,'65*' 1',)*');->)',)*' 1-562 [6, 12' 1'6'/6,*-% ,'86.'1'>1;-.*' 26,;-6/',)6,',)*' *L6?=/*' -*>,'=*-.126/ 6==/ >6, 12' 1' ;20*-,69*',% ()*' .1> 6/-*/6, 12.'1',)*'.*L*.' 2',)*' >,*.'1',)*'*?=-*' M>1?=% 4-1,' '# 'L+ ' X'81;/0' ?69*' ,' ,, 25',)6,',)*' 65*2> '1' 81?*2' .)1;/0' D*' *?=/1 *0'/6-5*/ ' 2',)*' 0 -*>,'=*-.126/ 6==/ >6, 12' 1')-., 62',-;,)'M(,;.' 'N X'=1.. D/ ' 2',)*'=-*=6-6^ , 12' 1' *?6/*' >6,*>);?*2.% +*2',)*' /6,*-' 1-562 ^ [6, 12' ?=/*.',)*'=-*+ 1;.'*L.,*2>*' 1',)*'5*?/.' -1?' 8)>)','86.'0*+*/1=*0% ,'?6 'D*'_;*., 12*0')18)*'*+*-'8)*,)*-',)*'=6..65*.'-* *--*0',1' ?=/ '6'-*>15^ 2.*0'D10 'D*6- 25'6'0 ., 2>,' 26?*% ()*' `8 018.' 1' ' (?% 'NC '8*-*' >/*6-/ '.1' 6- 6.',)*' -;/*' 1 ' +*-% R 86.'6>,*0'12'81?*2' 8)1' 8*-*' 21'/125*-'6D/*' ,1'0.>)6-5*',)*'6>, +*'0;,*.'1'/ *'620'8*-*',)*-*^ 1-*' ?6 2,6 2*0'D',)*');->)',)6,',)*' '? 5),'=6..' ,)*' -' -*?6 2 25'06 .' 2' I=-6 *-.' 2 5),'620'06 % ()*'>120, 12.'1'+*-% '?6 ')18*+*-' ?=/ ',)6,'+*-' ?=/ ',)6,',)1.*' 12/ ' 8)1')60'D**2'=-*+ 1;./ '6>, +*' 2' ? 2 .^ ,*- 25',1',)*'D-*,)-*2'8*-*'*2, /*0',1'.;>)'6'?6 2,*^ 262>*% '**' 6/.1' ;0/18' N (' +' '" ' " "'>)% 'M 120% QSS% % ' ' !' " ' "! ' ()*' =1.,1/ % % ,'>12, 2;*0' 2',)*' 1?62');->)' 1-'.1?* >/ 12., ,;, 12.' 0 ., 25; .)' 0*6>12*..*.J' -1?' 8 018.J' 620' + -5 2. J' 620' =-*.>- D*',)*-'0;,*.% '1-?'1'1-0 26, 12' 1-'0*6>12*..*.' .'6/.1'5 +*2'WD9% + '>% R'K X' 2' 8)>)',)*'D .)1=' =-6 .'6.' 1//18.å ',*-26/ 410' 6,)*-'1'1;-' 1-0'B*.;.')-.,' -*6^ ,1-'1'?62' 620' 1'81?62' ,)1;' 8)1'0 0.,' // 8 ,)' = -,' < -6?' *D1-6)' :6226)' 620' :;/06)' 12/ CD*51,,*2' 12' ,)1;' 8)1'0 0.,'+1;>).6 *',1'6'81?62',)*'D -,)'1',)' 620' 2',)*'(*?=/*'=/6>*' *?6/*' 9**=*-.' 1',)')1/' 56,*. '/119'0182'218'6/.1' ;=12',).',)'620?6 0' 620'D*.,18'12')*-',)*' : 1/' 4)1.,',)6,'.)*' ?6 '81-^ ,)/'=*- 1A?',)*'81-9'>1?? ,,*0',1')*-',1',)')12^ 1-'620',)*'5/1- '1')-.,J'M)6.*' ' '" ' &% '=% KK'M % ' Q QX% 2',)*' 6.,*-2');->)',)*'21, >*.'1'0*6>12*..*.' 2' ,)*' -.,', 2**'>*2,;-*.'6-*' *8'620'./ 5),'6/,)1;5)' -5*2'M 'K NX.=*69.'1',)*' ? 2 .,- '1'81?*2' 2',)*');->)'6.'D1,)'*L ., 25'620'2*>*.-8- % 2',)*' & *.,*-2');->)',)*' 21, >*.'6-*' ;//*-'620' ?1-*'>/*6-% / 2 ',)*' 1;25*-'M6D1;',% % X6=^ =*6-.',1'-* *-',1'0*6>12*..*.' 2').'/*,,*-',1'(-6A62' 2' .=*69 25' 1',)*' _;*., 12' D ',1-,;-*' 1' ,81' ?6 0.' 8)1' 8*-*' >6//*0'? 2.,*-.J' M*L' 0;6D;.' 62> // .'_;.*' I;' 0 >*D62,;-X% (*-,;/$62'MKK X.=*69.' 1' ,)*?'1',*2'620'=-*.>- D*.',)*-'_;6/ >6, 12.'M.**'D*^ /18X% 2',)*' 1;-,)'620' ,)' >*2,;- *.'6//',)*'/*60^ 25' 6.,*-2' 6,)*-.' -* *-',1'0*6>12*..*.'*% 5% 6./ Mm'N RX'4-*51- '1' A .66'M 'NRSX')- .1.,1?'M' X' ()7101-*,'M' X' 1[1?*2'M>-% NRX% ()*101-*,' I16 " !' # ' ' '=% S KX>6//.' ;D/6'8)1'/+*0'6, ,)*',?*'1'B;/62' 3' ? 1+1 ' ' 1[1^ ?*2'M+' ' RX.=*69.'1'6'>*-,6 2'0*6>12*..'8)1')60' D**2'*L>/;0*0');->)'*//18.)=' D*>6;.*' 1')6+ 25' D-19*2')*-'+18.% ,'86.'6'-;/*',)6,',)*'0*6>12*..*.' ?;.'D*' ! (*-,;/$62'M60'2 ' ' T' 'N ' ' >% RX' .6 .' ()*'0.>=/2*' 1',)*');->)'620'6=1.,1/ >' ;.65*'1-D 0',)6,'62'8 018'D*'*/*>,*0';2/*..')6+*' ?6-- *0'D;,' ');.D620%J' N !',.',-;*' 8*-*' .1?*,?*.'60?,,*0'D;,',)6'86.',)*'*L>*=,12% (/f*' 8 018.'?;.,')6+*'D1-2*')/0-*2% ()..'-;/*' 6-1.*' -1?',)*'D*/*',)6,'21'=*-.12'D;,'6'?1,)*-')62'=1.^ .*..',)1.*'.?=6,) [25'6 D*, 12.'8)>)'1;5),'1'62^ /?6,*',)*'0*6>12*..'2')*-'0;,*.' ()*'*6-/ ');->)' 86.'+*-.',-;2'*2 1-> 25',)*'-;/*'8)>)'=-1) D,.' ,)*'*/*>, 12' 1'62 ',1'D*'0*6>12*..*.' 8)1')60'D**2' ,8>*' ?6-- *0'656 2'M.**' ;>*-'-" ' 'QS 'QS X% ,' .'0.=;,*0'8)*,)*-',)*' '8*-*'1-06 2*0'D ',)*' ?=1^ . ,12'1')620.'D;,',)*' =1.,1/>6/ 12., ,;, 12.'M+ RX' 0*>/6-*',)6,'.;>)'86.',)*'>6.*'620',)*' ,)' >6212' 1')6/>*012'M.*..% L+X' 1-D 0.',)*' 1-0 26, 12' 1'6' 0*6>12*..' ;20*-' 1-, % , // ,)*' '8*-*' 21,'>12.*>-6^ ,*0',1'62' ? 2 .,*-6/ ;2>, 12'.1' (*-,;/$62' ' ' % ' ' *,'21'81?62'.=*69'2',)*');->)' 21-',*6>)'21-'D6=, [*'21-'1 *-J'M,)6,%.'60?2.,*-' ,)*' ;>)6-..X I'21-'6--156,*',1')*-.*/?62/' ;2>, 12'/*.',81'.)1;/0'>/6?',)*/1,'1',)1'=-*../ 1 >*%J' ()*-'0;,*.'8*-*',1',6/A*'>6-*'1',)*' .>9' 620'=11-'620',1'?2.,*-',1'?6-, -.'620'>12*..1-.'2' =-.12',1'8)1)1?',)*'>1;/0'?1-*'*6./'562'6>*.' ,)62',)'0*6>12.1',1'2.,-;>,'>6,*>);?*2.'6=0',1'6.^ . .,'6,',)*'D6=, .?'1'81?*2',1'*L*-> .*'6'5*2*-6/ 1+*-.5),'1+*-',)*'*?6/*'?*?D*-.'1',)*');->)'620' 7 ,).'21,'12/'2'=;D/>'D;,'2'=-+6,*'?69 25'1>>6^ .126/-*=1-,.',1',)1'D.)1=.'620'=-*.D,*-.% :18' /125',)..'1 >*'>12, 2;*0'.'; 2>*-,6 2% ,'86.'21,)=8*+*-'0.>12, 2;*0'*+*- 8)*-*'6,'12>*% ,'86.' -.,'6D-156,*0'2' -62>*'D',)*' 1;2>/1' -625*' ,'620'5-60;6// '0.6==*6-*0'D;,'2',)*' 4-**9');->)',0 0'21,'D*>1?*'*L,2>,',//.),)*',8*/,)' >*2,;- % % ' Q '" ' ' "! ' ,'?;.,'*+*-'D1'-*56-0^ *0'6.'6'?.1-,;2*'2',)*' *1-?6,12',)6,',).'*6-/ ' 1 >*'86.'21,'-*.,1-*0% .' ,'21,'-*?6-96D/*',)6,' ,)*'1 >*'8)>)'.'.1'8*//606=,*0',1',)*'?6,-12/ ' >)6-6>,*-'1',)*'*?6/*.*L'.)1;/0'D*'8)1//E7*L>/;0*0' -1?'1;-/.,'1'6..,62,.'2',)*');->)HJ' M 1D 2^ .12.' =% NNS%X' ,.'-*.,1-6, 12'86.')18*+*-' .*-.1;./ ',)1;5),'1'620'*+*2'6,,*?=,*0'2',)*' *^ 1-?*0');->)'6,'62'*6-/ '=*-10'1',)*' *1-?6, 12' 26?*/ '8)*2',)*' *,)*-/620' >);->)*.';20*-',)*' -1..J'8*-*' 1;20*0',)-1;5)',)*'.210'6,'&*.*/620' ?0*2' SQ'620' % ,'-*.,1-6, 12' 2',)*' *^ 1-?*0');->)'86.';-5*0'12',)*'.210',)*'?1-*'6.' ,'6/-*60 '6>,;6// '*L .,*0'6,',)*', ?*'6?125',)*' 1^)*?62' -*,)-*2'620',)*'.,-> ,' 26D6=, .,.' 6,' /*6.,' 2',)*'/6-5*'>125-*56, 12.% ()*'Q;/P%*>,'>6?*'D*1-*' ,)*'.210'-1?',)*'>125-*56, 12'6,'&*.*/.)-1;5)',)*' /6.. .'1'&*.*/% ()6,'>125-*56, 12')60'0*>0*0',1' -*.,1-*' ,')60'2' 6>,'-*.,1-*0',' 2',.'D1.1?'620' 218'6.9*0',)*'20>6,1-*.' 1-'6==-1+6/% ()*'/6.. ' 1'&*.*/'D*1-*'8)>)',)*'?6,,*-' -.,'>6?*'0*>0*0' ,)6,',)1'-*.,1-6, 12'1',)*'1 >*'6.'26;5;-6,*0'2',)*' >125-*56, 12'6,'&*.*/.)6// ,620',// ,)*' 26/0*>^ .12.',)60'D;,'0*'*--*0' 26/6>, 12',2,f',)*'-'27L,' ?**, 25% 2' Q',)*'.6?*'>/6.. '0*>0*0',)6,' ,)'1 >*'8)>)'60'6//*2' 2,1<.;.*' 0*>6'2' ()*'-;/*.'5 +*2'6.',1',)*'>120;>,'1' 81?*2' 2' '(?% ' T' (,;.' 'N')6+*' 2'/ 9*' ?62P 2*-' D**2' -* *--*0',1',)*?'M)- .1.,1?' ()*1=) /6>,' : 6? ?120' & *. 25*-' 60' /1>%X% 1?*' 8-.,*-.'M*% 5% 1,)*T >)6 '&% $!' " "' g N X.;==1.*',)6,',)*' 3 '8 018.J' 1' ' (?%+'NC '8*-*' 0*6>12*..*.% :*-^ [15' 12',)*' 1,)*-')620')1/0.',)6,',)*' =6..65*.' "2' (?1,D ' >6221,' D*' 6==/ *0',1' 0*6>12*..*.%J' -% &% /*L620*-' 2' ,,1 .' % 'M.%+%X' ?6 2^ ,6 2.',)6,' 1?%L+ ' '01*.'21,'.)18',)6,')1*D*')*/0' 62 ' 1 > 6/ -*/6, 12',1',)*')1->)T 1-%6/',)6,' 6=^ =*6-.' .)*' ?6 ')6+*' D**2' . ?=/ ',)*' 011-9**=*-' 1-' >/*62*-' 1 ',)*'=/6>*' 1 '81-.) =% /;?=,-*'M 2' ?,).' ' 1'.% +% '.6 .',)6,' ,'.**?.')6-0/ '01;D,;/ ,)6,'8-,*-.')6+*',-62. *--*0',1',)*' *6-/*.,'65*' 1',)*');->)',)*' 1-562 [6, 12' 1'6'/6,*-% ,'86.'1'>1;-.*' 26,;-6/',)6,',)*'*L6?=/*' -*>,'=*-.126/ 6==/ >6, 12' 1')-., 62',-;,)'M(,;.' 'N X'=1.. D/ ' 2',)*'=-*=6-6^ , 12' 1' *?6/*' >6,*>);?*2.% +*2',)*' /6,*-' 1-562 ^ [6, 12' ?=/*.',)*'=-*+ 1;.'*L.,*2>*' 1',)*'5*?/.' -1?' 8)>)',)*'0*+*/1=*0% ,'?6 'D*'_;*., 12*0')18)*'*+*-'8)*,)*-',)*'=6..65*.'-* *--*0',1' ?=/ '6'-*>15^ 2.*0'D10 'D*6- 25'6'0 ., 2>,' 26?*% ()*' `8 018.' 1' ' (?% 'NC '8*-*' >/*6-/ '.1' 6- 6.',)*' -;/*' 1' +*-% R 86.'6>,*0'12'81?*2' 8)1' 8*-*' 21'/125*-'6D/*' ,1'0.>)6-5*',)*'6>, +*'0;,*.'1'/ *'620'8*-*',)*-*^ 1-*' ?6 2,6 2*0'D',)*');->)',)6,',)*' '? 5),'=6..' ,)*' -' -*?6 2 25'06 .' 2' I=-6 *-.' 2 5),'620'06 % ()*'>120, 12.'1'+*-% '?6 ')18*+*-' ?=/ ',)6,'+*-' ?=/ ',)6,',)1.*' 12/ ' 8)1')60'D**2'=-*+ 1;./ '6>, +*' 2' ? 2 .^ ,*- 25',1',)*'D-*,)-*2'8*-*'*2, /*0',1'.;>)'6'?6 2,*^ 262>*% '**' 6/.1' ;0/18' N (' +' '" ' " "'>)% 'M 120% QSS% % ' ' !' " ' "! ' ()*' =1.,1/ % % ,'>12, 2;*0' 2',)*' 1?62');->)' 1-'.1?* >/ 12., ,;, 12.' 0 ., 25; .)' 0*6>12*..*.J' -1?' 8 018.J' 620' + -5 2. J' 620' =-*.>- D*',)*-'0;,*.% '1-?'1'1-0 26, 12' 1-'0*6>12*..*.' .'6/.1'5 +*2'WD9% + '>% R'K X' 2' 8)>)',)*'D .)1=' =-6 .'6.' 1//18.å ',*-26/ 410' 6,)*-'1'1;-' 1-0'B*.;.')-.,' -*6^ ,1-'1'?62' 620' 1'81?62' ,)1;' 8)1'0 0.,' // 8 ,)' = -,' < -6?' *D1-6)' :6226)' 620' :;/06)' 12/ CD*51,,*2' 12' ,)1;' 8)1'0 0.,'+1;>).6 *',1'6'81?62',)*'D -,)'1',)' 620' 2',)*'(*?=/*'=/6>*' *?6/*' 9**=*-.' 1',)')1/' 56,*. '/119'0182'218'6/.1' ;=12',).',)'620?6 0' 620'D*.,18'12')*-',)*' : 1/' 4)1.,',)6,'.)*' ?6 '81-^ ,)/'=*- 1A?',)*'81-9'>1?? ,,*0',1')*-',1',)')12^ 1-'620',)*'5/1- '1')-.,J'M)6.*' ' '" ' &% '=% KK'M % ' Q QX% 2',)*' 6.,*-2');->)',)*'21, >*.'1'0*6>12*..*.' 2' ,)*' -.,', 2**'>*2,;-*.'6-*' *8'620'./ 5),'6/,)1;5)' -5*2'M 'K NX.=*69.'1',)*' ? 2 .,- '1'81?*2' 2',)*');->)'6.'D1,)'*L ., 25'620'2*>*.-8- % 2',)*' & *.,*-2');->)',)*' 21, >*.'6-*' ;//*-'620' ?1-*'>/*6-% / 2 ',)*' 1;25*-'M6D1;',% % X6=^ =*6-.',1'-* *-',1'0*6>12*..*.' 2').'/*,,*-',1'(-6A62' 2' .=*69 25' 1',)*' _;*., 12' D ',1-,;-*' 1' ,81' ?6 0.' 8)1' 8*-*'>6//*0'? 2.,*-.J' M*L' 0;6D;.' 62> // .'_;.*' I;' 0 >*D62,;-X% (*-,;/$62'MKK X.=*69.' 1' ,)*?'1',*2'620'=-*.>- D*.',)*-'_;6/ >6, 12.'M.**'D*^ /18X% 2',)*' 1;-,)'620' ,)' >*2,;- *.'6//',)*'/*60^ 25' 6.,*-2' 6,)*-.' -* *-',1'0*6>12*..*.'*% 5% 6./ Mm'N RX'4-*51- '1' A .66'M 'NRSX')- .1.,1?'M' X' ()7101-*,'M' X' 1[1?*2'M>-% NRX% ()*101-*,' I16 " !' # ' ' '=% S KX>6//.' ;D/6'8)1'/+*0'6, ,)*',?*'1'B;/62' 3' ? 1+1 ' ' 1[1^ ?*2'M+' ' RX.=*69.'1'6'>*-,6 2'0*6>12*..*.' 8)1')60' D**2'*L>/;0*0');->)'*//18.)=' D*>6;.*' 1')6+ 25' D-19*2')*-'+18.% ,'86.'6'-;/*',)6,',)*'0*6>12*..*.' ?;.'D*' ! (*-,;/$62'M60'2 ' ' T' 'N ' ' >% RX' .6 .' ()*'0.>=/2*' 1',)*');->)'620'6=1.,1/ >' ;.65*'1-D 0',)6,'62'8 018'D*'*/*>,*0';2/*..')6+*' ?6-- *0'D;,' ');.D620%J' N !',.',-;*' 8*-*' .1?*,?*.'60?,,*0'D;,',)6'86.',)*'*L>*=,12% (/f*' 8 018.'?;.,')6+*'D1-2*')/0-*2% ()..'-;/*' 6-1.*' -1?',)*'D*/*',)6,'21'=*-.12'D;,'6'?1,)*-')62'=1.^ .*..',)1.*'.?=6,) [25'6 D*, 12.'8)>)'1;5),'1'62^ /?6,*',)*'0*6>12*..*.' 8)1')60'D**2' ,8>*'?6-- *0'656 2'M.**' ;>*-'-" ' 'QS 'QS X% ,' .'0.=;,*0'8)*,)*-',)*' '8*-*'1-06 2*0'D',)*' ?=1^ . ,12'1')620.'D;,',)*' =1.,1/>6/ 12., ,;, 12.'M+ RX' 0*>/6-*',)6,'.;>)'86.',)*'>6.*'620',)*' ,)' >6212' 1')6/>*012'M.*..% L+X' 1-D 0.',)*' 1-0 26, 12' 1'6' 0*6>12*..' ;20*-' 1-, % , // ,)*' '8*-*' 21,'>12.*>-6^ ,*0',1'62' ? 2 .,*-6/ ;2>, 12'.1' (*-,;/$62' ' ' % ' ' *,'21'81?62'.=*69'2',)*');->)' 21-',*6>)'21-'D6=, [*'21-'1 *-J'M,)6,%.'60?2.,*-' ,)*' ;>)6-..X I'21-'6--156,*',1')*-.*/?62/' ;2>, 12'/*.',81'.)1;/0'>/6?',)*/1,'1',)1'=-*../ 1 >*%J' ()*-'0;,*.'8*-*',1',6/A*'>6-*'1',)*' .>9' 620'=11-'620',1'?2.,*-',1'?6-, -.'620'>12*..1-.'2' =-.12',1'8)1)1?',)*'>1;/0'?1-*'*6./'562'6>*.' ,)62',)'0*6>12.1',1'2.,-;>,'>6,*>);?*2.'6=0',1'6.^ . .,'6,',)*'D6=, .?'1'81?*2',1'*L*-> .*'6'5*2*-6/ 1+*-.5),'1+*-',)*'*?6/*'?*?D*-.'1',)*');->)'620' 7 ,).'21,'12/'2'=;D/>'D;,'2'=-+6,*'?69 25'1>>6^ .126/-*=1-,.',1',)1'D.)1=.'620'=-*.D,*-.% :18' /125',)..'1 >*'>12, 2;*0'.'; 2>*-,6 2% ,'86.'21,)=8*+*-'0.>12, 2;*0'*+*- 8)*-*'6,'12>*% ,'86.' -.,'6D-156,*0'2' -62>*'D',)*' 1;2>/1' -625*' ,'620'5-60;6// '0.6==*6-*0'D;,'2',)*' 4-**9');->)',0 0'21,'D*>1?*'*L,2>,',//.),)*',8*/,)' >*2,;- % % ' Q '" ' ' "! ' ,'?;.,'*+*-'D1'-*56-0^ *0'6.'6'?.1-,;2*'2',)*' *1-?6,12',)6,',).'*6-/ ' 1 >*'86.'21,'-*.,1-*0% .' ,'21,'-*?6-96D/*',)6,' ,)*'1 >*'8)>)'.'.1'8*//606=,*0',1',)*'?6,-12/ ' >)6-6>,*-'1',)*'*?6/*'*L'.)1;/0'D*'8)1//E7*L>/;0*0' -1?'1;-/.,'1'6..,62,.'2',)*');->)HJ' M 1D 2^ .12.' =% NNS%X' ,.'-*.,1-6, 12'86.')18*+*-' .*-.1;./ ',)1;5),'1'620'*+*2'6,,*?=,*0'2',)*' *^ 1-?*0');->)'6,'62'*6-/ '=*-10'1',)*' *1-?6, 12' 26?*/ '8)*2',)*' *,)*-/620' >);->)*.';20*-',)*' -1..J'8*-*' 1;20*0',)-1;5)',)*'.210'6,'&*.*/620' ?0*2' SQ'620' % ,'-*.,1-6, 12' 2',)*' *^ 1-?*0');->)'86.';-5*0'12',)*'.210',)*'?1-*'6.' ,'6/-*60 '6>,;6// '*L .,*0'6,',)*', ?*'6?125',)*' 1^)*?62' -*,)-*2'620',)*'.,-> ,' 26D6=, .,.' 6,' /*6.,' 2',)*'/6-5*'>125-*56, 12.% ()*'Q;/P%*>,'>6?*'D*1-*' ,)*'.210'-1?',)*'>125-*56, 12'6,'&*.*/.)-1;5)',)*' /6.. .'1'&*.*/% ()6,'>125-*56, 12')60'0*>0*0',1' -*.,1-*' ,')60'2' 6>,'-*.,1-*0',' 2',.'D1.1?'620' 218'6.9*0',)*'20>6,1-*.' 1-'6==-1+6/% ()*'/6.. ' 1'&*.*/'D*1-*'8)>)',)*'?6,,*-' -.,'>6?*'0*>0*0' ,)6,',)1'-*.,1-6, 12'1',)*'1 >*'6.'26;5;-6,*0'2',)*' >125-*56, 12'6,'&*.*/.)6// ,620',// ,)*' 26/0*>^ .12.',)60'D;,'0*'*--*0' 26/6>, 12',2,f',)*'-'27L,' ?**, 25% 2' Q',)*'.6?*'>/6.. '0*>0*0',)6,' ,)'1 >*'8)>)'60'6//*2' 2,1<.;.*' 0*>6'2' ()*'-;/*.'5 +*2'6.',1',)*'>120;>,'1' 81?*2' 2' '(?% ' T' (,;.' 'N')6+*' 2'/ 9*' ?62P 2*-' D**2' -* *--*0',1',)*?'M)- .1.,1?' ()*1=) /6>,' : 6? ?120' & *. 25*-' 60' /1>%X% 1?*' 8-.,*-.'M*% 5% 1,)*T >)6 '&% $!' " "' g N X.;==1.*',)6,',)*' 3 '8 018.J' 1' ' (?%+'NC '8*-*' 0*6>12*..*.% :*-^ [15' 12',)*' 1,)*-')620')1/0.',)6,',)*' =6..65*.' "2' (?1,D ' >6221,' D*' 6==/ *0',1' 0*6>12*..*.%J' -% &% /*L620*-' 2' ,,1 .' % 'M.%+%X' ?6 2^ ,6 2.',)6,' 1?%L+ ' '01*.'21,'.)18',)6,')1*D*')*/0' 62 ' 1 > 6/ -*/6, 12',1',)*')1->)T 1-%6/',)6,' 6=^ =*6-.' .)*' ?6 ')6+*' D**2' . ?=/ ',)*' 011-9**=*-' 1-' >/*62*-' 1 ',)*'=/6>*' 1 '81-.) =% /;?=,-*'M 2' ?,).' ' 1'.% +% '.6 .',)6,' ,'.**?.')6-0/ '01;D,;/ ,)6,'8-,*-.')6+*',-62. *--*0',1',)*' *6-/*.,'65*' 1',)*');->)',)*' 1-562 [6, 12' 1'6'/6,*-% ,'86.'1'>1;-.*' 26,;-6/',)6,',)*'*L6?=/*' -*>,'=*-.126/ 6==/ >6, 12' 1')-., 62',-;,)'M(,;.' 'N X'=1.. D/ ' 2',)*'=-*=6-6^ , 12' 1' *?6/*' >6,*>);?*2.% +*2',)*' /6,*-' 1-562 ^ [6, 12' ?=/*.',)*'=-*+ 1;.'*L.,*2>*' 1',)*'5*?/.' -1?' 8)>)',)*'0*+*/1=*0% ,'?6 'D*'_;*., 12*0')18)*'*+*-'8)*,)*-',)*'=6..65*.'-* *--*0',1' ?=/ '6'-*>15^ 2.*0'D10 'D*6- 25'6'0 ., 2>,' 26?*% ()*' `8 018.' 1' ' (?% 'NC '8*-*' >/*6-/ '.1' 6- 6.',)*' -;/*' 1' +*-% R 86.'6>,*0'12'81?*2' 8)1' 8*-*' 21'/125*-'6D/*' ,1'0.>)6-5*',)*'6>, +*'0;,*.'1'/ *'620'8*-*',)*-*^ 1-*' ?6 2,6 2*0'D',)*');->)',)6,',)*' '? 5),'=6..' ,)*' -' -*?6 2 25'06 .' 2' I=-6 *-.' 2 5),'620'06 % ()*'>120, 12.'1'+*-% '?6 ')18*+*-' ?=/ ',)6,'+*-' ?=/ ',)6,',)1.*' 12/ ' 8)1')60'D**2'=-*+ 1;./ '6>, +*' 2' ? 2 .^ ,*- 25',1',)*'D-*,)-*2'8*-*'*2, /*0',1'.;>)'6'?6 2,*^ 262>*% '**' 6/.1' ;0/18' N (' +' '" ' " "'>)% 'M 120% QSS% % ' ' !' " ' "! ' ()*' =1.,1/ % % ,'>12, 2;*0' 2',)*' 1?62');->)' 1-'.1?* >/ 12., ,;, 12.' 0 ., 25; .)' 0*6>12*..*.J' -1?' 8 018.J' 620' + -5 2. J' 620' =-*.>- D*',)*-'0;,*.% '1-?'1'1-0 26, 12' 1-'0*6>12*..*.' .'6/.1'5 +*2'WD9% + '>% R'K X' 2' 8)>)',)*'D .)1=' =-6 .'6.' 1//18.å ',*-26/ 410' 6,)*-'1'1;-' 1-0'B*.;.')-.,' -*6^ ,1-'1'?62' 620' 1'81?62' ,)1;' 8)1'0 0.,' // 8 ,)' = -,' < -6?' *D1-6)' :6226)' 620' :;/06)' 12/ CD*51,,*2' 12' ,)1;' 8)1'0 0.,'+1;>).6 *',1'6'81?62',)*'D -,)'1',)' 620' 2',)*'(*?=/*'=/6>*' *?6/*' 9**=*-.' 1',)')1/' 56,*. '/119'0182'218'6/.1' ;=12',).',)'620?6 0' 620'D*.,18'12')*-',)*' : 1/' 4)1.,',)6,'.)*' ?6 '81-^ ,)/'=*- 1A?',)*'81-9'>1?? ,,*0',1')*-',1',)')12^ 1-'620',)*'5/1- '1')-.,J'M)6.*' ' '" ' &% '=% KK'M % ' Q QX% 2',)*' 6.,*-2');->)',)*'21, >*.'1'0*6>12*..*.' 2' ,)*' -.,', 2**'>*2,;-*.'6-*' *8'620'./ 5),'6/,)1;5)' -5*2'M 'K NX.=*69.'1',)*' ? 2 .,- '1'81?*2' 2',)*');->)'6.'D1,)'*L ., 25'620'2*>*.-8- % 2',)*' & *.,*-2');->)',)*' 21, >*.'6-*' ;//*-'620' ?1-*'>/*6-% / 2 ',)*' 1;25*-'M6D1;',% % X6=^ =*6-.',1'-* *-',1'0*6>12*..*.' 2').'/*,,*-',1'(-6A62' 2' .=*69 25' 1',)*' _;*., 12' D ',1-,;-*' 1' ,81' ?6 0.' 8)1' 8*-*'>6//*0'? 2.,*-.J' M*L' 0;6D;.' 62> // .'_;.*' I;' 0 >*D62,;-X% (*-,;/$62'MKK X.=*69.' 1' ,)*?'1',*2'620'=-*.>- D*.',)*-'_;6/ >6, 12.'M.**'D*^ /18X% 2',)*' 1;-,)'620' ,)' >*2,;- *.'6//',)*'/*60^ 25' 6.,*-2' 6,)*-.' -* *-',1'0*6>12*..*.'*% 5% 6./ Mm'N RX'4-*51- '1' A .66'M 'NRSX')- .1.,1?'M' X' ()7101-*,'M' X' 1[1?*2'M>-% NRX% ()*101-*,' I16 " !' # ' ' '=% S KX>6//.' ;D/6'8)1'/+*0'6, ,)*',?*'1'B;/62' 3' ? 1+1 ' ' 1[1^ ?*2'M+' ' RX.=*69.'1'6'>*-,6 2'0*6>12*..*.' 8)1')60' D**2'*L>/;0*0');->)'*//18.)=' D*>6;.*' 1')6+ 25' D-19*2')*-'+18.% ,'86.'6'-;/*',)6,',)*'0*6>12*..*.' ?;.'D*' ! (*-,;/$62'M60'2 ' ' T' 'N ' ' >% RX' .6 .' ()*'0.>=/2*' 1',)*');->)'620'6=1.,1/ >' ;.65*'1-D 0',)6,'62'8 018'D*'*/*>,*0';2/*..')6+*' ?6-- *0'D;,' ');.D620%J' N !',.',-;*' 8*-*' .1?*,?*.'60?,,*0'D;,',)6'86.',)*'*L>*=,12% (/f*' 8 018.'?;.,')6+*'D1-2*')/0-*2% ()..'-;/*' 6-1.*' -1?',)*'D*/*',)6,'21'=*-.12'D;,'6'?1,)*-')62'=1.^ .*..',)1.*'.?=6,) [25'6 D*, 12.'8)>)'1;5),'1'62^ /?6,*',)*'0*6>12*..*.' 8)1')60'D**2' ,8>*'?6-- *0'656 2'M.**' ;>*-'-" ' 'QS 'QS X% ,' .'0.=;,*0'8)*,)*-',)*' '8*-*'1-06 2*0'D',)*' ?=1^ . ,12'1')620.'D;,',)*' =1.,1/>6/ 12., ,;, 12.'M+ RX' 0*>/6-*',)6,'.;>)'86.',)*'>6.*'620',)*' ,)' >6212' 1')6/>*012'M.*..% L+X' 1-D 0.',)*' 1-0 26, 12' 1'6' 0*6>12*..' ;20*-' 1-, % , // ,)*' '8*-*'1-06 2*0'D',)*' ?=1^ . ,12'1')620.'D;,',)*' =1.,1/>6/ 12., ,;, 12.'M+ RX' 0*>/6-*',)6,'.;>)'86.',)*'>6.*'620',)*' ,)' >6212' 1')6/>*012'M.*..% L+X' 1-D 0.',)*' 1-0 26, 12' 1'6' 0*6>12*..' ;20*-' 1-, % , // ,)*' '8*-*' 21,'>12.*>-6^ ,*0',1'62' ? 2 .,*-6/ ;2>, 12'.1' (*-,;/$62' ' ' % ' ' *,'21'81?62'.=*69'2',)*');->)' 21-',*6>)'21-'D6=, [*'21-'1 *-J'M,)6,%.'60?2.,*-' ,)*' ;>)6-..X I'21-'6--156,*',1')*-.*/?62/' ;2>, 12'/*.',81'.)1;/0'>/6?',)*/1,'1',)1'=-*../ 1 >*%J' ()*-'0;,*.'8*-*',1',6/A*'>6-*'1',)*' .>9' 620'=11-'620',1'?2.,*-',1'?6-, -.'620'>12*..1-.'2' =-.12',1'8)1)1?',)*'>1;/0'?1-*'*6./'562'6>*.' ,)62',)'0*6>12.1',1'2.,-;>,'>6,*>);?*2.'6=0',1'6.^ . .,'6,',)*'D6=, .?'1'81?*2',1'*L*-> .*'6'5*2*-6/ 1+*-.5),'1+*-',)*'*?6/*'?*?D*-.'1',)*');->)'620' 7 ,).'21,'12/'2'=;D/>'D;,'2'=-+6,*'?69 25'1>>6^ .126/-*=1-,.',1',)1'D.)1=.'620'=-*.D,*-.% :18' /125',)..'1 >*'>12, 2;*0'.'; 2>*-,6 2% ,'86.'21,)=8*+*-'0.>12, 2;*0'*+*- 8)*-*'6,'12>*% ,'86.' -.,'6D-156,*0'2' -62>*'D',)*' 1;2>/1' -625*' ,'620'5-60;6// '0.6==*6-*0'D;,'2',)*' 4-**9');->)',0 0'21,'D*>1?*'*L,2>,',//.),)*',8*/,)' >*2,;- % % ' Q '" ' ' "! ' ,'?;.,'*+*-'D1'-*56-0^ *0'6.'6'?.1-,;2*'2',)*' *1-?6,12',)6,',).'*6-/ ' 1 >*'86.'21,'-*.,1-*0% .' ,'21,'-*?6-96D/*',)6,' ,)*'1 >*'8)>)'.'.1'8*//606=,*0',1',)*'?6,-12/ ' >)6-6>,*-'1',)*'*?6/*'*L'.)1;/0'D*'8)1//E7*L>/;0*0' -1?'1;-/.,'1'6..,62,.'2',)*');->)HJ' M 1D 2^ .12.' =% NNS%X' ,.'-*.,1-6, 12'86.')18*+*-' .*-.1;./ ',)1;5),'1'620'*+*2'6,,*?=,*0'2',)*' *^ 1-?*0');->)'6,'62'*6-/ '=*-10'1',)*' *1-?6, 12' 26?*/ '8)*2',)*' *,)*-/620' >);->)*.';20*-',)*' -1..J'8*-*' 1;20*0',)-1;5)',)*'.210'6,'&*.*/620' ?0*2' SQ'620' % ,'-*.,1-6, 12' 2',)*' *^ 1-?*0');->)'

< 62 ' 1 ' ,) *' 6,) *- .' -*56-0*0' . ;>)' =-6 *-.' 6.' / , ,/*' ?1-*' ,) 62' 6' ,) 629.5 + 25 ' 6' >1? ?*206, 12' 1 ' .1 ;/.' 1 ' ,) *' 0*>*6.*0' ,1' ,) *' ?*-> ' 1 ' 410 ' 620' 6' >1? ?*?^ 1-6, 12' 1 ' ,) * -' .= - , ; 6/' *L>*//*2> *.' , //' ,) *-*' .' 21' 01 ; D,' ,) 6, ' 21, ' 6' *8' 1 ' ,) *' 6,) *-.' D*/ *+*0' ,) 6, ' ,) *' .1 ;/.' 1 ' 0*=6-,*0' D*/ *+*-.' 8*-*' 2' .1 ?*' .*=6-6,*' =/6>* ' 3 312>*' ,1') *6+*2 ' D ; ,' 8*-*' 2' .1 ?*' .*=6-6,*' =/6>* ' 3 : 60*.' 1-' 6-60 .* ' 1 ; ,' 1 ' 8) >)' ,) *' *-+*2,' =-6 *-.' 1 ' . ; -+ +1-.' ? 5), ') */=' ,1' -*? 1+*' ,) *? ' 1' , R' ; 20*-' 0 8 6-0' ' 12*' =-6 *-' 86. ' & *' >1? ?*20' 2,1',) ') 620.' 1 ' ?*-> ' ?1.,' ?*-> ;/ 6,) *-' ,) *' .1 ;/ 1 ' ,) . ' 1 ;-' D-1,) *-' 0*=6-,*0' *' *' ,) 6,' 8) *2',) *' A ; 05^ ? *2,' .) 6// >1? *' 8) >)' ,) 1 ;') 6. ,' >1? ? ,,*0' ,1' ,) ' 81 //CD*/1+*0' 12' D1,) ' ,) . ' 1 ;-' D-1,) *-' 620' 8*' o' D*' 1 ; 20' 6>>*=,6D/*' 2' ,) ' . 5), ' 620' -*>* +*' ,) ' D/*.. 25%J' /? 5), ' 410' 81' 7 + *' ,) *') *6-, ' ,) 629.' 1-' ,) . ' ,) ' .*-+62, ' 8) 1 ?' ,) 1 ;') 6. ,' 0*/ +*-*0' -1 ?' ,) *' ? . *- *.' 1 ' ,) . ' 8 >9*0' 81-/0' -1 ?' ,) *' D10 ' 1 ' 0*6,) ' 620' 6//' , *? =,6, 12' 620' 6.' 81' , -; . , ') 6. , ' D-1 ; 5) , ' D . ' .1 ;/ ' 8) >)') 1' >1? ? ,,*0' 2,1' ,) ') 1/ ') 620. ' 2,1' . ; -*' >12.1/6, 12' 620' -*.,a' 4-62, ' 8*' D*^ .**>)' ,) **' ,) 6, ' 6', ,) *' 06 ' 1 'A ; 05 ? *2, ') . ' .1 ;/ 620' 6//' ,) *' 1 ;/.' 1 ' ,) 7C*/*>, ' 0*=6-,*0' >; ,' 1 ' D . / *' ? 6 ' 8 ,) ' ; . ' 620' 81' 8 ,) ' ,) *? ' ;// ' -*>* +*' ,) ' =-1 ? ^ .*. ' 620' D*' ? 60*' =*- *>,' 6/,15*,) *- ' ,) -1 ; 5) ' ,) *' 5/1^ - 1 ; .' -*.;--**>, 12' 1 ' ,) ' 12' B*. ' ; .') - . ' 1 ;-' 1-' 0 ^ J' 20' ,) *' 2*L,' =-6 *-' 86. ' ' 1-0 ' 8 ,) ' 8) 1 ?' 01' / +*' ,) *' .= - ,.' 1 ' ,) *? ' ,) 6, ' D1' 0*60 ' 620' 2' 8) 1 ?' ,) *' .1 ;/.' 1 ' ,) *? ' ,) 6, ' D*' */*>, *0 ' 6 , *-' ,) * ' D*' 0*/ +^ *-*0' -1 ?' ,) *' D ; -0*2' 1 ' ,) *' 0*.D ' D*' 2' A1 ' 620' */ > ^ , ' 5-62, ' ; 2,1' ,) . ' ,) ' .*-+62, ' ,) 6, ' ,) 1' . 2.' 8) >)') 1' >1 ? ? ,,*0' 2' ,) . ' 81-/0' D*' 21, ' ?=; .*0' ; 2,1') ?' ' D ; ' ,) 6, ' D*' *.>6= 25' ,) 1' 56,*.' 1 ') *// ' 620' =6 2.' 1 ' *,*-26/ 06-92*.. ' ?6 ' *+*-' 0 8 *//72' ,) *' -*5 12' 1 ' *' / 5), ' 8 ,) ' D-6) 6 ? ' .66>' 620' B6>1D ' 2' ,) *' =/6>*' 8) *-*' ,) *-*' .' 21' 8**=25' .1--18 ' 21-') *6+ 2*..' 620' 8) *2' ,) 6, ' 0-*60 ; / 06 ' 1 ' ,) *' 5*2*-6/ -*. ; --*>^ , 12' .) 6// >1?*' ?69*') ?' , 1' - .*' 6/.1' 8 ,) ' ,) *' A ; .' 620' -5), *1 ; . ' 620' -*>* +*' ,) . ' D10 ' 656 2' , 1' 5/1-A7' ,) *2' ?60*' =; -*' 620' 2>1--; =, D/*%J' ( ) *' =-6 *-' 86. ' ; /, ?6, */ ' >) 625*0' 2,1' ,) *' ,) 629.5 + 25' 1-?' 2' 8) >)' , ') 18' 6==*6-.' 2' ,) *' -6 *-CD119a' , *-' ,) *' 1 *-, 1-' 2' ,) *' ; >) 6- . , ' .' .6 0 ' 620' ,) *' 1D/6, 12.' 1 ' / -*60' 620' 8 2*' 8 ,) ' ,) *' 6/?.' 1-' ,) *' =11-' 6-*' =/6>*0' ; =12' ,) *' , 6D/*' ,) *' ? 2 . , *-' 600-*. .*.' ,) . ' *L) 1-, 6, 12' , 1' ,) *' =*1=/*a' *' , ' .' =-6 ' 1-' ,) *' 8) 1/*' . , 6, *' 1 ')- . , . ') ->) ' ? / , 62, ') *-*' 2' *6-,) %' ( ) *' /6, , *-' =6-, ' 1 ' ,) . ' .*2, *2>*' .' 862, 25' 2' 086-0 .' -. ' D119% ' ( ) *' 81-0.' ` ? / , 62, ') *-*' 2' *6-,) ' 8) >)' 8*-*' 0*^ . 52*0' *L=-*. ./ ' , 1' *L>/ ; 0*' =-6 *-' 1-' ,) *' 0*60 ' 8*-*' 2.*-, *0' 2' ,) *' .*>120' D119 ' 2' 8) >)' ,) 6, ' =6-, ' 1 ' ,) . ' =-6 *-' 8) >)' >12, 6 2*0' 2, *->*. . 12' 1-' ,) *' 0*60 ' 86. ' *L=; 25*0% ' , ' 86. ' ,) *' 2, *2, 12' 1 ' ,) *' 0 + 2*. ' 8) 1' ? 607' ,) . ' 6/, *-6, 12%, 1' 0*21, *' ,) 6, ' = 6 *-.' 6-*' 21, ' , 1' D*' 1 *-*0' ; =' 1-' ,) *' 0*60 ' 8) 1. *' .= - , ; 6/' 8*/ 6-*' 7 6/-*60 ' 6>>1?=/ .) *0' D ; , ' 1-' ,) 1. *' 12/ ' 8) 1' 6-*' ` 5), 25',) *' 5110' 5), ' 1 ' 6 ,) ' 620' 6-*' >12. *_ ; *2, ^ / ' 2' 6' >6=6> , ' 1 ' 2**0 25' 1 ; -' =-6 *-. J' M) *=) *-0 ' > , *0' D ' : 119 ' " "' ' . ' % +%X% ' -1, *. , 62, . ' -*A*>, ' (7-6 *-.' 1-' ,) *' 0*60' 6. ') 6+ 25' 21' 5-1 ; 20' *. ,) *-' 2' >- =, ; -*' 1-' -*6.12% ' 25) 6? ' , ! ' 6 ! D9% L+ ' >)% ' g' T' 00/*' " ' & 4 ' =% K ' . _ %T 1/*? 62 ' & ' " ' "! LL+T' -182*' ') NR' & ' 6-, % LL T' 6/? *-' , ! ' >) ' + ' g' T' -+ !' $ ' !') + ' QSS ' ' NRS%

*6 (8 , HIGH% " "(:' D1,) ' *. =*> 6// ' ,) * /6, , *-' ? =/ 25' 0 ; ? D2*.. ' 6/. 1X% <1.*.' *L, *20*0',) *

=-1, *>, 12' 1 '6' .=*> 6/ . . 6, ; , *', 1',) *' 07*6 ' ? ; , *a' `' ( ) 1 ; ' .) 6/, ' 21, ' >; -. *' ,) *' 0*6 J' M *+% L 7' X% *.' *26>, ^ ? *2, ' 21, ' 12/ ' 6D. 1/ ; , */ ' =-1) D , *0' ,) *' -*+ / 25' 1 ' ,) *. *' ; 2 1 -, ; 26, *. ' D ; , ' ? 5), ' 6/. 1' D*' ; 20*-. , 110' 5 ; ^ -6, +*/ ' 6.' ' <1.*.' -*>1? ?*20*0',) 6, ' 9 202*.. ' 620' 2 . , - ; >, 12') 1 ; /0' D*' .) 182' , 1',) *' ?' M .6% LL L ' Q' N T' < 6, , ' L ' T' < 6-9' + ' NKX% *' $!

*6/ ' 6' 81-0' 1 , *2' *?=/1 *0' D ' 1 ; -' , -62. /6, 1 -.' 2' ,) *' .*2.*' '% ' 8 ,) ' -6>, 126/ 2 ; ? D*-.' M , *2,) ' 0*6/ J' L10% LL L ' *', >% T / 9*' 6' 5-*6, ' 0*6/ JX' D ; , ') 6+ 25' 210.=*> 6/ *_ ; +6/*2, ' 2' ,) *' 1-5 26/% *' * $!

6/ , - ' " ' % % ' % % % ' 86. ' D1 ? ' 2' 1-9.) -' 2' ' *0 ; >6, *0' 2' 6,) 6-2*' : 6// 620' (- 2 , ' 1//*5*' 6 ? D- 05*' 8) *-*') *' 86. ' .*>120' 8-625/*-' 2' RS' 620' *//18' 2' RQ' : *' 6 , *-86-0. ' D*>6 ? *' =-1 *. .1-' 1 ' ? 6,) *? 6, >. ' 2' ,) *' 6. , ' 20 6' 1//*5*' -*>, 1-' 1 ' /6=) 6 ? ' 2' Q N' >) 62>*//1-' 620' =-*D*206-E7 1 ' & 2>) *. , *-' 2' QN ' 620' 26// ' 6->) ^ 0*6>12' 1 ' ; -- * ' 2' X% Q % : *' 0 *0' 2' Q Q% : . ' =- 2> =6/ =; D/ >6, 12. ' 6-*' & ' ' ' ' ' ' ' % % ' " ' M *20% Q N' Q+1X T $ ' M *20% QK Q' Q+1X T' , ' ' " " ' M *20% QQQ' Q+1X T' -'" ' @ ' ' " ' @ '" M 120% Q S' Q+1X % ' 6-/ 25' %! ' ; " %" (' ' QQK%

*6 ' > ' -1 ?' $) ' 8 ' 62' *>>/*. 6., >6/ , , /*' 8) >)') 6. ' D60' . *+*-6/ 6==/ >6, 12. ' M X' ( ) *' 1/0^ *. , ' ; . *' 1 ' , ' 86. ' , 1' 0*. 526, *' 62' 1 >*-' 2' ,) *' 62> *2, ' ? 126. , *- *. ' 2' 8) >)' *+*- ' , *2' ? 129. ' 8*-*' . ; DA*>, ' , 1' 12*' >6//*0' ,) *' ' 1 ' 0*62 ' -1 ?' D . ' =-*. 0 25' 1+*-' , *2 T 620' *+*- ') ; 20-*0') 60' 621,) *-' 1 >*-' >6/*0' ' -1 ?') . ' =-*. 0 25' 1+*-' 12*') ; 20-*0% ( ) *' D ; . 2*. . ' 1 ' ,) *' 0*62' 86. ' , 1' *L6>, ' *+*- ' ? 62 . ' 06 / ' , 6. 9 ' 620' , 1' D- 25' , ' , 1' ,) *' ' 1-' . , *; 6-0' 1 ' ,) *') 1 ; . *' 8) 1') ? . */ ' 56+*' 6' ? 12,) / ' 6>>1 ; 2, ' , 1' ,) *' 6,) *-' 1 ' 6//% ( ) *' 81-0' 0*62' . ' 1>>6. 126// ' ; . *0' 2' *6-/ ' 8 - , *-. ' 1-' 6->) =-*. D , *-% MK% X' 2' ,) *') ; ->) ' 1 ' . 25/620' ,) *-*' 6-*' , 81' .1-, ' 1 ' 0*62. a' . , ' ,) *' ' ' " ' 8) 1' . ' 62' *>>/*. 6., >6/ ? 65 . , -6, *' 2*L, ' 2' 0*5-**' , 1' ,) *' D .) 1=% : *' . ' >) * ' 1 ' ,) *' >) 6=, *-' 620' . ' >6// *0' 6' 0*62' I 8' D*>6 ; . *') *' 1-?*-/ ' =-*. 0*0' 1+*-' , *2' =-*D*206-*. ' 1-' >6212. % : *' . ' D ' /68' 6' .1/*' >1-=1-6, 12 ' ,) 6, ' . ') *' -*=-*. *2, . ' 6' 8) 1/*' . ; >>*.. 12' 620' . ' >6=6D/*' 1 ' , 69 25' 62' *. , 6, *' 6. ' 0*62' 620' >12+* 25' , ' , 1') . ' . ; >>*.. 1-. % KO ' ' 8) 1. *' 1 >*' . ' 1 ' 62> *2, ' 06, *' 2' ,) *') ; ->) ' 1 ' 25^ /620 ' /125 ' =- 1-' , 1' ,) 1' * 1-?6, 12 ' 620' 8) >)' ?62 ' 1 ' ,) *' D .) 1=. ' 6-*' 218' -*+ + 25% ( ) *-' >) * ' 0 ; , ' . ' , 1' + . ' 6' >*-, 6 2' 2 ; ? D*-' 1 ' =6- .) *. ' 620' , 1' -*=1-, ' ,) * -' >120 , 12' , 1' ,) *' D .) 1=% ( ) *-*' 6-*' , 81' ?*62. ' 1 ' >-*6, 25' 0*62. ' D*>6 ; . *' ,) *-*' 6-*' , 81' 1 ; 206, 12. ' 1 ' >6,) *0-6/ >) ; ->) *. ' 2' 25/620 ' ,) *' 1/0' 620' ,) *' 2*8% ( ) 1. *' 1 ' ,) *' 1/0' 1 ; 206, 12' 6-*' 6==1 2, *0' , 1' ,) * -' 0 5^ 2 , ' ? ; >) ' / 9*' D .) 1=. ' ,) *' 9 25' -. ' . ; 25') . ' (' , 1' ,) *' >) 6=, *-' ,) *' >) 6=, *-' ,) *2' >) 11. 25' 620' ,) *' D .) 1=' >12 -? 25' 620' 5 + 25' D . ' ? 6206, *' , 1' 2C' . , 6/ ,) *? % MN% X' ( ) *' 81-0' . ' 6/. 1' 6==/ *0' 2' 25^ /620' , 1' ,) *' >) * ' 1 >*-, 6 2' *=*>; / 6-' >) ; ->) *. ' 1-' >) 6=*/. ' 6. ' ,) *' 0*62' 1 ' ,) *' 9 25 . ' >) 6=*/ ' ,) *' 0*62' 1 ' ,) *' 6->) *. ' ,) *' 0*62' 1 ' , % 4*1-5* . ') 6=*/ 6, ' & 20^ . 1-' 620' ,) *' 0*62' 1 ' 119 25' 2' . . *L% M X' ( ) *' ' " % ' >12. , ; , *' ,) *' 51+*-2 25' D10 ' 1 ' 6' >6,) *^ 0-6/% ' >) 6=, *-' >12. . , ' 1 ' ,) *' 0*62' 8 ,) ' 6' >*-, 6 2' 2 ; ? D*-' 1 ' >6212. ' 1-' =-*D*206-*. ') *60. ' 1 ' ,) *' >) ; ->) ' T % ' + ! ( ) *' 6-*' ,) *' >1 ; 2> / 1 ' ,) *' D .) 1=' , 1' 6. . , ') ? ' 8 ,) ' ,) *' -' 60+ >*' 2' 6 6 -. ' 1 ' -*/ 5 12' 6. ' 8*// 6. ' 2' ,) *' , *? =1-6/ >12>*-2. ' 1 ') . ' . **% ' &) *2' J ,) *' -*. ' , ' 1 ' ,) *' >/*-5 ' 8*-*' . *, /*0' 2' ,) *' . *+*-6/ =6-^ .) *. ' 1 ' *6>) ' 0 1>*. *' ,) *. *' 8*-*' -*. *-+*0' 1-' ,) *' >*/*^ D-6, 12' 1 ' 0 + 2*' . *-+ >*' 2' ,) *' D .) 1=. ' 182' >6,) *7' 0-6/ ' 620' ,) *' >) * ' 1 ' ,) *? ' 8) 1' =-*. 0*0' 1+*-' ,) *' -*. , ' 1D, 6 2*0' ,) *' 26? *' 1 ' ' 1-' 0*62 ' D* 25' =-1D^ 6D/ ' 6, ' -. ' 6==1 2, *0' , 1' . ; =*- 2, *20' , *2' >6212. ' 1-' =-*D*206-*. ' ( ) *' 0*62' 620' >) 6-*' ,) *' 27? 26/ */*>, 1-. ' 1 ' 6' D .) 1=' M X' ( ) *' ' 1 ' 6' >1// *5*' 6>; /,

-.,'D- 5 25'0*6,)' 2,1',)*' 81-/0'MB1)2'+ ' X'620' 6.')*' ?6 ' D*',)*' *L*>;, 12*-' 1 ' 410 .' 8-6,)' 12' ?^ =*2 ,*2,' . 22*-.' 8)*-*' 410' =*-? ,.') ?'' cP*6,)' .' D;,' 12>*' M : *D'' L ' K X' *,' >*-,6 2' MB1D' L + ' 'KX' 6/^ ,)1;5)' ;2>*-,6 2' 6.',1',)*', ?*' M -1+'' LL+ ' XT' ;2 ^ +*-.6/' M4*2'' ' RXT' 2*>*..6- ' 2' 1-0*-' ,)6,' 410 .' A;.,>*' ?6 ' D*' 0 .=/6 *0' 620') .' ?*->' ?62 *.,*0T' 0*. -6D/*' ,1',)*' - 5),*1;.' M ;9*' 'KQCN X'' ()*' *6-' 1 ' 0*6, ' .' 6' .1;->*' 1 ' 62L *, ' 620' 6/6-?',1' ?62 ' 620',1' 6' 5; /, ' >12.> *2>*' ,' ?6 ' 20**0' D*',*-- D/*T D;,',1' 6' 5110' ?62' ,'.)1;/0' D*' 1D+ 6,*0' D ',)*' >12^ . 0*-6, 12' ,)6,' 0*6,)' .' ,)*' ,*-? 26, 12' 1 ' *+*- ' ,-1;D/*T ,)6,' ,' =;,.') ?' D* 120',)*' -*6>)' 1 '. 2'620' ,*?=,6, 12T' ,)6M' 410') 6.' =-1? .*0',1' D*' 8 ,)' ,)*' - 5),*12. ' *+*2',1',)*' *20'M :*D'' L ' XT' ,)6,'B*.;.')- .,')6.',69*2' 686 ',)*' ., 25'M ' 1-'' L+ ' S ' SXT' 620',)6,' ,' 2,-10;>*.') ?',1'6' .,6,*' 1 '*20/*..' */>, ' MK' 1-'' 'QX'

*6,)' 8)*2' 6==/ *0',1',)*' 62 ?6/ 26,;-*' =-1=*-/ ' . 52 *.' 6' 0 ..1/;, 12' 1-' 6 /;-*' 1 '6// ,.' =18*-.' 620' ;2>, 12.T .1' 8)*2' 6==/ *0',1',)*' .= - ,;6/ 26,;-*' 1-' .1;/.' 1 '?*2 ','0*21,*.' 6f>1--*.=120 25'0 .1-0*-',)*-*^ 2 '6' D* 25'.= - ,;6// '0*60' 2',-*.=6..*.'620'. 2.'M 1?'' 3+ 'ST' =)'' ' 'NT' 1/'' ' NT' B;0*' KX'' 3

()*',*-?' 0*6,)' .' ?*,6=)1- >6// '6==/ *0',1' 0*21,*' 62',;,,*-' 6/;-*' 1 '>;.,1?6- ' ;2>, 12. ' .1' ,)6,',)*' ,) 25'.=19*2' 1 '>62' 21' /125*-'6>,' 6>>1-0 25',1' ,.' 26^ ,;-*'' ()';.' ;,' ?1.' 'K' <16D'.)6// 0*' 8 ,)',;^ ?;/,J ',)6,' .',)*' 9 25' 620' 51+*-2?*2,' .)6// /1.*' ,)*-'=18*-' 620',)*' 26, 12' D*CD-1;5),' 2,1' .;DA*>, 12' 620' ./6+*-'' 1' 2' 1?'+ 'Q' & ,)1;',)*' /68' . 2' 86.'0*60 I' 7,)6,' .' 8 ,)1;',)*' /68' . 2' 01*.' 21,' *L*-.',..'=18*-T 620'12',)*' 1,)*-')620' ,' .' .6 0'M+*-'' CX' ' 2'-*+ +*0' 620' '0 *0J ' ' 2' 51,' .,-*25,)',1' 6>,'620' /1.,? '=1+-*-',1'-*.*' ,'' 86.'21,',)*' .6?*' 2=2'6.' D* 1-*T . 2'0*.,-1 *0' ? '=18*-'J

()*' .*>120'0*6,)J'M *+'' ' X' .' .1'>6//*0' 2'-*^ .=*>,',1',)*' 26,;-6/ 1-',*?=1-6/ 6.'>1? 25'6 ,*-' ,'620' ?=/ *.'*+*-/6., 25'=;2 .)?*2,'M *+'' LL 'QX''

(:' O ' ' / ' !' M 2',) .' ,1= >' 8*' 5 +*' :*20*-.12 .' 6-, >/*' 2' 6 -D6 ?' % 9 ';' ' ' 1' ' Q'._'' 8 ,)'./5),'?10 >6, 12.' 620'1? .. 12.'X

6,)' ?6 ' D' 0* 2*0' 6.',)*' ' ! * 120'_;*., 12' ,')60' D**2'=1.. D/*' 1-' 410' ' .;>)')60' D**2') .' =/*6.;-*',1')6+*' ?60*' 6//>-*6,;-*.' ;2^ 0*-' 6' /68' 1 '/ *'' >- =,;-*' 6..;-*.' ;.',)6,' ?62' 6,' /*6.,' 86.' 6,' -.,'=/6>*0' >120 , 126// ' ;20*-',) .' /68'' ()*-*' .')18*+*-'0*> . +*' *+ 0*2>*',)6,' -1?',)*' D*^ 5 22 25'6//1,)*-',*--*.,- 6/ /*' 86.'>12., ,;,*0';)0*-',)*' /68'1 '0*6,)'' ()*' -Z_X-10;>, +*' 620'6.. ?/6, 25' 1-562.' 620'=18*-.'>1?? 12',1'6//' / + 25'>-*6,;-*. '620' ,)*' 0*.,-;>, +*' 1-562.' 2., 2>,.' 620')6D.,' 1 ' D -0.' 620'D*6.,.'1 '=-* ' ;2? .,696D/ '>12,*?=/6,*'6.',)*' *=-1+ 0*' 1-'6' .,*?'1-'>12., ,;, 12'1',) 25.' 2'8)>)' 0*6,)' .)1;/0'-* 52'' ,'86.'/125'620'5*2*-6// ')*/0' 20**0',)6,',) .' /68' 2',)*' 26,;-6/ *>121? ' ,;=*-^ +*2*0' ;=12',)*' 2,-10;>, 12'D' . 2'' ;',) .' 0*6' 8)>)' >-=,;-*' 01*.' 218)*-*' 6..*-,' 1-' .62>, 12' .' D6-0',1'D*'-*>12>/*0'8 ,)',)*' >12>/;. 12'8)>)'=) .^ 1/15 '620'626,1? ')6+*'0*0;>*0' -1?'=18*-.'620'1-^ 562.'1',)*'62 ?6/ -6?*'8 ,)',)*' .6?*'>*-,6 2, ',)6,' 62 ' 26/ >6;.*' .' 2 *--*0' -1?'62 '1',)*' 81-9.'1' 410'' 20' ,' ?;.,' D*' -*56-0*0'6.' >12>/;. +*/ ' -*^ ;,*0'DA'',)*'0 .>1+*-.*.'1 '5*1/15 '8)>)'0*?12.-6,*' ,)*' =-*+6/*2>*' 1 '0*6,)' 2' 65*./125'62,*- 1-' ,1',)*' >-*6, 12' 1 '?62 '1-' .1' 6-' 6.' .'92182',1',)*' *L .,^ *2>*' 1 '. 2'' ()*' *6-,) . ',-6,6' 6-*' 218' 1;20',1'D*' ;// 1',)*' D;- *0' -*?6 2.' 1 '*L, 2>,' / *7' 620',' .' ?60*'*+ 0*2,'D ',)*'.,6,*' 2'8)>)'?62 '1',)*.*' 1.^ ./.'6-*' 1;D0',)6,',)*2'6.'218'/ *' 86.' .;.,6 2*0'D' 0*6,)'' 1-'>62',' 8*// D*' 01;D,*0',)6,',) .' .,6,*' 1 ',) 25.' 1D,6 2*0'*+*2' 2',)*' 06 .' 1 '?62 .'=- ?*+6/ 221>*2>*'' '8*',-' 8*' .)6// 20'1;-.*/+*.' D6 /*0' 2',)*' 6,,*?=',1'>12>* +*')18'*+*2',)*2'0*6,)'>1;/0' D*' .,-625*'1-';292182'' <;.,'21,',)*'-*+1/+ 25' *6-')6+*I'D**2' ?6-9*0'D ',)*' 1=*2 25'620',)*' 6// 1',)*

6-,) .' 1/ 65',)*' - =*2 25'>12.;?=, 12'62077*>6 '1 ' *6-,) .' -;,'H 1;/0' 1;-' -.,'=6-*2,.' 0- 29' 1',)*' - +*-.'1 '=6-60 .*' 1-',-*60' ,.'+*-062,'.;- 6>*' 1-'9**=' 620'0-*..' ,.',-**.'620'=/62,.'8 ,)1;,' 2'>+*-A'0-6;5),' 6,' *+*-' .,*=' D ' *+*- ' .,-19*'_;*2>) 25'1-' >;,, 25' 01;?' ?A(6 .'1 '62 ?6/>;/6-'1-' 2.*>,'6.' 8*//6.'+*5^ *,6D/*' / *'H /,)1;5)',)*' /*.)' 1 '62 ?6/.' 86.' 21,' *,'5 +*2',1' ?62' 1-' 110' .' ,' .;==1.6D/*' ,)6,',)*' /68.' 1 '62 ?6/ / *' ,.*/ '8*-*' 6//',)*' 8)/*' 2' 6D* ^ 62>* ' ,.' 2., 2>,.'-*.,-6 2*0' ,.' =18*-.' ;2;.*0' ,.' 6==-1=- 6,*' =/*6.;-*' 8 ,))*/0' 1-' 0*2*0'H & *' 9218' ,)6,' -1?',)*' 06 ' 1 '?62 .' >-*6, 12')*')60' 5 +*2',1')?',)*' 0*6' 1 '0*6,)'' ,' 86.'.*,' D* 1-*')?' 6.',)*' A;.,' 0*.*-,' 620' >12.*.;*2>*' 1 ' 0 .1D*0 *2>*'' 20' 8)*2>*' .1)1;/0')*')6+*' 0*- +*0')' >12>*-.' 12' 1',)*' ?=1-,'1',)*',)-*6,*2*0'*+ /.1'-*60 / '6.' -1?'0*6,) .' + . D/*' 01?6 2' 1+*-',)*' 18/.' 1',)*')*6+*2' 620',)*' D*6.,.'1',)*' */OH

& ,)'-*56-0',1'>-*6,;-*.'1 '?*-*' 2., 2>,'1-'62 ?6/ 26,;-*',)*-*' >62' D*' 21,) 25'A;0>6/' 1-' 1',)*' 26,;-*' 1 '=;2 .)?*2,' 2',)* -' 1-0 26, 12',1'0*6,)'' ,' .' D*^ 120'_;*., 12',)6,' 1-' ?62 .' .69*' 6' >;-.*')60' `D '2' D-1;5),' ;=12',)*' 5-1;20'' 620',)*' 8)1/*' >-*6, 12' 5-162*,)' 620',-6+6 /*,)' 2' =6 2',15*,)*-' ;2, /' 218'' , /// ?62') ?.*/' .' D ',' .' ?*62.',)*' 5-*6,*..' .; *.^ *-T' 620'.1' 6-'6.' ,'6 *>,.',)*' 1,)*-' >-*6,;-*.' ,'>62' D*' 12/ '6' =)A . >6/ *+ /'*_;6// ' 8 ,)1;,' ?1-6/ >6;.*' 1-' =*26/* *>,'1 '8) >)'D'',)* -' 26,;-*',)* '6-*' ;2^ .;.>*=, D/*' : 18',) .'6==1 2,?*2,' .',1'D*'-*>12> /*0' 8 ,)',)*' D*2*+1/*2>*' 1 ',)*' -*6,1-' .' 6')6-0' _;*.^ , 12' 8)>)'21'/5),' *,'7 +*2',1' ?62*26D/*.') ?' ;// ',1' -*.1/+*'' 1' 6-')18*+*-' ,' ?6 '-*/ *+*',)*' ? ..*- ',)6,'6.'6'5*2*-6/-;/*',)*'*2A1A7?*2,.'1',)*' 2 *- 1-'>-*6,;-*.'5-*6,/'*L>**0',)*-' .; *- 25.',)6,' 0*6,)' .'D;,'/ ,/*' '6,'6//',)*' 1DA*>,'1',)*-' .' *6-' 1-' ?;>)'*+*2'6'>6;.*' 1 '=6 2'' ()6,'',)*' .;?'1 '62 ?6/ *2A1 ?*2,' ;*2>)*0' 2' 0*6,)' .' 6?=/A'>1?=*2.6,*0' D ',)*'/68'1' 2>-*6.*'620'.;>>*.. 12'8)>)'D1,)'=*-^ =*,;6,*.'/ *'620'=-*.*-f*.' ' 2',)*'+ 51-'1 ',.'=18*-.' 620',)*' -*.)2*..'1 ',.'A1 .' .'>*-,6 2T'6/.1'M6.'D*6-^ 25' 12',)*' =) .>6/ 620' ?1-6/ >120 , 12' 1 '?62',1' 8)1.*'D*)6/ '6.'>) * ' 2',) .'/18*-'81-/0'6//6--625*^ ?*2,.'620'0 .=1.6/.'6 *>, 25',)*'/18*-' 1-?.' 1 '/ * 8*-*' .;D1-0 26,*0X',)6,',)*-' .;DA*>, 12',1'0*6,)')6.' *2/6-5*0' ?*?*2.*/ ',)*' *L,*2,' 1 '?62 .'=) .>6/-*^ .1;->*.'620'?;/, =/*0'?62 1/0',)*'?*62.'1 ') .' ?1-^ 6/0'*+*/1=?*2,'620'0 .> =/2*%

;,'?62') ?.*/' .' 2+1/+*0' 2',)*'>1??12'011?'' ,' .'6==1 2,*0';2,1'6//?*2'12>*',1'0 *'' ()*-* 52 25' 6>,'?62 .%O*6,)'.**?.',1' 1->*' ;=12';.',)*'>12>/;. 12' ,)6,'0*6,)' .' 6'=) .>6/2*>*.. ' 1-'6' ;2 +*-.6/ /68' *L,*20 25',1'6//?6,*-6/1-562 [6, 12.')18*+*-'1,)^ *-8 .*'=.A7>)1/15 >6// '0 ., 25; .)*0'1-'0 + 2*/ '6// *0'' 20',) .' 1= 2 12')6.'5*2*-6// '1D,6 2*0'6?125')*2' 1 '=62,)*.,>'620'?6,*-6/.,>'+*8.'2'=)/1.1=)' 620'1' */65 62'620' 1> 2 62'+*8.'2',)*1/15 '' ;' .;-*/ ',' .' ?=1..D/*'>12. .,*2,/'8 ,)'410.'1?2=^ 1,*2> ',1'6//*5*',)*' 2*>*.. ,' 1-',)*' =18*-' 1',) .' /68'6.'*L .,25'2'0*.=,*'1') .'=/*6.;-*'620'=;-=1.*' ,1'>12., ,;,*' 1;-' 26,;-*' ;20*-'6'/68' 1'/ *'' I ,' .' ?1-*',)62'=-1D6D/*',)6,',)*' 1,)*-'1-0*-.'1'>-*6,;-*.' 8)1'08*//2'/ *' ?? 1-,6/ 2',)*')*6+*2/ '=/6>*.'6-*' 21,'6//.= - ,'1-'8 ,)1;,',)*-' -'182' ?10*'620' 1-?'1' 1-562 [*0'*L .,*2>*'' & *' 6-*' 6..;-*0',)6,',)*' D10 *.' 1',)*' - .*2' .6 2.,'6-*' >/1,)*0' 8 ,)' 2>1--;=, 12' 620' ?? 1-,6/ ,' & *' 9218',)6,'*+*2'6.'218'>12., ,;,*0' ,)*'/ *' 1',)*.*' -6 /D10 *.' 2' 62,*0 /;+ 62' 65*' 86.' =-1/125*0',1',)*' +*-5*' 1 '6' ? //*22 ;?' 20' 8)' .)1;/0' ,'D*',)1;5),' ?=1.. D/*' 1-' 410' ' .1' ,')60' =/*6.*0') ? ',1' *20;*',)*?' 8 ,)',)*' =1 *-.' 1-' =-1^ + 0*' 1-',)*?',)*' ?*62.' 1 '-*=6 - 25',)*' 8*6-' 620' 86.,*' 1 '/ *' .1' 6.',1'=-*.*-+*',)* -'=18*-.' 620' .*2^ . D/,*.' 2' ;26D6,*0' + 51-' 620' ,7.)2*..' 7*+*2',1' /*25,)'1 '06 .' 1-*+*-'620'*+*-'H' () .' >-=,;-*' 2^ 1-?.';.'86.' 2',)*' D*5 22 25'=-1+ .126// '1-06 2*0' ()*),*-)*6,*2 25'1 '0*6,)'6.',)*'=*26/, '1 '6'D-*6>)'1 ' ,)*'>1+*262,' .'-5),/ ';20*-.,110',1' ?=/ ',)*'=-1?1

) *' 1 '0*6,)/*..' 620' 2>1--;=, D/*' / *' .1' /125' 6.' ,)*' >1+*262,' .)1;/0' .,620⅛ 20',)*' ,-**' 1 '/ *' 2',)*' ? 0..' 1 ',)*' 56-0*2 ' '21,' D ' ,.' =) . >6ƒ + -.;*',)*' ?*62.' 1 '=*-=*,;6ƒ -*26+6, 12 '86.'>*-,6 2/ ',)*' .6>^ -6?*2,6ƒ =/*05*' 1 '410.' =;-=1.*' ,1' =-*.*-+*' / *' 2(' - 1/6,*' 8) /*' ?62' 86.' .,*60 6.,' ,1⅛,)*' >1+*262,⅛ ( ) ;.' -;2.',)*',*21-' 1 ',)*' >1+*262,'1-',)*' >12.,,;^ ,12' ;20*-' 8) >)' ?62 .' / *' 86.' 1- 5 26// ' 5 +*2' 20')*/0⅛I` ( )1;' .)6/,' 21,' *6,' 1 ',)*',-**' 1 '9218/^ *05*' 1 '5110'620'*+ /' 1-' 2',)*'06 ',)1;'*6,*.',)*-*^ 1 ',)1;' .)6/,' .;-*/ '0 *⅛ 20' 2',*-?.'*_;6// ''*L^ =/ >,',1',)*',-62.5-*.. 12'1',)*'/68' .',)*' *2,-62>*' 620'-* 52'1'0*6,)'1+*-'?62'6.>-D*0ƌ ' 12*'?62' .A' *2,*-*0' 2,1',)*' 81-/0'620'0*6,)'D ' . 2'620'.1' 0*6,)'=6..*0';=12'6// ?*2' 1-',)6,'6//)6+*' . 22*0⅛I' *,',D*'1D.*-+*0',)6,',) .'0*>/6-*.',)*'>6;.*'1'0*6,)' 6.' ,'-* 52.'1+*-'6// ?*2'12/ ⅛ ,'6 -?.'21,) 25'-*^ .=*>,25',)*'>6;.*' 1'0*6,)'6.' ,'-* 52.'1+*-'1,)*-'1-^ 0*-.'1'>-*6,;-*.' 2',)*'=-*.*2,'1-' 2'=-*>*0 25',.65*.' 1 ',)*'81-/0.'*L .,*2>*⅛ &)*,)*-' 2'62 '86A',)*' ?6')6+*'D**2'>12.,,;,*0';20*-'6'/68'1'0*6,)'D '62^ ,>=6,12'620'6.' 2'9**=25'8,)'6'.,6,*' 1',)25.' 2' 8)>)'0*6,)'.)1;/0'-* 52'1+*-'?62'8*'01'21,'+*2^ ,;-*',1'=-121;2>*⅛ ()6,' 20 -*>,/ '6.'6'>12.*_;*2>*' 1',)*-'-*/6, 12',1'?62'6.'6' . 22*-'656 2.,'410',)*-' .; *- 25.')6+*'D**2' 2>-*6.*0'620',)*-'/+*.')1-,^ *2*0' ,'.' ?=1.. D/*',1'01;D,'1-'0*2 ⅛ ;,' 2',) .' + *8'. 2'D*',)*'1>>6. 12'1',)*-'0*6,)' ,'>6221,'D*' 0*A;0>6// ' 1-'. 2⅛ ()*' >12,-6- '1=2 12' 8)>)' /125'620'5*2*-6// '=-*+6/*0',)6,',)*'>-*6,;-*.'8*-*' ?? 1-,6ƒ ;2, ƒ ?62'. 22*0')6.'6./ ,,/*',1'A;., ' ' 2' >-=,;-*'6.' 2'.>*2>*⅛ *6,)' ,' .',)*-*'.6 0' .',)*' /68'1',)*-'D* 25T 620',)*',-;*'01>,- 2*1',)*' >-=^ ,;-*' .'21.',)6,',)* '0*D*>6;.*'?62')6.' .22*0'D;,' ,)6,'?62'D*>6;.*')*')6.'.22*0')6.'1-*,*0' .'1-5^ 26ƒ 620')5)'0.,2>,12'620')6.'D*>1?*'/9*',)*' D*6..',)6,'=*-.)⅛ ,' .';22*>*..6-'')*-*',1' ?;/,^ =/' >-=;-*=-11.'1',).'68 ;ƒ 620')?D/25',-;,)⅛ +*-'12* .'6? /6-'8,)',)*' -*_;*2,'620'*_;+6^ /*2,',*.,?12*.',)6,'0*6,)' .',)*' -;,'',)*' 865*.' ,)*''*20'620'>12.;?*?6,12'1'. 2T620',)*'>->;?^ .,62>*'686'D',)*'6-?'1'A;0>6ƒ6;,)1-,'H 2'6//,)*.*' >6.*.' . 2'+ . D/'81-9 25'0*6,)⅛ 20' 8)/*' >?DA,,*-*0'620'D;-0*2*0'D'?62 1/0'=6 2'620'.1-^ -18.')18' --*. ., D/'01*.'>12.>*2>*' 8 ,) 2'0._;*,' 620'6/6-?';,'D',)*'>12+>, 12'1'5;/,'620',)*',*--1' 1'-5),*1;'A;05?*2,'H ;,'218'8)6,'.'0*6,)'1-'8)6,'01*.' ,' ?=1-,'6.' 62'6==1 2,*0'011?'H (1'62.8*-',) .'_;*., 12'-5),^ / '8*⅛-*_;-*',1'6.>*-,6 2',)*',-;*'>12.,,;, 12'1'1';-' 26,;-*⅛ D+1;./'0*6,)'?;,,'D*'+-'0 *-*2,' 2' ,)*'+*8'1',)*'?6,*-6/.,'8)1'-*56-0.'?62'6.'12/'6')5)*-'.=*>*.'1'62?6/'8)1.*'?*2,6ƒ620'?1-6ƒ 0.,2>,12.'6-*',)*'-*.;/,'1'6')5)*-'=) .>6ƒ1-562^ [6,12'620'2',)*A;05?*2,'1',)1.*'8)1'>12.0*-'?62'6.',)*'=1..*..1-'1'6'.1;/0.,2>,'-1?',)*'D10 ',)*'.;DA*>,'620'.*6,'1'6')5)*-'26,;-*I' ',)*'D10 'D*',)*'8)1/*1'?62'0*6,)' .',)*'*2O1')./*12.>1;.*L^ .,*2>*⅛ ')*'>12. .,'1'D10'620'.=-,'0*6,)' ?6' =-1+*'D;,') .'D-,)06' 2,1'621,)*-'620'?1-*' ?=1-^ ,62,'.,6,*'1'D*25⅛ 18',)' .'=1 2,'8)>)',//',)*' =-*.*2,')1;-')6.'=-1+*0',11')6-0'1-'?62I')?.*/',1' >/*6-',;=' >-=,;-*'0*>0*.'>12>/;.+*/'1-'6//8)1' 8//-*>*+*' ,.',*.,?12⅛ <62'.'D1,)'D10'620'.=-,',)*' -.,'=/6>25')?' 2'>1?;2 12'8,)',)*'1;,86-0'81/0',)*'.*>120'6// 25')?I,1'410'620',.=-,;'6/'>-*6,12⅛ ()*'-*>1-0'1')'=-?*+6/.,6,*'*L)D,.',)*'-*6/,'620'*'*>,'1',)'>1?=/*L'D*25⅛ &)/*)'*6-,)/'=6-60.*' */0*0',.'->)*.'620'=/*6.;-*.',1'*+*-'.*2.*'620'.*2.D/,'1')?62?6/26,;-*')')5)*-'/*1;20',.'6==-1=-6,*'620'=-*^ *?2*2,'1>>;=6,12'620'0*/5),' 2',)*'.*-+>*'620'>1?;2 12'1',)*'*'6,)*-'1')'.=-,⅛ ()*.*'+*8.'6.',)*'?652 ',)*'/*'8)>)'410'56+*' ;.'?;.,'D*'*/,'1'>1?=/>6,*',)*'26,;-*'620'*'*>,.'1'0*6,)⅛ :18',)*2'01*6',6 *>,';.'H 1*.',-*6>)',)*'8)1/*?62'D10'620'.=-,'H '.1')18'6-*',)*''.*+*-6//'620',15*,)*-'6 *>,*0'D',H'620'2'8)6,1-0*-'620'D'8)6,=-1>*..'01*.',>12.;?*6,*' 81-9H ⅛ *6,)'*L,*20.',1',)*'*2,-*'?62'620',1'*+*-'=6-,'1')..'26,;-*⅛ 56 2.,')?.*/',)*',)-*6,*2 25'86.'0-*>,*0''2',)*'06',)1;'*6,*.',)*-*1'"'.)6/,'0*⅛I' * 120'01;D,',)*'1;,86-0'?62'=*-.)C*,)'620'.;-*/',)*'22*-'?62',)*'.;DA*>,'1',)6,'.2'1'8)>)',)*'D10'.'D;,',)*'2.,-;?*2,'>6221,')6+*'.*>6=*0',)*'1->*'1',)*'0-*60'.*2,*2>*⅛ 410.'81-0'6..;-*.';.',)6,',)*'.1;ƒ,)6,'.22*,)'.)6//0*⅛ 6'.'.=*69.'1'?62'6.'6/-*60'0*60'8)1'*,'/+*.'2',)*'D10 T0*60',)*-*1-*'.=-,;6// ⅛ 2',)*'1,)*-')620',.=*69.'1'?*2'218'7+*',)-1;5)'5-6>*'8)1'.)6//2*+*-'0*')/*' *,',)*'5-6+*.'6-*'-*60'1-',)*?⅛ <*2'8)1'86/9'6,*-',)*'>1;-.*'1',)*'81-/0'620'/+*' 2'=/*6.;-*'6-*'=-121;2>*0''0*60'2'.2'0*60'8)/*',)*'/+*⅛ 20'8)/*'8)1.1'/1+*,)')..'D-1,)*-')7'*=6..*0'-1'?0*6,)';2,1'/*')*',)6,')6,*,)').'D-1,)^ *-'6D0*,)'2'0*6,)⅛I' ()*.*' >-=,;-*.'8)/*',)*'0.,25;.)'D*,8**2'D10'/'620'.=-,;6ƒ0*6,)'-*=-*^ .*2,'D1,)'6.'2>/;0*0'2',)*'.*2,*2>*'620',)-*6,*2*0' 620'*L*>;,*0'656 2.,',)*'.22*-⅛ K⅛ (1'8)6,'*⅛>,',)*2'01*.'0*6,)'*L*-,'.'=18*-'2=1=',)*'D10'620',)*'.=-,'.*+*-6// '620',15*,)*-H' ,'.'21,';2?=1-,62,',1'1D.*-+*',)6,',).'.'21,'*L^ 2,>,12'1'*L..*2>*'1-'622)/6,12'*,)*-'1',)*'121' 1',)*'1,)*-⅛ 1-'6',?*',/7*D10'-*,6 2.',' 1-=' 620',.';D.,62>*'')18*+*-')>)625*0'.'2*+*-'/1.,T ?;>)'?1-*A?6',D*'=-*.;?*0'.)6//,)*'.=-=',;-^ +*⅛ 1,'20**0',)6,'.=-.,?1-*',)62'D10'.'?^ ?1-,6ƒ 20*=*20*2,/'1'410.'8//');,),)6,'.** 25'),)*'=-*.*-+*.'1;-'2*-1-'=6-,')*'8//?;>)'?1-*'=-*^ .*-+*',)*')5)*-'620'?1-*'9 20-*0'=-10;>,'1')..'>-*^ 6,+*'=18*-⅛ ()*'*>,.'1'0*6,);=12',)*'D10'.^ .*/'6-*'6'?6,,*-'1'>1?2'1D.*-+6,12T ,_;>9/',;-2.',)*'>1?*/2*..'2,1'>1--;=,12'620'26//'-*^ 0;>*.',)*'1-?'620'.,-;>,;-*'2,1'.)6=*/*..'0;..⅛ ()*'*>,'1'D10/'0*6,)'12',)*'.=-,'1',)*'?62'8)1.*' 26,;-*'.',);.'0+0*0',?6'D*'?1-*'0>;/,',1'*.,^ ?6,*⅛ ()'.'?6'0*=*20'2'=6-,'12',)*'+6/;*'1',)*' *6-,)/'=1-,12')*')6.'/1.,'620'=6-,/77'12',)*' ;,;-*' =1-,12'12'8)>)')*')6.'*2,*-*0'D;,'>6221,'D*'2^ 0*-*2,'*,)*-',1',)*')/0'1'.1--18'1-',1',)*'.;DA*>,' 1'5-6>*'?1-*',)62',1',)*')*'-'1',)'81-/0'8)1?',)6.'.,-==*0'1')'.'8)1/*2)*-.,62>*'1'5110⅛ &)/*' 8*/119'12',)*'0*.*-,*0'620'?=6..+*'>1=-.*'620'.6' ',' .'6//1+*-'8,)')?'218⅟',)*'0.*?D10*0'.=-,'?;.,'.,//20',.*/','),)*',.;DA*>,'1'6'?6?*0'620'?^ =*-*>,'26,;-*⅛ 12.01;.2*..'D*/125.',1',.'26,;-*'620'?;.,'*20;-*'8)/*',)6.'D*25⅛ .,'=-1=*-'/*' /*.'2',)*')6-?12'620'.;DA*>,12'1'.'=18*-.'620'0.=1.,12.',1',)*'26,;-*'620'8//1'4101'.,'0*6,)'2'>12,-6-*,'620'*2?,',1')?⅛ ()'.'2+1/+*.',)*'0.^ -;=,12'1'6')1/'620'0;,;/'-*/6,12',1',)*'6,)*-'1'.=-,;.'620'D'2*+,6D/*'>12.*_;*2*'6'0*=-+6,12'1',)*'-;'<1'^ .,8**2'1;'620'#10' ⅛ 1'N⅛ ,'?6',*'20';-,)*-',1'>/*6-',).'.;DA*>,',1'21,>*'D-*/'"'1-0*-'620'=-1>*..',)-1;5)'8)>)',)*'81-9'1'0*6,)'.'>12.;?*?6,*0⅛ ()1;5)'2>;--*0'2.,62,6^ 2*1;./'12',)*'6>,'1',-62.5-*..12',.'*>,./1//18'D'.;>>*..+*'.,65*.'620'6,/?1-*'1-'/*..'0.^ ,62,'2,*-+6/.⅛ .'>6;.*0'D'.2',)*'.=-,;6ƒ?62'6.',)*'=-1=*-'.;DA*>,'620'.1;->*'1',)*'*+/'-.,'**/.' ,.'=18*-⅛ ,.'+*-',1>)'2,*->*=,'6//)..==''2,*-^ *L)D,.',)*'-*6/,'620'*'*>,'1',)'>1?=/*L'D*25⅛ &)/*)'=6-60.*' */0*0',.'->)*.'620'=/*6.;-*.',1'*+*-'.*2.*'620'.*2.D/,'1')?62?6/26,;-*.',1'*+*-'.*2.*'620'.*2.D/,'1')?62?6/26,;-*')')5)*-'/*1;20',.'6==-1=-6,*'620'=-*^ *?2*2,'1>>;=6,12'620'0*/5),'2',)*'.*-+>*'620'>1?;2 12'1',)*''*6,)*-'1')'.=-,⅛ ()*.*'+*8.'6.',)*'?652 ',)*'/*'8)>)'410'56+*' ;.'?;.,'D*' */',1'>1?=/>6,*',)*'26,;-*'620'*'*>,.'1'0*6,)⅛ :18',)*2'01*6',6 *>,';.'H 1*.',-*6>)',)*'8)1/*?62'D10'620'.=-,'H '.1')18'6-*',)*''.*+*-6//'620',15*,)*-'6 *>,*0'D',H'620'2'8)6,1-0*-'620'D'8)6,=-1>*..'01*.',>12.;?*6,*' 81-9H ⅛ *6,)'*L,*20.',1',)*'*2,-*'?62'620',1'*+*-'=6-,'1')..'26,;-*⅛ 56 2.,')?.*/',)*',)-*6,*2 25'86.'0-*>,*0''2',)*'06',)1;'*6,*.',)*-*1'"'.)6/,'0*⅛I' * 120'01;D,',)*'1;,86-0'?62'=*-.)C*,)'620'.;-*/',)*'22*-'?62',)*'.;DA*>,'1',)6,'.2'1'8)>)',)*'D10'.'D;,',)*'2.,-;?*2,'>6221,')6+*'.*>6=*0',)*'1->*'1',)*'0-*60'.*2,*2>*⅛ 410.'81-0'6..;-*.';.',)6,',)*'.1;ƒ,)6,'.22*,)'.)6//0*⅛ 6'.'.=*69.'1'?62'6.'6/-*60'0*60'8)1'*,'/+*.'2',)*'D10 T0*60',)*-*1-*'.=-,;6// ⅛ 2',)*'1,)*-')620',.=*69.'1'?*2'218'7+*',)-1;5)'5-6>*'8)1'.)6//2*+*-'0*')/*' *,',)*'5-6+*.'6-*'-*60'1-',)*?⅛ <*2'8)1'86/9'6,*-',)*'>1;-.*'1',)*'81-/0'620'/+*' 2'=/*6.;-*'6-*'=-121;2>*0''0*60'2'.2'0*60'8)/*',)*'/+*⅛ 20'8)/*'8)1.1'/1+*,)')..'D-1,)*-')7'*=6..*0'-1'?0*6,)';2,1'/*')*',)6,')6,*,)').'D-1,)^ *-'6D0*,)'2'0*6,)⅛I' ()*.*' >-=,;-*.'8)/*',)*'0.,25;.)'D*,8**2'D10'/'620'.=-,;6ƒ0*6,)'-*=-*^ .*2,'D1,)'6.'2>/;0*0'2',)*'.*2,*2>*'620',)-*6,*2*0' 620'*L*>;,*0'656 2.,',)*'.22*-⅛ K⅛ (1'8)6,'*⅛>,',)*2'01*.'0*6,)'*L*-,'.'=18*-'2=1=',)*'D10'620',)*'.=-,'.*+*-6//'620',15*,)*-H' ,'.'21,';2?=1-,62,',1'1D.*-+*',)6,',).'.'21,'*L^ 2,>,12'1'*L..*2>*'1-'622)/6,12'*,)*-'1',)*'121' 1',)*'1,)*-⅛ 1-'6',?*',/7*D10'-*,6 2.',' 1-=' 620',.';D.,62>*'')18*+*-')>)625*0'.'2*+*-'/1.,T ?;>)'?1-*A?6',D*'=-*.;?*0'.)6//,)*'.=-=',;-^ +*⅛ 1,'20**0',)6,'.=-.,?1-*',)62'D10'.'?^ ?1-,6ƒ 20*=*20*2,/'1'410.'8//');,),)6,'.** 25'),)*'=-*.*-+*.'1;-'2*-1-'=6-,')*'8//?;>)'?1-*'=-*^ .*-+*',)*')5)*-'620'?1-*'9 20-*0'=-10;>,'1')..'>-*^ 6,+*'=18*-⅛ ()*'*>,.'1'0*6,);=12',)*'D10'.^ .*/'6-*'6'?6,,*-'1'>1?2'1D.*-+6,12T ,_;>9/',;-2.',)*'>1?*/2*..'2,1'>1--;=,12'620'26//'-*^ 0;>*.',)*'1-?'620'.,-;>,;-*'2,1'.)6=*/*..'0;..⅛ ()*'*>,'1'D10/'0*6,)'12',)*'.=-,'1',)*'?62'8)1.*' 26,;-*'.',);.'0+0*0',?6'D*'?1-*'0>;/,',1'*.,^ ?6,*⅛ ()'.'?6'0*=*20'2'=6-,'12',)*'+6/;*'1',)*' *6-,)/'=1-,12')*')6.'/1.,'620'=6-,/77'12',)*';;;-*' =1-,12'12'8)>)')*')6.'*2,*-*0'D;,'>6221,'D*'2^ 0*-*2,'*,)*-',1',)*')/0'1'.1--18'1-',1',)*'.;DA*>,' 1'5-6>*'?1-*',)62',1',)*')*'-'1',)'81-/0'8)1?',)6.'.,-==*0'1')'.'8)1/*2)*-.,62>*'1'5110⅛ &)/*' 8*/119'12',)*'0*.*-,*0'620'?=6..+*'>1=-.*'620'.6' ',' .'6//1+*-'8,)')?'218⅟',)*'0.*?D10*0'.=-,'?;.,'.,//20',.*/','),)*',.;DA*>,'1'6'?6?*0'620'?^ =*-*>,'26,;-*⅛ 12.01;.2*..'D*/125.',1',.'26,;-*'620'?;.,'*20;-*'8)/*',)6.'D*25⅛ .,'=-1=*-'/*' /*.'2',)*')6-?12'620'.;DA*>,12'1'.'=18*-.'620'0.=1.,12.',1',)*'26,;-*'620'8//1'4101'.,'0*6,)'2'>12,-6-*,'620'*2?,',1')?⅛ ()'.'2+1/+*.',)*'0.^ -;=,12'1'6')1/'620'0;,;/'-*/6,12',1',)*'6,)*-'1'.=-,;.'620'D'2*+,6D/*'>12.*_;*2*'6'0*=-+6,12'1',)*'-;'<1'^ .,8**2'1;'620'#10' ⅛ 1'N⅛ ,'?6',*'20';-,)*-',1'>/*6-',).'.;DA*>,',1'21,>*'D-*/'"'1-0*-'620'=-1>*..',)-1;5)'8)>)',)*'81-9'1'0*6,)'.'>12.;?*?6,*0⅛ ()1;5)'2>;--*0'2.,62,6^ 2*1;./'12',)*'6>,'1',-62.5-*..12',.'*>,./1//18'D'.;>>*..+*'.,65*.'620'6,/?1-*'1-'/*..'0.^ ,62,'2,*-+6/.⅛ .'>6;.*0'D'.2',)*'.=-,;6ƒ?62'6.',)*'=-1=*-'.;DA*>,'620'.1;->*'1',)*'*+/'-.,'**/.' ,.'=18*-⅛ ,.'+*-',1>)'2,*->*=,'6//)..==''2,*-^ *L)D,.',)*'-*6/,'620'*'*>,'1',)'>1?=/*L'D*25⅛ &)/*)'=6-60.*' */0*0',.'->)*.'620'=/*6.;-*.',1'*+*-'.*2.*'620'.*2.D/,'1')?62?6/26,;-*.',1'*+*-'.*2.*'620'.*2.D/,'1')?62?6/26,;-*')')5)*-'/*1;20',.'6==-1=-6,*'620'=-*^ *?2*2,'1>>;=6,12'620'0*/5),'2',)*'.*-+>*'620'>1?;2 12'1',)*''*6,)*-'1')'.=-,⅛ ()*.*'+*8.'6.',)*'?652 ',)*'/*'8)>)'410'56+*' ;.'?;.,'D*' */',1'>1?=/>6,*',)*'26,;-*'620'*'*>,.'1'0*6,)⅛ :18',)*2'01*6',6 *>,';.'H 1*.',-*6>)',)*'8)1/*?62'D10'620'.=-,'H '.1')18'6-*',)*''.*+*-6//'620',15*,)*-'6 *>,*0'D',H'620'2'8)6,1-0*-'620'D'8)6,=-1>*..'01*.',>12.;?*6,*' 81-9H ⅛ *6,)'*L,*20.',1',)*'*2,-*'?62'620',1'*+*-'=6-,'1')..'26,;-*⅛ 56 2.,')?.*/',)*',)-*6,*2 25'86.'0-*>,*0''2',)*'06',)1;'*6,*.',)*-*1'"'.)6/,'0*⅛I' * 120'01;D,',)*'1;,86-0'?62'=*-.)C*,)'620'.;-*/',)*'22*-'?62',)*'.;DA*>,'1',)6,'.2'1'8)>)',)*'D10'.'D;,',)*'2.,-;?*2,'>6221,')6+*'.*>6=*0',)*'1->*'1',)*'0-*60'.*2,*2>*⅛ 410.'81-0'6..;-*.';.',)6,',)*'.1;ƒ,)6,'.22*,)'.)6//0*⅛ 6'.'.=*69.'1'?62'6.'6/-*60'0*60'8)1'*,'/+*.'2',)*'D10 T0*60',)*-*1-*'.=-,;6// ⅛ 2',)*'1,)*-')620',.=*69.'1'?*2'218'7+*',)-1;5)'5-6>*'8)1'.)6//2*+*-'0*')/*' *,',)*'5-6+*.'6-*'-*60'1-',)*?⅛ <*2'8)1'86/9'6,*-',)*'>1;-.*'1',)*'81-/0'620'/+*' 2'=/*6.;-*'6-*'=-121;2>*0''0*60'2'.2'0*60'8)/*',)*'/+*⅛ 20'8)/*'8)1.1'/1+*,)')..'D-1,)*-')7'*=6..*0'-1'?0*6,)';2,1'/*')*',)6,')6,*,)').'D-1,)^ *-'6D0*,)'2'0*6,)⅛I' ()*.*' >-=,;-*.'8)/*',)*'0.,25;.)'D*,8**2'D10'/'620'.=-,;6ƒ0*6,)'-*=-*^ .*2,'D1,)'6.'2>/;0*0'2',)*'.*2,*2>*'620',)-*6,*2*0' 620'*L*>;,*0'656 2.,',)*'.22*-⅛ K⅛ (1'8)6,'*⅛>,',)*2'01*.'0*6,)'*L*-,'.'=18*-'2=1=',)*'D10'620',)*'.=-,'.*+*-6//'620',15*,)*-H' ,'.'21,';2?=1-,62,',1'1D.*-+*',)6,',).'.'21,'*L^ 2,>,12'1'*L..*2>*'1-'622)/6,12'*,)*-'1',)*'121' 1',)*'1,)*-⅛ 1-'6',?*',/7*D10'-*,6 2.',' 1-=' 620',.';D.,62>*'')18*+*-')>)625*0'.'2*+*-'/1.,T ?;>)'?1-*A?6',D*'=-*.;?*0'.)6//,)*'.=-=',;-^ +*⅛ 1,'20**0',)6,'.=-.,?1-*',)62'D10'.'?^ ?1-,6ƒ 20*=*20*2,/'1'410.'8//');,),)6,'.** 25'),)*'=-*.*-+*.'1;-'2*-1-'=6-,')*'8//?;>)'?1-*'=-*^ .*-+*',)*')5)*-'620'?1-*'9 20-*0'=-10;>,'1')..'>-*^ 6,+*'=18*-⅛ ()*'*>,.'1'0*6,);=12',)*'D10'.^ .*/'6-*'6'?6,,*-'1'>1?2'1D.*-+6,12T ,_;>9/',;-2.',)*'>1?*/2*..'2,1'>1--;=,12'620'26//'-*^ 0;>*.',)*'1-?'620'.,-;>,;-*'2,1'.)6=*/*..'0;..⅛ ()*'*>,'1'D10/'0*6,)'12',)*'.=-,'1',)*'?62'8)1.*' 26,;-*'.',);.'0+0*0',?6'D*'?1-*'0>;/,',1'*.,^ ?6,*⅛ ()'.'?6'0*=*20'2'=6-,'12',)*'+6/;*'1',)*' *6-,)/'=1-,12')*')6.'/1.,'620'=6-,/77'12',)*';;;-*' =1-,12'12'8)>)')*')6.'*2,*-*0'D;,'>6221,'D*'2^ 0*-*2,'*,)*-',1',)*')/0'1'.1--18'1-',1',)*'.;DA*>,' 1'5-6>*'?1-*',)62',1',)*')*'-'1',)'81-/0'8)1?',)6.'.,-==*0'1')'.'8)1/*2)*-.,62>*'1'5110⅛ &)/*' 8*/119'12',)*'0*.*-,*0'620'?=6..+*'>1=-.*'620'.6' ',' .'6//1+*-'8,)')?'218⅟',)*'0.*?D10*0'.=-,'?;.,'.,//20',.*/','),)*',.;DA*>,'1'6'?6?*0'620'?^ =*-*>,'26,;-*⅛ 12.01;.2*..'D*/125.',1',.'26,;-*'620'?;.,'*20;-*'8)/*',)6.'D*25⅛ .,'=-1=*-'/*' /*.'2',)*')6-?12'620'.;DA*>,12'1'.'=18*-.'620'0.=1.,12.',1',)*'26,;-*'620'8//1'4101'.,'0*6,)'2'>12,-6-*,'620'*2?,',1')?⅛ ()'.'2+1/+*.',)*'0.^ -;=,12'1'6')1/'620'0;,;/'-*/6,12',1',)*'6,)*-'1'.=-,;.'620'D'2*+,6D/*'>12.*_;*2*'6'0*=-+6,12'1',)*'-;'<1'^ .,8**2'1;'620'#10' ⅛ 1'N⅛ ,'?6',*'20';-,)*-',1'>/*6-',).'.;DA*>,',1'21,>*'D-*/'"'1-0*-'620'=-1>*..',)-1;5)'8)>)',)*'81-9'1'0*6,)'.'>12.;?*?6,*0⅛ ()1;5)'2>;--*0'2.,62,6^ 2*1;./'12',)*'6>,'1',-62.5-*..12',.'*>,./1//18'D'.;>>*..+*'.,65*.'620'6,/?1-*'1-'/*..'0.^ ,62,'2,*-+6/.⅛ .'>6;.*0'D'.2',)*'.=-,;6ƒ?62'6.',)*'=-1=*-'.;DA*>,'620'.1;->*'1',)*'*+/'-.,'**/.' ,.'=18*-⅛ ,.'+*-',1>)'2,*->*=,'6//)..==''2,*-^ *L)D,.',)*'-*6/,'620'*'*>,'1',)'>1?=/*L'D*25⅛ &)/*)'=6-60.*' */0*0',.'->)*.'620'=/*6.;-*.',1'*+*-'.*2.*'620'.*2.D/,'1')?62?6/26,;-*.',1'*+*-'.*2.*'620'.*2.D/,'1')?62?6/26,;-*')')5)*-'/*1;20',.'6==-1=-6,*'620'=-*^ *?2*2,'1>>;=6,12'620'0*/5),'2',)*'.*-+>*'620'>1?;2 12'1',)*''*6,)*-'1')'.=-,⅛ ()*.*'+*8.'6.',)*'?652 ',)*'/*'8)>)'410'56+*' ;.'?;.,'D*' */',1'>1?=/>6,*',)*'26,;-*'620'*'*>,.'1'0*6,)⅛ :18',)*2'01*6',6 *>,';.'H 1*.',-*6>)',)*'8)1/*?62'D10'620'.=-,'H '.1')18'6-*',)*''.*+*-6//'620',15*,)*-'6 *>,*0'D',H'620'2'8)6,1-0*-'620'D'8)6,=-1>*..'01*.',>12.;?*6,*' 81-9H ⅛ *6,)'*L,*20.',1',)*'*2,-*'?62'620',1'*+*-'=6-,'1')..'26,;-*⅛ 56 2.,')?.*/',)*',)-*6,*2 25'86.'0-*>,*0''2',)*'06',)1;'*6,*.',)*-*1'"'.)6/,'0*⅛I' * 120'01;D,',)*'1;,86-0'?62'=*-.)C*,)'620'.;-*/',)*'22*-'?62',)*'.;DA*>,'1',)6,'.2'1'8)>)',)*'D10'.'D;,',)*'2.,-;?*2,'>6221,')6+*'.*>6=*0',)*'1->*'1',)*'0-*60'.*2,*2>*⅛ 410.'81-0'6..;-*.';.',)6,',)*'.1;ƒ,)6,'.22*,)'.)6//0*⅛ 6'.'.=*69.'1'?62'6.'6/-*60'0*60'8)1'*,'/+*.'2',)*'D10 T0*60',)*-*1-*'.=-,;6// ⅛ 2',)*'1,)*-')620',.=*69.'1'?*2'218'7+*',)-1;5)'5-6>*'8)1'.)6//2*+*-'0*')/*' *,',)*'5-6+*.'6-*'-*60'1-',)*?⅛ <*2'8)1'86/9'6,*-',)*'>1;-.*'1',)*'81-/0'620'/+*' 2'=/*6.;-*'6-*'=-121;2>*0''0*60'2'.2'0*60'8)/*',)*'/+*⅛ 20'8)/*'8)1.1'/1+*,)')..'D-1,)*-')7'*=6..*0'-1'?0*6,)';2,1'/*')*',)6,')6,*,)').'D-1,)^ *-'6D0*,)'2'0*6,)⅛I' ()*.*' >-=,;-*.'8)/*',)*'0.,25;.)'D*,8**2'D10'/'620'.=-,;6ƒ0*6,)'-*=-*^ .*2,'D1,)'6.'2>/;0*0'2',)*'.*2,*2>*'620',)-*6,*2*0' 620'*L*>;,*0'656 2.,',)*'.22*-⅛

(1 >*' 1 ',)*' 1-0' 410' 2',)*' 56-0*2' 86.',)*' ;2? .'(,696f /*' . ?=,1?'1 '6'.1;/ 6/-*60 '0*60' 2' . 2'8)>)' 06-*0' 21,'/ +*' 8 ,)' 410'1 8)/*').' *L=;/. 12' -1?' 410 .' =-*.*2>*' ?6-9*0' 21' /*..' >/*6-/ ',)6,' 410')60' >*6.*0',1'/ +*' 8 ,)') ?% ( );.' 86.' *L*>;,*0',1',)*' /*,,*-' ,)*' 81-0' 8) >)' 410' D60' .=19*2'7 ' " ' ' ,)1;' *6,*..',)1;'.)6/',.;-*/ '0 *%' ;',),)*' 81-9'1 ' 0*6,)',); .'D*5;2'01*.' 21,'.,1=')*-*% ()*' 0 .-;=, 12' 1 ',)*' >-*6,;-* .' -*/6, 12',1' 410' ,' ?6 ' &*// D*' >12^ >* +*0' ? ; .,' 2,-10;>*' 0 .1-0*-' 2,1' 6//',)*' -*/6, 12.' 620' 2,*-*.,.' 1 ' ,.' D* 25T' 21-' ;2/*..' 8 ,)' 6' + *8',1' .1?*' ;/,*- 1-' 0*. 52' 1 ' . 526/ A;05?*2,' 1-' 1 ' ?1-*' . 526/ ?*-> ' ? 5),' ,.' ;// 0*+*/1=?*2,'620' >12.;?^ ?6, 12' D*' /125' 0*/6 *0% ;,' 2' .;D.*-+ *2> ',1',) .' 0 *20' 01>.' ?62'/ +*' 12' 2',)*' D10 ' 1-' 6'.*6.12',)1;5)' 6.',1' 410' I)*' .' 0*60' 8) /*')*'/ +*,D% *,' ,' .' D;,' ;-' 6'/ ,,/*', ?*% &)6,*+*-' D*',)*' -*. ;/,' 1 ',) .' 06 ' 1 ' 1-D*6-62>*',)*' 81-9' 1 '0*6,)' 51*.' 12T ',)*' D10 ' .' 0*60' D*>6;.*' 1 '. 2 ' 7,D* ?1-,6/ *-D .'8)>)'686 ,.' *+*- ' 20 + 0;6/ ?62' 2' D .'182', ?*% .'0 ., 25; .)^ *0' -1?'.= - .;6/ ' ,' .'>6//*0',*?=1-6/ 0*6,)'6.' .;=*-(600 25' *L>/;. 12' -1?',)*',) 25.' 1 '*6-,)'620', ?*',1' ,)*'/1..' 1 '6//)6== ' 2,*-*..' 2' 410% ()*-*' -*?6 2.' D;,'12*' ;-,)*-' .,65*' *-*' ,'-*6>)' ,.'>1?=/*,*' 620' 26/ ..;*' D1,)' 2',)*' 20 + 0;6/ 620',)*' -6>*% &)*2',)*' 0*. 52.' 1 ',)*' 0 + 2*' 60? 2 .,-6, 12' 2' 1;-' 81-/0' 6-* 2 .)*0',)*' D10 *.' 1 '6// 8)1' ./**=' 2' 0;..',.)6// D*' -*1-562 [*0% ()*-*' .)6// D*' 6'-*.;--*>, 12' 1 ',)*' A;.,' 620' 1 ',)*' ;2A;.,% &)/*',)*' A;.,' D ' 6 ,)',)-1;5)' 5-6>*' .)6// D*' -6 .*0',1'/ *' 2>1--;=, D/*' 620' 5/1- 1;.' ,7D* ;2A;.,' ?=*2 ,*2,' 620' ;2D*/ *+ 25' .)6// 6866,*' ,1',)*' -*.;--*>, 12' 1 '06?26, 12% ()*' 8)1/*' ?62' .)6// 51' 686 ' -1?',)*' 5/1- ' 620' A1 '1 ' 410 .' =-*.^ *2>*' 2,1'*+*-/6., 25'=;2 .)?*2,% ().' .',)*' .*>120' 0*6,)%' *** 6/.1' /*,>)*-' + ' M % *0%X' ' Q < %T &*./* ' + ' M % 1-9'*0%X' ' T ' / ' T 086-0. ' + ' M ' % Q Q' ' S+1X' ' K' %QR ._%T &6,.12' 1' ' Q S T <6-,*2.*2' " ' ' M 0 2D% QS X' g QC K' **>' 4 4 (%

6,)' -1,)-.' 1 '6' 26?*' 5 +*2',1',)*' -*/ 5^ 1;.' 1',)*' 1-0*-' 1 ',% 6;/',)*' -.,')*-? ,' 12' 6>^ >1;2,'1',)*' 5;-*' 1 '6'0*6,) .')*60' 8)>)',)* '+-*-* 6/86 .',1')6+*' 8 ,)',)*?' 2' 1-0*-',1'9**=' =*-=*,;6// ' D* 1-*',)*?',)*',)1;5),'1 '0*6,)% ()*' 1-0*-' 86.'.;=^ =-*..*0' D '=1=*' $-D62' % ' ;>9' -" !' ' .'+%

* D -' M:*D% ' " (1' 7' 1 1 ,*2'6==/ *0',1',)*' (6D*-26>/*' 620' (*?=/*X',)*' 26?*' 1 ',81'1-',)-*'*=/6>*.' 620' 6/.1'1 '6' ?62%

d% D;,' 2'B;05% 620')-12% T *=,' J %' f T@:#/' 2' B1.)' L+7' % RT' LL ' ST' B;05% ' h' +%-% 6/N> =T ;/5% ' " 81'6',182' 2',)*' ?1;2,^ 6 2.' 1 'B;06)'MB1.)' L8 ' RX' 12*' 1 '6' 5-1;=' 1 '*/*+*2' >, *.',1',)*' 8*..' 1 ' : *D-12' M * /' 2' /1> X' 2' 6' =6->)*0' -*5 12' MB;05% ' C X% 2',)*' 26--6^ , +*' ,' .' ?*2, 12*0' 6.' D* 25',)*' 2*L,'=/6>*' 8)>)% B1.);6',119' 6 ,*-' : *D-12' ML' QQX% ,' 86.',)*' .*6,'1 ' 6' 62662 , .)' 9 25' ML' NRT' L ' NX' 620' 86.' 12*' 1 ',)*',182.' 1 ',)*' 269 ?' 620' -1?' 8)>)',)* '8*-*' ;,,*-/ ' 0*.,-1 *0' D ' B1.);6' ML ' K X% ()*' *6-/ *-' 26?*' 1 ' *D -' 86.' 1 5 ' 4 / ' 'MB1.)' L+' T B;05% ' X' 620' > 5 ' 4 -' MB1.)' L+' RX% M **',)*.*' 26?*.%X ()*' -*>1-0.' 1 ',.'>12_;*.,'+6- ',)1;5)' 21,' +*- ' ?6,*- 6// % 2' B1.)' L+' ' 620' B;05% ' N' 6' 0*,6 /*0' 6>>1;2,' .' 5 +*2' 1 ',.'>6=,;-* D ',)2*/' .12' 1 ' *26[' 1-' /1+*' 1 ' >).6)',)*' 06;5),*-' 1 ' 6/*D' 8) /*' 2',)*' 5*2*-6/) .,1-' 1 ',)*' >12_;*.,' ,' .' 6.>- D*0',1',)*' 5-*6,'>1? ?620*-') ?^ .*/' MB1.)' d' QQA-NR' 8)*-*',)*' 26?*' 1>>;-.' 8 ,)' 2 /1>6/ 6 L*0' ' "("1' *+*2' 8 ,)' =-* L*0X% ,' 86.' 12*' 1 ',)*' > , *.' 5 +*2' 8 ,)',)*' -' .;D;-D.J' M0 B 7X',1',)*' =- *.,.' MB1.)' LL ' ST')-12% + ' QX% *D -' 01*.' 21,' 6==*6-',1')6+*' D**2' 392182',1'B*-1?*' 21-')6.' ,'D**2'0 .>1+*-*0' 8 ,)' >*-(,6 2,E7 2' ?10*?', ?*.% D1;',)-*'*' ? /*.',1',)*' &

1 ' : *D-12' .' 6' 0**=' 620' .*>/;0*0' +6//* ' >6//*0',)*' & 60 ' ;29;-' *2>/1.*0' 12',)*' 21-,)' D ') //.' 1 '8)>)' 12*' D*6-.' 6' 26?*' >*-,6 2/ ' .;55*., +*' 1 ' *D - ' >(b8 ' M **',)*' 26--6, +*' 1 ' 1.*2' 2',)*' . "!' !' ' Q '=% CS X% ()*' .;DA*>,' 620' 20**0' ,)*' 8)1/*',1=15-6=) '1',) .'0 .,- >,'-*_;-*.' ;-,)*-' *L6? 26, 12# 2',)*' ?*62', ?*' ,' .'=*-)6=.'.1?*'>12^ -?6, 12' 1 ' -% 1.*2.' .;55*., 12',)6,'6' + //65*' 1-' .,*' 12' 12*' 1 ',)*.*') //.' .'=1 2,*0'1;,'6.'>6//*0' ' ,)*' -6D >'26?*' 1-'B1.);6% >)86-[' IDZ + ! =%QSX' .=*69.'1 '6' ' ' 2 ',) .'0 -*>, 12% 62'0* *0/*' I '=%N X' 20.' *D -'6,' "1'. L'? /*.' %&*' 1 ' : *D-12 I8)*-*' ,*86-,'I- ')" ' = 'KKN KK X' ?*2, 12.'6' .=- 25' D-1;5),'0182' -1?'6')5)',1'6'/18' /*+*/*D '62'6_;*0;>,'M>1?=% ',)*' %% '620',)*' " ' .=- 25.J' 1 'B;05% ' X% ' ? ,)' .'%+% K% M! NHT *=,' ' % %-,N' G' % % 1' (& %T ;/5% ' " 8' 6'=/6>*' 12',)*' 21-,)' D1;206- ' 1 'B;06)' 2*6-',)*' 6//*' 1 ' >)1-J' MB1.)' L+' X' 620',)*-* 1-*' .1?*8)*-*' 2',)*' >1?=/ >6, 12.' 1 ') // 620' -6+ 2*' D*) 20' B*,7>)1% *' 6;/> ' I7 ' K X' 6,,6>)*.',)*' 26?*' -" ' A' " O',)*' -; 2*0' 9)62' 12',)*' 5),' 1',)*' -160' -1?'B*-;.6/*?',1'B*-^ >)1'6,' 8)>)',-6+*//*-.' ;.;6// ' ,1=',1' -* -*.)T D;,' ,)' .' 21,' >1--1D1-6,*0' D '62 '1,)*-',-6+*//*-.' ;2/*..' ,' D* >)86-[' I ' =%R X' 620',)*' .' 0 .=1.*0',1' 0*2, ',) .' . ,*' 8 ,)',) .' 620',)*' 1-*51 25' =/6>*' 21-'01*.',)*/1>6/ , '65-**' 8 ,)',)*' .>- =,;-6/ 2, ?67' , 12.% ()*' 26?*' ;.;6// ' 5 +*2',1' ,' D ',)*' -6D.' .')62' :6,)*-;-6)% ' ' ' .' ?6-9*0' 2' 62' 0*' */0*.' ?6=' 6.'/ 25'>/1.*',1',)*' %1' *D ' <;.6' 6',)*' %& ' >1?*-' 1 ',)*' *60' *6' M.**' *' 6;/> ' 7 !' ' SN' X' 8)>)' =-1D6D/ ' 5 +*.' 6' ,-6>*' 1 ',)*' 62> *2',,182' 6.' /1>6,*0' 12',)*' % %' 1 ' ,) .'+6//*' %' **' o ! N% ()*' D1-0*-' M77 ' X' 1 ' *D -J' M /7 ' " 1' *=,% & % %'+%-% & %' 620' & 1 T ;/5% ' 8' .' 26?*0' 6.' 1-? 25'=6-,' 1 ',)*' D1;206- '1 ' 460' MB1.)% L ' KSX' 620' 6.' 6==6-*2,/ ' 21,' 6-' -1?' <6)626 ?% */620' I@ '=% N X' >12A*>,;-*.',)6,',)*' 26?*' ?6 ' D*',)*' .6?*' 6.') 'M_%+%X' 8)>)' .' 8- .,*2' . ?^ /6-/ ' 1-' 7 7X' 620' /6 ' 2',)*' .6 *' + > 2^ ,' MK' 6?% L' ' SX% 25' 2',)*' 5-6[25' >1;2,-' 12',)*') 5)' 0182.' *6.',1 'B1-062',)*' 26?*' .' 01_D,' /*..' >122*>,*0' 8 ,)' .6?*' 81-0' 8)>) .',)*' -11,'1 ' ',)*' 8 /0*-2*..' 1-' =6.,;-*' M.** 4*.*2 ;.' -" !' # "!' =% N QX% % M7 I N T *=,% 6= =' +% -% 6=.,=' 620' & IC T 4';/5% ' 8',)*' 9 25' 1 ' 5/12' 2',)*' /18' >1;2,-' 1' B;06)' T 12*' 1 ',)*' +*' 62662 , .)' %=- 2>*.' 8)1' A1 2*0',)*' >12 *0*-6> ' .;? ?12*0' D ' 012 [*0*9' 1 ' B*-;.6/*?'620' 8)1' 8*-*' 0* *6,*0' >12 2*0' 2' 6' >6 *' 620' 6,'/*25,)')625*0' D 'B1.);6' MB1.)' L ' N' KNX% % % S N% *D7 1-6' \=-1=% ' (1' M VNVN8=0' 1-' & CI$IhG% ' -1?',)*' : *D% ' +8' 6' 81?62' 1 ' 6=D,6/ ' ?1,)^ *-' 1 ' (1D */',)*' 6,)*-' 1 ' (1D ,' M(1D% ' QX% *D1-6)% ' *' 8 ! *D 1-6)' M: *D% 2 I A ' 0* *>, +*/ J' 7 X' 4*2% ddd ' QT' B;05% +' T +' h' 6' ' 6.' 1 ,*2' \>1?=',)*' 26?*.' < d,466' 620' 2 f T *=,% C' =1==4' +% -% \ 2' B;05% h' & * * % :' B1.*=);.' *V7Z =6' & ! ' S' KhX',)*' 26?*' 1 ',81'81?*2% *' IA T BD*' 2;-.*' 1 ' *D*96) IM4*2% LLL+' QX% ;-.*.')*/0' 6') 5)' 620')121-6D/*' =/6>*' 2' 62> *2',, ?*.' 620' *.=*> 6// ' 2',)*' 6.,' MK' 25.' L ' KT' :1?*-' , f ' IKR% -5 / @%O O% + ' KT' %72* 6' 2;,- LTJ' + 0 BV*7 L + ' X' 8)*-*',)*' 8*-*' 1 ,*2',)*' =- 2> =6/ ?*?^ D*-.' 1 ',)*' 6? / ' MK')-12% Ld ' T B6)2' ; " !' & "!' g SSX% *D1-6)'6>>1?=62 *0' *D*96)' -1?',)*')1;.*' 1 '#*,);*/ M4*2% LL + ' SRX' % 'K KQT' D;,'.)*' .' 12/' ?*2, 12*0' D '26?*' 12',)*' 1>>6. 12' 1 '/7*-' D;- 6/';2^ 0*-',)*' 169C,-**' 1 ' *,)*/' 8)>)' 86.' >6//*0' 2')*-')121-' $12C 6>);,)' M4*2% LLL+' QX% % % R S%

;>)' .=1,.' 8*-*' ; . ; 6// ' >)1.*2' 1-' ,)*' = ; -=1.*' M4*2%' LL ' Q[' ' 6?%LLL ' N[' K 25.' LL ' Q'*,>%X% < 62 ')6+*' D**2' = ; [[/*0' 6,' 20 25')*-' 2'D (' 6?^ / 'Ť ,' .' ; 2/ 9*/ ' ,)6,' .)*' 86.' .*2,',1' . ; ? ? 12' B6>1D' -1?' : 6-62' M6.' B6->) ' . ; 55*. ,.X' 1-' ,)6,' .)*')60' -*^ , ; -2*0' 0 ; - 25' ,)*' / *, ?*' 1 ' ,*D*96) ' 620' 86.' 21(+& >1? 25',1'+ . ,')*-'M6.' D6-D62*/ 620'1,)*-.' .6 XŤ D ; ,' .)*' ?6 '+*- ' 8*//)6+*' -*, ; -2*0' 6,' *D*96) .'0*6,)' 620',)6,' .)*' 0*60' .' =-1D6D/*' -1?' ,)*' 1? .. 12' 1 ')*-' 26?*' 2' 4*2% LLL+ ' K Ť 620' ' 6>>1-0 25',1' ,)*' B*8 .)' /*5*20 ' B6>1D' -.,')*6-0' 1 ') .' ?1,)*- .' 0*6,)' 6,' ,) .' .=1,' ,' 8 // D*' 62' 600 , 126/ -*6.12' 1-' ,)*' 26?*' 1 ' ,)*' ,-**' 620' ! % ' D*' ?=/ *0' 2' ,)*' *L=-*.. 12' % % D/*..*0J M4*2% LLL+ ' RŤ .**' ,11' 86/0' ? "' 'NR X% ' ? ,)' .% %

K% ' =-1=)*, *.. ' 8 *' 1 ' 6= 01,) J' 8)1' A ; 05*' .-6*/ MB ; 05% +' +X' 2' >122*>, 12' 8 ,)' 6-69' M % +%X% % % RC NSR% : *-' 26?*' ?6 ' ?=/ ' 21,) 25' 8)6, ^ *+*-' D* 25' 6' ?*-*' 6==*//6, +*' 0*- .+*0' / 9*' 6>)*/ M6' /6?DX' (6?6-' M6' =6/?X'*, >% ' -1?' 26, ; -6/ 1DA*>, .Ť 6/) 1 ; 5)' .)*' 86.' M6.' 1?% 6' 6= 0*' _ ; 6 2, / ' = ; , ' ,X' 1' " ' ! 1?*')18*+*-' .** 2' ,)*' 26?*' 62' 1 >6/ , ,/*' ?=/ 25')*-' =-1=)*, >' 6 ; ^ ,)1-, % ' D**' 86.' 62' 5 =, 62' .A22D1/ 1 ' -*56/ =18*-' M>1?=% 6// ?' D ' SS' 620' 6 !' ' .% +% = ' * X Ť 620' 6?125',)*' 4-**9.',)*', *-?' 86.' 6==/ *0' 21, ' 12/ ' , 1' =1*, .' I ' % ' : 1-6>*X' 620', 1',)1.*' =*>; / 6-/ ' >)6.,*' M6.' D ' ,)*' *1=/6,12 . , .X' D ; ' *.=*^ > 6// ' , 1',)*' =- *. , *. . *. ' 1 ' */=) ' IEI f % ' % O =' ' & O % # 20% ' + ' SX' D*/*' 620' , , *? . ' M -*; [*-' $ +' 'N '*, >%X' A ; . , ' 6.' * ' &6.', 1' ,)*' =- *. , ' M 00*// 620' >1, , ' .% +%X% 2' D1,)' ,)*.*' .*2.*.',)*' 26?*' . ; . ')*-' . 2>*' .)*' 86.' *. .*2, 6// '6' +6, *.' 1-' .**-' >1?D 2 25',)*' ; 2>, 12.' 1 '=1*, -' 620' =-1=)*> '%.**' ,62/* 'D "' " "' 'N Q' ._ X%

)*' / +*0' =-1D6D/ ' 2' 6', *2, ' ; 20*-' ,)*' =6/?C, -**' 1 ' *D1-6) 'D*, 8**2' 6?6) '620' *,)*/ 2' < 1 ; 2, ' =)^ -6 ?' MB ; 05% +' SX' 8) >) ' 6.' =6/?C, -**.' 8*-**' -6-*' 2' 6/*., 2*' .' ?*2, 12*0' 6.' 6' 8*/C92182' 620' .1/ , 6- ' /620?6-9' 620' 86.' =-1D6D/ ' ,)*' .6?*' .=1, ' 6.' ,) 6, ' >6//*0' MB ; 05% LL ' NNX' 66/C(6?6-' 1-' ,)*' .62>, ; 6- ' 1 ' ,)*' =6/?' M , 62/* ' ' =% X% 12' 1))/*2' M=% NN X',) 29.',) 6, ',) . ', -**' .' 0*2, >6/ 8 ,)' /12C 6>)C ; ,)' M4*2% LLL+ 'QX',)*' 26?*' 620' /1>6/ , ' D* 25' 2*6-^ / ',)*' .6?*' M 86/0' ? "f ' NR X' 6/,) 1 ; 5)' , ' ; 2) . , 1- >6/ , 1' .6 ',) 6, ' ,) . ' '?6 ') 6+*' . ; 55*. , *0' 6' 26?*' 1-' ,)*' 2 ; -. *J' M : 6+*-2 >9 . ' ' ' '=% K Ť 6/ .>) ' ? f 60' /1>%X% 1 .. D/ ' , ' .' 656 2' ?*2^ , 12*0' 6.' ,)*' 169' 1 ' (6D1-J' 2' ' 6?% L ' N M8)*-*' ()*2 ; .' 81 ; /0' -*60' B(A) ' 1-' : / , BX% , ' 62 ' -6, *' , ' 86.' 6' 8*//C92182' , -**' 620' .)*' ?6 %)6+*' >)1.*2' , ' -1?' , .' =-*+ 1 ; .' 6 . .1> 6, 12.% **' < !

')*' 86.' =-1D6D/ ' 6' 81?62' 1 ' =)-6 ?' 6/,) 1 ; 5)' -1?' ,)*' *L=-*.. 12' 2' B ; 05% +' ' .1?*' . ; ==1.*' >*-' , 1')6+*' D*/125*0' , 1' ..6>)6-' M 86/0' ? "f ' QRX% ()*' *L=-*.. 12' .' ? ; >)' 0 .=; , *0Ť . ' . 5*2*-6// ' ,)1 ; 5), ' , 1' ?*62' '8 *' 1 ' 6= 01,) J' 6.' 2' % ŤD ; ' 1,)*-' +*-. 12.' -*20*-' , ' ; L1-' =- 2> = . J' 1-' ' >*? 26' 6= 01,)626J' M ' ,)6, '5-*6, '06?*' 1 ' 6=C' 01/) J' (*22 .12X' 1-' ' % ' % *% 12*' 0 ^ + 2*/ ' //; ? 26, *0' . 2>*' 2 (Db/ 5), 2 25 . % ; ' ,)*' ?1. ' =-1.6 > ' 21, 12' . ' ,)6, '1 ',)*' 6DD . ' 8)1', 69*' , ' , 1' ?*62',)6, ' .)*' 6, , *20*0', 1',)*' , 6D*-26>/*' /6?=. ' -1?' %% '6' /6?=C ()*' *-2', *-? 26, 12' . ' 1 , *2' 1 ; 20' 2' ?*2 . ' 26?*. ' 6. ' 2')*/1?,)' M ')-12% LL 'RX' 1)*/*,)' *, >% 6=01,) ',)*2' 86. ' =-1D6D/ ' A *-') ; . D620' 620' 21,' 6-69' 6. ' .1?*' .6 % **') / 4' 21 (: ' %

)*' 86.' 21,' .1' ?; >)' 6' A ; 05*' M6', , /*' 0-) >)' D*/125. ' -6,) *-', 1' 6-69' : *D% L 'NKX' 6.' 12*' 5 , *0' 8 ,)' =-1^ =)*, >' >1?? 620' MB ; 05% +' S Ť +' X' 620' D ' + -, ; *' 1 ' *-' 2.= -A , 12' 6' ?1,)*-' 2' .-6*/% J' : *-' .*L' 81 ; /0' 5 +*')*-' 600 , 126/ 8* 5), ' -1?',)*' =*>; / 6-, ' 1 ',)*' > ->; ?. , 62>*' 6.' 2' ,)*' 2. , 62>*. ' 1 ' < -6? : ; /06) ' 226 ' 160 6)' MK' 25.' LL ' Ť *)% + ' X% : *-' 1 > 6/ 0*. 526, 12' =-1D6D/ ' ?*62. ' ,) 6, ' .)* 86.',)*' 1-562' 1 '>1?? ; 2 >6, 12' D*, 8**2' 410' 620') .' =*1=/*' 620' =-1D6D/ ' 12' 6>>1 ; 2, ' 1 ' ,)*' 2 /; *2>*' 620' 6 ; ,) 1- , ' 1 ')*-' >)6-6>, *-' 86.' 6>>1 ; 2, *0' 2' .1?*' .1-', 6.',)*')*60' 1 ',)*' 26, 12', 1' 7) 1?' _ ; *. , 12. 1 '01 ; D, ' 620' 0 >; /, ' 7+*-*' -* *--*0' 1-' 0*>. 12% **' ($! -1?',)*' 2, ?6, 12.' 8) >)',)*726--6, +*' M*.=*> 6/^ / ')*-' .125X' >12, 6 2.' 620' -1?' 1,)*-' > ->; ?. , 62>*. ' ,)*' =*1=/*' 81 ; /0' 6==*6-', 1')6+*' . ; 29' 2, 1' 6' . , 6, *' 1 ' , 1, 6/ 0 .>1 ; -65*?*2, ' ; 20*-',)*' 1==-*.. 12' 1 ',)*-' 6C' 2662 , *. ' .1',) 6, ' , ' 86.' 0 >; /, ' , 1' -1 ; . *',)*?' -1?' ,)*-' 0*.=120*2> ' 620', 1' 20 ; >*',)*?', 1' ?69*' 62 ' *L*-, 12', 1' D ; -. , ' ,)*' *, , *-.' 1 ',)*-' D12065*% -1?' ,)*' 5-6, , ; 0*' 8)>)' *D1-6)' *L==-*. . .*. ' , 186-0.' ,)*' 3 ==*1=/*' 1-' ,)*' * 1-, ' 8)>)' ,)*' 26// ' ?60*' 8>' 6-*' 86--62, *0' 2' 0-68 25',)*' >12>/; . 12' ,) 6, ' .)*')60' /125' 3*20*6+1-*0', 1' 2. , 56, *',)*?', 1',) .' . , *=' 2' +6 2% ' , /*25,)' .)*' . ; ? ? 12*0' 6-69',)*' .12' 1 ' D 216?' -1?' *0*.)' 6' > , ' 1 ' 6=), 6/ '12' 6' ?1 ; 2, 6 2' 21, ' 6-' 1?' : 0[1-' 620' ?60*' 92182', 1') ?' ,)*' 8 // ' 1 ' 410',) 6, ' D1' .) 1 ; /0' ; 20*-, 69*' 62' *2, *-=- . *' 1-',)*' 0*/ +*-62>*' 1 ' D . ' >1 ; 2, - % ; , ' ; >)' 86.') . ' 0 .) *6-, *2*0' .6, *' 1 ' **/ 25' 620' 6, ',)*' .6?*', ?*' . ; >)') . ' >12 0*2>*' 2' ,)*' . ; =*- 1-' >)6-6>, *-' 620' 6 ; ,) 1- , A7 1 ' *D1-6) ',) 6, ')*' 6 . .*2, *0', 1' 51' 12/ '12',)*' >120 , 12',) 6, ' .)*' 81 ; /0' 6>>1?=62 ') ?% B6D 2 . ', A7-622 ' 86.' =*>; / 6-/ ' */, ' 2',)*' 21-,)*-2', -D*. ' 8) 1' 8*-*' 2*6-') . ' >6= ,6/ 620' ; 20*-') *-' A ; - .0 >, 12' + [% U*D ; /12' 6=), 6/ ' 620' .^ .6>) 6-Ť)*2>*' 8)*2' .)*' . ; ? ? 12*0' 6-69', 1',)*' 0*^ / +*-62>*' ', 86.' 12',)*' ?',) 6, ',)*' D- ; 2, ' 1',)*' D6, , /*' *//Ť D ; ', ,)*' 8*-*' A1 2*0' D ',)*' 60A6>*2, >*2, I6/% , - D*. ' =) -6 ?' < 626..*) ' 620' *2A6?2',) 1 ; 5)' 21, ' D ',) 1. *' 1',)*' *L, -* =*' 8*., ' .1 ; ,) ' 620' *6. % $20*-') *-' 0 ->, 12' 6-69' *2>6?=*0' 12' ,)*' D-160' . ; ? ? , ' 1 ' (6D1-J' MB1. *=) ; . ' (6-' 'K 'SX% !&)*2' 6.9*0', 1' 6>>1?=62 ') ?' .)*' 62.8*-*0' 20 5262, / ' ()1 ; ' ' 6-69' 0*/ +*-*. , ' ; =' ?*62/ ',)*' 6 ; ,) 1- , ' 8) >)' 410') 6,)' 5 +*2',)*' *) 620.' 1' 6' 81?62?2*,)*-' 01' '-*A*>, ' , J' MB1.*=) % & '+' 'KX% ()*' *=, ' 2, *-^ =1/6, *. ' ,)*' 81-0.' D*>6 ; .*' '9218' 21, ',)*' 06 ' 8)*2' ,)*' 1-0' 8 // *. >1-, ' ?*' D ') . ' 625*/J' 6.' 6' .1-, ' 1 '*L^ >; .*' 1-' 6-69 . ' -* _ ; *. , ' M +' QŤ >1?=% Ť +' KNX% &) *2' ,)*' . ?6// D620' 1 ' _ //C6-?*0' MB ; 05% +' 'QX' .-6*/ , *. ' .68' ,)*' 0*2.*' -12' >)6-1, ' 1 ',)*' *2*? ' ',)*' 8*-*' .1' -5), *2*0',) 6, ',)*' 8 .)*0', 1' ?6->)' 1 '6, ' 12>*')60' 21, ' *D1-6)' 0*, 6 2*0',)*?' 620' >1?620*0',)*?', 1' 5), ',)*' *2*? ',) 6, '+*-' 06 J' MB1.*=) % ' >%X% ()*' 0 0' .1' D ; , ' *D1-6) . ' =-1=)*> ' 86.' ; / //*0' MB ; 05% +' RX' 620',)*' *2*? .' 5*2*-6/ =*- .)*0' 6?125',)*' 169.' 1 ',)*' 8620*-*-.' MU6626 ?X J' 2',)*' , *2, ' 1 ',)*' *0^ 1 ; 2' *2 , * .' 8 *' MB ; 05 ' + ' K X' 2',)*' 21-,)*-2' ?1 ; 2C1' , 6 2. % 1-',)*' 26, ; -6/ =)*21?*26' 8) >)' 6 0*0' MB ; 05% ' K %K X',)*' + >, 1- '620',)*I1,)*-' 0*, 6 /.' M 1-' 8) >)' 8*') 6+*' 6?=/*' 6 ; ,) 1- , ' 2',)*' , 81 1/0' 26-6, 12' 2' =-1.*' 620' =1*, - X' .**' 8 15' 8)*-*' 8*') 6+*' 6/.1' *2^ , *-*0' 12',)*' _ ; *., 12' 1 ',)*' >)-121/15 'M 86/0' ? "' ' QRC R X% % % R% ()' 5-*6, ' + >, 1- ' 8) >)' .**?.', 1') 6+*' D**2' 1//18*0' ; =' D-19*',)*' =18*-' 1 ',)*' 26, +*' =- 2>*. ' 620' .*>; -*0', 1',)*' .-6*/ , *. ' 6' -*^ =1.*' 1 ' 1-, ' *6-. ' 0 ; -6, 12' MB ; 05% N X% ; - 25' =6-, ' 1 ',) . ', ?*' *D1-6)' =-1D6D/ ' >12, 2 ; *0', 1' *L*-^ > .*')*-' 1-?*-'6 ; ,) 1- , Ť D ; , ' 21,) 25' ?1-*' 1 ')*-') .^ , 1- ' .' 92182% **' ()1?.12' ' ' ; +' ' Ť : ; 2, *-' $ ' ; ' +' RQŤ : ; 5)*. ' @ ' " ' ' KRS% CC ,, 1' . ' Ť ? ,)' .% +%

D1-6) .' , ,/' 1' '=-1=)*, *..J' M2k X' 2>/ ; 0*.' , *' 21, 12' 1' 2. = -*0' =1*, - '6.' 2' L10% L+' K Ť 620' 2`,) .' .*2.*',)*' 5/1- 1 ; .' , - ; ?=)6/10**' MB ; 05% +X' 8*// + 20 >6, *.') *-' >/6 ?', 1',)*' 1 >*% () .' .125' 8) >)' 86.' >1?=1.*0' 2' >12.*_ ; *2>*' 1 ',)*' 5-*6, '+ >, 1- '1+*-' .*-6' .' .6 0', 1')6+*' D**2' '., ; 25' D ' *D1-6)' 620' 6-69%J' **' (' , ' .' ; . 6//E' -*56-0*0' ,)*' >1?=1. , 12' 1' *D1-6)' .**' U*/, 2*-' ; ' ' % %" ' ' /, % QX' 620' 86.' =-1D6)/A C 2CY' 0 , *0' D ' D*-', 1' D*' . ; 25' 12',)*' -*, ; -2' 1 ' 6-69' 620' D .

386-- (.' -1?',D1'=;-.; ,' ,'D*/125.' 20 .=;,6D/ ',1' ,) *' -.,'-629' 1 ' : *D-*8'=1*,-A7'620' .' 12*' 1 ' ,.' ?1.,' .=/*20 0' 620' 0 >;/,' .=*> ?*2.' 2' ,) *' *>.,6. ' 620' *2*-5A' 1 ' 2.= -6, 12 J' .6 .' -1 ' 1D 2.12' >; !' % !' gN ' =' SRX' ,) *' =-1=)*,*..' =1;-.' 1;,')*-' 8)1/*' .1;/ 2',)629.5 + 25',1' 410' 1-') .' 0 + 2*' 6 0 ' 620' 2' 5-6, ,;0*',1',) *' =*1=/*' 1 ' .-6*/' 1-',) *' -'=6,- !' 1, .,1' 2' - . 25'.=1- ,62*1;./ ',1',),-18'1 ',) *' 19*' 1 ' 1==-*.. 12' : *-' .,-6 2.' 6-*' D1/0 ' +6- *0 ' 620' .;D^ / ?*' !' .) *' .'*+*- 8) *-*' ;// 1 '6D-;=,' 620' ?=6.. 12^ *0' 6==*6/.' 620'=*-.12 >6, 12.!' .) *' D;-.,.'686 ' -1?' *6-,)',1')*6+*2 ' 620' 656 2' -*,;-2.',1'); ?62',) 25.!' .) *' ,1;>)*.' 218' ;=12',) *' =-*.*2,' 218' 08*//.' ;=12' ,/ >' =6. ,' 620' >/1.*.' 6,'/*25,)' 8 ,)',) *' 5-620' =-1? .*' 620' -*. ;/,' 1 '6// =-1=)*> ' 620' 1 '6A/',) *' 0*6/ 25.' 1 ' 410 .'=-1+ 0*2>*',)6,',) *' 8 >9*0' .)6//D*' 1+*-,)-182 ' 8) /*' ,) *' - 5),*1;.' .)6// *+*-' ,- ;?=)' 2' B*)1+6) .' 26?*%J' () .' 10*')6.'1 ,*2'D**2' *L=/6 2*0' 6,'/*25,) ' *.=*> 6// 'D ' : 1//?62' - ' 1M- ' ' 'M =.%' Q QX!' -12' $ ' ' " ' ' ' " 'M ,-6.D%' QNNX!' 6/96-' D8 ' ' ' "!' M 1=*2)%' QNNX!' *? 29' ' ' !'* "!' M$,-%' Q X!' <* *-' 2 " !' !' 6 !' ' ' +=' 'M(;D 25*2' Q RX!' :*-0*-' # !' ' 'KN !' 86/0' ' ; " 1' K '._%!' 4;?=6>)7 ,Z*. 77 0%' C !' 1,,5*-' 2' 6; *-.' ; ' $ ' =,%' CNT' 1D 2.12' ; !' 5 % ' ' SQ' ._%' ,)*-',-*6, .*.' 6-*' 2' 6, 2' D ' >);/,*2.' M %' %' !' 6/.1' 2') .' $!' ' !' 1% KX' *,,*'M %' %' RX' $0*-86/0'M:*/?., KX' ' >)2;--*-'M($D%' !' 6/.1' 2') .' ' S'=%' NS8 *' 620' >) /0-*2' 2',) *'=11-' 0*D,1- .' 6,*'MK' 25.' + .'_%X!' >1?=%' - 5*2' >L%%!' ' X'B*-1?*' >L%%!' $% !' !' *)%' +' !' .6%' ' !' <6,,' L+ ' K X!' 26 ',)*' ;'_' X' <;.' >$!' ' X' 1>>*.;.' >L%%!' 'N X!' 2' .;-*,.*.' / 9*8 .*' 8*-*' *L=1.*0',1',) *' .6?*' ?10*' 1' 4*-?62' D ' (*//*-' M:6//1' SSX' &*2*>' M 6-?.,% -*=6-6, 12' M -1+%' LL ' SI' LL ' KS' ._%!' LL+ ' NX% NX' ' 1)/*-' M 2' >))1-2.' 5 % !' + ' SN' ._%X' *D,1-.' 8*-*' / 6D/*' ,1' =;2 .)?*2,' D ' ?=- .12?*2,' <*20*/..1)2'M 2'$ ' QX n/ */>9*'M ,6-5%' X!' 2' 25/.)'D ' & *.,12' M 12012' QQX' :1-./* '>; !' !' K X!' 2',6/62'D ' : 2,['M*0%' -2 ' 1?%' RKX%' **' ($ ' :8 ' 3! *D,' "W K' 25.' +' !' "= " "(' -1+%' LL ' K !' " E' 6' 1' 6?' LL ' KI' */.*8)*-*' " 1' *)%' L ' N !' N ' 2'2*+*-' 1' <6,,' L+ ' KK' 6' 1' 6.' -*20*-*0' 1?%' L ' !' [U% E*= % ' " ' ' <6,,' + ' K' !' 1?%' + ' X% ()*' <1.6>'/68' +*- ' .,-125/ '-*>1?? *20*0' 8 // 252*..',1' /162' M *2,' L+ ' H. _%!' >1?=%' .6% LLL+ ' KST' <6,,% ' KX% 2,*-*.,'M ' IHNE ;.;-A7JX')18*+*-'>1;/0'12/ ' D*' *L6>,*0' D ' >6=< .,.' -1?' 1-* 52*-.' 21,' 6,' 6// -1?' .-6*/.,*.' 6.' >1C-*/ 5 12 .,.' M 2' *)%' + ' 6' =*-^ >*2,65*' .' ? *2, 12*0' D;,' ,' 01*.' 21,' 6==*6-' 8)*,)*-' ,) .' 86.' 2' ?12* ' :* 2*>>$' & 4'5 !' ' R' 6.' 5*2*-6// ' 6?125' ,)*' 1?62.' 1-' 6' A7*6-/ ' -*2,6/I' >1?=%' == 62' ' ' XI' 6/.1' 6' +*20;*' 1 ' /162*0' 26,;-6/=-10;>,.'M.**')18*+*-' ; " ' / 1'+' X' 86.' 1-D 00*2' M L10%' 7L ' K I' *+%' LL+' Q ' ._%!' :*;,%' LL ' K X% ()*' 65-6- 62' -*5;/6, 12' 1 ',)*' .,6,*' .*^ >;-*0' *6>)'12*' 2',)*'/6.,'-*.1-,' -1?',)*'-6=6>, '1'),)*'>-*0 ,1-' =-1D6D/ 'D ',) .'+*- %--625*?*2,'?12^ * *0' ?*2' 8*-*'-*.,-6 2*0' -1?'0*=*20 25',=12'/162*0' ?12* ' 1-' 6' .;D. .,*2>*' 620' 8*-*' ,) ;.' 20;>*0',1' ,;-2',)*' <2.6,,*2, 12',1' 65- >;/,;-*' 1-' 1,)*-' ;.* ;/ 1>^ >;=6, 12.%' **') !' 2',) .' 86 ')18*+*-' 8)1/*^ .6/*' D;. 2*..' 8) >)' 86.' 2>1?=6, D/*' 8 ,)',) *' .1/6^ , 12C. .,*?' 1 ',)*' B*8 .)' /68C5 +*-' 86.' -*20*-*0' -6-*' 1-' -6,)*-' ?=1.. D/*' M.**' < >)6*/ .' $!' !' ' .%!' !' 5 ' ' Q ' ._%!' B6)2';!' & " !' ' ' QK' ._%!' 12',)*' (6/?;0 =-*.>-=,12.' .**' */0*2' D ' # !' + ' RX% $.;-' 2>;--*0' ,) *' 0**=*.,'.>1-2'M -1+%' LL+ ' Q!' [*9' L+ ' Q N !' LL ' KI' B*-%' L+' I' .6%' L+' I' ' > L' X' D;,' 21' 1,)*-'>+ /'=*26/, '86.'622*L*0',1' ,'M6>>1-0 25',1',)*' (6/?;0' ,' 2+1/+*0' 6' 1- *,;-*' 1' -*0-*..I' 12' ,)*' 8)1/*' .;D A*>,' .**' <6-*[1//' ' ' % ' $=.%' QN X% &-.,*2'21,*.' 1 '1D/ 56, 12'M+7*=1 =276' 1 .' 4*.*2';.' -" '=%' RK ' 20.' .;>)' *+ ^ 0*2>*.' 1 '0*D,' 2',)*' 1-' _%' 0%' ' 4 / & *;,% L+ 'Ka',)*' (6/?;0 >'=-*>*=,.'12' .;>)'=60' =*-'6-*' 5 +*2' 2',)*' < .)26';' ; " '>% X% 8*-*' 6,'/*6.,' 2',)*'=1.,C*L / 62'=*- 10'-*5;/6-/ ' 2' +15;*' M(1D,' ' I' B1.*=);.' & !' L+ ' ' QI' ' ' ' ST' >1?='L+ 'S' NI' ;9*' L+ 'S'._%X% .,-6 2,'86.'6/^ /18*0' D;,' ;20*-' >*-,6 2' -*.,->, 12.' M L1MB% LL ' S' ._%!' *;,% LL+' S ' ._%X% **' +' !' *'*>.,' 656 2.,' 0*D,1-.' D* 25' -*56-0*0' 6.' ?=*-1;.' 6?125' ,)*' .-6*/,*.' M>1?=%' B1D' LL ' ST' LL +' NX' *.=*> 6// ' 2',)*' >1//*>, 12' 1' 0*D,.' ,)*' /68' .>6->*/ ' *2A1 2*0' 2',) 25' 0 -*>,/ '12',)*',-*6,?*2,'1'D629-;=,.'!' ,' ?*-*/ ' 20 >6,*0' M *+%' L+' NRX',)6,')*' 8)1' 86.',1,6/^ / ' 2.1/+*2,' ?5),' D*' .1/0' 2,1',*?=1-6-' D12065*' ', 1-0*-',1' .6, . ',)*' 0*D,' D ') .' 865*.%' 'M 2',)*' - 51-' ,186-0.',) .C>/6..'6?125',)*' 1?62.' .**' :*2*>>;.' & 4!'* !' 5 !' ' N ' K%' ()*' 8*-*' 1 ,*2' .;DA*>,*0' ,1',)*')6-.)*.,';.65*' 6.' ./6+*.' + ' ' KNT' + ' QST' 4*//% dd ' RT' ==;/%' !' L' =%' *0%' >)8*5)% 2' ,)*2.' 1/12.',?*',)*'>-*0,1-'>1;/0'+*+*2' /6 '>/6?',1',)*'=*-.12'1')' .'0*D,1-' /;,6->)'N !'$! >% T' /6,*-',)*-*C=-*+6 /*0'6'.;?76-E7=-1>*..'1'.*[^ ;-*'8)>)',)*'>-*0,1-') ?.*/'86.'6;,)1- [*0',1'*L*^ >;,*' \.**' >)/65*-' ' ' *,>% : */-6.,60,' h% *,'>*-,6 2' ? , 56, 12.' 21,';2/ 9*',)*' <1.6>'*L .,^ *0T' 1 $ & " !' " %!&"" 4!' 2',)*' 5 =, 62'/*5 ./6, 12' .**' *0% >% ' RT' & /9 2.12' ' R'._%X' () .' -;/*' 86.'1 ,*2'.,// ;-,)*-' *L*->.*0' 2' =-6>, >*' 8 ,)' .;>)')6 0)*6-,>02*..' 6.' ,1' 2+1/+*' .%X' ' >)2;--*-'M($D%' T' 6/.1' 2') .' ' S'=%' NS8 *' 620' >) /0-*2' 2',)*'=11-' 0*D,1-.' 6,*'MK' 25.' + .'_%XT' >1?=%' - 5*2' >L%%!' ' X'B*-1?*' >L%%!' $% !' T' *)%' +' T' .6%' ' T' <6,,' L+ ' K XT' 26 ',)*' ;'_' X' <;.' >$!' ' X' 1>>*.;.' >L%%!' 'N XT' 2' .;-*,.*.' / 9*8 .*' 8*-*' *L=1.*0',1',) *' .6?*' ?10*' 1' 4*-?62' D ' (*//*-' M:6//1' SSX' &*2*>' M 6-?.,% -*=6-6, 12' M -1+%' LL ' ST' LL ' KS' ._%!' LL+ ' NX% NX' ' 1)/*-' M 2' >))1-2.' 5 % !' + ' SN' ._%X' *D,1-.' 8*-*' / 6D/*' ,1' =;2 .)?*2,' D ' ?=- .12?*2,' <*20*/..1)2'M 2'$ ' QX n/ */>9*'M ,6-5%' XT' 2' 25/.)'D ' & *.,12' M 12012' QQX' :1-./* '>; !' !' K XT' 2',6/62'D ' : 2,['M*0%' -2 ' 1?%' RKX%' **' ($ ' :8 ' 3! *D,' "W K' 25.' +' T' "= " "(' -1+%' LL ' K T' " E' 6' 1' 6?' LL ' KT' */.*8)*-*' " 1' *)%' L ' N T' N ' 2'2*+*-' 1' <6,,' L+ ' KK' 6' 1' 6.' -*20*-*0' 1?%' L ' T' [U% E*= % ' " ' ' <6,,' + ' K' T' 1?%' + ' X% ()*' <1.6>'/68' +*- ' .,-125/ '-*>1?? *20*0' 8 // 252*..',1' /162' M *2,' L+ ' H. _%T' >1?=%' .6% LLL+ ' KST' <6,,% ' KX% 2,*-*.,'M ' IHNE ;.;-A7JX')18*+*-'>1;/0'12/ ' D*' *L6>,*0' D ' >6=< .,.' -1?' 1-* 52*-.' 21,' 6,' 6// -1?' .-6*/.,*.' 6.' >1C-*/ 5 12 .,.' M 2' *)%' + ' 6' =*-^ >*2,65*' .' ? *2, 12*0' D;,' ,' 01*.' 21,' 6==*6-' 8)*,)*-' ,) .' 86.' 2' ?12* ' :* 2*>>$' & 4'5 !' ' R' 6.' 5*2*-6// ' 6?125' ,)*' 1?62.' 1-' 6' A7*6-/ ' -*2,6/I' >1?=%' == 62' ' ' XI' 6/.1' 6' +*20;*' 1 ' /162*0' 26,;-6/=-10;>,.'M.**')18*+*-' ; " ' / 1'+' X' 86.' 1-D 00*2' M L10%' 7L ' K I' *+%' LL+' Q ' ._%!' :*;,%' LL ' K X% ()*' 65-6- 62' -*5;/6, 12' 1 ',)*' .,6,*' .*^ >;-*0' *6>)'12*' 2',)*'/6.,'-*.1-,' -1?',)*'-6=6>, '1'),)*'>-*0 ,1-' =-1D6D/ 'D ',) .'+*- %--625*?*2,'?12^ * *0' ?*2' 8*-*'-*.,-6 2*0' -1?'0*=*20 25',=12'/162*0' ?12* ' 1-' 6' .;D. .,*2>*' 620' 8*-*' ,) ;.' 20;>*0',1' ,;-2',)*' <2.6,,*2, 12',1' 65- >;/,;-*' 1-' 1,)*-' ;.* ;/ 1>^ >;=6, 12.%' **') !' 2',) .' 86 ')18*+*-' 8)1/*^ .6/*' D;. 2*..' 8) >)' 86.' 2>1?=6, D/*' 8 ,)',) *' .1/6^ , 12C. .,*?' 1 ',)*' B*8 .)' /68C5 +*-' 86.' -*20*-*0' -6-*' 1-' -6,)*-' ?=1.. D/*' M.**' < >)6*/ .' $!' !' ' .%!' !' 5 ' ' Q ' ._%!' B6)2';!' & " !' ' ' QK' ._%!' 12',)*' (6/?;0 =-*.>-=,12.' .**' */0*2' D ' # !' + ' RX% $.;-' 2>;--*0' ,) *' 0**=*.,'.>1-2'M -1+%' LL+ ' Q!' [*9' L+ ' Q N !' LL ' KI' B*-%' L+' I' .6%' L+' I' ' > L' X' D;,' 21' 1,)*-'>+ /'=*26/, '86.'622*L*0',1' ,'M6>>1-0 25',1',)*' (6/?;0' ,' 2+1/+*0' 6' 1- *,;-*' 1' -*0-*..I' 12' ,)*' 8)1/*' .;DA

N ( )*' 0*D,' 8) >)' -*?6 6*0' ;2=6 0' ;2, /' ,)*' .*+^ *2,)' 1-' 6DD6, >' *6-'M0 ; - 25' 8) >)' ,)*' .1 / 86.' ,1' D*' /* ,' 8 ,)1 ;,' > ;/, +6, 12 ' 620' >12.*_ ;*2,/ ' 6' =*-.12' 86.' 21,' .;==1.*0',1' D*' 2' 6' >120 , 12' ,1' ?69*' =6 ^ ?*2,.X' >1 ;/0' 21,'D*' *L6>,*0' 0 ;- 25',) 6,' =*- 10' M *;,' d ' C X' ;,' 6, ' 1,) *-' , ?*.' 2' >6.*' ,)*' 0*D,' 86.' 25,' =6 0',) *' >-*0 ,1-.' ? 5),' .* [*' -.,',)*')*-*0 ,6- ' /620' 1 ',)*' 0*D,1- '620' *2A1 ' ,.' =-10 ;>*' ;2, /',)*' 0*D,' 86.' =6 0' 1-' 6 ,'/*6..' ;2, /',)*' *6-' 1 'A ; D /**T 1-' .*>^ 120/ ') .')1 ;.*.' ( )*.*' ? 5),' D*' .1/0' 2' =*-=*,;, ' *L>*=*,' ,)1.*' D*/125 25',1',)*' *+ ,.*.' M *+' LL+ ' NKX' ( ) -0/ ' 2' >6.*',)*')1 ;.*' 1-' /620' 86.' 21,' .; ^ > *2,' ,1' >62>*/' ,)*' 0*D, '1-' ' ,' .1')6==*2*0',)6,',)*' 0*D,1-')60' 212*' ,)*' =*-.12' 1 ',)*' 0*D,1-' ? 5),' D*' .1/0',15*,)*-' 8 ,)') .' 8 *' 620'>) /0-*2 ' ')*')60' 62 ' ( ) .' .' ?=/ *0' 2' *+' LL+ ' NR ' 620',) .' >';.,1?' .' 6/^ /;0*0',1' 2' B1D' LL + ' R' ,'*L .,*0' 2',)*' , ?*' 1 ' / .)6' MK' 25.' + ' X' 620' 12',)*' -*,;-2' 1 ',)*' B*8 .' -1?',)*' 6DA012 .)' >6=, + , ' .1?*' - >)' =*-.12.' *L^ *-> .*0',) .' - 5),' 1+*-',)*' -' =11-' 0*D,1-.' M *)' +' C NX' ;-' 1-0' 6//;0*.',1',)*' .6?*' >;.,1?' 2' <6,,' L+ ' K ' 6',)*' =*-.12' 1',)*' 0*D,1-' ? 5),',);.' D*' .* [*0' 620' .1/0') .' >6,,/*' 620' ;-2 ,;-*' 8*-*';201;D,^ *0/ '/ 6D/*' 1-') .' 0*D,.' M -1+' LL ' K X' ,'01*.' 21,' 6==*6-',)6,' ?=- .12?*2,' 1-' 0*D,' *L .,*0' 2',)*' 65*' 1 ' <1.*.' D;,' ,' .**?.',1')6+*' =-*+6 /*0' 2',)*',?*' 1 '1;,' 6+ 1;-' M <6,,' L+ ; ' N X' ' 6' =*-.12')60' D*>1?*' D120.?62' 1-' .;-*, ' 1-' 621,)*-')*' 86.' / 6D/*',1' D*' >6//*0' ;=12' 1-' =6 ?*2,' 2',)6' MK' 86 ' 8 ,)',)*' 1- 5 26/ 0*D,1-' ;,',) .' =-6>, >*' 01*.' 21,' 6==*6-',1')6+*' 1D,6 2*0' D* 1-*',)*' , ?*' 1 ' 1/1?12' 8)*2',' 86.' 6,,*20*0' 8 ,)' . *-1;.' >12.*_;*2>*.' ,' .**?.',)6,',)*' 1-?6/ ,A' 1D.*-+*0' 86.' 1-',)*' =*-.12' 8)1' D*>6?*' .;-*, ',1' 5 +*') .')620' ,1' 7)>' 0*D,1-' 620' 21,',1',)*0>-*0 ,1-',1' =, ?6,*',)6,',)*' D*>6?*' 2' 6' /*56/' .*2.*' 12*' 8 ,)',)*' 0*D,1-' 1-' 1/1?12' >6;, 12.') .' .12' 656 2.,'5 + 25') .')620',1' 6' .,-625*-' ,1' 6' =*-.12' 8)1.*' >-> ;?.,62>*.',)*' 0' 0' 21,' 9218' 620' *2,-*6,.') ?',1' 51' 620',-5*' ,)*' =*-.12',1' 8)1?',)*')60' 5 +*2') .')620' 1-' 1-' 8)1?',)*')60' D*^ >1?*' .;-*, ',1' =6 ') .' 182' 0*D,' M -1+' L ' T' L+ ' QT' LL ' KS' ** ! *>6/15;*' M >6d1 1*X',)*' 26?*' ?1.,';.;6// ' 5 +*2' D ',)*' 4-**9' 6,)*-.',1',)*' /68' 1 ',)*' ,81',6^ D/*.' 5 +*2' D ' 410',1' <1.*.' 12' <1;2,' 26 ' >6//*0' 2' >-=,;-*' ',)*' 0 .' ' M27 6H " ' ' :' *=,' ' B F>6 O ' 620' -0' 3 ()2' % :' ;/5 ' ' " :' L10' LLL + ' KQT *;,' + ' NT' L ' XT' 620' *?D-6> 25' 8)6,' .' ;.;6// ' 3,*-?*0' * ' P' M L10' LL ' NC T' *;,' + ' CK X' ()*' *>6/15;*' 86.' 8-.,*2' 12',81'.,12*' ./6D.' M L10' LLL ' QX' 8) >)')6+ 25' D**2' D-19*2' D ' <1^ .*.' MLLL ' RX' 8*-*'-*2*8*0' D ' 410' MLLL + ' *,>%' Z()>' 6-*' .6 0' M *;,' L ' X',1')6+*' D**2' 8-.,*2' D ' ,)*' / 25*-' 1 ' 410' 62' *L=-*.. 12' 8) >)' 6/86 .' ?=/ *.' 62' ? ?*0 6,*' 6>,' 1 ',)*' *, ' ()*' *>6/15;*' .' +*' , ?*.' 6//;0*0',1' 2',)*' *8' (*.,6?*2,' ,)*-*' >6//*0' - E 1' !' D;,' 12/ ' ,)*' /6,,*-' =-*>*=,.' 6-*' .=*> >6// '>,*0' 8) >)' -* *-',1' 1;-' 0;, *.',1' *6>)' 1,)*-'AMA 6,,%L+ ' Q R' *,>%T' < 6-9' L ' RT' ;9*' L+ ' K T' 1?%' L ' RT' + ' ' QT' < 6,,' +T' (?%' R X%' ()1.*' 8) >)' -* *-',1' 410' 6-*' .;==1.*0' D ' .1?*' ,1' D*' 1? ,,*0' 2',)*' .*' *2;?*-6, 12. ' -1?',)*' >-> ;?.,62>*' 1 ',)*-' >12,6 2 25'=-*>*=,.' 1-' >*-*?12 6/1D.*-+62>*.' MB*-*? ' (6 /1-.' ' ' " !' 620' ' ' M ;' 1.*2?;//*-.' $ " ' "' 6 !(8! ()*' > ->;?.,62>*' 1 ',)*.*' =-*>*=,.' D* 25' >6//*0' " ' ' ')6.' 01;D,/*..'/*0',1',)*' D*/ *',)6,',)*' ,81' ,6D/*.' >12,6 2*0',*2' 0 ., 2>,'=-*>*=,. ' +*' 2' *6>)' ,6^ D/*' ? 0' .1?*')6+*' .;==1.*0',)6',)*' 8*-*' >6//*0' D ',) .'26?*',1' 0*21,*',)*' -'=*- *>,12' 'D* 25' >12^ . 0*-*0',)*' ?1.,'=*- *>,' 1 '2;?D*-.' .1') /1CB;06.;.' I ' =) O ' M M 11 ' O ' ' '$ % ! >' RX' () .'%0 ., 25; .)*0' =) /1.1=)*-' 0 + 0*.' ,)*?' 2,1',81'=*2,60.' I ' ' ' " 8',)*' -.,'=*2,60' *20 25' 8 ,)' L10' d d ' K' : 121-',) ' 6,)*7620',) ' ?1,)^ *- I' *,>' 1-' "' >1?*?620?*2,' 1 ',)*' 4-**9' *^ 1-?*0' 620' 25/ >62' >);->)*.' 8) /*',)*' ?1-*' 5*2^ *-6/' 1= 2 12' 6?125')- ., 62.' .',)6,',)*' -.,',6D/*' >12,6 2*0' 1;-' 0;, ',1' 410' *20 25' 8 ,)' ,)*' /68',1' 9**=',)*' 6DD6,)')1/ ' 620',)*' .*>120' 1;-' 0;, ',1' 1;-' 2* 5)D1-' .',)*' 6-*' .1,' 2;?*-> 6// ' 0 + 0*0' 6',)*' >-=,;-*.' .1',)6,' 81' >6221,' =1. ,+*/ ' .6 ' 8) >)' .',)*' -.,' 8) >)',)*' .*>120' *,>%' ,?6 ' 21,' =-1+*';2 2,*-*., 25',1',)*' .,;0*2,' 2' D/ >6/ / ,*-6,;-,' 8*) *-*' 5 +*' 6' D- * '6>>1;2,' 1',)*' 0 *-*2,' ?10*,' 1 '0 + 0 25',)*?' 8) >)')6+*' =-*+6 /*0' 6?125' B*8 .' 620')- ., 62.' ()*' >6.*' >6221,' D*' ?1-*' >/*6-/ ' .,6,*0',)62' 2',)*' 81-0.' 1 ' ,' ;5;., 2*d ,' .' 2^ _;-*0')18',)*',*2'>1?620?*2,.'6-*',1' D*'0 + 0*0 ' ' 8)*,)*-',)*-*' 6-*' 1;-' 8) >)' -*/6,*',1' 410' *20 25' 8 ,)',)*' =-*>*=,' >12>*-2 25',)*' 6DD6,) ' 620',)*' 1,)*-' . L ' >1?*?2> 25' 8 ,)' ' : 121-',) ' 6,)*-' 620' ,) ' ?1,)*- %6==*-,6 2 25,1' ?62 ' 1-' 8)*,)*-',)*' 1-^ ?*-' 6-*' " '12/ '620',)*' /6,,*-' ' ()1.*' 8)1' .6 ' ,)6,',)*' -.,',6D/*' >12,6 2.'7 ;-' .*=6-6,*',)*' >1 / ?620' I ()1;' .)6/,')6+*' 21' 1,)*-' 510.I' D;,' ?*' M L10' d d ' NT' *;,' + ' X' .1' 6.1' ?69*' 621,)*-' =-*^ >*=,'1' ' ()1;' .)6/,'21,'?69*',1',) .*/ '62' 01/' M L10' d d ' T' *;,' + ' QX' 2' 8) >)' ?65*.' 6-*' 1-D 00*2',1' D1' 81-.) ==*0' ;',)*' ? .)' ' ()1;' .)6/,'21,'>1+*',) '2* 5)D1-.')1;.*' M L10' LL ' T' *;,' + ' K X' 620' ' ()1;' .)6/,'21,'>1+*',) '2* 5)D1-.' 8 *' M L10' LL ' T' *;,' + ' K X' 620' 1,)*' 6-*' 12/ ',)-*' 2',)*' -.',6^ D/*' 620' .*+*2' 2',)*' *>120' ?69*' 12*' >1?*?620?*2,' 1 ',)*' =-*>*=,' 1 ',)*' 81-.) =' 1 '12*' 410' 620' 21,) 25' D*.0*') ?' M L10' LL ' NT' *;,' + ' X' D;,' 0 + 0*',)*.*' /6.,' 2,1',81' .1',)6,' 12*' 1 ',)*?' .' ' ()1;' .)6/,' 21,' >1+*',) '2* 5)D1-.' 8 *' 620',)*' 1,)*-' ' ()1;' .)6/,' 21,' >1+*',) '2* 5)D1-.')1;.*' ()*-*' .' 21' _;*.,12' 6?125' *',)*-' 6D1;',)*' >1--*>,2*.' 1',)*' 2;?D*-',*2' 6.' 1-',) .',)*-*' .',)*',*.,?12 '1' >-=,;-*J' I A' ' '6 ' _;' + ' ' N' 6-.7 7S RX7 ' -' ' 1-',)6,' >12,6 2*0' 2',)*' (6/?;0' I ++ "' LL + ' 6X' 8) >)' .' 6/.1',)6,'1',)*' ?10*?' B*8 .' >>1-0 25',1',) .' 0 + . 12',)*' -.,' >1?620?*2,' >12. .,' 1',)*' 81-0.' ' 6?',)*' 1-0' ,) ' 410' 8)1' D-1;5),' ,)**' 1;,' 1',)*' /620' 1' 5A =,' 1;,' 1',)*')1;.*' 1' D12065*J' M L10' LL ' KT' *2,'+ SXT',)*' .*>120' M L10' LL ' N' X' ()1;' .)6/,')6+*' 212*' 1,)*-' 510.' D*. 0*' ?*T',)1;' .)6/,' 21,' ?69*',1' ,) .*/ ' 62 ' 5-6+*2' ?65*J' *,>' ,1' +*-' ST',)*' ,) -0' ()1;' .)6/,' 21,',69*' 410 .' 26?*' 2' +6 2 J' *,>' T',)*' 1;-,) ' ' *?*?D*-',1' 9**=')1/ ',)*' 6DD6,)' 06 J' *,>' T',)*' ,) ' ' : 121-',) ' 6,)*-' 620',) ' ?1,)*- J' *,>' T',)*' ,) L,) ' ()1;' .)6/,' 21,' 9 //T',)*' .*+*2,) ' ()1;' .)6/,' 21,' >1?? ,'60;/,*-A I7TJ',)*' *5),) ' ()1;' .)6/,' 21,' . ,* 6/,) *'2 2,) ' ()1;' ./ 6/,' 21,' D*6-' 6/.*' 8 ,2*... J' *,>' T' 620',)*',*2,) ' ()1;' .)6/,' 21,' >1+*,J' *,>' ,1',)*' *20' ()' .'0 + . 12' ./ 6/.1' .;==1-,*0' D ',)*' (6-5;?' 1',)*' =.*;01CB126,)62' 6' 81-9' 1',)*' . L,)' >*2,;-' D ' D* 2C [-6' 2') .' ' 620' D ' <6 ?12 0*.' I$ %" ' / "8!' ;')6.' 6/.1' D**2' ?6 2,6 2*0' D ',)1' /*6-2*0' ;,)*-62' *,*-' <6-,-' I ' ' 6./*' Q '/1>' ' =' SQ X' ()6,' ,) .' 86.' 6' +*- '*6-/ ' ?10*' 1 '0 + 0 27,)*' *>6/15;*' .' ;-,)*-' *+ 0*2,' -1?' 6' =6..65*' 2'] [' 0 'B*-;.6^ /*?.' ,-*6, .*' 656 2.,' B;/ 62' -1?' 8)1?')*' _;1,*.',)*' 1//18 25' 2+*>, +*d '()6,' *>6/15;*',)*' 68' 1' <1.*.' .' 6' 8120*- ;/,) 25a',)1;' .)6/,' 21,' .,*6/T' ,)1;' .)6/,' 21,' 9 //T',)1;' .)6$' 21,' D*6-' 6/.*' 8 ,2*.. J' ;*/*,*6>)' 1',)*' =-*>*=,.' 8) >)')*' 8-.,*2' 0182' 2',)*' 0*2, >6/ 81-0.' ' ?' ,)1-0',) ' 410' 8)1' D-1;5),)*' 1;,' 1',)*' /620' 1' 5E =,T1',)*' .*>120' 1//18.' `()1;' .)6/,' )6+*' 21' .,-625*' 510.' D*. 0*' ?*T',)1;' .)6/,' 21,' ?69*',1',) .*/ '62' 01/' M ! : *' 600.',)*' -*6^ .12' ' 1-' ',)*' 1-0',)A7 410' 6?' 6' A*6/1;.' 410' + .,^ 25',)*' . 2.' 1',)*' 6,)*-.' ;=12',)*' >) /0-*2' ' `()1;' *- I' *,>' 1-' "' >1?*?620?*2,' 1 ',)*' 4-**9' *^ 1-?*0' 620' 25/ >62' >);->)*.' 8) /*',)*' ?1-*' 5*2^ *-6/' 1= 2 12' 6?125')- ., 62.' .',)6,',)*' -.,',6D/*' >12,6 2*0' 1;-' 0;, ',1' 410' *20 25' 8 ,)' ,)*' /68',1' 9**=',)*' 6DD6,)')1/ ' 620',)*' .*>120' 1;-' 0;, ',1' 1;-' 2* 5)D1-' .',)*' 6-*' .1,' 2;?*-> 6// ' 0 + 0*0' 6',)*' >-=,;-*.' .1',)6,' 81' >6221,' =1. ,+*/ ' .6 ' 8) >)' .',)*' -.,' 8) >)',)*' .*>120' *,>%' ,?6 ' 21,' =-1+*';2 2,*-*., 25',1',)*' .,;0*2,' 2' D/ >6/ / ,*-6,;-,' 8*) *-*' 5 +*' 6' D- * '6>>1;2,' 1',)*' 0 *-*2,' ?10*,' 1 '0 + 0 25',)*?' 8) >)')6+*' =-*+6 /*0' 6?125' B*8 .' 620')- ., 62.' ()*' >6.*' >6221,' D*' ?1-*' >/*6-/ ' .,6,*0',)62' 2',)*' 81-0.' 1 ' ,' ;5;., 2*d ,' .' 2^ _;-*0')18',)*',*2'>1?620?*2,.'6-*',1' D*'0 + 0*0 ' ' 8)*,)*-',)*-*' 6-*' 1;-' 8) >)' -*/6,*',1' 410' *20 25' 8 ,)',)*' =-*>*=,' >12>*-2 25',)*' 6DD6,) ' 620',)*' 1,)*-' . L ' >1?*?2> 25' 8 ,)' ' : 121-',) ' 6,)*-' 620' ,) ' ?1,)*- %6==*-,6 2 25,1' ?62 ' 1-' 8)*,)*-',)*' 1-^ ?*-' 6-*' " '12/ '620',)*' /6,,*-' ' ()1.*' 8)1' .6 ' ,)6,',)*' -.,',6D/*' >12,6 2.'7 ;-' .*=6-6,*',)*' >1 / ?620' I ()1;' .)6/,')6+*' 21' 1,)*-' 510.I' D;,' ?*' M L10' d d ' NT' *;,' + ' X' .1' 6.1' ?69*' 621,)*-' =-*^ >*=,'1' ' ()1;' .)6/,'21,'?69*',1',) .*/ '62' 01/' M L10' d d ' T' *;,' + ' QX' 2' 8) >)' ?65*.' 6-*' 1-D 00*2',1' D1' 81-.) ==*0' ;',)*' ? .)' ' ()1;' .)6/,'21,'>1+*',) '2* 5)D1-.')1;.*' M L10' LL ' T' *;,' + ' K X' 620' ' ()1;' .)6/,'21,'>1+*',) '2* 5)D1-.' 8 *' M L10' LL ' T' *;,' + ' K X' 620' 1,)*' 6-*' 12/ ',)-*' 2',)*' -.',6^ D/*' 620' .*+*2' 2',)*' *>120' ?69*' 12*' >1?*?620?*2,' 1 ',)*' =-*>*=,' 1 ',)*' 81-.) =' 1 '12*' 410' 620' 21,) 25' D*.0*') ?' M L10' LL ' NT' *;,' + ' X' D;,' 0 + 0*',)*.*' /6.,' 2,1',81' .1',)6,' 12*' 1 ',)*?' .' ' ()1;' .)6/,' 21,' >1+*',) '2* 5)D1-.' 8 *' 620',)*' 1,)*-' ' ()1;' .)6/,' 21,' >1+*',) '2* 5)D1-.')1;.*' ()*-*' .' 21' _;*.,12' 6?125' *',)*-' 6D1;',)*' >1--*>,2*.' 1',)*' 2;?D*-',*2' 6.' 1-',) .',)*-*' .',)*',*.,?12 '1' >-=,;-*J' I A' ' '6 ' _;' + ' ' N' 6-.7 7S RX7 ' -' ' 1-',)6,' >12,6 2*0' 2',)*' (6/?;0' I ++ "' LL + ' 6X' 8) >)' .' 6/.1',)6,'1',)*' ?10*?' B*8 .' >>1-0 25',1',) .' 0 + . 12',)*' -.,' >1?620?*2,' >12. .,' 1',)*' 81-0.' ' 6?',)*' 1-0' ,) ' 410' 8)1' D-1;5),' ,)**' 1;,' 1',)*' /620' 1' 5A =,' 1;,' 1',)*')1;.*' 1' D12065*J' M L10' LL ' KT' *2,'+ SXT',)*' .*>120' M L10' LL ' N' X' ()1;' .)6/,')6+*' 212*' 1,)*-' 510.' D*. 0*' ?*T',)1;' .)6/,' 21,' ?69*',1' ,) .*/ ' 62 ' 5-6+*2' ?65*J' *,>' ,1' +*-' ST',)*' ,) -0' ()1;' .)6/,' 21,',69*' 410 .' 26?*' 2' +6 2 J' *,>' T',)*' 1;-,) ' ' *?*?D*-',1' 9**=')1/ ',)*' 6DD6,)' 06 J' *,>' T',)*' ,) ' ' : 121-',) ' 6,)*-' 620',) ' ?1,)*- J' *,>' T',)*' ,) L,) ' ()1;' .)6/,' 21,' 9 //T',)*' .*+*2,) ' ()1;' .)6/,' 21,' >1?? ,'60;/,*-A I7TJ',)*' *5),) ' ()1;' .)6/,' 21,' . ,* 6/,) *'2 2,) ' ()1;' ./ 6/,' 21,' D*6-' 6/.*' 8 ,2*... J' *,>' T' 620',)*',*2,) ' ()1;' .)6/,' 21,' >1+*,J' *,>' ,1',)*' *20' ()' .'0 + . 12' ./ 6/.1' .;==1-,*0' D ',)*' (6-5;?' 1',)*' =.*;01CB126,)62' 6' 81-9' 1',)*' . L,)' >*2,;-' D ' D* 2C [-6' 2') .' ' 620' D ' <6 ?12 0*.' I$ %" ' / "8!' ;')6.' 6/.1' D**2' ?6 2,6 2*0' D ',)1' /*6-2*0' ;,)*-62' *,*-' <6-,-' I ' ' 6./*' Q '/1>' ' =' SQ X' ()6,' ,) .' 86.' 6' +*- '*6-/ ' ?10*' 1 '0 + 0 27,)*' *>6/15;*' .' ;-,)*-' *+ 0*2,' -1?' 6' =6..65*' 2'] [' 0 'B*-;.6^ /*?.' ,-*6, .*' 656 2.,' B;/ 62' -1?' 8)1?')*' _;1,*.',)*' 1//18 25' 2+*>, +*d '()6,' *>6/15;*',)*' 68' 1' <1.*.' .' 6' 8120*- ;/,) 25a',)1;' .)6/,' 21,' .,*6/T' ,)1;' .)6/,' 21,' 9 //T',)1;' .)6$' 21,' D*6-' 6/.*' 8 ,2*.. J' ;*/*,*6>)' 1',)*' =-*>*=,.' 8) >)')*' 8-.,*2' 0182' 2',)*' 0*2, >6/ 81-0.' ' ?' ,)1-0',) ' 410' 8)1' D-1;5),)*' 1;,' 1',)*' /620' 1' 5E =,T1',)*' .*>120' 1//18.' `()1;' .)6/,' )6+*' 21' .,-625*' 510.' D*. 0*' ?*T',)1;' .)6/,' 21,' ?69*',1',) .*/ '62' 01/' M ! : *' 600.',)*' -*6^ .12' ' 1-' ',)*' 1-0',)A7 410' 6?' 6' A*6/1;.' 410' + .,^ 25',)*' . 2.' 1',)*' 6,)*-.' ;=12',)*' >) /0-*2' ' `()1;' *-

% " H O % "

)6/,' 21,' .,*6/% ( )1;' .)6/,' 21,' D*6-' 6/.*' 7+ ,2*..% ( )1;')6/,' 21,' >1+*,') ' 2* 5)D1-.' 5110.%I' &)6,' 26, 12' .' ,)*-*' D ' ,)*' 510. ' ' 1;' ,69*' 686 ' ,)*.*' ,81' ' ()1;' .)6/,'21,'601-*' 1,)*-' 510. ' 620' ' *?*?^ D*-' ,)*' 6DD6,) ' 8) >)' 01*.' :1,') 29' 6// ,)*' 1,)*-.' 6-*' ,1' D*I9*=,' 620' 8) >)' 01*.' 21,' =;2 .)' ?1-*' 1-'/*..' .*+*-*/ ',)1.*' 8)1' + 1/6,*' ,)*?'HJ' 3

-" ' , '. ,>6 1-6' 1-' ,)6,' 6==-1+*0' D ' - C' 5*2' 8) >)' .' ,)6,' 2' ;.*' 2' ,)*' 4-**9' 620' 2' 6// ,)*' * 1-?*0' >) ;->)*.' *L>*=,' ,)*' ;.)*-62% /,)1;5)' - 5*$X' 86.' 6>_;6 2,*0' 8 ,)' ,)*' 0 *-?5' 1= 2 12.' 8) >)' *L .,*0' 2') .' , ?*' 2' -*56-0' ,1' ,) .' .;D*>,' ,' .' *+ 0*2,' -1?') .' 182' 81-0.' ,)6,')*' 92*8' 21,) 25' 1' ,)6,'0 + . 12' D ' 8) >)',)*' 2 ?D*-' ' .' >1?=/*.*0' D ' ?69 25',)*' =-1) D , 12' 656 2.,'>1+*, 25' * ,)*-' ,)*')1;.*' 1-' ,)*' 8 *' 6' 0 ., 2>,' >1? ?620?*2,%' 2') .' * 5),)' # ' ' ? 1'6 ,*-' > , 25',)*' 81-0.' ' ' '6?' ,)*' 1-0',) ' 410' 8)1'D-1;5),',)**' 1;,' 1',)*'/620' 1' 5 =, J')*' 600.' ,) .' .' 21,' 6'=6-,' 1',)*' >1? ?620^ ?*2,%J' ( )* -.,'>1? ?620?*2,' .' ' ()1;' .)6/,')6+*' 21' 1,)*-' 510.' D;,' ?* J' 620',)*2' 1//18.'3' ( )1;' .)9/,' 21,' ?69*' 62' 01/%J' ( )*.*',15*,)*<' 1;) ,' D;,' 2',) .' >6.*',)*' 2;?D*-',*2' 8 // 21,' D*' >1?=/*,* ' 8)*-*',)*2' 8 // D*' ,)*',-;,)' 1',)*' *>6/15;*H' ;,' ' ,' D*' 0 + 0*0' 6.' 8*')6+*' 012*' 2',)*' /6.',.*2,*2>*',)*' ;// 2;?D*-' 8 // D*7 *+ 0*2,% ( )*' -.,' >1? ?620?*2,' ,)*-* 1-*' .' ' ()1;' .)6/,')6+*' 21' 1,)*-' 510.' D;,' ?* J' 620',)*' .*>^ 120' ' ()1;' .)6/,' 21,' ?69*' ,1',) .*/ ' 62' 01/ ' 21-' 6% / 9*2*.. J' *,>% - 5*2' =-1>**0.',1' ?69*' 6' 0 ., 2>, 12' D*, 8***2' 510. ' 01/.' 620' / 9*2*..*.% '510. ')*' .6 .' ,' .' ;- ,,*2',)*-*' 6-*' 510.' ?62 ' 620' /1-0.' ?62 J' M ' 1-% + ' XT' D;,' 1 ' 01/.' ' '62' 01/ .' 21,) 2 5 6 2' ?65*')*' .6 .' 1 ' 6' _;60-;=*>7',*-=*2,' 1-' D -0 ' 2' ?*,6/ 8110' 1-'.,12*' ',*,';=',1' D*' 81-.) ==*0' .' 21,' 62' 1' D;,' 6' + ' ' =>,;-*' ?60*' 8 ,)',)*' .6?*' + *8' >1?*.' ;20*-' ,)*' .6?*' 0*21? 26, 12% ;,' 62' 01/ .' 6' -*=-*.*2,6, 12' 1 ' 8)6,' 01*.' 21,' *L .,;'=' 62' 6.',)*' 5;-*' 1 '6' ?62' 8 ,)',81' 6>*.' 1-' 8 ,)',)*')*60' 1 '6' 015 ' *,>% ( )*' / 9*2*..' ?;.,' D*' 1 '.1?*.) 25' *L^ ., 25' 2')*6+*2 ' 1-' 2' *6-,) ' 1-' 2' ,)*' 86,*-% ,' .' 21,' *6. ',1' 0*> 0*' 12',)*' ?*62 25' 1 ' ',) 25.' 2')*6+* *2 J' ;2/*..' ,-* *-.' ,1',)*' .;2'?112' 1-' .,6-.% ( )*' 0*. 52' 1 ' <1.*.')*' >12>* +*.' ,1')6+*' D**2' ,1' 1-D 0' 5 =, 62' 01/6,- ' .;>)' 6.' ,)6,' 1 ' : *>6,*' 1-' 1,)*-' 62> *0' 0*?12.' I ,% 1' ' S' *' *0 X% ( )*' =.*;01C ,)626. ;.' 1-',)*' 6;,)1-' 1 ',)*' $ %9 ' $ % ;' 8)1' .',)*' 1-6>/*' 1 ',)*' 4-**9');->)' 0 + 0*.' ,)*' >1? ?620?*2,.' 2' ,)*' .6?*' ?622*-% ( ) .' D119' \ L10;.h' >12,6 2.',)*.*',*2' >1? ?620^ ?*2,.'12',81',6D/*.a' -.,' ' 6?' ,)*' 1-0',) ' 410% *>120' ( )1;' .)6/,' 21,' ?69*' ,1',) .*/ ' 62' 01/ ' 21-' 62 ' / 9*2*..% % % % 2,) ' ( )1;' .)6/,' 21,' D*6-' 6/.*' 8 ,2*..'656 2.',) ' 2* 5)D1-% *' 21-' 62 ',) 25',)6,' .',) 2* 5)D1-.' J' M ,)626. ' ,% I' 1/% 6-.' SRQX% 4-*51-E7 6[62[*2' 2' 12*' 1 ') .'=1*?.' 2.>- D*0' ' ()*' *>6/15;*' 1 ' <1.*. J' 5 +*.',)*' 1//18 25' 0 + .^ 12' >, % !' *0' 6 //6;0' 6- .' Q Xa ()=.1',*2'/68.' <1.*.' 1-?*-/ '*25-6+*0' 12',6D/*.' 2\' .,12*' D;,'01',)1;'*25-6+*',)*?'12',) ')*6-,% -)1;'6)6/,21,'9208'621,)*-'410' . 2>*' 81-.)='D*/125.',1'?*% ( )1;'.)6/,' 21,' ?69*' 6'+6 2'..6,;*'6'/ */*..' ?65*% ( )1;'.)6/,' 21,'>6// 12',/*' 5-*6,' 410' 2'+6 2% **=' 6// .6DD6,).',)*'.;D/ ?*' 620',)*',)6018 % : 6== ')*' 8)1'-*20*-.',1'/ .'=6-*2.',0;*)121-% /*' ,)*'>- ?*' 1 ' ?;-0*-'620'1 '6' 1-*' 52 *0'*+ /C? 20*0',)*',620'8 ,2*.. 6/.*'620',)*'0*. -*'1 '621,)*-.',)*'.**0'1 '0*6,)% B*-1?*',119',)*' .6?*' + *8' 8 ,)' - 5*2% 2') .' >1? ?*2,6- '12' =)*. 62.'+ ')*',);.' 8 - ,*.a' 'I : 12^ 1-',) ' 6,)*-' 620',) ' ?1,)*-' *->% .',)*' "'>1?^ ?620?*2,' 2',)*' *>6/15;*' :18',)*2' 6-*' 8*',1' ;20*-.,620',)*'6=1.,/*.' ?*62 25' 2'>6// 25',',)*' -.,' 8)*2',)*' -.,'>1? ?620?*2,' .' I()1;' .)6/,')6+*' 21' 510.' D;,' ?* ' 8)*-*' .1?*' -*60',);.' ' 8) >)' .',)*' .,'>1? ?620?*2,' 8 ,)'=-1? .*' 622*L*0' *,>% 3 %%%%%%%% ;,',)* '01' 21,'.**?',1' ?*',1')6+*' 1D.*-+*0 8 ,)'.; >*2,' 6>>;-6> ',)6,' 2',)*' >1? ?620^ ?*2,',)*-*' .' 6/.1' 6'=-1? .*d ' ()1;' .)6/,' 21,' ?69*',1',) .*/ ' 62' 01/' 21-',)*' / 9*2*..' 1 ' 62 ',) 5' 2')*6+*2' 6D1+*' 1-' 2',)*' *6-,)' D*2*6,) ' 1-' 2',)*' 86,*-' ;20*-',)*' *6-,)' ,)1;'O)6/,' 21,'601-*',)*?' 21-' .61-C' >*',1',)*?' 1-' ',)*' 1-0',) ' 410' 6?' 6' *+6/1;' 410' + . , 25',)*' . 2.' % % % % D;D' .)18 25' ?*-> ';2,=',)1;.620.' % % % ' M1D.*-+*',)*.*I' 81-0.' 1' =-1? .*' ' .)18 25' ?*-> ';2,1',)1;.620.' *,>%XJ'M: *-12 ?' ,%1' I' +1/' + ' 6- .' SRNX ( )*=.*;01C ?D-1.*' 6/.1' 8- ,*.',1',)*' .6?*' * *>,' 2' D .' ' 6%" S' :18' .',) .',)*' -.,'>1? ?620?*2,' 8)*2',)*' -.,'>1? ?620?*2,'.6 7' ()1;'.)6 ,')6+*' 21' 1,)*-' 510.' D;,' ?*H' ()*2' ()1;' .)6/,' 21,' ?69*' 6' / 9*2*..' 1 ' 62 ',) 25' 2')*6+*' 2' 6D1+*' 1-' 2',)*' *6-,)' D*2*6,)' *,>% ( )*' " ' ()1;' .)6/,'21,',69*',)*' 26?*' 1',)*' 1-0',) ' 410' 2' +6 2')*' "' ' **=' ? ' .6DD6,).' ,)*' "' ' :121-',) ' 6,)*-' 620',) ' ?1,)*-% .',)*' -.,' 1;-'6==*-,6 2',1' 410',)* '6-*' >12,6 2*0' 2',)*' -.,'6D/*' ,)*' 1,)*-.' 6==*-,6 2 25',1' ?*2 '6-*' >12,6 2*0' 2',)*' .*>120' .;>)' 6.',)6,' 1 ')121- 25' =6-*2,.' 21,' >1? ?620?*2,' ,)5),' D ' 60;/,*- ',)*' ,' 6/.*' 8 ,2*..' 1-'>12>;= .>*2>*% ( )*.*' . L' .** ?',1' D*' 8-.,*2' 2',)*' .*>120',6D/*' ,)*' -.,' 1' 8)>)' .' >6//*0',)*' -.,' 8 ,)'=-1? .*J' M ?D-1. ' ',% =' +1/% ' 6- .' *0 ,12' ==*20' =% K Q' K RX% (1',)*.*',*.,?12*.' -1?',)*' 6,)*-.'?6 ' D*' 600*0',)6,' 1 ' /*?*2.' /*L620- 2;.' >$ '+ ' =% Q RX' D;,',) .'8-,*-' .'.1'>12 ;.*0'620'>12,-60 >,1- ' 2' -* ^ *-*2>*',1',)*' .;DA*>,',)6,'.1?*')6+1'.;==1.*0',)*',*L,' ,1')6+*' D**2' >1--;=,*0% n' ( )*' -.,' =-*>*=,' 1',)*' *>6/15;*J')*' 1D.*-+*.' .)18.',)6,' 12*' 410' 12/ ' .' ,1' D*' 81-.) ==*0' 8)1' D-1;5),') .' =*1=/*' 1;,' 1' 5 =,' % % % % % ' 620',)6,' ?2*2' 1;5),',1' 6D..6 2' -1?',)*' 01/6,- ' 1 ',)*' >-*6,;-*% 3' ( )*' .*>120',)6,' 8*' 1;5),' 21,',1',-62. *-') .' 26?*',1' >-*6,;-*.' ,)*' " ' . 52 ^ *.',)6,',)*' 81-/0' 86.' ?60*' D ' 410' 8)1')6.' 5 +*2' ;.',)*' .*+*2,)' 06 ',1' -*.,' ,)*' "' 1//18.' 8) >)' >1? ?620.';.',1')121-1;-'=6-*2,..' ,)*2' 1//18.',)*' =-*>*=,'6D1;,'60;/,*- '6 ,*-',) .',)6,'>12>*-2 25',)*' ,' D;,',)*',*2,)' .'>12>*-2 25'>1+*, 25%J ;,',)*' .,-125*.,'*+ 0*2>*' 2' 6+1-'1',)*' - 5*2 62' 0 + . 12' .',)6,'1',)*'/*6-2*0'B*8.') /1'620'B1.*=);.' 8)1' .=*69' 1',' ,'6.',)*' -*>* +*0' 0 + . 12' 1',)*' B*8 .)');->)%) /1'6 ,*-'?*2, 12 25',)*'0 + . 12' 2,1',81' =*2,60.'6/-*60 '-* *--*0',1'=-1>**0.a ' ()*' -.,'=*2^ ,60' .' 1'6') 5)*-'>)6-6>,*-',)62',)*' .*>120? ',,-*6,.' 1',)*' ?126->) ' 8)*-*D ',)*' 8)1/*' 81-/0' .'51+*-2*0' 1' .,6,;*.' 620' ?65*.' I1 ') ' O% - 8' 620' 1' 6// >1--;=,' -*=-*.*2,6, 12.' 2' 5*2*-6/ > I % % = - 8' 1' 21,',69 25',)*' 26?*' 1' 410' 2' +6 2' 1',)*' -*/ 5 1;.' 1D.*-+62>*' 1',)*' .*+*2,)' 06 '6.' 6' 06 ' 1')1/ '-*.,' 1 ')121- 25' D1,)'=6-*2,.' % 1',)6,' 12*' ,6^ D/*' D*5 2.' 8 ,)' 410',)1' 6,)*-'620' -;/*-' 1 '6//',) 25.' 620' *20.' 8 ,)'=6-*2,.' 8)1' *?;/6,*') ?' 2'=*-=*,;6^ ,25',)*');?62' -6>*% ;,',)*' 1,)*-'=*2,60' >12,6 2.',)1.*' >1? ?620?*2,.' 8) >)' 1-D 0' 60;/,*- ' ?;-0*-'),)*',' 6/.*C8 ,2*..' >12>;= .>*2>*J M *' ' / D% X' % ( )*' =-*>*=,')*' 6 ,*-86-0.' 1D.*-+*.' *2A1 2.,)*' D*/*' 620' -*+*-*2,' 81-.) =' 1' 12*' .;=-*?*' 410' 2' 1==1. ,12',1',)1.*' 8)1' 81-.) =',)*' .;2' 620' ?>12' *,>% ( )*2'6 ,*-'>120*?2 25',)*' 6-,.' 1' .>;/=,;-*' 620' =6 2, 25' 6.' ,69 25' 1 ',)*' ?20' -1?' 60? - 25',)*' 26,;-6/' D*6;, ' 1 ',)*' ;2 +*-..*')*' 600.a' .' ')6+*' .6 0' 6' 5110' 0*6/ 1 ',)*' ' >1? ?620?*2,' ' .)6// 218' =-1>**0',1',)*' 2*L,' ' ()1;' .)6/,' -5,' ,69*',)*' 26?*' 1' 410' 2' +6 2% ( )*' 1;-,)' >1? ?620^ ?*2,'-*.=*>,.',)*' 6DD6,)'06 ',1' D*' 0*+1,*0',_'-*.,' ,)*',;0 '1' 8 .01?'620',)*>12,*?=/6, 12'>'26,;-*' 8 ,)'6'-*+ . 12' 1' 1;-'/ +*.' 0;- 25',)*' =6.,'8**9' 2' 1-0*-',1',)*' >1--*>, 12' 1 '1;-'-62.5-* 12.1',)*' ,)' .=*69.' 1')121- 25' =6-*2,.% : *-*' *20.',)*' -.,' 1-' ?1-*C0 + 2*' =*2,60% ( )*' .*>120'=*2,60' D*5 2.' 8 ,)',)*' =-*>*=,'-*.=*>, 25' 60;/,*-E C1' ,' .*>120'=-*>*=,' ,' 656 2.,' ?;-0*-1' ,'.),)-0' 656 2.,'.,*-6/ 25'),)*' 2*L,' 656 2.,' 6/.*C8 ,2*..',)*' /6.,' 656 2.,'>1+*, 25J' 4 D% X' % ( ) .' 0 + .A72' .**?.',1')6+*' D**2' 1//18*0' D %

d-* ;*; .ā ' 2' _; 2 _;*/ D- '*,>%Ť ;26 _; .* _;*' ,6D ; /6' _; 6 ?' 6>>*= ,' 6" *1" =->*>*=,6') 6D*,' _; 2 _;*ŭJ' B1.*Ć =) ; . I .' '=1.. D/*' ., // ?1-*' >/*6-',) 62') /1% ( )*' -..,' >1 ? ?620 ? *2,' ,*6>) *.' ; .' ,) 6,' ,)*-*' .' D ; ,' 1=*' 410 '620' ,) 6,' 8*' 1 ; 5) ,' ,1' 81-.) =') ?' 12/ Ť ,)*' .*>^ 120' >1 ? ?620.' ; .' 21,' ,1' ?69*' ,)*' ?65*' 1 ' 62 '/ +Ć 5' >-*6, ; -*' ,1' 81-.) =' ,Ť ,)*' ,) -0 ' ,) 6,' 8*' ? ; .' , 21,' . 8 *6-' D ' 410' 2' 6' 6/.*' ?6,,*-Ť ,)*' 1 ; -.,) ' ,) 6,' 8*' ? ; .,' 9**=' ,)*' .*+*2,) ' 06 ' D ' -*., 25' -1?' 6// .1-.,' 1 ' 81-9Ť ,)*' ,) ' ,) 6,' 8*' ? ; .,') 121-' 1 ; -' =6-^ *2,.' Ť ,)*' . L,) ' ,) 6,' 8*' ? ; .,' 6D.,6 2' -1?' ? ; -0*-Ť ,) *' .*+*2,) ' ,) 6,' 8*' ? ; .,' 21,' >0 ? ? ,' 60 ; /,*- Ť ,)*' * 5) ,) ' ,) 6,' 8*' ? ; .,' 21,' D*' 5 ; /, '1 ' ,) * ,Ť ,)*' 2 2,) ' ,) 6,' 8*' ? ; .,' 21,' D*6-' 6/.*CD8 ,2*..Ť ,)*' ,*2,) ' ,) 6,' 8*' ? ; .,' 21,' 60 ? ,' ,)*' 0*. -*' 1 ' ,) 6,' 8) >)' .' 621,) ^ *- .J' & !' ' ' &) .,12 .' ,-62 ./6, 12X%

( ) .' 0 + . 12 ' 8) >)' 6==*6-.' ,1') 6+*' D**2' 1-51,,*2' 2' ,)*' & *. ,*-2') ;->) ' 86 .'-*+ +*0' D ' ,) 6,' .*>, 12' 1 ' ,)*' ;,) *-62 . 620' .' 6/.1' -*>* +*0' D ' ,) 6,' .*>, 12' 1 ' ,)*' ;,) *-62 . 8) 1' 1//18*0' ;>*-' >6//*0' ,)*' (*,-6=1/ ,62.% ,' ,' 601=,*0' D ' 6/?>,' > ' ' '" ' ; 1' -*2>)' *0% ' 6-,% 1 X% ,' .' .;==1-,*0' D ' U126-6. ' >*=)1-; . ' 620' *,-; .' <15 ./6 ; .' 6?125' ,)*' 4-**9. ' 620' .' ,) 6,' 1/^ /18*0' 2' ,)*' =-*. *2,' ;.. 62') ;->) ' 6. ' 8*// 6. ' D ' ,)*' 4-**9. ' 2' 5*2*-6/M. **' ,)*' 6,*>) . ?' =; D/ .) *0' D ' 1-0*-' 1 ' *,*-' ,)*' 4-*6, ' D ' 6->) D .) 1=' *. *2.9 ' 12012' NX% ,' .' 6,' ,)*' .6 ?*' ,?*' ?6 2,6 2*0' 2' ,) .' >6,*>) . ?' ,) 6,' ,' .' 21,' 1-D 00*2' ,1' D18' D* 1-*' ,)*' -*=-*. *2,6, 12.' 1 ' ,)*' .6 2,.% ( ) .' 0 + . 12 ' 8) >)' 6==*6-*0' 2' ,)*' .)1=. ' 119' 2' N ' 86.' 601=,*0' D ' ,)*' 25/ >62') ;->) Y6,' ,)*' * 1-?6, 12 ' M 7QX ' . ; D . , , ; , 25' '" 1-' 6DD6,) CO6 ' 2')*-' 1-1 ; /6-/*.% ( )*' .6 ?*' 0 + . 12' 86.' =; D/ .)*0' 8 ,)' 6==-1D6, 12' D ' /7122*-' 2') . /# ' 2' %

IN! & *' .) 6/! 2*L,' =-1>**0' ,1' 0*. >- D*' ,)*' ' =' ' ! M %X ( )*' -.,' .',) 6,' 2' L10 ; .% & *' >6//' ,' ,)*' <6.1-*, >' 0 + . 12 ' 26. ? ; >)' 6.' ,)*' >1?^ ?620 ? *2,.' 2' ,)*' 5-*6, *-' 2 ; ? D*-' 1 ' ?62 ; .>- =, .' 620' =- 2, *0' *0 , 12.' 6-*' .*=6-6, *0' D ' 6' N1-' ' 8) >)' ? 6-9' ,)*' 0 + . 12.' D*, 8***2' ,)*' . ?6//*-' .*>, 12.' 2' ,)*' : *^ D-*8% >>1-0 25' ,1' ,) .' 6--625*?*2, ' ,)*' -.,' ,81' >1? ?620 ? *2,.' M 2' ,)*' - 5*2 62' 1-' 4-**9' 0 + . 12X' ,) 6,' .' ,)*' >1? ?620 ? *2,' >12>*-2 25' 0 ? 65*. ' ? 69*' D ; .' 12*Ť ,)*' .*>120' .' ' ( ) 1 ; ' .) 6/,' 21,' ,69*' ,)*' 26 ? *' 1 ' ,)*' 1-0' ,) ' 410' 2' + 6 2 6 2 0' .1' 12' ; 2, /' 8*' 6-- +*' 6,' ,)*' ,81' /6. ., ')*' 1-?*-' 1 ' 8) >)' . ' ( ) 1 ; ' .) 6/,' 21,' >1+*, ') ' 2* 5) D1-.') 1) ; .* J' 620' ,)*' /6. ,' 1-' .*2,) ' ( ) 1 ; ' .) 6/,' 21,' >1+*, ') ' 2* 5) D1-.' 8 *' 21-') .' .*-+62, J' *, >% ,1' ,)*' *20% ( ) .' 86.' ,)*' 0 + . 12' 6=^ =-1+*0' D ' ;.,) *-' 620' ,') 6.' D**2' *+*-' . 2>*') .' , ?*' -*>* +*0' D ' ,)*' ;,) *-62') ;->) % ( )*' >1--*>,2*. . ' 1 ' ,) ' 0 + . 12') 6.' D**2' 6,' 6/.' , ?*.' ?6 2,6 2*0' D ' ,)*' ?1.,' /*6-2*0' ;,) *-62.' 21,' 12/ ' -1?' ,.' 65-**Ć 3?*2,' 8 ,)' ,)*' : *D-*8' D/*.' D ; ,' -1?' ,)*' 2,*-26/ . ,-; >, ; -*' 1 ' ,)*' >1? ?620 ? *2,. ' *.=*> 6// ' -1?' ,)*' 6>,' 1 ' ,)*' -.,' ,81' >1? ?620 ? *2,.' M6>>1-0 25' ,1' -Ć 5*2 .' 0 + . 12X' 1-? 25' D ; ,' 12*' . ; DA*>,% ' ,)*.*' 1-?' D ; ,' 12*' >1? ?620 ? *2, ' ,)*' 2*>*. . ' 1 ' 0 + 0 25' ,)*' =-*>*=, ' ,)1 ; ' .) 6/,' 21,' >1+*, J' *, >% 2,1' ,81' .' 1D+ ^ 1 ; .% M 1-' 6' /*6-2*0' 0* *2>*' 1 ' ,) .' 0 + . 12' .*' * ^ *-' ,% ' +1/' /1>% RS' =% K X% * *-' >12. 0*-.' ,)*' 6>>*2, ; 6, 12' 6/.1' 1 ' ,)*' : *D-*8' 6.' * _ ; 6// ' 0*^ > . +*' 2' 6+1-' 1 ' ,) .' 0 + . 12' 21,8 ,) . ,620 25' ,)*' 1==1. ,*' +768' .' ,69*2' D ' ?62 '1,) *-. ' 2>/ ; 0 25' ,)*' /*6-2*0' ;L,1- % ( ) .' 0 + . 12' .' 6/.1' 1//18*0' 2' ,)*' (-*2,' 6,*>) . ? ' 620' ?6 ' ,) *-* 1-*' D*' >6//*0' ,)*' 1I' ?62' 6,)1/ >' 0 + . 12% ( )*' >) ; ->) *. ' 1 ' ,) .' >1?Ć ?12 12')6+*' 21, ') 18*+*-' D**2' >12. .,*2,' 2' 1//18^ 25' ;2 1-?/ ' ,)*' (- 0*2, 2*' 0 + . 12') 6+ 25' -*^ + +*0' 6.' 2' 25/620 ' ,) *' .*>120' < 6.1-*, >' 0 + . 12' ,1' 8) >)' 8*' .) 6// =-*. *2,/ ' 6//; 0*% 2' ,)*' (-*2,' 6,*^ >) . ?' ,)*' -.,' >1? ?620 ? *2,' . ' 51' .; ?' 1? 2 ; .' *; . *; .' _ ; ' *0; L ' ,*' 0*' ,*--6' 5A 7=, ' 0*' 01? *' .*Ć + ,; , .Ť 212')6D*D .' *1.' 6/ *21.' >1-6# ' ?*% 12' 6> *.' , D ' .>; /=, /* J' *, >% ' 51' .; ?' 1? 2 ; .' *; . , ; , . ' 1-,/. ' [*/1,*. J' *, >% ,1' A -.*>*=,6' ?*6%J' ( )*' /6..' ,81' >1? ?620 ? *2,.' M6>>1-0 25' ,1' ,)*' 1? 62' 0 ^ + . 12X' 6-*') 18*+*-' 2' ,)*' .6 ?*' 6,*>) . ?' >1? D 2*0' 2' 12*' ,) ; .ā 12' >12>; = .>*.' 01? ; ?' =-1L ?' ,; Ť 2*>' 0*. 0*-6D .' ; L1-*?' *A ; . ' 212' .*-+ ; ?' 212' 62> /Ć 6?' 212' D1+*?' 212' 6. 2 ; ?' 2*>' 1? 2 6' _ ; ?' // ; .' . ; 2, % 2') . ' 0 ; 1D ; '=2*>*=, . J' *, >% ,') 60' 6==*6-^ *0' 2' ,)*' .6 ?*' 1-?' 2' 25/620' 2' < 6-.) 6// .' 620' D .) 1=' : /.* .' ' N '620' NR% ( ) 1.*' 8) 1' 1//18' ,) .' 0 + . 12') 6+*' D**2' 6>>; . ,1?^ *0' ,1' 5 +*' ,)*' *>6/15 ; *' +*- '5*2*-6// ' 2' 62' 6D- 05*0' 1-?ā ,) ; .' ,)*' -..' >1? ?620 ? *2,' 2' ,)*' ;,) *-62') 1-,*-' 6,*>) . ?' .' . ?=/ ' ( ) 1 ; ' .) 6/,') 6+*' 21' 1,) ^ *-' 510.') ; ,' ? *TJ' ,)*' .*>120' ( ) 1 ; ' .) 6/,' 21,' ,69*' ,)*' 26 ? *' 1 ' ,) ' 410' 2' +6 2TJ' ,)*' ,) -0 ' ' ( ) 1 ; ' .) 6/,' .62>, ' ,)*' 6DD6,) CO6 J' >@1 8!' ' . ? /6-'=-6>^ ,>*' .' 1//18*0' D ' ,)*' 1? 62' 6,) 1/ >. ' 6/,) 1 ; 5) ' ,) * ' 6.' 8*// 6.' ,)*' ;,) *-62. ' 2' ,)*' -' 6-5*-' 6,*^ >) . ?.' M6.' ,)*' 1 ; 6 X 5 +*' ,) *? ' 6,' ;// /*25,) % (/ .' =-6>, >*') 6.' 5 +*2' - .*' ,1' ,) *' >) 6-5*' A260*' 656 2.' ,) 1.*' 0*21 ? 26, 12.' 1 ' /*6+ 25' 1 ; ,' ,)*' .*>120' >1? ^ ?620 ? *2, ' 8) >*-*6.' ,' 81 ; /0') 6+*' D**2' ?1-*' >1--*>, ' ,1' .6 ' ,) 6,' ,) *') 60' ? ; ,/6,*0' ,)*' -.,' 1-' 6,' /*6.,' ,) 6, ' ,) *' 1-?' 2' 8) >)' ,) *' 5 +*' ,') 6.' ,) *' * *>,' 1 ' >12^ >*6) 25' 6' ?1.,' ?=1-,62,' =6-,' 1 ' ,' -1?' .;>) ' 6.' 12/ ') 60' 6>>*.. ' ,1' ,) * -') 1-,*-' 6,*>) . ?.% MK%X ( )*' /6.,' 0 + . 12' .' ,)*' ' 1-' ,) 6,' 1 ' *; ,*-121? ' .1?*, ?*,' >6//*0' ,)*' ;5 ; ., 2C 62% ( ) .' 0 + . 12' 0 *-.' -1?',)*' 1-?*-' . ?=/ ' 2' =/6> 25' ,)*' =-*>*=, ' ( ) 1 ; ' .) 6/,' 21,' >1+*, ') ' 2* 5) ^ D1-.' 8 *J' D* 1-*' ( ) 1 ; ' .) 6/,' 21,' >1+*, ') ' 2* 5) ^ D1-.') 1 ; ,.* J' *, >% Ť 620' 1-' ,) .' ,-62. =1. , 12' ,') 6.' ,) *' 6 ; ,) 1-, 7' 1 ' *; ,% + ' K % ( )*' 6 ; ,) 1-, ' 1 ' ,)*' <7.1-Ć ,.*' >6221, ') 18*+*-' D*' 1 '.; > *2, ' 1->*' ,1' .; =*-.*0*' ,)*' *6-/ *-', -60 , 12.' 1 ') /1' 620' B1.*=) ; .% ( ) .' 0 + . 12' 86.' ,) 6, ' 6==-1+*0' D ' ;5 ; ., 2*' 8) 1' ,) ; .' *L=-*. .*.') ?.*/' 12' ,)*' .; DA*>, ā 1//18 25' ;=' 8) 6, ')*') 60' .6 0' I %f =% SNQX ')*' 1D.*-+*7' ;,' ,1' ?*' ,' .**?.' % ?1-1' >125-; 1 ; .' ,1' 0 + 0*' ,)*?' 2,1' ,)-*** 620' .*+*2' 26. ? ; >)' 6.' ,1' ,) 1.*' 8) 1' 0 / 5*2, / ' /119' 2,1' ,)*' ? 6,, *-' ,) 1.*' 8) >)' 6==*-,6 2' ,1' 410' .** 2' ,1' 2. 2 ; 6,*' ,)*' (- 2 , 20' 20**0' ,)*' >1? ? 620' 7 ( ) 1 ; ' .) 6/,') 6+*' 21' 1,) *-' 510.' D ; ,' ? * ' .' ? 1-*' =*-^ *>, / ' *L=/6 2*0' 8) *2' ?65*.' 6-*' 1-D 00*2' ,1' D*' 81-^ .) ==*0% *. 0*. ' ,)*' . 2' 1 ' >1+*, 25' 621,) *-' ?62 .' 8 *'0 *-.' .1' ? ; >)' -1?' >1+*, 25' D .') 1 ; .* ' ,) 6, ' ,1' ,) *' 1) ; .*' 86.' A1 2*0') .' */0' D .' .*-+62, ' D .' ?6 0') .' 1L') .' 6. . ') .' >6, , /*' 620' 6/!' ,) 6, ' .') .% ; ' , ' .**?.' ,1' 0 + 0*' ,) *' >1+*, 25' 1 ' ,) *') 1 ; .*' -1?' ,) *' >1+*, 25' 1 ' ,) *' 8 *' 8) *2' *6>) ' D*5 2.' ,) ; .ā' ' -" ' " ' ' ' ' ' ,) '2* 5) D1-.' 8 *' " ' " ' ' ' ' ,) '2* 5) / 1-.') 1 ; .* ' ,1' 8) >)' ,' ,) *2' D*5 2.' ,1' 600' ,) *' -*. ,C 1-' 8) *2') *') 60' .6 0' ' ( ) 1 ; ' .) 6/,' 21,' >1+*, ' ,) '2* 5) D1-.' 8 *') *' 0 0' 21,' 600' ,) *' -*. ' , ' ,1' ,) . ' .6 25' 21-') .') 1) ; .* ' 21-') .' */0' 21-') .' .*-+*' ,) *? ' ; 2/*. ' ,1' ,) 6, ' 8) >)') 60' D**2' .6 0' 7 ( ) 1 ; ' .) 6/,') 6+*' 212*' 1,) *-' 510.' D ; ,' ? * ' J' ( ) *' 0 + . 12' 1 ' ;5 ; ., 2*' 86.' 1/^ /18*0' D ' *0*' 620' *, *-' 1?D6-0% ( ) *' /*6-2*0' 122,65') 6.' *2, -*/ ' 1//18*0' ;5 ; .^ , 2*.' + *8' 1 ' ,) .' . ; DA*>, ' 620') 6.' 8- ,, *2' 6' 0 . .*-,6^ , 12' 2' + 20 >6, 12' 1 ' ,) .' 0 + . 12' C 2' ,) *' -+ " ' $ ' ') + ' M : 6 ? D% QNSC X ' ,1' 8) >)' ,) *-*' 86.' 6' -*=/ ' 2' ,) *' .6 ?*' ? .>*//62 ' -1?' U ; // 5' 2' + 2^ 0 >6, 12' 1 ' 8) 6, ') *' ,*-? . ,) *' 1-' ,) 6, ' 1 ' - 5*2 ' 8) >)' ' 1//18*0' D ' 6' -*A1 20*-' -1?' 122,65% 122,65' .' .1' >12+ 2>*0' 1 ' ,) *' 2*>*. . , ' 1 ' ,) 6, ' 1-0*-' 1 ' ,) *' 81-0. ' 6>>1-0 25' ,1' 8) >)' ,) *' =-*^ >*=, ' 656 2. ,' >1+*, 25' ,) *' 8 *' =-*>*0*.' M6. ' 2' *, *-^ 121? X ' ,) 6, ' 656 2. ,' >1+*, 25' ,) *') 1 ; .* ' *, >% ,) 6, ' D7' =; ,.' 0182' ,) *' 1-0*-' 1 ' ,) *' 81-0.' 2' L10 ; .' 6.' 62

1+*-. 5),‰ ()*' 1-0*-' 2' ,)*' *=,265 2,' +*-. 12' 2' L10;.'65-**.' 8 ,)',)6,' 2' *;,*-121? ' ()*' 4-**9') ;->)' 1//18.' ,) .' 1-0*-‰ 122,65' >12>* +*.' ,)6,' ,)*' <1.6 >'0 + . 12' 1 ',)*' *>6/15;*' 86.'/1..' 2‰,)*‰ =*- 10' D*,8**2',)*' *L /*' 620',)*' D -,)' 1 ' ,)- .,‰ ' ' ,,1 '.' ‰ **' : * 2[*' ' ' '% % ' ,' ' ' ' M ,*D‰ R XT' /$>9*' DD ' ' M -*.0*2 ' QQXT' ()1?,12B' ' " ' 'M 120‰ Q KX‰ 1-'6'/.,'1 '*L=1. , 12. ' .*-?12.' *,>‰12',)*' *>6/15;*' .**' 6-/ 25' % 1' ?!; % %" ' 'KKK .5‰ **' 7@ !

>6= 71/ .' M-X &) O ' <6-9'+' K 'D;',8 ,)^ 1;',)' 6-,‰ 2' <6,,' +' K ' <6-9'+ 'C:'%‰*‰6,' $)2' -- O# ' + ' ' '6.' 2' B1.*=);.' & 'S X'6'0 .^ ,-->,'M)*2>*' 2' / 2 '+' S ' ' % 8'1-' -6,)*-' >*-,6 2' ' 'M 2>/;0 25',)* -' 6OA6>*2,'+ /^ /65*.' 1-',;D;-D.'B1.*=);.' 'RX' 8)>)'-*.*?D/*0' *6>)' 1,)*-' 2' D* 25' 2)6D ,*0' ?1./' D ' 4*2,/*.' M 5), 11,'L%%!' ' X'620' 2',)* -'>+>' 2.,,;, 12.' 620' =- + /*5*.' MB1.*=);.' 3 ' X‰ ()* '8*-*' .,-^ 6,*0' 2',)*' 2* 5)D1-)110' 1',)*' *6' 1 '4*22*.6->,)' M<6-9'+ 'N T' >1?=‰B1.*=)‰(6-' 'R' X'2*6-',)*' *6.,*-2' .0*' 1',)*' B1-062 '620' 2' 8)6,' 86.'>6//*0',)*' 1?62'=-1+ 2>*' 1' A2-6'MB1.*=);.' 1 'S X‰ ()* 26?*' *>6=1/.'01*.'21,'1>>;-' 2',)*' =1>- =)6'620' 6>>1-0 25',1'<622*-,' ,' .'12/' 1;20' 2'8-,*-.'1',)* -.,'>*2,;- T 2'/6,*-',?*.',)*-*i .'.>6->*/'62'6//:0^ .12',1',I? 4%" ' ' ? " ' '5 B' ' K X‰ ??*0 6,*/'6,*-',)*'>12_;*.,'1' -6'D',)* :1?62.'M % ‰S X',*2' >,*.' 6==*6-',1')6+*' D**2' -*^ D;/,'=6-,/' >1/12 [*0' 620' *2018*0' 8,)' =*>;/6-' =-A /*5*.' MB1.*=);.'& !'L+' 'NT' L+ ' ' XT',)* >1;2,-A'6-1;20',)*?'86.')*2>*'>6//*0' % !' ()* /?,.' 1',)*,*-- ,1- '8*-*' 21,' *-'>/*6-/'0* 2*0' 620'=-1D6D/''2',)*'>1;-.*'1',?*1,)*-'2* 5)D1-25' >,*.'-*>* +*0' .?/6-'=- + /*5*.‰ ()./'6 '6>>1;2,' 1-',)*' 6>,',)6,'62>*2,'5*15-6=)*-.'.=*69'.1' 20* ^ 2,*/'1',)*'=-1+ 2>*'620'01'21,'*+*2'65-**'6.',1',)* 26?*.'1',)*'>,*.',)*?.*/+*.‰ / 2 ' 7 !'+ SX'8)/*'60?,,25',)6,',)*-*'86.'.1?*'+6-6,12'2' ,)*'/.,'*2;?*-6,*.',)*?'6.' 1//18.d ' ' " 9 %" '5 %" '$ " %% '? '# %% ' ' ' ? ? 'MH' 4*-6.6X'620' " :')*'600.'M+' QX' ()*,*,-6->)*./* '620' ',)*.*'>,^ *.' %%%' ‰ 26?*/' (-6>)12,.' 62 6.' D /6 1*,>‰ ()*.*'>,*.'6-*' .>6,,*-*0'1+*-'6'+*-'8 0*-*5 12‰ ' 6=)626'D*'6.'?62',;==1.*',)*'.6?*'6.' 6=)62.*6' 1'B1.*=);.',/6'2*6-':6?6,)'MB1.*=)‰ '+ ' X'620'-1?',)*2>*',1')/60*/=)6'12',)*'.1;,)' .' 6D1+*'K '?/*.'620' -1?' >,)1=1/.'12',)*'8*.',1' 626,)6'12',)*'>6.,' .'6D1;,'S‰ B1.*=);.'01*.'21,' *2;?*-6,*',)*>,*.'1' *>6=1/.'D;,' 81;/0'.**?' ,)6,')1'*L>/;0*.' 6?6.>;.' -1?',)*'2;?D*-' .2>*')* >6//.' >,)1=1/.',)*'/6-5*.,'1',)*?'> ' 'R' X‰ :*'6/.1'2>0*2,6// '2>/;0*.'?1.,'1',)*'1,)*-'>,*.' 26?*0d *‰5‰)/60*/=)6'I ' 'Q X'4606-6'620' :==1.'I 'S' XT'8)/7' =+)62;.'I# !'N 'KX' 26?*.' *//6'6.'D*/125 25',1',).'0.,->,'620'2' ,*^ =)*2'1' [62,;?'4*-6.6'6==*6-.'2',)*'.6?*'5*2^ *-6/'>122*>,12‰ *//6-;.',)29.' 6*.6-*6C)/==' 620'4*-56.6'1;5),',1'D*C.;D.,;,*0'2' /2 ./.,'1-' 6?6.>;.'620' 6=D76'I7 !' 'SN X‰ /2' .';2^ 01;D,*0/',)*'12/'6;,)1-'8)1'*L,*20.' *>6=1/.'.'1' 6-'21-,)‰ ,1/*?'6==*6-.',1'2>/;0*.'*>6=1/.'2' ,)*.1;,)*-2'=6-,'1'1*/*C -6'I? !+' XT')*'6/.1' M+' X'?69*.' % '12*'1',)*',*2T'620'62'1/0' 6/? -*2*'2.>-=,12'_;1,*0'D' */620'I !'=‰ K X'2>/;0*.'&" '6',182'8)>)'6>>1-0 25',1' ;.*^ D;.'I, !'.‰ % D/6X'86.' K 1?62'?/*.'*6.,'1' 4606-6‰ 5),11,'I# !'# !'=‰SSN'.,‰*2;?*-6,*.' -1?'(6/?;0>6/.1;->*.'MB*-;.‰(6/?‰' ' 1/‰KK 3 NX'6.'D*/125 25',1' *>6=1/.'D*.0*.' >,)1=1/.'46^ 06-6':==1'620'*//6',)*'1//18 25'/*..C92182',182.' 620'+//65*.'8)>)'/9*' >,)1=1/.'M_‰+X'8*-*'5*2C !*-6// '*.,**?*0'6.')*6,)*2'620';20*-'4*2,/*-;/*á *=)6-C 6?6 2'M 7 /=' I7 NX' %" 1. '" M % 'U' [

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till his death. He died suddenly on his way home from Synod, of cholera, Oct. 5, 1832. Three of his sons are now actively engaged in the work of the ministry in the German Reformed Church. He preached only in the German language. A number of prominent German Reformed ministers received their theological training under him.

Decimæ. See TITHES.

Decision, VALLEY OF (עֵמֶק הֶחָרוּץ, *E'mek, he-Charuts'*, *vale of the sentence*; Sept. ἡ κοιλὰς τῆς δίκης, Vulg. *Vallis concisionis*), a name poetically given to the Valley of JEHOSHAPHAT (q. v.), as being the ideal scene of the signal inflictions by Jehovah upon Zion's enemies at their restoration (Joel iii, 14). In perversion of some such prediction, the Mohammedans still believe that the final judgment will take place on this spot, and have accordingly left a stone in the city wall overhanging the valley, projecting as a seat for their prophet in the capacity of judge.

Decius, C. MESSIUS QUINTUS TRAJANUS, a Roman emperor, was born at Bubalia, in Lower Pannonia, towards the close of the second century. Being sent in 249 by the emperor Philippus to restore to subordination the army of Mœsia, which was in a state of revolt, the troops proclaimed him emperor against his will, and forced him to march upon Italy. Philippus having been defeated and slain, Decius assumed the government of the empire in the end of the year A.D. 249, but his brief reign was one of restless warring with the Goths, fighting against whom he was killed near Abricium, in the close of the year 251. Decius was an emperor of more than ordinary ability, but his reign was stained by a bloody persecution of the Chris-

Coin of Decius Trajanus. British Museum. Actual size. Copper. Weight 303½ grains.

tians. In point of time this persecution ranks as the seventh, but in point of cruelty it was only equalled by that of Diocletian. See PERSECUTIONS. For about forty years prior to the accession of Decius the Christians had enjoyed peace, which only in some parts of the Roman empire was, for a short time, interrupted by a decree of the emperor Maximin. The effect of this peace upon the religious life of the Church was, in general, not favorable. Cyprian, Origen, and other ecclesiastical writers complain that worldliness, avarice, and other vices had become prevalent, and that marriages of Christians with pagans had become frequent. Soon after his accession to the throne (probably at the beginning of the year 250), Decius issued a severe decree against the Christians. The decree itself is lost, the *Edictum Decii Augusti contra Christianos*, which was published in 1664 at Toulouse by Bernard Medonius from Acts of the Martyrs, being spurious, as has been shown by Tillemont and Mosheim. The contents of the decree are, however, fully noticed by Gregory of Nyssa and other ancient writers. It ordered the civil magistrates to destroy Christianity by threatening Christians with the severest punishments, and by using against them tortures of every kind. It was sent to the governors of all the provinces, and most of them hastened to execute it. They promulgated the decree, and demanded that within a certain time every Christian should appear before the civil magistrate, and publicly declare his renunciation of the Christian faith; in the case of refusal, he was to suffer severe punishment, even death. Dionysius of Alexandria and Cyprian have given detailed descriptions of the persecution in the region of Carthage and Alexandria. Cyprian says that at the first news of the impending persecution a majority of the brethren hastened to renounce the faith, but his account is suspected of exaggeration. That the number of apostates was very large is also reported by Eusebius. Of those who remained faithful, most left the cities and sought refuge in solitude. Among this class were many of the most celebrated bishops, as Cyprian, Dionysius of Alexandria, and Gregory Thaumaturgus. This action was generally approved by the Church. The number of those, however, who neither fled nor apostatized was so great that, as soon as the time appointed for the execution of the decree arrived, the prisons were not sufficient to contain those who were arrested. Decius wished executions to be avoided, but every conceivable torture, if necessary, to be resorted to. Most of the civil magistrates vied with each other in inventing the most cruel tortures; only a few showed a spirit of sympathy and leniency. The number of those who succumbed to the torture (*lapsi*) was very large. Many procured false certificates that they had abjured the faith (*libellatici*). On the other hand, however, the number of those who died or were mutilated for the faith was considerable. In Rome, Antioch, and Jerusalem the several bishops were massacred; Origen, famous among the early fathers, was subjected to the most acute tortures. All the ancient martyrologies abound in names of those who are reported to have suffered martyrdom under Decius, and Tillemont spent much time and labor to sift the genuine reports from the spurious (*Mémoires*, iii, 133–189). Fortunately, the persecution of Decius did not last long. About Easter, 251, Cyprian could return from his concealment. The war which the emperor had to carry on against the Goths, his absence from Rome, the inroads of barbarians into the African provinces, and several insurrections, greatly moderated the persecution at the beginning of the year 251. When Decius, towards the close of the year, fell in a battle against the Goths, the Christians were set at liberty.—Herzog, *Real-Encyklop.* iii, 309; Wetzer und Welte, *Kirchen.-Lex.* iii, 59; Neander, *Church History* (Torrey's transl.), vol. ii.

Deck, i. e. BEDECK (properly עָדָה, *adah'*, to *adorn*, Ezek. xvi, 11, 13; xxiii, 40; Job xl, 10; Jer. iv, 30; Hos. ii, 13). See ORNAMENT.

Declamation, a speech made in the tone and manner of an oration, uniting the expression of action to propriety of pronunciation, in order to give the sentiment its full impression on the mind. The word is used also in a disparaging sense, as when it is said such a speech was mere declamation, it implies that it was deficient in point of reasoning, or had more sound than sense.—Buck, *Theol. Dictionary*, s. v. See HOMILETICS.

Declaratio Thorunensis, a confession of faith of the Reformed churches in Poland, drawn up at Thorn in 1645, for the settlement of disputed questions (*ad liquidationem controversiarum*). It is given in Niemeyer, *Collectio Confessionum*, p. 669 (Lips. 1840).

Decorated Style. See ARCHITECTURE.

De Courcy, RICHARD, a divine of the Church of England, born in Ireland, was educated at Trinity College, Dublin; became curate of Shanbury, Shropshire, in 1770; afterwards vicar of St. Alkmond in 1774, and died in 1803. In his sermons his language is dignified, and his reasoning perspicuous, embellished by apposite allusions, and ornamented by many of the graces of oratory. His principal works are, *Sermons*, to which is prefixed an essay on the nature, etc. of a pure and undefiled religion (Shrewsbury, 1805, 8vo); *Christ*

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., 25' ; .65*.' 620' =-*A ; 0 >*.' 1 '*0 ; >6, 12' 620' >6.,*' ,'
81;/0 D*' ?=1.. D/*' 1-',)*?C',1' 6..1> 6,*',15*,)*-' 2'
6' ? L*0' >1? ? ; 2 , '620' >) ; ->)' 8 ,)1 ; ' .>6206/% 2'
6//',) .' ,' 86.' >/*6-/ ' 20 >6,*0',)6,',)*' =-1) D , 12.'
8*-*' 21,' 6D.1/ ; ,*' 12>*' /*',)*' B*8 .)')- . , 62.'
D*' ?1-*',)1-1 ; 5)/ ' -**0' -1?',)*' %C(% 1-?.' 620'
,)*' *20' 1-' 8)>)',)*.*' -*5 ; /6, 12.' 8*-*' ?60*' 81; /0'
21' /125*-' *L..% 18',)*' 5-1 ; 20' 12' C ;)>)' ,)*.*'
=6-, >; /6-' =1 2,.' 8*-*' D-1 ; 5),' 2,1' + *8' .' *L=/6 2*0'
D ' ,)*' > ->; ?.,62>*',)6,',)*' 8*-*' 812,',1' D*' /6 0'
; =12',)*' =-1.*/ ,*.' 1 ',)*' 46,*' 2',)*' .1C>6//*0' .*+C
'% % ' '7 "P(' M>1?=% ; L,1- ' !' !' .' +%
7 '=% ' . %X% *>' 2D. (%' () . ',)*-* 1-*' .'
,)*' ?=1 ,'1 ',)*' 6--625*?*2,',)6,',)*' 4*2, /*')- .^
, 62.' .)1; /0' 21,' D*' 1D/ 5*0',1' D*>1?*' =-1.*/ ,*.' 1 '
- 5),*1; .2*..J' D ' > ->; ?> . 1_ ' D ; ' 12/ ' ,1' / -*' 6.'
=-1.*/ ,*.' 1 ',)*' 46,*%J' ()1.*' 1 ',)*' .*+*2' =-*^
>*=,.' 1 ' 16)' M.**' * ' '+ / ' 3 ' 8)>)' 6-*'
)*-*' 1? ,,*0' + [%',)*' 12*.' -*56-0 25' D/6.=)*? ' ? ; -^
0*-' -1DD*- ' 620' .*0 , 12 ' 86.' 1 ' .; >)' 6' 9 20' 2 6,' ,'
86.' .*/ C*+ 0*2,',1')- . , 62.' ,)6,',)*' / 9*>1; /0')6+*'
21' =/6>*' 6?125',)*?T 2',)*' =-*.*2,' 2.,62>*' ,' 86.'
21,' .1' ? ; >)' =-*>*=,.' 1 '6' = ; -*/ ' ?1-6/ >)6-6>,*-',)6,'
-*_ ; -*0',1')*' D-1 ; 5),' 1-86-0' 6.' =-*>*=,.' ,)6,' -*^
*--*0' . ?=/ ',1',)*' 1 ; , 86-0' / *% **' / '
$!

()6,',)*' =1//; , 12.' 1 ' 01/.J' I O U- *% - ' '
nMB8d8+X' 6-*',) ; .',1' D*' ; 20*-.,110' 1 '62' 1 ; ., 86-0' 6>,
+ [%I,)*' *6, 25' 1 ',)*' /*.)' 1 '.6>- >*.' .' _ ; ,*' 0*6/'
-1?',)*' 626/151 ; .' *L=-*.. 12' ,) 25.' 1 *-*0',1' 01/. J'
M 'B8d1k ; -6' = * *% 8' 2',)*'=6-6//*/+*-.*7' ()6'
?1-*' =6-, > ; /6-' 0 ., 2>, 12' ?60*' D ' 6 ; /' 2' ' 1-% L '
D*, 8**2' .; >)' /*.)' 1 '.6>- >*.' 6.' 86.' D1 ; 5),/ 9*' 62 '
1,)*-' 2' ,)*' .)6?D/*.' 620' .; >)' 6.' 86.' *6, *2' 2',)*'
,*?=/*' 6,' 62' 01/' *., +6/' .' 21,' *2,*-*0' 2,1' D ' ,)*'
6..*?D/ 'T ,)*' 2,*-0 >,' 2',)*' 8 0*.',.*2.*' 6//*6, 25'
1 '.6>- >*.' D*>6 ; .*',)*' B*8 .',1=9' 1 *2>*' 6,' ,% *>'
!

K% ()*' .6?*')1/0.' 5110' 1 ',)*' *6, 25' 1 'D/110 ' 620 '
8)>)' .',)*' .6?*',)25' 1 ',)6,' 8)>)' 86.' .,-625/*0 '
2' 8)>)',)*' D/110' -*?6 2*0' >165 ; /6,*0% ()*' B*8 .C
D60',)*' ; ,,?1.,'6D)1--*2>*' 1 'D/110' 6.' 110' 8)>)' 86.'
5-1 ; 20*0' =6-, > ; /6-/ ' ; =12' *+% L+ ' '8)*-*' ,'
.' 21,' ?*-*/ ' .6 0',)6,' B*)1+6)' 81; /0' .*,') .' 6>*'
656 2.',)*' => =*,-6,1-' 1 ',) .' 6>, 'D ; ,',)*' D/1_0' .' 6/.1'
-*=-*.*2,*0' 6.',)*' .; ==1-,' 1 ',)*' .1 ; / M>1?=% 4*2% 7
X',)6,' .' 1 ',)*'%=) . >6/ / *' 620' ,' .' =/6>*0' 2' >12^
2*>, 12' 8 ,)',A*' =-1=, 6, 12' 8)>)' >62' 12/ 'D*' ?60*'
D ',)*' .)*00 25' 1 'D/110' M : *D% L 'KKX% () .'/68' 6=^
=*6-.',1')6+*' D**2' .,-> ,/ ' 1D.*-+*0' D ',)*' =- ? , +*'
) ; ->)' M ; .*D% # !' 6 !'+ ' X' 20' *+*2' 2',)*' < 0^
0/*' 5*.',)*' 2A ; 2>, 12' 86.' -*_ ; *2,/ ' 5 +*2' D%7,)*'
.= - , ; 6/ 6 ; ,)1- , *.',1' 6+1 0',)*' *6, 25' 1 'D/110' M*.=*^
> 6// ' 2',)*' 4-**9') ; ->),% .**' >6212' S ' 1 ',)*' .*>120'
1 ; 2>/ 6,' (-;//1' 2' SRK' 2',)*' 6, 2') ; ->) ' ; 5 ; .^
, 2*' 6/-*60 ' ,119',)*'- 5),'+ *8 ' !1 'LLL '
NX%' **' 8 !
N% ()*' ?*2, 12' ' I- % 8'6==*6-.',1'
D1' ; ,*' 1-* 52',1',)*' 26, ; -*' 1 ',)*' 1,)*-' 2A ; 2>, 12. '
620' 1==1.*0',1',)*' 6D1+*' + *8' 1 ',)*.*' 6=1.,1/ >6/
1-0 262>*.% ,' D/*20.' 6' = ; -*/ ' ?1-6/ =-*>*=, ' 8 ,)'
*26>, ?*2, ',)6,'-* *-' 12/ ',1' ?6, *-.' 1 '1 ; , 86-0' 1D^
.*-+62>*% ()*' >12A*>, ; -6/ *?*206, 12' I* 1)/ '1-'
O % ' 1-' (-1=+ 6 ' 2' D1,)' =6..65*.X' ,)6,' =-1=1.*.'
,1' -* *-',) .' >/6 ; .*' ,1',)*' *6, 25' 1 ' .8 2*.' /*.)' .'
2*56, +*0' D ' ,)*' 6>,' ,)6,' 21' .>)' 6D., 2*2>*' .' 6/^
/ ; 0*0',1' 2',)*' 16>) 62' =-*>*=, .'T 620',)*' 1->*0' *L^
=/626, 12' 1 ',)*' .*-?' I* % / ' 1-' ' (-1=7 >WX' 6.'
6// ; 0 25',1' 6' .6>- >*' = ; ->)6.*0' D ',)*') -*' 1 '6')6-^
/1,' .' ; > *2,/ ' -* ; ,*0' D ' ,)*' 1DA*>, 12' ,)6,' .' ,)
81; /0' -* *-',1' 6' .,6,*' 1 ' ?6,,*-.' .1' 5-1../ ' . 2 ; / 6.'
>1; /0' 21,' D*',)1; 5),' 1 '6?125')- ., 62.% $201; D,^
0/ ',)' 12/ ' =-1=*-' 1 ; -.*' .' ,1' D- 25' 2,1' + *8',)*'
5-*6,*-' -**01?' 1 ' 2,*->1 ; -.*' D*, 8**2',)*' .*L*.',)6,'
=-*+6 /*0' 6?125',)*' 4-**9.' 620' 1?62.' 8)>)' 86.'
62' 6D1? 26, 12',1',)*' ?1-*' .*- 1 ; .' B*8 .' 620' 6==*6-^
0',1',)?' 2' 6>, '6'-* 2*0' .=*> *.' 1 ')6-/1,- '
,)*' 81-0' 2' _ ; *., 12',)*-* 1-*' 8)>)' >1?=-*)*20.'
21,' 12/ ' 5-1..' + 1/6, 12.' 1 ',)*' .*+*2,)' >1?? 620^
?*2, ' D ; ' 6/.1' ?1-*' =1/ .)*0' . 2.' 1 ',) .' 9 20',)*' 6.^
.*?D/*0' D-*,)-*2' *2A1 2' ; =12',)*')*6,)*2')- ., 62.'
5-*6,*-' >6-*' 620%> -1 ; ?.=*>, 12' 2',)*' -' 2,*->1 ; -.*'
8 ,)',)*' *?6/*' .*L' ,)6,',)*' ? 5),' 5 +*' 21' 1 *2>*'
,1',)*' B*8 .)')- ., 62.' M /.)6 ; .*2' ' 2' /11,'
' NNS' ?% *0%X% 21,)*-' -*6.12' 1-',)*' 2.*-, 12'
1 ',) .' -; /*' -*.=*>, 25' >)6., ' =-1D6D/ ' 86.',)*'
.)6?*/*..' + 1/6, 12' 1 '=; -, ',)6,' *+*-' 8)*-*' ,119'
=/6>*' 2' >122*>, 12' 8 ,)',)*' =6562' *., +6/. ' 620' >12C
.A ,; ,*0' 62' 600 , 126/ -*6.12' 1-' 6',1,6/ 0 .>122*>, 12'
8 ,)' 6// 01/6,-1 ; .' - ,*.' M 12 D*6-*' 620' : 18 .12' $!'
' ' K X% **' >)6 ' &% !' " "' ' g SRT' 620'
!

?1-5'.=*> 6/,-*6, .*.'D2',) .' . ; DA*>, '6-*',)*' 1//18^
25'd 655*' - %' O -* 'MB*2% QX7' *2[*/' '
' % 'M ; 20% NQX' 622)6 ; *-' 6(77-8C
' ' # !' M -5*2 7' S QX' * / 25' ' ' =
' ' M 2') .' ," !' ! ' SR' ._ %X' 10*-/* 2'
' ' ' ' % !' M ,[1+' / R' _ %X' 1-.>)*; .'
' ' ' ' 'M 1.,1>9' SQNX' : 6.6*; .' !'
M -*?' NX' <1*) ; .' !' M =.% SQQX' : 6 ?*>9*2'
" ' ' / 'M4 *..% S NX' : * 0*55*-' ' =
!'# !' M(5 ; -% S QX' O% ' ' ' ' '
M ?.,% SSKX' 6255 ; ,)' ' ' !' % !' 'M -%
SQ X' *12)6-0' ' ' ' !' # !' MB*2% K X'
,[.>)' ' ' ' '_ VX1.,1V \I>6M ,*DT R 'T 6/.1 2 */C

( )*/68' 1-D 00 25',) k'1-0 26, 12' 1 '.;>)'=*-.12.'86.' *26>,*0',1'=-*+*2,',) .'.>6206/% ' 7 25)6?' , 0'6 2' D9 +'>) +'g' 3

N * 062'M:>D' ' (' 2'6>>1-0 25',1'4*.*2 ;.' -+ '# !'=NKK' -1?',)*' -6D'.52 25' % :'6>^ >1-0 25',1' -.,'# !'# '=KQQ'D'-*0;=/>6, 12' -1?' 7' 2',)*'.*2.*' 1' %:' 2'c[*9 LL+' N'8 ,)' 2' /1>6/ 1-' =6-6515 >' ' "1' 062JX',)*' 26?*' 1'12*' S-',81' ?*2' 1-',- D6/'=-15*2^ ,1-.%I' **' 6/.1' 1? !

% M *=,% 6NO V' ?>7O+%X' .12'1' 66?6)'.12'1 ;.)'M4*2% L' T')-12% 'R' ,)*' .12.' 1' 66?6)')*D6' 620' *062JX% % >12. 0*-6D/' =1.,' K N% **' $ '!' : .' 0*.>*2062,.' 6->' =*-)6=.' ?*2, 12*0' D' .6 6)'MLL' NX 620' [*9*/ MLL+' ' *=,' 1C' o' -% (K' *=,% & ' ' -% . -=s(LLL+' N 7 =,% 6 NOAV' LL+' N' *=,% 7OAV' 1-' 1 ; ' ,%)) % % 8! **' D*/18

K% M *=,% & '+%-% 2'B*-% L/ L'Q' & % (8' .12'1 '8 19.)62'M')-12' 'NKX'.12'1' *,;-6)'M4*2% LL+' Na' B19.)62'D*56,')*D6'620' *062' 620',)*' .12.'1' *062' 8*-*' ..);-?' *,;.)?'620' *;?C ? ?JX% % =1.,' RQQ% ()*';.;6/1=2 12'-*.=*>,^ 25',).'620',)*'=-*>*0 25' 1;20*-'1',- D*.'.',)6,',)*')-.,'.*,,/*0'6?125',)*' .12.'1' ;.)'=-1D6D/' 12',)*' D1-0*-.'1',)*' *-. 62'4;/ %,)*'.*>120'12',)*' -62' D1-0*-.'6D1;,',)*',*-- ,1- '1' 01?'M< >)6*/.'$% =' ! 'K' ._%X% ;,' 6,*-'I ' ' K' 1//18*0' D'4*.*2;.' -+ !'# !'=%INKKX')6.'.;55*.,*0',)6,',)*' 26?*' ?6 '6==/',1' 12*,- D*'620',) .' ?6 'D*' 601=,^ *0'6.'=-1D6D/*' 12',/ *'.;==1., 12',)6,',)*'0*.>*2062,.' 1',)*' *,;-6),*' *062' 2,*-?6-- *0'8,)',),)1.*'1',)*' ;.),*' *062% *' !' ()*',)*1-'1',).' ? L*0'0*.>*2,'56 2.'8* 5),' -1?',)*' 6>,',)6,' 2'*6>)' >6.*',)*' D-1,)*-'1' *062' .' 26?*0')*D6% ,' ?6 ' D*'.;==1.*0',)6,',)*' *062,*.'8*-*'6?125',)*'>) * ' ,-60*-.',-6+*-. 25',)*' >6-6+62C-1;,*' -0?',)*')*60'1' ,)*' *-. 62'4;/',1',)*' .1;,)'1' 6/*., 2*'D*6- 25' ?*->)620.*'1' 20 6'620'=1.. D/'1' 1;,)*-2' -6^ D 6'620')*21*',)*'?L,;-*'1'.;>)'6',-D*'8,)'621,)^ *-'1'0 *-*2,'M620' *,;-6),*X'0*.>*2,'=-*.*2,.' 21' ?=1.. D/, % ()*'=6..65*.' 2`,)*' D/*' 2' 8)>)' *062' .'?*2, 12*0'MD*. 0*.',)*'5*2*6/15 *.'6D1+*'-*^ *--*0',1X' 6-*' >12,6 2*0' 2',)*'=-1=)*>*.'1' .6 6)' B*-*?6)'620' [*9*/'620'6-*' 2'*+*-'>6.*'1D.>;-*% ()*' 01?,.)'.*,,/*-.',**?',1'D*'-* *--*0',1' 2'B*-% L/L'Q'8)*-*' *062' .'?*2, 12*0' 2',)*' =-1=)*>' 656 2.',' 01?'620' 2'.6%LL' NM'()*'D;-0*2';=12' -6D 6% 2',)*' 1-*.,' 2' -6D 6'.)6/*' /105*' ' *',-6+*// 25' >1?=62*.'1' *062?JX'8,)'(*?6'620' *06-% ()./6.,'=6..65*' .'D'.1?*';20*-.,110',1'-* *-',1' >6-6^ +62.'1',)*' ;.),*' *062' 620'6/,)1;5)',.'?6 '12/' . 52 ',)*'8620*- 25'=-1=*2..,*.'1'6'21?60',-D*' .;>)'6.',)*' 01? ,.)'=1-, 12'1' *062'?6 ')6+*'D**2' ,)*' .;==1., 12',)6,' ,'?*62.'?*->)62,C>6-6+62.' .' .,-*25,)*2*0'D ',)*' -*?6-96D/*' 81-0.'1' [*9*/ 2' ,)*'/6?*2,6, 12' 1-'(-*% () .'>)6=,*-'MLL+ X',8 >*' ?*2, 12.' *062' -.,' 2' +*-% '8)*-*'6 ,.*-' *2;C ?*-6, 257?125',)*',-6 >9*-.'8,)',)*'?*->)62,C>' ,' ?62' . 6, >'=*1=/*.',' .'.60' '()*' >) /0-*2'1' *^ 062'8*-*',D'?*->)62,.'?62' ./*.'M 77 X'8*-*',)*' ?*->)620.*'1',) 2*')620$,)*'D-1;5),',)**' 1-'6' =-*.*2,')-2.'1' +1- '620'*D12E%J' 6.. 25',)*2>*' ,1' -6'620'8*.,*-2'620'21-,)*-2'=ZB1=/*.',)*'=-1=)^ *,'656 YM 2'+*-% K X'?*2, 12.' *062' 2'6'?622*-' 8)>)'.**?.',1'=1 2,',1',)*'8 0*'.=-*60'620'=1.. D/' ,)*'?*2'62>*.,-'1',) .',-D*'8 *-% '?6 'D*'=-*^ .;?*0',1'6//;0*'*.=*>6/ ',1',)*' " ' *062'M>1?=' >)% LLL+' N'8)*-*'8*' 20' *062'8,)')*D6'620' ,)*'?*->)62,.'1'(6-.).)'6==6-*2,/ '-1?',)*'>12^ ,*L,',)*' *0 2'1'>)6=' LL+' XT' D;',)*'=6..65*' >1?7?*2> 25' 2'+%K '6==*6-.',1' 2>/;0*',)*'.*,,/*-.'12' ,)*'D1-0*-.'1' 01?'M% *%,)*' *,;-6),*' *062X% ()*

8)1/*'1',)*'=6..65*' .'6.' 1//18.T' ' *062'\86.h',) ?*->)62,' 2' = *> 1;.' >/1,)*.' 1-' 1>>;=*0'8,)',)6- 1,.% -6D 6' 620'6//,)*' =- 2>*.'1' *06-',)*' 1>>;=*0'8,)',)**' 2'/6?D.'620'-6?.'620'516,.d 2',)*.'*'\8*-*',)* h' ,) '?*->)62,.% ()*'?*->)62,.' '$" ' 'D '" ,)*'\8*-*h',) '?*->)62,.T',)*'1>>;=*0'2',) '6 -.' 8,)')*) *'1'6//.=>*.'620'8,)'6// =-*> 1;.'.,12*.' 620'51/0% : 6-62'620' 622*)'620' 0*2',)*'?*-^ >)62,.'1'$+ 1' ..);-'\620h')/?60'\8*-*h',) ?*->)62,..J'M [*9 LL+' K CKNX% %& *')6+*'*-*' 6' *062' >122*>,*0' 8,)' -6D 6'M=-1D6D/',)*' 21-,)^ 8*..*-2'=6-,'1',)*'=*2 2.;/6X' 620' *06-'620'6/.1' 8,)',)*' 6,)*-'620'D-1,)*-'1',)*' ;.),*' *062' M 66?6)'620')*D6X'620',)*.*'/6,,*-'8,)' .6,>' =*1=/*.'>1?7?12/'=/6>*0'2',)*'-*5 12.'D1-0*- 25',)*')*60'1',)*' *-. 62'5;/% () .' *062'?1-*1+*-' .'6' ?*->)62,'21,' 2'=6.,1-6/=-10;>*' 2'.)**=' 620'516,.' D;,' 2' !=-*> 1;.'>/1,)*. J' 2'>12,-60 .,2>, 12',1' -6^ D 6'620' *06-'/9*',)*' 6-C1' 6.,*-2' 26, 12.' 8)1' >6?*' 8,)' .= >*.' 620'=-*> 1;.' .,12*.' 620' 51/0 J' D/;*' >/1,)*.' 620' D-1 0*-*0' 81-9 J'620' >)*.,671' -:>)'6==6-*/%J' I

()*'=-1D6D/*' 2 *-*2>*.' -1?',)*.*'?*2, 12.'1' *^ 062' .;==1-,',)*' 6-5;?*2,' -.,' .,6,*0'26?*/' % ()6,' *062'.12'1' 66?6)'.*,,/*0'12',)*' .)1-*.'1' ,)*' *-. 62'5;/ '620') .'0*.>*2062,.'D*>6?*'>6-6+62C ?*->)62,.'D*,8**2',)6,'>16.,'620' 6/*.,2*% K% ()6,' B19.)62'1-'6' .12'1'B19.)62'D' 2,*-?6--65*' 8,)' ,)*' ;.),*' *062' 1-?*0'6',-D*'1',)*' .6?*' 26?*' 8)>)'6==*6-.',1')6+*')60' ,.' >)*'.*,,/*?*2,' 2',)*')1/0*-.'1'0;?,*6'620'=*-)6=.',1')6+*'/*0'6'=6.,1-6/ / %

//,-6>*.'1',)*' 26?*'1' *062'8)*,)*-' 2' 0;C ?.*6'1-'12',)*' *-. 62'5;/'6-*'/1.,' 2',)*' 81-9.'1' -6D1'5*15-6=)*-.'620') .,1-62.% ()*'4-**9'620' 1^ ?62'5*15-6=)*-.')18*+*-',)-18'.1?*'/5),'12',)*' *6.,*-2'.*,,/*?*2,T' 620'6'26, +*' 20>6, 12'1',)*' 26?*'.'=-*.;?*0',1'*L.,' 2',)*' ./620'1' ' '12' ,)*' D1-0*-.'1',)*'5;/'M.**' 1>)6-,' " 1' +'ST' ..*?62[GkV 7% , f //'' S NT' Q 4' S' S T $.>)25'& 1'=% SKT' & 6)/' ' f%'.>*' =% SNRT' *D;)-'& " 1'=% N Q* _%T : **-*2'D f' 'KK RT' 6-D1.6'5 ' 1' 'KQQX% ()*' 0*2, >6, 12' ?;.,')*',69*2' 2'>122*>, 12' 8,)',)*' -*>1+*-E'1',)*' 26?*'1')*D6',)*' 1,)*-'.12'1' 66C ?6D'12',)*'./620'1' 8 /'2*6-',)*' -6D 62'.)1-*'1' ,)*'.6?*5;/% ' ?,)'.% +% ** '!

62 ?'M:*D% ' (' 6'=6,- 6/ -1? ' :' *=,% & E',)*'0*.>*2062,.'1',)*' -6D 62' 'M %+%X'.=19*2'1'M .6% LL' NX 6.'*2565*0' 2' >1?7?*->*' 7?*'>)18*+*-' 1//18 25',)*'+6- 1;.'-*2^ 0*- 25'1',)*'+*-. 12.'W />D6*/.P'$% f' ' ._%X')6+*',)1;5),',)*'5" ',1'D*' ?*62,'620' ,)*-.')6+*'*+*2'>12A*>,;-*0'62'6//;. 12',1',)*' 1'6' 6^ ?1;.'1-6>/*'1' = -;.'M ,-6D1'+' C '*0% /?*/12%X%

0 >6,' M=-1=% I7 2' " +(1',1' ' *;,% FF' _:' R' 25.'+ 'SNT' K')-12% + ' T' */.*8)*-* " + "(',1' " '620'1,D*-:*D% ,*-?.X'6' -*/5 1;.'>*-*?12'8)*-*D'62',) 25' .'0*0>6,*0'1-' >12.*>-6,*0',1',)*'.*-+ >*'1'4 10T'620',' =*6-.',1')6+*' 1-5 26,*0'2',)*'0*.-*' ' '8,)'=*>;/6-'.1^ /*?2, ',)*'=-6>, >6/ ;.*'620'6==/>6, 12'1'8)6,*+*-')60'D**2'.*,'6=6-.',1',)*'0+2*.*-+ >*% ();.'<1.*.' 0*0>6,*0',)*',*D*?6>/*' 2',)*'8 /0*-2*..'M L10% L/T ;?% + XT' 1/1?12') .'(*?=/*'M 25.'+ XT',)*'-*^ ,;-2*0'*L/*.',)*'-.'M [-6'+' S XT' :*-10') .'MB1.*-' =);'& 'd ' SX% ()*'<6>>6D**.'')6+ 25'>/*62.*0' ,)*'(*?=/*' -1?',.'=1//;, 12.';20*-' 2, 1>) .' ==)6C 2*.'656 2'0*0>6,*0',)*'6/,6-'M'<6>>6'+' KC RX'620' 622'622;6/ *., +6/ 86.'*.,6D/.)*0' 2'>1?7?*?1-6, 12' 1',)*'*+*2,% ().' *6.,' 86.'>*/*D-6,*0'21,'12/'6, B*-;.6/*?'D;','*+*- 8)*-*',)-1;5)1;',)*'>1;2,- ' 2'8)>)'-*.=*>,',0 *-*0'-1?',)*'*6.,.'1',)*'6..C 1+*-' *2,*>1.,'620'(6D*-26>/*.'8)>)'>1;/0'12/')* 1D.*-+*0'6,'B*-;.6/*?% **'D*/18%

1,'%12/ '8*-*.6>-*0'=/6> *.',) ; .'0*0 >6,*0 'D ; ,' .1?*' 9 20'1 '0*0 >6,1- '.1/*?2 , '86.'1D.*-+*0'8 ,)'-*.=*>,' ,1' > , *. ' 86//. '56,*. '620' *+*2' =- +6,*')1; .*.'M *; ,% dd' T .6%ddd', ,/*T *)%L 'K X% & *' ?6 ', -6>*' ,)*' >12, 2 ;62>*' 1 ',) *. *' ; .65*.' 2',)*' >; .,1?' 1 '>12^ .*>-6, 25' 1-'30*0 >6, 25' >) ;->)*.' 620' >)6=*/. '620' 2' ,)*' >*-*?12 *.' >122*>,*0'8 ,)',)*' '1=*2 25J 1 '-160. ' ?6-9*,. 'D- 05*. ' *,>%'620'8 ,)',)*' /6 ;2>) 25'1 '.) =.% ' ,,1 '.%F% **' !

(' . ' ' ' M-0') ' " ' 'B1)2' L 'KK\8) >)',)*' *=, ')6.' 2' ; ?' + ' #hT ;/5% 8',)*' *., +6/' 2., , ; ,*0', 1' >1?^ ?*?1-6,*' ,)*' =; -5 25' 1 ',)*' (*?=/*' 620',)*' -*D ; /0^ 25' 1 ',)*' 6/,6-'6 ,*-'B ; 06.' <6>>6D6*2.')60' 0- +*2' 1 ; ' ,)*' A - 62.' % % S 'M' <6>>% +' KC R' 8)*-*' ,' .' S) ' ' 1 **% ' " ' ' ,, ' 2' 'D*>6 ; .*' ,)*' 1/0' 620' =-1 62*0' 6/,6-' 86.' ,)*2' -*^ =/6>*0'T D ; ,' 2' K' <6>>% L ' ' 1') 1 % ' ' ' " % ' " ' - % S' ,)*' ?10*-2' B*8 .' >6// ' % ' " + "(' (1' 6.' 1>>; -.' 2 ; ?%+ ' 'Q 'QQ'T K')-12% + 'RT *)%L 'K 'T 0 .6% d d d ' , ,/*T [-6' + ' S' T 62% 'K' Nh '6.' 2' ,)*' " .' D ; ,'B1.*=) ; .'& !' L ' ' ., /*.' ,'78-6' (*"2(8f ()*' 1//18 25' 6>>1 ; 2,' 1 ' ,' .'%>) * / ' -1?' ,,1 ' .% +% ** ' s ' > / / ' ! ' ' " +' " '@ ' ' ' ' !' ' ,'>1? ?*2>*0' 12' ,)*' K ,)' 1 ') ./*2' M.** L ' (' 3 ' 620' /6. ,*0' * 5),' 06 .' D ; ,' ,' 0 0 21,'-*^ _ ; -*' 6,,*2062>*' 6,'B*-; .6/*? ' M7*. ; . ')18*+*-' 86.' =-*.*2,',)*-*' 0 ;- 25',) .' .*6.12' % '1-' h + 2,*-' B1)2' d ' K %' ,' 86.' 62' 1>>6. 12' 1 ' ? ; >)' *9 + , % ()*' B*8 .' 6..*?D/*0' 2',)*' (*?=/*' 1-' 2' ,)*' . 26C 51CH ; *.' 1 ' ,)*' =/6>*.' 8)*-*' 2' ,)*' '-*. 0*0' >5 "' " = $" ' L+ / ' KX' >6-- 25' D-62>)*.' 1 ',-**.' 6207A76/?.' 2' ,)*-')620.' 620' .625' =.6/?.' ,1' ,)*' 410' 1 ' ,)*-' .6/+6, 12% 1' 6.,' 1-' ?1 ; -2 25' 12' 6>>1 ; 2,' 01' 62 ' >6/6? , '1-' D*-*6+*?*2,' 86.' =*-? ,,*0',1' >1?*?2>*' 0 ; - 25',)*' *., +6/ M< .)26' - "' ' T ') ' RXT ,)*' (*?=/*' 620' 6/ =-+6,*')1 ; .*.' 8*-*' / 5),*0' ;=' 8 ,) 2' 620' 8 ,)1 ; ,' D '/62,*-2.' 620',1->)*.' *+*- '*+*2 25' 0 ; - 25',)*' * 5),'06 .' 2',19*2' 1 ',) .' A1 'M ' <6>>% +' KC RT K' <6>>% L ' '*,>%T <.)27,' ; ') '+'SX' 1-'8) >)'-*6.12.'B1.*=) ; .'6/.1'>6//.' E 8 ') ' " '@ ' ' % 'M>1?=%& !' L ' '8 ,)'&% !' 'NRX% <6?12 0*.' 2' 0 .>1 ; -.^ 25' ;=12',)7' .; DA*>,' 0 ., 2>,/ ' 0*>/6-*.' ,)6,' ,)*' / 5),25C ; =' 1 ',)*' /6?=.' .' 6' >1?? 620?*2,' -1?',)*' .>- D*.%J' ()*' 1-0*-' . J' .6 .')*' ,)6,'*+* 7')1 ; .*' .)1 ; /0' / 5),'12*' / 5),' 8)*,)*-',)*' 2?6,*.',)*-*1 'D*' ?62 '1-' 12/ ' 12*% : *')18*+*-' 8)1')121-.',)*' 2^ A ; 2>, 12')6.' 6.' ?62 ' / 5),.' 6.',)*-*' 6-*' 2?6,*.' 2' ,)*')1 ; .* ' 7)*)6.' 6' / 5),' 1-' *+*-E ' ?62' 620' 81?62% 20')*' 8)1' -*.=*>,.' ,'., // ?1-*' 600.' 6' / 5),' 1-' *+^ *- ' 20 + 0 ; 6/ *+*- ' 2 5),' .1',)6,' '6')1 ; .*' 8)*-*' 2 6-*' ,*2' 2?6,*.' D*562' 8 ,)',*2' / 5),. ' ,' 81 ; /0' *20' 8 ,)' * 5), J' M< .)26' - "' # " "' +' *C " + "' 7*>% +' =% NK4' X% ()*.*' /6?=.' ? ; .,' D*' / 5),*0' ? ?> 76,*/ ' 6 ,*-' .; 2.*' D ',)*' D*60' 1 ',)*' 6?/ ' 8)1' =-121 ; 2>*.' ,)*' ,)-**' 1//18 25' D*2*0 >^ , 12.'d % ' /*..*0'6-',)1 ; ' 1-0' 1 ; -' 410' 25' 1 ',)*' 81-/0' 8)1' D0D,.62>, /*0' ; .' 8 ,)',) '>1? ?620?*2,.' 620' *2A1 2*0' ;=12' ; .',1' / 5),',)*' /6?=.' 1 ',)*' *6.,' 1 ',)*' 8)1')6.,'=-*.*-+*0' ; .' 2' / *' 620',)*/,) '620')6.,'=*-C ? .,*0' ; .',1' .*' ,) .' 06 GJ' ()*',) -0' D*2*0 >, 127)18*+*-' .' =2/ ' =-121 ; 2>*0' 12' ,)*' -.,' 06 ' 1 ',) .' *., +6/' ()*' =-6>, >*' 1 ' //; ? 26, 12 2' >122*>, 12' 8 ,)',) .' *., +6/ .C' 6.' 8*')6+*' .**2 ' 1 '+* '1/0' 06,*' 620' 86.' ?1.,' =-1D6D/ ' .; 55*.,*0' D ' ,)*' 6>,' ,)6,' ,)*' /6?=.' 8)>)' 8*-*' ;=12' ,)*' >620/*., >9J' 8*-*' / 5),*0' D ',)*' =*1=/*' 6,',)*' -*.,1-6, 12' 1 ',)*' (*?=/*' .*-+ >*' M ' <6>>% +' ' X' 6.' 8*// 6.' D ',)*' 26,; -6/' **/ 25' *L ., 25' 6?125' ?1.,' 26, 12.',1')6+*' //; ? 26^ , 12.' 12' 1>>6. 12.' 1 ' 5-*6,' A1 % ()*' 5 =, 62.' 6/.1')60' 6' . ? /6-'7 *., +6/ M : *-10 ' 'SKX% < 0-6.) ?' 1 ' +*- ' 5 _6,' 62, _ ; , ')18*+*-' 5 +*' 621,)*-' -*6.12' 1-' ,) .' >; .,1?' 1 ' / 5), 25' /6?=.% ()*' ',*//' ;.' ,)6,' 8)*2' ,)*' <6>>6D**.' 8*2,' 2,1',)*' (*?=/*' 6 ,*-' +62_ ; .) 25',)*' *2*? ' 620' 862,*0',1' / 5),',)*' >62^ 0/*.,>9',)*' >1 ; /0' 21,' 20' 62 ' 1 / ' *L>*=; 12*' + 6/ ' 620' ,' 86.' .*6/*0' 7 ,)',)*' - 25' 1 ',)*') 5)C=- *.,' 8)>)' 6..; -*0',)*?' ,)6,' ,' 86.' 21,' =1//; ,*0 'D ; ,' ' 86.'A ; .,' *21 ; 5)',1' / 5),'12*' 06 % &)*-*; =12' 410' 8)1.*' 5/1- ' 08*//*.,)' 2',)*')*6+*2.' D/*..*0' ,' .1' ,)6,',)*' ' 8*-*' 6D/*',1' **0',)1' /6?=.',)*-*8 ,)' 1-* 5),' 06 .% &)*-* 1-*',)*' <6>>6D**.' 620' 6//',)* =*1=/*' / 9*' 12*' ?62')6+*' 1-06 2*0',)6,',)*.*' * 5),' 06 .' .)1 ; /0')*2>* 1-,)' D1' 06 .' 1 'A1 ' 620' -*A1 > 25' / 9*',)*' *., +6/.' 1-06 2*0' 2',)*' /68 ' 620',)6,' /6?=.' .)1 ; /0' D*' / 5),*0' 12',)1.*' 06 .',1' ?69*' 92182',)* 8120-1 ; .' 81-9.' 8)>)',)1' 410' 1 ',)*')*6+*2.')6,) 8-1 ; 5),' 1-',)*?' I "' & " '=% ' *0% B*// 2*9T (6/?;0 ' $ "' K ' X% 18' 8)6,*+*-' 8*' ?6 ',) 29' 6D1 ; ',)*' *?D*// .)?*2,.' 1 ',) .',.1- ' ,' .1'21,'6,' 6//' ; 2/ 9*/ ',)6,' 6' + 6/' 1 ' 1 / 86.' 6>, ; 6// ' 0 .>1+*-*0' 2',)*' (*?=/*' A ; .,' 6,' 6' , ?*' 8)*2' ,' 86.' ?1.,' 862,*0' 620',)6,',) .' .' 12*' 1 ',)1' -*6.12.' 8)'),)*' / 5), 25' 1 '/6?=.')6.' D**2' 2.,.; .*0% ' *+*-E ' ?1-2 25' =-6 *-' 0 ; - 25',)*' 8)1/*' 1 ',) .' *., +6/' 6' =1-, 12' 1 ',)*' ,)' >)6=.*-' 1 ' ; ?D*-.' .' -*60' 2',)*' . 26515 ; *' D ',)*' =-*/*>,1-' 2' 6>>1-062>*' 8,)' 6' +*- ' 1/0' >; .,1?'M< .)26' ' 'SXT ,) ; .' 12',)*' -.,' 06 ' ; ?%+ ' C ' .'-*60' 6 ,*-',)*' -*5 ; ^ /6-' /*..12' 1 ',)*' *2,6,*.>) ' ,' .' 6' 6DD6,) ' 620',)*' : 6=),1-6D' 1-',)*' =1-, 12' -1?',)*' -1=)*,.' .' U*>)' T 12',)*' .*>120' ; ?' + ' QCKN' .' -*60' D*^ 5 22 25' 8 ,)'`` 2',)*' .*>120' 06 J'*,>%' 620',)*' .6?*' : 6=),1-6)T 12',)*' ,) -0' 06 ' ; ?%+ ' K CKR' 620',)*' .6?*' : 6=),1-6) ' 620' .1' 12% 2',)*' (*?=/*' 6,' B*-; .6/*?',)*' : 6//*/J' 86.' .; 25' *+*- ' 06 ' 1 ',)*' *6.,% 122*>,*0' 8 ,)',) .' *., +6/' .',)*' >*/*D-6, 12' 1 ',)1' *L=/1 ,.'=*- 1-?*0' D 'B ; 0 ,)' M %+%X ; =12' : 1/1C *?*.' D*>6 ; .*' 6.' .1?*' .; ==1.*' .)*' 86.' 1 ',)*' .,1>9' 1 ',)*' <6>>6D**.% : *2>*' .1?*' 1 ',)*' < 0-6.) ?' 8 >)' 5 +*',)*') .,1-' 1 'B ; 06.' <6>>6D.*; .' ? L' ; =' 8 ,)',' ,)*') .,1-' 1 'B ; 06.' <6>>6D.*; .' ? L' ; =' <10*-2' B*8.' 9**=',)*' *6.,' 1 '/ 5),.' +*- ' .,- >,/ ' D ; ,' .*-+ /*' 81-9' .' 21,' 1-D 00*2' ' D1' 012*% (/ *' *6.,' .' 1D.*-+*0' 6.' 12*' 1 '-*A1 > 25' 1-',)*' 8120*-.' 8)>)' 410' 8-1 ; 5),' 1-',)*?% ; - 25',)*' * 5),'06 .' =6-*2,.' 620' >) /0-*2' 6?; .*',)*?.*/+*.' 2' 0 *-*2,' 2^ 21>*2,'56?*.' =6-, >; /6-/ ',)*/6.,'2 5),' 8)*2' 2* 5)^ D1-.' 620' - *20.' ?**,' ,15*.,)*-' ,1' *2A1 ',)*?.*/+*.% ()*' 6-6 ,*.')18*+*-' 01' 21,' 1D.*-+*',) .' *., +6/' D*^ >6; .*' ,' .' 62' ; 2 2.= -*0' 1-0 262>*% ()*-*' 6-*' 1 ; -' 1,)*-' 0*0 >6, 12.' 1 ',)*' (*?=/*' -*^ >1-0*0'T % ()*' 0*0 >6, 12' 1 ',)*' 1/1?12 ↘ (*?=/*' M ' 25.' + 'K'T3K')-12% + 'NX' 8)>)',119' =/6>*' 2',)*' .*+*2,)' ?12,)' 1-' 2',)*' 6 ; ,; ?2% % ' N' B).' 86.' >1 2^ >0*2,' 8,)',)*' @ ' '- 'M_%+%X% K% ()*' 0*0 >6, 12' 6,',)*' ,' ?*' 1 ' .*[*9 6)' 8)*2',)*' (*?=/*' 86.' =; - *0' -1?',)*' 6D1? 26, 12.' 8)>)' .' 6,)*-')6[' 2,-10 ; >*0' 2,1' ,'MK')-12%LL LX% % ' KS% **' % ' N% ()*' 0*0 >6, 12' 1 'U*-; DD6D*/ .' (*?=/*' D ; /,' 6 ^ ,*-',)*' >6=, + , 'M [-6'+' SX' 8)>)',119' =/6>*' 2',)*' ?12,)' 06-' 2',)*' .=- 25% % ' ()*' 0*0 >6, 12' 1 ' : *-10 .' (*?=/*' MB1.*=) ; .' & 0' d ' SX% % %KK' 1?*' 1',)*' 6,)*-.')6+*',)*-*^ 1-*',)1 ; 5),',)6,' B*. ; .' .' .6 0',1')6+*' 512*',1',)*' >*/^ *D-6, 12' >1?? *?1-6, +*' 1',)*' 0*0 >6, 12' 1 ' 9P/1?12.' (*?=/*' 1-' 1 ' U*-; DD6D*/ .% ()*' 6>,')18*+*-',)6,',)*-*' 86.' ' '

% B ' 6' & : ' "!6 % " #

(*20*-*0' 2'K 25.'L L 'K ' - +*-.'1 ' % MM =*>,*0' .;>>*.. 12',1',)*' >*' 1 '62)D .)1='1-' ?*,-1 '
=,%' -- , - 'M-O+SL H ;/5%' 4 ' .' 2' .6%' L LA=1/ ,62%' 2'/6,-', ?*. ' ' ?=/ *0'=- +6, 12'
S' D-119.' 1 ' P' *=,%' $ % ' -18' % ' 1 '6//' 6;,)1- , '620'.,6, 12%' % 2' 2.,62>*' 1 '*>>/*. 6.^
;/5%' ' ' .' 2' .6%' LLL+ 'K ' - +*-.' 1 ',)*' , >6/ 0*5-606, 12' 2',)*' * 5),)'>*2,;- '6,' 12.,62, 21^
% P' *=,' ' 6-1 ,05% ' =' =/*' .'-*>1-0*0% ()*'=6,- 6->)' 12.,62, 2*' 86.' ?60*'
8'6' % % '26?*' 1-'> # / '6//;0 25',1' ,.' 9 ,1'6.>*20',)*' .' =*-.*>;,1-.' 0-*..*0') ?' 2' *= .>1=6/ .)' :=6//;?'620'626,)*?6, [*0')*' 86.',)*2' ?60*',1'
' %*',)*'D-62>)*.'1',)*' /*% ()*'0*- +6, 12'1' -1D*.' ?60*' 1 '>62+6. '=;',)*' ?,-*' 12') .')*60'620' 86/9' 1;','1 ',)*' >)A7>)'D6>986-0.% &)*2' -62?*-'
,)*','*-.?' .' 1D.>;-*' =*-)6=.' ,' .' 12/ '621,)*-' 6==/ ^ 6->)D .)1='1 ' 62,*-D;- '86.' 0*5-60*0'D ' 1-0*-' 1 '
>6, 12' 1 ',)*' : *D% 81-0' 1 ',)*' .6?*' 1-?' */.*8)*-*' _;**2' <6- ') .' =*-.*>;,1-.' 0-*..*0') ?' 2' *= .>1=6/ 9
. 52 7025'W ,*-6// ' ')*2>*X'6' ' ' 9 -1D*.' ?60*' 1 '>62+6. '=;',)*' ?,-*' 12') .')*60'620' 6
'620'6==/ *0',1' 5 '=,'*.=*> 6// ' 18*-' 5 =,' ,)*=6.,1-6/.,6 '2') .'D620'T 620' 2',) .'6,, -*'.)18^ 6.' D* 25' .,-125/ ' 1-, / *0' D1,)' D ' 26,;-*' 620' 6-,% *0') ?',1',)*' =*1=/*% ()* ',)*2' .,- ==*0') ?' = *>*'
K% ; ('M KN'=-1D6D/ '.1?*,) 25' '1;,' 1 D6' = *>*% 2',)*' 1?62' 1-?.' 1 '0*5-606, 12' .*'
? 2*' 1>>2-- 25' 12/ ' 2' B1D' 620'-*20*-*0' 2' >)6=' // 1,,' ' '5 'D9% '>)%L+'M 120%'
LL 'K ' 51/0 J' *=,% (c-=6 ;/5% :' 2'+>-%'K ' *0 , 12X'T .**' 6/.1' 25)6?', ! ; !' D9%'L+ '>)%' '
0* *2>* J' *=,%'W1 A 1H' 0--1' / C=8 ' ;/5% ' T' KK' " "" '6 :' ;5;..G' " ! '
" :' 2' >)6='LLL+ ' R' 51/0 J' *=,%'$ ' ' & ' ' '620',)*'6-, >/*'8 / !
' ;/5% (8'=-*>1;.' ' %*'1 '51/0'1-' *5-**' .' ,)*' 5-6026,*0' .>6/*' 1',)*' 0 6/'_%'+%h'
. /+*-' 2' ,.' 26, +*' .,6,*'T 62' 2,*-=-*,6, 12'*+ 0*2,/ ' 1')6['620' 2',)*', ,/*.'1',)*' .6/?.'*2, ,/*0' 125'
-* _; -*0' D ',)*' >1--*.=120 25',*--6.' 2',)*' =6-6//*/ 1 '-*20*-*0X'T 1 $% 'M12/' '(?%' N' 9
?*?D*-.'1',)*')*? ., >).'8)*-*',1>>;-.% **'& ! '1-'=-1?1, 12'*,>%'1 '6'0*6>12'_%'+%h',1'6') 5)*-'
* *2>*'1 ')- ., 62 , %' **' / #! 1 T-'=1?1, 12'*,>%'1 '6'0*6>12'_%'+%h',1'6') 5)*-'
* *20*-'1 ',)*' 6 ,)'M@7-*' 8'6', ,/*' 1 '-'=-1?1, 12'*,>%'1 '6'0*6>12'_%'+%h',1'6') 5)*-'
D*/125 25',1',)*' .1+*-* 52' 1' 25/620'6.' " ' 1 T-'=-1?1, 12'*,>%'1 '6'0*6>12'_%'+%h',1'6') 5)*-'
'01*.',1',)*'9 25'1' =6 2'620' " ' ,1' 1 T-'=-1?1, 12'*,>%'1 '6'0*6>12'_%'+%h',1'6') 5)*-'
,)*9 25'1' -62>*% ,' 86.' 1- 5 26// ' >12 *--*0' D ' 1 T-'=-1?1, 12'*,>%'1 '6'0*6>12'_%'+%h',1'6') 5)*-'
*1' d' 12' : *2-A ' 1-').' 81-9' 656 2.,' <6-, 2' 1 T-'=-1?1, 12'*,>%'1 '6'0*6>12'_%'+%h',1'6') 5)*-'
;,)*-'T 620',)*D;// 1-' ,'D*6-.'06,*'4 ' ' ' f 1 T-'=-1?1, 12'*,>%'1 '6'0*6>12'_%'+%h',1'6') 5)*-'
K% ,' 86.'6 ,*-86-0.'>12 -?*0'D ' /*?*2,' %' 0 , 12' .**' / 1-0' 2'/1>%X'6' %'M6.' 1 '6' .,6 ->6.*' 1-'
2' : *2- .'.;==-*.. 12'1',)*' ?126.,*-*.',)*' =1=*' 011-' >>/;.T + 'NSX%' **' !
1' 1?*' 0*=- +*0')?' 1',).', ,/*' 620'0*=1.*0')?' 4 ' ' ' ' ' ' ' ' ' ' ' '
-1?') .',)-12*% ()*' 25/.)' 6-/6?*2,'MN' : *2- ' % :' 1=,%M=B X' '0=>76QV 8+ ;/5%' ' =' 1 T-'=-1?1, 12'*,>%'1 '6'0*6>12'_%'+%h'
>)%NX>12 -?*0',)*', ,/*'620',')6.'*+*I'. 2>*' 8'6', ,/*' 5 +*2',1' **2' .6/?.' -1?' *LL',1'>LLL +' 2>/;. +*% 1; I'1',)*?'6-*' 6,,- D;,*0',1' 6^
D**2';.*0'D ' 25/.)'?126->).% + 0' 17*' .' 6.>- D*0',1',)*' =*2' 1 ' 1/1?12'620',)*' 1,)*-',*2' 5 +*' 21' 20 >6, 12' 1',)* -' 6;)0-% >)C'
* *2.1-'?6,- ?12 '62'1 >*-'1',)*' 1?62' 1?'-'=-1?1, 12'*,>%'1 '6'0*6>12'_%'+%h',1'6') 5)*-'
);->)' 2'*+*- '0 1>*.*'8)1.*'0;,' ',' .' 2' >6.*.' 8)*-*'6'?6-- 65*' .'>/6?*0',1'D*' ?//*',1'.*6->)' D*') 1?'.;==1.*.',)* 2'6// ',1'D*',)*' 81-9'1 '12*' 620',)*'
8)*-*'6'?6-- 65*' .'>/6?*0',1'D*' ?//*',1'.*6->)' D*') 1?'.;==1.*.',)* 2'6// ',1'D*',)*' 81-9'1 '12*' 620',)*'
620'=-10;>*',)*'=-11.'1',.'+6/0, '620',1'1//18',)*' .6?*'D6-0'I6 !' '&!'12',)*'+*8'601=,*0'D '
>6.*' 2,1'62'>1;-',1'8)>)',?6'D*'>6-- *0'D '6=^ ?62',)6,',)*' 20 >6, 12.'1'6;,)1-.)=' 2',)*.*',,/*.'
=*6/'8 ,)' ,)*' - 5),' 1' 1- 5 26, 25' .2>)' 62' 6==*6/ 6,*' 21,',-';.,81-,) '. 2>*',)*'6==*6-',1')6+*' D**2'
) ?.*/' 2' >6.*.' 8)*-*',)-1;5)'.1?*' 0* *>,' 26,)*' 600*0'D '6'/6,*-')620'620' 2'62 '>6.=' '',)*'+*-.'.6?*
=-1>**0 25.'1-' 2',)*',*., ?12 '6'+*-0>,'1'2;// >6^ =)-6.*1/15 ' 81;/0'D*' *?=/1 *0',1' 0*21,*' 6') ?2'
, 12')6.'D**2'5-62,*0';=12'2.; >*2,'5-1;20.% ()*' >1?=1.*0' '" '1' 6+ 0'1-'1' 1/1?12J'M<6-9..'
1 >*' 86.' 2.,,;,*0'D ' *2*0>,'d 'D ').'D;//.'1' $ ' 'K QCRX% ()*' ?1.,' 5*2*-6// ' 6>>-*0 ,*0'
;5%KS' '620' 1+% Q ' I; 2 !' !',1?% 1=2 12')18*+*-' .',)6,'.1?*' 1',)*.*',) ?2.'8*-*'
L+ '=% A QX% =-*.*-+*0' -1?' 6' =*- 10' 62,*- 1-',1',)*' 6D /12.)'
>6=,+ ,T',)6,'1,)*-.'8*-*'>1?=1.*0'2',)*'.6?*'.= -^
* /*' MO*21,*0'D ' *+*-6/' :*D% 620' 4-% 81-0.' ,'D ',)1.*%8)1'-*,;-2*0',1' 6/*., 2*'12',)*'>12_;*.,'
.=> 6// ')M$D' ('% '0*21, 25' " 'D;,' 1 ' 6D /12'D ' -;.'620',)6,'6' *8'-* *-' +*+2',1'6'
.=19*2' >) * / ' 2' 6' 5;-6, +*' 1-' >*-*?12 6/ .*2.*X% /6,*-'06,*'D;,' 8*-*' 6// 2>1-=1-6,*0' 2,1' 12*' >1//*>^
<62'8*-*',)*'D/*? .)*','1'=*-.12'620'>120;>,'8)>)' , 12'D*>6;.*',)*' ')60' 12*' 620',)*' .6?*' >)6-6>,*-%
;20*-',)*' <1.6> /68' 8*-*' *.,**?*0' 0* /*?*2,.'T ()..'+ *8' .' 601=,*0'D ' 1.*2? //*-' :*-0*-' <*2CC'
.1?*' 8*-*' +1/;2,6-A '1,)*-.' 2+1/;2,6-'T .1?*' 1-'5^ 0*/..1)2'B1*/ -$ '620'1,)*-.% & ,)'-*.=*>,',1',)*'
26,*0' 8 ,)',)*' =6-, '1,)*-.' 8*-*' -*>* +*0'D ') ?'T .1?*' 8*-*' 2*+ ,6D/*' 620',)*' * *>,'1'26,;-*'1,)*-.' -*-?' 1-'I'0*5-*6,'0 +*-. , '1'1=2^
>122*>,25',)*' .6/?'8 ,)',)*' ?622*-'1' ,' *L*>;^ 12'=-*+6/.'6?125' D/>6/>-, >.% >>1-0 25',1'
,12'T 620'< >)6*/.'M2' 18,)'' '$ ' 1'=%S X' .1?*' ,'-* *-.',1',)*' ?*/10 ,1'8)>)',)*' .6/?'86.'
>1?=6-*.' 8 ,)' ,)*' - 6>' M >6/6X' ,1'D*' >)62,*0% */*-?622' > +' ' # '=% 8)>)' 81;/0' / 9*8 .*' >)6-6>,*-[*',)*' ?*,-*' 1-',)*'
R '._%X>6//.',)*.*' .6/?.' ',-1>)6>'.125.%J' ;,)*',-62./6,*.',)*'81-0.' 2' *0' ?')1)*?')1-J',);.'
>122*>,25',)*' .6/?'8 ,)',)*' ?622*-'1' ,' *L*>;^ ?*/10 'M ..*?% 'SKXT D;',4*.*2 ;'I6%" !'
, 12'T 620'< >)6*/.'M2' 18,)'' '$ ' 1'=%S X' : 6/% Q K' 1%K X'0*2 *.0,1',)*' : *D-*8.'62 ' ?*,-^
>1?=6-*.' 8 ,)' ,)*' - 6>' M >6/6X' >6/ =-1.10 % **' + # '% !' ,' .',)1;5),
8)>)' 81;/0' / 9*8 .*' >)6-6>,*-[*',)*' ?*,-*' 1-',)*'),)6,',)*=1*,- '1',)*' A(62.' ?6 ')*-*6,*-',)-18'
?*/10 'M ..*?% 'SKXT D;',4*.*2 ;'I6%" !' .1?*' ,'-* *-.',1',)*' ?*/10 ,1'8)>)',)*' =*5),' .=*>*.'1'
, 12'T 620'< >)6*/.'M2' 18,)'' '$ ' 1'=%S X' +*-.*' 8)>)' *' ,)*' 0 .,25; .)'12*' .' >6//*0' '
: 6/% Q K' 1%K X'0*2 *.0,1',)*' : *D-*8.'62 ' ?*,-^ 1'0*5-**.'/9*',)*.*' .6/?.'620',)*' 26?*' 6=J'
>6/ =-1.10 % **' + # '% !' ,' .',)1;5),' *=6-',1'-* *-',1'6'=6-, >;/6-'9 20'1 '?*,-*'M.**'
),6,',)*=1*,- '1',)*' A(62.' ?6 ')*-*6,*-',)-18' 2' : 6/% Q ' 1% XT D;',8)6,',)*',)6,'?*,-*' .'620'
.1?*' 8*-*' +1/;2,6-A '1,)*-.' 2+1/;2,6-'T .1?*' 1-'5 8)*,)*-',)*',*LL.,' 2',)*' .6/?.'D*6- 25',)*.',/*' 8*
0*/..1)2'B1*/ -$ '620'1,)*-.% & ,)'-*.=*>,',1',)*)6+*' 21,' *,',)*' ?622*-'1' ,' *L*>;^ 0*5-**.'/9*',)*.*' .6/?.'620',)*' 26?*' 6=J'
>122*>,25',)*' .6/?'8 ,)',)*' ?622*-'1' ,' *L*>;^ 2' : 6/% Q ' 1% XT D;',8)6,',)*',)6,'?*,-*' .'620'
?*/10 'M ..*?% 'SKXT D;',4*.*2 ;'I6%" !' 8)*,)*-',)*' ?*,-*' 1-',)*' 6' =*-.*>,*0' .;>>*.. 12',1',)*' >*'
, 12'T 620'< >)6*/.'M2' 18,)'' '$ ' 1'=%S X' 1 '62)D .)1='1-' ?*,-1 '1 '6//' 6;,)1- , '620'.,6, 12%' % 2' 2.,62>*' 1 '*>>/*. 6.^
: 6/% Q K' 1%K X'0*2 *.0,1',)*' : *D-*8.'62 ' ?*,-^ , >6/ 0*5-606, 12' 2',)*' * 5),)'>*2,;- '6,' 12.,62, 21^
>6/ =-1.10 % **' + # '% !' ,' .',)1;5),' =/*' .'-*>1-0*0% ()*'=6,- 6->)' 12.,62, 2*' 86.'?60*'
),6,',)*=1*,- '1',)*' A(62.' ?6 ')*-*6,*-',)-18' ,1'6.>*20',)*' :' 2' >6.*.' 8)*-*',)-1;5)'.1?*' 0*
0*/..1)2'B1*/ -$ '620'1,)*-.% & ,)'-*.=*>,',1',)*)6+*' 21,' *,',)*' ?622*-'1' ,' *L*>;^ ,1'6.>*20',)*' :' 2' >6.*.' 8)*-*',)-1;5)'.1?*' 0*
2' : 6/% Q ' 1% XT D;',8)6,',)*',)6,'?*,-*' .'620' 1 '62)D .)1='1-' ?*,-1 '1 '6//' 6;,)1- , '620'.,6, 12%' % 2' 2.,62>*' 1 '*>>/*. 6.^
?*/10 'M ..*?% 'SKXT D;',4*.*2 ;'I6%" !' 8)*,)*-',)*' ?*,-*' 1-',)*' 6' =*-.*>,*0' .;>>*.. 12',1',)*' >*'
, 12'T 620'< >)6*/.'M2' 18,)'' '$ ' 1'=%S X' +*-.*' 8)>)' *' ,)*' 0 .,25; .)'12*' .' >6//*0' '
: 6/% Q K' 1%K X'0*2 *.0,1',)*' : *D-*8.'62 ' ?*,-^ 1'0*5-**.'/9*',)*.*' .6/?.'620',)*' 26?*' 6=J'
>6/ =-1.10 % **' + # '% !' ,' .',)1;5),' *=6-',1'-* *-',1'6'=6-, >;/6-'9 20'1 '?*,-*'M.**'
),6,',)*=1*,- '1',)*' A(62.' ?6 ')*-*6,*-',)-18' 2' : 6/% Q ' 1% XT D;',8)6,',)*',)6,'?*,-*' .'620'
.1?*' 8*-*' +1/;2,6-A '1,)*-.' 2+1/;2,6-'T .1?*' 1-'5 8)*,)*-',)*',*LL.,' 2',)*' .6/?.'D*6- 25',)*.',/*' 8*
0*/..1)2'B1*/ -$ '620'1,)*-.% & ,)'-*.=*>,',1',)*)6+*' 21,' *,',)*' ?622*-'1' ,' *L*>;^ 0*5-**.'/9*',)*.*' .6/?.'620',)*' 26?*' 6=J'
>122*>,25',)*' .6/?'8 ,)',)*' ?622*-'1' ,' *L*>;^ 2' : 6/% Q ' 1% XT D;',8)6,',)*',)6,'?*,-*' .'620'

5-1,?0.'6/.17'.1?*'-* *-',D*' 26?*'$+ '" A '"
' .125'1 '0*5-**. ' 7,1,)*'6-5; ?*2,'1',)*' .6/?. '620'
,-62./6,* ' ' 1-' ' ' ' .;==1. 25'
,)*?' ,1')6+*' D**2' . ; 25' D ' ,)*' .-6*/ ,*.' 8) /*'-*^
,;-2 25' -1?' *L /*' M [-6' + 'RX' 1-' 12' ,)* -' 622; 6/
A1;-2* .',1'B*-;.6/*?' 2' 1-0*-',1' >*/*D-6,*',)*' *.,^
+6/.'4)*2>*'.1?*';20*-.,620' ' " ' %
:' D;',) .' 81;/0'12/ '6==/ ',1',81'1',)*?'M .6'
>LL '>LL+ X ;>)')18*f*-' .',)*'1= 2 12' 1 ' : *-^
0*-'>? ' '" " ' 1'8)1' 2,*-=-*,.',)*'
, ,/*''= ?2.' 1-'6'A1;-2* %J' () .'+ *8' .'60+1>6,*0'
6,'/*25,)'D ' : *25.,*2,*-5'I ' ' ' '
S' 0 2D%I'*0%'620')6.'D**2'601=,*0'D '.*+*-6/'/6,*-'
>-, >.' Q D*2' [-6' _;1,*.' 6;' 62> *2,'6,;)1-, '
M.1' ?>) 7 660 6.'B6->) '*,>'*L=/6 2X'8) >)'?6 2^
,6 2.',)6,',)*' '6//;0*',1',)*' ,**2'.,*=.'8) >)'
2',)*' (*?=/*' 1 'B*-;.6/*?'/*0' -1?',D*' >1;-,'1',)*'
81?*2',1',)6,'1',)*' ?*2'620'12'*6>)'1'8) >)'.,*=.'
12*'1',)*' ,**2'.125.'1 '0*5-**.'86.'>)62,*0'M>1?=
(6/?;0' "' ' T' $ ' + ' X 06?' /6-9*'
I '12' .6 >LLX'-* *-.',1'6'. ? /6-' 1= 2 12'6.'
D;20' 2',)*' =1> =)6/?% ' + ' "' ' S
: *-'=6-*2,.'D-1;5),')*-',1',D*' (*?=/*'620'.*,')*-'
;=12'12*' 1',)*' .,*=.' 18',)*-*' 6-*' ,**2'.,*=.'
6D1;',)*' (*?=/*'D '8) >)',)*' ?*2'620'12'*6>)'1'8) >)'.,*=.'
12*'1',)*' ,**2' .6/?.' 1'0*5-**.%J' **' 0 / !
' ()*' ?1.,' =-1D6D/*' 2,*-=-*,6, 12') 18*+*-' .',)6,'
601=,*0'D '4*.*2 ;.'I-+ !'# !'=' N '._ X',)6,',)*'
6-7.1'>6//*0'k1?'6'>*-,6 2'-) ,)?'1D+ 1;.' 2' .*+*-6/
1',)*?'D '8) >)',)*' .*2.*'6.',' 8*-*' 'D '0*^
>-**.'1-' % ',)*' -..,'1-'/6.,'81-0.'1'6' =-*>*0 25'
>/6;.*' D* 25' 1 ,*2' -*=*6,*0'6,',)*' D*5 22 25'1',)*'
.;>>**0 25'12*'M.**'D '$!' ' >,1D*-' QS '=' QR'
._ %' ()';.' 2' .6' *LL d
' '8 //' ,';=';? 2*'* *.';2,1',D*') //.' '
-1?'8)*2>*'>1?*.)' ,' '
R' ' '' >1?*.)' -1?',)*' 1-0
&)1'?60*')*6+*2'620'*6-,)'
N' :*8 //21,.;*-',) ' 11',1')*'?1+*0T
() ' ' '8 // & 0
1' 2 ' ' & 0 '21-'./**=' 8 //,)*
/ ' '1' -6*
' B*)1+6)' .',) ' ' '*,>' 7
1?=6-*'6/.1' .6'>LL 'K' T' >LL 'N' T' >LL +' C'
ST' >LL+ 'K'NT' >LL L' 'K' (1',)*' .6?*' >/6..' D*^
/125.'6/.1',)*' .125'1' *D1-6)'MB;05'+'NCN X' () .'
+ *8' .' 1//18*0'D ' *' & *,*' I6 ' ' '& !-!% '
KQRX'620'1,)*/7' **' (/ 25' ' 4 ' ' % '
M -*?' S XT' /6-..*' '4 1'
'# +'M ' ' Q RXT' , >),'N ' '# '
'"M /,126' SSX' **'+ !
*5-**.'M -*2>)' ' -1?' 6,'760 8 '6'..*=X'
, ,/*.'1'-629',1'8) >)'6-*'622*L*0'=- + /*5*.'>12 *.^
-*0';=12' .,;0*2,.' 2'>1//*5*.'620';2 +*-. , *.'1-' ;=12'
?*?D*-.',)*-*1 '6.'6',*., ?12 '1',)* -' =-1 > *2>'
2',)*'6-,.'620'.> *2>*.' ()*',*-?'`` -,. J'1-' D^
-6/ -,. J'6.',>)2 >6// '6==/ *0',1'>*-,72'.,;0*.'
>6?*' 2,1';.*0;-25',)*' < 00/*' 5*.'620'12',)*'*.^
,6D/.)?*2,'1';2 +*-. , *.',)*',*-?' 6>;/, '1' -,. J'
0*21,*0',)1.*'8)1'0*+1,*0',)*?.*/+*.',1'.>*2>*'620'
=) /1.1=)'6.'0.,25;.)*0' -1?',)*' 6>;/, '1',)*1/^
15 '620'6,*-86-0.'1'?*7> 2*'620'68' ()*'2;?^
D*-'1''6-,.J'*?D-6>*0' 2',)*' ;// ?*0 ?+6/>1;-.*'1'
/*6-2 25'86.'.*+*2 4-6?86-' 15>')*,1->'M>12^
.,,;, 25',)*' - 8' <;.>' -,)?*,>'4*1?*,-'
620')*,1->'M,)*' (8 ()*',*-?.' ?6.,*-'
620'01>,1-'8*-* 1-5 26// '6==/ *0' . 212 ?1;./ ',1'
62 '=*-.12' 2*2565*0' 2',*6>) 25' 2'=-1>*.'1',?*'
,)*'12*' 86.'-*.,->,*0',1',D*'/D*-6/6-,.',)*'1,)*-',1'
0 + 2, '/68'620'?*0>2*' &)*2'-*5;/6, 12.'8*-*'
*.,6D/.)*0',1'=-*+*2,';2_;6/ *0'=*-.12.' -1?',*6>)^
25'620'62' 2, 6,1- '.,65*'1'0.>=/2*'86.'=-*.>-D*0'
,)*.*',*-?.'D*>6?*'. 52 >62,'1'6'>*-,6 2'-629'620'
1',)*' =1..*.. 12' 1'>*-,6 2' =18*-.'620'8*-*' >6//*0'
' .,*=.J' 1-' 0*5-**.%J' ()*' =6.. 25'1',)*'
2, 6,1- '.,65*'.6 0',1')6+*' D**2' -.,' 2.., ;,*0'D '
4-*51- ' d'M KK C X'>12 *--*0',)*', ,/*' 1' " '
M_' +%X'620'62'600, 1.6/>1;-.*' 1'0.>=/2*'620'*L^
6? 26, 12' 86.' 2*>*..6- ',1'1D,6 2 25',)6,'1 ' !=
()*', ,/*' 1 '<6.,*-'1' -,.'1-5 26// ' ?=/ *0',)*-' 5),'
620'*+*2',)*'0;, ' 1 '=;D/>/ ',*6>) 25'.1?*' 1',)*'
D-62>)*.' 2>/;0*0' 2',)*' 6>;/, '1' 6-,..T' 6' >;.,1?'
8)>)' .', , // -*,6 2*0',1'.1?*'*L,*2,' 2',)*' 4*-?62'
;2 +*-. , *.'D;',)6.' 6//*2' 2,1'0.;.*' 2'1,)*-' >1;2^
,-*.' ()*0*5-**.'1' ' % ' I ' (8' %(%'
I ' " ' 8' 620' % ' I ' 4 '
8'6-*' >12 *--*0' " ' 'D ' >1//*5*.' 620'
;2 +*-. , *.' ;=12' =*-.12.')*/0',1'D*' 81-,) '1',)*?'
8)*,)*-' ?*?D*-.'1',)*' .6 0' 2., ,;, 12.'1'/*6-2 25'
1-'21,' (D*.**'1' 1?*>/6 ?.'6';2 +*-.6/6>60*?^
>6/=18*-'620',)*' 1=*'>12 *-.',)*'01>,1-.'0*5-**'6,'
=/*6.;-* *' ' 9-9=6,-'>9'# ' 9
% ' '" '2 :' *8?62', ' ' +' '
2 '=' K 'T3 (D1/;>9' 2' :*-[15.'5 =6 =
% $ 'L+ ' KKT' A20',)*'6-,)/*' !
)6 + ,.'M)6/0' ' " (' BC('1-' ' " ('
=, 6+6,1 ';/5' ' 8'12'1',)*' .. C'
62',-D*.' -1?'8)>)'6'>1/12 ' 6.'/*0'1;,'D ' .21=C'
=*-',1'-*=1=;/6,*' 6?6-6'620'8)1',)*-*'A1 2*0',)*-'
2* 5)D1-.' 2'1=1. 25',)*'-*>12.,-;>, 12'1',)*' (*?C'
=/*%6,'B*-;.6/*?'M [-6' +'RX' ()*.*' " '8*-*'=-1DC'
6D/E',)*' 01,' ' 'M:*-10' ' K X'6'21?60*' *-. 62'
,-D*'*6.,'1',)*' 6.=62' *6'M ?? 62' <6->'LL 'Q'
=' N '*O' =' X' 2',)*'2* 5)D1-)110'1',)*'<6-0 62.'
1-' :A(>62 62.'M ,-6D1'L ' Q' T' / 2 ' + ' RT'
LLL+ ' NNT' 1/ 2' LLX',186-0.'<6-5 626'M ,1/' + '
X';20*-',)*'-;/*' 1 ' 6- ;.'M ;-,' + ' KSX'620',6,*-'
1 ' /*L620*-'M ;-,'+ ' ' T' L'K'K X'620')..';>^
>*..1-'M + LL+ ' X' () .'=*1=/*'6==*6-.',1')6+*'
D**2' 8 0*/' 0 ;.*0'D* 25' 1;20'6.' " ' M 01 X'
D1,)' 2',)*' >1;2,-'*6.,1',)*' 6.=62'M ,-6D'L 'Q'
Ka' -- 62'6 % !'& !' ' '*,>%X'620' 2',)*'f>2 ,'
1',)*W*6'1' [1'M ,-6D' L 'R'NXT' 620'656 2'6.' ' +'
I[O '()';> 0' 'RSX'1-' ' 'M 68,' ,-6D' ' 6..'
,>%X';=12',)' 62;D*' ()*-'26?*'=*-)6=.';-+ +*.'
2',)*'=-*.*2,'0.,->,' " ' ()*'8*-*'62' -62'
-6>*')20'6-*'-*56-0*0'D '.1?*'6.')6+ 25',)*-'/2*6/
0*.>*2062,.' 2',)*' ?10*-2' ' 'M.**' 4-?? .'?=
" +' ' +' $% +' RKCNX' ()*' 26?*' .'
0*-+*0'-1?',)*' *-. 62' "' '6'+ //65* *)6+ ,*.'
8 //I',)*-* 1-*' D*' * ; +6/*2,',1',)*' 6, 2' ;.,>%J'
()*-'/1+*' 1'86-'620'=/;20*-' 20;>*0',)*?',1'.*-+1'
6.'?*->*26-*.';20*-'+6-1;.'=-2>*.'M -- 62' T'
KXT' 620',)*-'+6/1-')6.'?? 1-,6/ [*0',)*?' 2',)*'
=65*.'1' -5 / 6.' 201?,' 6D.*J' I*6 ! ' KQX'
'D620'1',)*?')60'01;D,/*..'*2,*-*0',)*' .*-+ >*' 1'
,)*' *-. 62' ?126->)' 1//18*0')?',1' 6/*., 2*'620'
-*>* +*0' 1-',)*D'-*86-0'5-62,.' 1'/620' 2' 6?6-6'
M ,*=)62;.' [62,% .%+%T ,,*-'6 + '+ 'SSQT'
68/2.12.'2 (E'NNQX%
)12'o ' % 'D .)1='1',)' -1,*.,62,'
= .>1=6/);->)' 2',)*1O 1>*.*' 1' 1;,)' 6-1/26'
86.'D1?' 2' 1.,12'<6..%' 2' *>% S% : .'*6-/'
*0;>6, 12' 86.'1D,6 2*0' 2',)*'=;D/>'.>)11/'8)*-*'
1-'.1?*' *6-.')*',110'6,',D*')*60'1')./>/6..% 2'
R')*'*2,*-*0' : 6-+6-0'$2+*-. , '8)*-*')*'5-60;^
6,*0'8 ,)',)*')5)*.,')120/.' 2' R % : *' 6,'12>*'
>1?7?*2>*0')'=-*=6-6, 12'1-',)*'?2.,-E'1-'8)>)'
-1?'*6-/ '>) /0)110')*')60'*+2>*0'6'.,-125'2>/26^
, 12% 2' R')*'86.'1-06 2*0'620'.112'D*>6?*',)*'
-*>,1-'1'(-2, ');->)' *8=1-,' % %'8)*-*')*'-*7
?6 2*0';2,/' Q '8)*2')*'86.'>1?=*//*0'D '6/25'
)*6/,)','1'.**9'6'?/0*'>/?6,*% 2' 2+,6, 12',1',)*'
-*>,1-.)='1',% <>)6*/.');->)' 6)-/*.,1' 2')60*/=)6'
" ',)*'+*2*-6D/*' .)1='&),*' :*>12, 2;*0'2',)*'
-*>,1-.)='1')./>);->)'620'=*-1-?*0',.'0;,*.'620'
,)1.*'1',)*' D.)1=->'8,)' *?2*2,'[*6/'0.>-*, 12'
620'.;>>*..';2,/')*' */' 6'+>,?',1' *//18' +*-' 2'
;5;,' Q % ' ,)*'-*_;*.'1',)*'+*..-'1' ,%
/7>)6*/.')*'86.'D;-*0'D*2*6,)' ,.'>)62>*/% :.

.1-?12. ' 2' ,81' +1/; ?*. ')6+*' =6..*0' ,)-1;5)' ,81' *0 , 12.' 2' ,) .'>1;2,- '620',)-1;5)',)-**' 2' 25/620%
( )* ' 6-*' ?10*/.' 1 ' =-6>, >6/ = ;/= ,' 0 .>1;-.*% **'
<*?1 -' " '5 !' ' ? 1'620' ' ' \ ' !'$ 1'
'+1/% !' 6/.1' =-65;*7 & '+' K %

* ' 4 -6 , 6' M 6,% " ' " ' ' '? 8' .' 6' 1-?C
S; /6' ; .*0'D ' D .)1=.' 620' ?=26->).% ' */ L' 1 ' 1?*
M % % N SX C., /*0') ?.*/ ' %+ % '% ' ' ' !'
,*-86-0.' ,' >6?*' ,1' D** 6==*20*0' D ' 6->)D .)1=. '
D .)1=. ' 6DD1,. ' 6DD*..*. ' 0*62. ' ?129. ' 620' *+*2'
>)6=/6 2. ' ,1' ,)* -' , /*.' 2' /*,,*-.' 620' 1,)*-' 01>;P
?*2,. ' 6. ' 62' *L=-*.. 12' 1 ' 0*=*20*2>*% ,*-' ,)*'
? 00/*' 1 ',)*' N,)' >*2,;- ' 8)*2' ,)*' .62>, 12' 1 ',)*'
=1=*' D*562',1' D*' >12. 0*-*0' 2*>*..6-A',1' *>>/*. 6., >6/
1 >*. %,)*') 5)*-' >/*-5 ' 8-1,*' ' ' '&%
' `D ' ,)*' 6+1-' 1 ' 410' 620' ,)*' 6=1.,1/ >' .**%'
,' 6' /6,*-' =*- 10' ?62 ' 1 ' ,)*?' =-* *--*0' ,1% 8-.*'
% '620',)*'/ 9*! D;','
,)*' ., // >12, 2;*0' ,1' D*' ., /*0' D '1,)*-.' ' ' !'
2' ,)*' - , .)' ./620.' ,) .' ., /*' 86.' 5*2*-6// '0-1=^
=*0' 6D1;',)*', ?*' 1',)*' * 1-?6, 12' D;' ,' 86.' 1>>6^
. 126// '5 +*2' ,1' ,)*' 6->)D .)1=.' 1' 62,*-D;- ' 620'
1-9' *+*2' 6 ,*-' ,)*' D*5 22 25' 1 ',)*' ,)' >*2,;- %
5 22 25' 8 ,)',)', ?*.' 1 ',)*' 6-/1+ 25 62. ' ?62 '
,*?=1-6/ =- 2>*. ' *6-/. ' 620' D6-12. ' ?60*' ;.*' 1 ',)*'
1-?;/6' *' 4 -6, 6† 620' D* 1-*',)*' ,)' >*2,;- ' 21'
0*6' 1 ' 20*=*20*2>*' 1-' 1 '0 + 2*' - 5),' .**?.' ,1')6+*'
6,,6>)*0',1' ,% ;' 2' K' 9 25')6-/*.' ' 1 '
-62>*' 1-D60*' ,.' ;.*' D ',)*' 1?,*' 0 -?6526>' 620'
2' R' 1D/ 5*0',)*' 0;9*' 1 ' ;-5;20 ',1' 0*>/6-*',)6,'
)*;.*0' ,'8 ,)1;'=-*A;0>*',1',)*'- 5),.' 1 ',)*' -*2>)'
>-182% ()*.*' 2.,62>*.' .)18',)6,' ,)60' 2 & ' D*5;2'
,1' D*' -*56-0*0' 6.' D*/125 25' *L>/;. +*/ ',1' .1+*-* 52.'
8)1' 18*0' 21' 6//*5 62>*',1' 62 '1,)*-'*6-,)/ '=1,*2,6,*'
1-' =12 7*% 2',) .' 86 '8)6,' 86.' 1-5 26//A7' 6' = 1 ; ' *L^
=-*.. 12' 1 ') ; ? / , ' >6?*',1' D*' /119*0' ;=12' 6.' 62' 6.^
.*-, 12' 1 ',)*' 01>,- 2*' 1 ',)*' `0 + 2*' - 5),' 1 '9 25. J'
')6?D*-.' 6 % '.%+%

* =6-6 ' ?1,)*-' 1 ' 410' 6' , ,/*' 6==/ *0' ,1' <6- '
,)*' ?1,)*-' 1 ')- .,' 6,' ,)*' 1;2>/ 1 ' >.>6% **'
0 ' !

* . ?' M -1?' ' ' 410*=-1=*-/ ' ?*62.' ,)*' D*^
/ *' 2' ,)*' *L .,*2>*' 1 ' 6' .;=-*?*' 2,*// 5*2,' -.,'
6;.*' 2' 1==1. , 12',1' ,)*. ?% ,' .' 218 ')18*+*-'
6==/ *0',1',)6,' 1-?' 1 ' 2 0*/, ' 8)*' =-1 *..*.',1'
D*/ *+*',)*' *L .,*2>*' 1 '6' =*-.126/ 410' D;,' 0*2 *.') .'
-*+*/6, 12% ()*' 81-0' *.?' .' 6,' D1,,1?',)*' .6?*'
6.' -" ' M -1?' 1>' 4 10X' D;,' 6' 0 ., 2>, 12' 2' =-6>^
, >6/ ;.*')6.' 6- .*2' D*, 8**2',)*?% *.' (-60*.' >6//.'
()*.?',)*' 6 ,)' 1 '-*6.12' 8)>)' =-*>*0*.' 6// -*+*/6^
, 12' † D;,' 12',)*' 1,)*-')620' 0*. 526,*.' D ' *.?',)*'
6 ,)' '-*6.12' 8)>)' >12,*.,.' -*+*/6, 12% 2' ?1-*'
?10*?',?*.' 62' 6-D ,-6- ' 0 .,2>, 12' D*, 8**2',)*'
,81',*-?.' ?*2, 12*0')6.' D**2' 601=,*0' D ',)*' ;.65*'
1 '.> *2, >'/625;65*' 2' 4*-?62 ' 6>>1-0 25',1' 8)>)'
.?' .',)' 01>,- 2*' 1 ' 410 .' -*/6, 12',1',)*' 81-/0'
8)>)' -*=-*.*2,.' 410' 6.' 21,' 12/' 0 *-*2,' D;,' 6/.1'
6.' .*=6-6,*0' -1?',)*' 81-/0',)*-* 1-*' 6.' 12/ ' 2' 62'
L,-26/ -*/6, 12',1',T 712',)*' 1,)*-')620' ()*.?'
81;/0' D*',)*' 01>,- 2*' 8)>)' -*=-*.*2,.' 410' 6.')1/0 25'
62' 2,*-26/ 620' -*6/ -*/6, 12',1',)*' 81-/0% 62,'
?69*',)*' 0 .,2>, 12' D*, 8**2' 6' 0*.,' 620' 6',)* '-* ;.*0',1'
..' 6.' 1//18.%,)*' D*' .6 .' D*/ *+*.' 2' 6' 410' D;,',)*'
" ' 2' 6'/ + 25' 410% D1;',)*' ? 00/*' 1 ',)*' S,)'
>*2,;- ',)*', ,/*' 86.' 6--1562,/ '6..;?*0' D ',)1.*' 8)1'
=-1 *..*0' ,1' D*/ *+*' 2' 6' 410' 8)/*',)*' -* ;.*0',1'
6>9218/*05*' 62 '-*+*/6, 12' 1 ') .' 8 //% ()*' .*',';"=
2' 1==1. , 12',1')- ., 62 ,E' 8)6,',)* '6-*' =/*6.*0',1'
>6//`26,;-6/ -*/ 5 12 ' D;,' 2*+*-' 65-**0' ;=12',)*' 6-^
, >/*.' 1 ' 6 .,)' 8)>)' ,',6;5),' 1-',)*' =-6>,>6/' 0;,*.'
8)>)' ,'-*_;-*0% *.?' 2' *.*>,' .'6'-*A*>, 12' 1 '
6// 92182' -*/ 5 12.' .;==/ 25' 21,) 25' 2',)*' -'=/6>*'
D;,'/*6+ 25',)*' ? 20',1' 01;D,'620' 06-92*..% ;',)*'
- *20.' 1 ')- ., 62 , ')6+*' 21' -*6.12',1' -*5-*',)*'
-*' 620' ;2-*.*-+*0' 0 .>;.. 12' 8)>)' ,)*' -' -*/ 5 12'
" ';20*-512*% ()*' >6+ /.' 620' 1D A*>, 12.' 1 ',)*' 0*^

.,.')6+*' D**2' 6 -/ ')*6-0' 620' ;// ' 62.8*-*0† D;,'
1-',)*.-' 1==1. , 12' 8*' .)1;/0' 21,')6+*')60' ;>)' 6'
+6.,' ?1.W1')- ., 62' *+ 0*2>*.' 6.')6.' D**2' >1//*>,*0'
D ',)*' = 1;.' 620'/*6-2*0† *+ 0*2>*.' 8)>)' 8)/*',)*'
=-1+*',)*',-;,).' 1 ')- ., 62 , ' .1' //;.,-6,*' ,.' 01>^
,- 2*.' 6.' ,1' D*' 1 '/6., 25' .*-+ >*',1',)*' >6;.*' 1 '5*2;=
2*' -*/ 5 12' 620',)*' D*.,' 2,*-*.,.' 1 '?629 20J' M 0*2X%
()*' 5-1;20',69*2' D ',)*' 25/.)' 0* ..' 86.' .;D.,62^
, 6// ',)*' 26,;-6/ .,>'+ [%,)6,',)*' 41.=*/) .,1-A' 86.'
,)*' =-10;>,' 1 ' 62' 2+*2, 12' ?=1.*0' ;=12',)*' 81-/0'
D ' ,.' 6;,)1-.%
1-0' : *-D*-,' 1 ')*-D;- ' M D1?' Q ' 0 *0' S QX'
)6.' D**2' -*56-0*0' 6.',)*' -.,'0* ., >6/ 8-,*-' 2' 25^
/620' 1-' 6,' /*6.,',)*' -.,' 8)1' -*0;>*0' *.?',1' 6' .^
,*?' 6 -? 25',)*' .;' >*2>' 1 '-*6.12' 620' 26,;-6/
-*/ 5 12' 620' -*A*>, 25' 0 + 2*' -*+*/6, 12' 6.' ;22*>*.^
.6-' 620' .;=*-/;1;.% : .' ..,*?' ,6;5),' 2').' ' '
N '620' ' '5 ' ' *?D-6>*0' ,)*.*' +*'
6-, >/*.å ' ()*' D* 25' 1 ' 4 10† K',)6,')*' .',1' D*' 81-^
.) ==*0' † N',)6,'= *, '620' ?1-6/ + -.,'*' 6-*',)*')=
=6-,.' 1 ' 81-.) =† ',)6,' 410%8 // =6-012' 1;-' 6;/,.'
12' -*=*2,62>*† 620' ',)6,',)*-*' .' 6' ;.,-*' ..,6,*' 1'
-*86-0.' 620' =;2.)?*2,% *** % ' /' ' 4'
8 F' : 1DD*.' M ' SQ X' 0*- + 25' 6// 9218/*05*' -1?'
,)*' .*2.*.',6;5),' 6' /18*-' D;,' ?1-*' /15 >6/ 1-?' 1 '
* .?',)62' : *-D*-,' 620%12*' /*..' >6/>;/6,*0',1' 01'
)6-?'6.')..' .,*?' 1D+ 1;./' .;D+*-,.' 1-0 26-' ?1^
-6/, % ** % !')6-/*.' /1;2,' M ' SRNX' =;D^
/ .)*0' 6',-62./6, 12' 1 ') /1.,-6,;. .' ' &% '
- - '(8,)',)*.6?*'=;-=1.*' 6.',)6,'1 ':*-1>/*.' 2'
,)*' ,)'>*2,;-A '+ [%,1'>12,-6.,',)*')>6-6>,*-' 620').(
,1 '1')-.,' 0 .60+62,65*1;./' 8,)',)6,'1 ' =1//1^
2;.% ,*-') .' 0*6,)' 6==*6-*0').' ,' '5 '
M SR X' *L=/6 2 25',)*' * .,.' */ 5 12%J' B1)2' (1(
/620' M ' KKX' 2').' " ' ' M SRSX'
6..*-,*0',)*'>6=6>, '620' .;=-*?6>'1 '-*6.12' M62, > I!
=6, 25',)*' ?10*?' 6, 126/ .?'_*+%hX' 620' 6/.1' 2'
) ' 1 1 ' M SRRX' ,)-*8' 01;D,' ;=12' 6212%
()*',)*1 ',)6,')-.,' 86.' 62' 1-0 26-' 762' 8)1.*'
1//18*-.' */*+6,*0') ?',1',)*' ?65 26-' 0 52 , ' 1 '
6' 0 + 2*' D* 25')60' D**2' .,6-,*0' D ',)*' 6-/' 1==1^
2*2,.' 1 ')- ., 62 , ' *'/.;.' 1-=) - ' 620' B;/ 62%
.' 86.' -*+ +*0' D ' & 11/.,12' M ' NNX' M_%+%X' 2%) .'
$ ' ' ' ' " ' ' M K X' 620' D ' (2(
06/' M_% ·· 2') .' " ' ' ' ' ' '
M N X% (206/' 86.' 1//18*0' D ') ;DD' - ' ? C%
D;- '620' 6,' 6' /6,*-' =*- 10' 2',)*' 1-?' 1 ' >1?=/*,*'
.>*=, > .?' D ' : ;?*' 620' 4 DD12% ?125',/*' //,^
-6,' ()1?6.' 6 2*' M_%+%X' 86.0,)1I5-*6,' =-1=656^
,1-' 1 ' * .?% ()*' =-15-*..' 1 ' +;/56-' * .?' 6?125'
,)*') 5)*-' >/6..*.' 86.' 6--*.,*0' D ' ;,/*-.' ?2?1-,6/
& ' \.**' 8$;' 620' 6?125',)*' /18*-' ,1'
/6-5*' *L,*2,' D ',)*-.*' 620' =-15-*..' 1 ' <*,)10 .?%
2' -62>*',)*' 25/.)' * .?' 86.' 601=,*0' 620' 0 ^
;.*0' D ' 1/,6 -*' 620',)*' 2> >/1=*0 .,' M_%+%X' D;,'
,' .112' D*>6?*' -+1/1;.' ??21-6/' 620' 2' 6>,' 6,)*^
., >% 2' 4*-?62 ',)*' .6?*' .**0' .=-625' ;=' 2',)*'
Q,)' >*2,;-' 2' ,)*',)*1-*.' 8)>)' 56+*' (.*',1',)*'
?10*-2' 6, 126/ .?' M_%+%X% '()*0*.,>6/?1+*?2,'
'+ *8*0' 6.' 6' 8)1/*' 1D.1/*,*% ',)*' .6?*01;D,.'
6-*' 218' -*=*6,*0',)* '01' 21,'-*>;-' 2',)*' .6?*' 1-?'
D;,' 6-*' >122*>,*0' 8,)' 2*8' 1-?.' 1 '=) /1.1=) '620'
6/,*-*0' D '>12,6,>' 8,)' ?1-*' -*>*2,'>-,>.?% 2',)*'
=-*.*2,' 06 '.>*=,>.' 81;/0' D*/ *+*' /*..',)62',)*' 0*^
..,' 1-' D*/ *+*' ?1-*' D1,)' 2' =) /1.1=) '620' 2' >-,^
>.?% 2' =) /1.1=) ',)*' 6>,',)6,',)*' .6?*' 0 >;/^
,>/*.' 1' 1>>;-' 2' 26,;-6/ -*/ 5 12' 6.' 8*//0 .' 2' -*+*6/*0'
81;/0' 218',)-18',)*?' D6>9' -1?' <121,)*.?' 2,1'
,)*.?' 1-' 62,)*.?† 8)/*',)*?.,*-*.' 1 '-*9C*' 6C'
,12' 8)>)' D ' 6' -1;5)' >-.,>.?' 8*-*',)*2' 0*2*0'
81;/0' D*' 218' >12>*0*0' 620' *L=/6 2*0' 686' 6.' =.^
>)1/15 >6/ =*>;/6-.,*.' 1 ' -6>*.' 1-' 20 + 0;6/.% 2'
>-.,>.?',)*' 0*/ >6,*' *L 7 26,/12' 1 ',)*' .6>-*0'/,*-C

6,;-*' 81;/0'218'=-*+*2,'D1,)',)*'-*+ +6/'1',)*'>1/0'
;2 ?65 26, +*' 862,'1'6==-*> 6, 12'1',.'*L,-*?*'/,^
*-6-'D*6;, '620',)*')6.,' ?=;,6, 12'1',D*'>^6-5*'
1'/,*-6-' 1-5*-'656 2.,',)*'6;,)1-.'1',)*'01>;^
?*2,.' 2',)*'0* .,'>12,-1+*-. ',)*'8)1/*'_;*.,12'
,;-2*0';=12',)*'0 *-*2>*.'620'-*.=*>, +*'0*5-**.'1'
1D/56, 12'1'26,;-6/620'-*+*6/*0'-*/5 12'?1-6/620'
=1., +*'0;, *.'',)*'0* .,'>12>*0 25',)*'12*'0*2 25'
,)*'1,)*-' ()*'=*-?62*2,'>12,-D;, 12',1',)1;5),'
?60*'D',)*'>12,-1+*-. '>12. .,*0'2',;-2 25'6,,*2^
, 12'-1?'6D..-6>',)*1/15',1'=. >)1/15>6/'-1?'?*,^
6=) . >6/0._;., 12.'12',)*'26,;-*'1'410',1'*,) >6/
>12. 0*-6, 12'1',)*'?1-6/.>)*?*'1'-*0*?=, 12'1-
?62' ()*1/15'>6?*' 1-,)'-1,2',)*'>12/>,'-*>12^
. 0*-*0'-1?',)*'=. >)1/15>6/'=1 2,'1'+*8'620'-*^
60A;.,*0',1'?**,',)*'01;D,.'8)>)',)*'2*8'1-?'1'
=)/1.1=) '=. >)1/15'620'*,)>.''?5),'.;55*.,'
()*'6,,6>9'1'-*+*6/*0'-*/5 12'D'-*6.12'6819*',)*'
0* *2>*'620'21'=*-10'2');->)')..,1-''.'.1'-*?6-9^
6D/*'1-'81-9.'12',)*')-., 62'*+0*2>*.'5-620'?12^
;?*2,.'1'?20'620'20;.,-' ()*'81-9.'1'0* *20^
-.'6-'?6-9*0'D',)*'601=, 12'1',)*'.6?*'D6..'1'
-*6.12'6.',)*'-'1==12*2,.'620')*2>*',)*',1=>.'8)>)'
,)*''//;.,-6,*')6+*'6'=*-?62*2,'=)/1.1=)>6/+6/;*'
,)1;5)',)*'-'.=*>6/;, /, '6.'6-5;?*2,.'D*'/*..*2*0'
D',)*'6/,*-6, 12'2',)*'=1 2,'1'+*8'218'6..;?*0'DA'
-*',)1;5),J'M 6--6-' '# '@ '-" "'
/*>,' +X%
()*'6?'1'')12*..,'0*.,.')6.'=-1 *..*0/''D**2 ,1'
?6 2,6 2',)*'01>,-2*'1'6' *-.126/'410'620',)*'
)6+*'6..*-,*0'620'6..;?*0',)6,',).'01>,-2*'>62',P*
D*,,*-'620'?1-*'.;-*/''+20>6,*0'6=6-,'-1?'8)6,'
,)*'>6/',)*'*2,625/*?*2,.'1''-.,62'6,)',)62'2'
>122*>,12'8,)',)*?'';,',)*')..,1-'1',)1;5),'
2',)*'%/6.,'>*2,;-A7*.=*>6// '.)18.',)6,' *.?'1-'
D*/*'2'6' *-.126/410'6=6-,'-1?')-.,62, '5+*.'
86'.,*60/'D*1-*',)*'6..6;/,'1'62,)*.?'620'
1., +.?' 1'-1D;.,' 6,)')6.'*+*-'g=-;25'1;,'1'
.?' ().10>6//*0'.=-,;6/.,>'8-,*-.'1'-62>*'
)6+*'>12,*20*0'21D/'M*'5' 1;.2'6..*,'620'1,)^
-.X'656 2.,'<6,-6/.?'D;',)*'-',6.9'1';=)1/025'
()*.?'2' -62>*')6.'0*+1/+*0'218'6/?1.,'8)1//'
;=12')-., 62',)29*-.'
'.;>>2>,'6>>1;2,'1',)*' 25/.)'0*.,.'620',)*-'
=-2>=/*.'8//D*'1;20'2' 62'7/0*-,'; ' '
1'.*-?12'L†*>)/*-'?" '!" '=
'M Q X' *' 6/.1' */620'N ' ' 9
'M2*8'*0'D'0?120.'120' QN'Q+1X† 16>9'
'@ " ' ' '5 'M *-2' Q N' 'N+1/.'+1/' ',-*6,.'1',)*' 25/.)' *.,.J'+1/' '1',)*'
-*2>)' -**,) 29*-.J'+1/' '1',)*' 4*-?62' 2^
/5),*2?*2,JX†'N - 1 '# ' '@ '-" "'
MSL' QSN'Q+1†-*=;D' 1.,12' QSN' K?1X† :;-.,'
(' '5 ' >)6='L L† :65*2D6>)'#
'' 'g KNQ† 1-2*-'? " " ' '% !'-" '
'M QS X'=' Q † 0012'# % ' ' QS '
1?=6-*',)*'6-,>/*.'? #'† !
1-',)*'8-,*-.'656 2.,' *.?'.**' / '†
/ #9> !
, '6'26?'1',)*' ;=-*?* *25'-1?',)*'
6, 2' '410' ,'86.'1-5 26// '62'6D.,-6>,',*-?'
620',)*2>*',-62. *--*0',1'.52 2'6'>12>-*,*'.*2.*'
: ?'8)1?'81'>6/'& !
('<'($ ' ' ! 2',)*';.*'1',).'
=)-6.*'>12>*-2 25'1;-' 1-0'8*?*62',1'6..*-,',)6,'D*'
86.'`,)*'+*- 620'*,*-26/410%' ,'.'6'?1-*'=-1=*-'
L=-..12',)62'`,)*' '1')-.,'.2>*',).'/6,^
,*-'01*.'21,'2*>*..6-/'?=/'62 ,)25'?1-*'1'1;-'
1-0.'26,;-*',)62',)6,',86.' ('1-'1')*6+*2/'
1-5 2' 8)*-*6.',)*',*-?'`*, '>12,6 2.'2',),)*'
21, 12'1'*..*2, 6/410)*60' ()*1,)*-'*L=-*..12'
)18*+*-')6.'=-*+6/*0'12'6>>1;2,'1',)*'81-0'`*^
, ')6+25'>1?*',1'D*.1'>1?2/';.*0'6.',)*'>12^
>-*,*'2.,*60'1',)*'6D.,-6>,'.*2.*',1'0*21,*'6'0+2*'
B; !11' 0*2' " " 1' ' 1'.'+' *'
' 5 #'† (/ L-' ' 3

* 96-'M:*D' ' + ' HIG'6' " ',)-1;5)X'
,)*6,)*-'1' 1/1?12.';=;-+*X8' 2',)*'.*>120'-1 6/
0.,->,'M' 25.' +'RX' -1?'8)>)'=6..65*' ,'6==*6-.'
,)6,).'.'.12'8 .4 'M! " 7! XN† *=,' '&) %;
;/5' ; 8'86.',)*'-1 6/>1??..6-6,'1 >*-'2'
,)*'8*.,*-2'=6-,'1',)*') //C>1;2,-'1'B;06)'620' *2^
A6?2'))66/D?'620' *,).)*?*.)' ' ' 62,*' '
*'/6' < *226 .' **') ' . !
*/6 6)'M:*D' '+(' '" 'D " "'†
6/.1'2',)*'=-1/125*0' 1-?'' ')-12'
LL+' QT† B*-' dLL+' K'K†>1?=' - E g % ' 2C'
% ' ' 1-'+'KK† 6/.1',)*')1*2>62'26?*'& O =
%-, ' _;1,*0'-1?'<*2620*-'D'B1.*=);.'&%' ' Q'
620',)*'?10*?'26?*'410-* b41,,*.-* X',/'26?*'
1'.*+*-6/?*2%
' M *=,' &) +' -' M&% OO !(8 ()*')*60'1'
,)*',8*2, C,)-0'0+.12'1',)*'=-*.,/'1-0*-'2',)*'
6--625*?*2,'D' 6+0'M')-12' LL+' QX' % '
%
K' M *=,' & O 'N $ O !8' .12'1 'W)*?66)'
620'12*'1',)*'>1;-,*/.',1'8)1?'B*-*?6).'-.,'-1//
1'=-1=)*>'86.'-*60'MB*-' LLL+' KX†)*+6 2/'2^
,*->*0*0'1-',.'=-*.*-+6, 12'-1?',)*'/6?*.'M+*-' K X'
% ' S %
N' M *=,' 6d6-,%X ()*'=-15*2,1-'1-')*60'1'12*I1'
,)*'=6-,*.'1'*L/*.',)6,'-*,;-2*0',1'B*-;.6/*?'8,)'
U*-;DD6D*/'-1?'>*-,6 2'=6-,.'1',)*' .. -62'01?2^
12.'D;,'8)1'D60'/1.',),)*-'5*2*6/15>6/-*>1-0.'M [-6'
S †*)' + SKX' % 'SNS%
M *=,' & O !8' ()*'.12'1'<*)*,6D**/'620'6^
,)*-'1',)*')*?66)'8)1'>1;2.*//*0' *)*?6)',1'*.^
>6=*'2,1',)*' (*?=/*'-1?',)*',)*-*6,.'1'62D6//6,'
M *)' + ' X' % 62,*' %
M *=,' d66'+'-'6d-,>,,6%X 2*1',)*'.12.'1'
/1*26'6'0*.>*2062,'1',)*'-1 6/2*1'B;06)'-1?'
U*-;DD6D*/M')-12' 'K'8)*-*')18*+*†',)*'26?*'
.' 25/>[*0' 3' :*'=-1D6D/'D*/125.',1',)*'
,*2,)'5*2*-6, 12'D*1-*')-.,'M.**' ,-125.' #
'6 % ' '" '?' % '=' X' % '>-' XLL!
/62> ' " ' % ' % '.)1='
1',)*' -1,*.,62,' =.>1=6/);->)'2',)*'0 1>*.*'1'
&*.,*-2' *8' 1-9'86.'D1?'2'&*.,>)*.,*-' _;,'
' M ' >,' Q R † 5-60;6,*0'6,' 6/*' 1//*5*' 2' Q '
620'86.'1-0 2*0'0*6>12' 2' Q R' : .' -.,'?2.,*^
- 6/'/6D1-'86.'5+*2',1'4-6>*');->)' *8' 1-9'1'
8)>)')*'86.' 2' >)6-5*' 0;-25',)*'+6>62> '1',D*'
-*>,1-.)='8)>)'=-*>*0*0',)6,'1',D*' *+' -' & 6 2C'
8-5),' :*',)*2'1 >6,*0' 1-'6'.)1-,',)*' 2',)*'
2*8/C1-562 [*0'=6-.)'1' ,'()1?6..'<6?6-12*>9'
: 6+25'D**2'60+62>*0',1',)*'=-*.,)110'12'<6->)'S'
QKK'2'(-2,');->)' *8' 1-9')*'-*?1+*0',1',)*'
>,'1')/60*/=)6'8)*-*')*'D*>6?*'62'6..,62,'
?2.,*-'1',)*';2,*0'>);->)*.'1')-.,');->)' ,'
,-.'620' ,'B6?*..'1'8)>)'D.)1=' &),*'86.'
,)*2'-*>,1-' 2' QKQ)*'86.'6==1 2,*0' -1+1.,'1',)*'
$2+*-.,'1' *22./+62 6' 2' QNN)*'D*>6?*'6.^
..,62,'?2.,*-'1' ,' *,*-.');->)'1')/60*/=)6'
620'2' QN'-*>,1-' &)*2',)*'0 1>*.*'1' *8' 1-9'
86.'0+0*0'2' QNQ' -' */62>* '86.'*/*>,*0',)*' -.,'
D.)1=''1',)*'2*8'0 1>*.*'1'&*.,*-2' *8' 1-9'
>12.*>-6, 12',119'=/6>*'12'<6'R QNR' 3 2' Q K)1'
+.,*0' 25/620'6.'6'0*/*56,*',1',)*' 25/.)'.)^
1=' -' */62>* '86.'0/5*2,'.9/;/'620'.;>>*.;/'
:*'2.,;,*0'6'.,*?'1'0 1>*.62'?..12.';,,6 2*0'
,1',)*'=-*.*2,',?*'8,)1;,' 2>;--25'0*D,' 2' Q '
D')..'-*>1?2*?206, 12'6' ;20'1-',)*'-*/*'1'2-?'
620'65*0'>/*-5'1',)*'0 1>*.*'86.'*.,6D/.)*0%
/62 '+ '62'?2*2,'-.)'>/*-5?62'
86.'D1-2'2',)*'*6-' SQS'620'86.'*0;>6,*0'6,'(-2C'
,'1//*5*' ;D/2' 2' K'/1-0' 6-,*-',-6..*0')277
,1',)*')62>*//1-.)='1')-.,');->)' : *'0.,†
5; .)*0')?.*/'D',)*'=;D/>6, 12'1',)*' -.,

6-,)' ,1' 0. ,-1 ' 6// /*.) ' C8)*-* 2' .' ,) *' D-*6,) ' 1 '/ * ' -1?' ; 20*-') *6+*2T 620' *+*-A7,) 25' ,) 6,' .' 2' ,) *' *6-,)' .)6// 0 *%J' ()*' 6-9' ,) ; .' >1? ? ..-12*0' 86.' ./18/ ' =-*=6-*0' D ' 16)% *** ! ,'/*25,) ' 2' ,) *' . L') ; 20-*0,)' *6-' 1 ') .' 65*' ,) *' 6-9' 86.' 2^ .)*0' 620' 6 /' ,.' / + 25' -* 5),' 86.' 56,)*-*0' 2,1' ,'6.' 2' 6' =/6>*' 1 ' .6 *, % B*)1+6)' .) ; ,') ?' 2' .6 .',) *' >)-12 >/*-' .=*69 25' 1 ' 16)% 20',) *2',) *-*' *2. ; *0' 6' .1/* ?2' =6 ; . *' ' .*+*2' 06 .' D* 1-*' ,) *' ,)-*6,*2*0' 0*. ,-; >, 12' 86.' /*,'/11.*% ,'/6.,' ,) *' /110'>6? *T ,) *' 86,*-.' *-*' ;=12',) *' *6-,)% ()*' 26--6, +*' .' + + 0' 620' 1-> D/*' ,) 1 ; 5)' *2, -*/ ' 862, 25' 2' ,) 6,' .1-,' 1 ' 0*.>- =, 12' 8) >)' 2' 6' ?10*-2') .,1- 62' 1-' =1*,' 81;/0')6+*' 1>>; = *0',) *' /6-5*.' .=6>*% & *' .*** 21,) 25' 1 ' ,D* 0*6,) C.,-; 55/*T 8*') *6-' 21,' ,) *' >- ' 1 ' 0*. =6 -T 8*' 6-*' 21,' >6//*0' ; =12',1' 8 ,2*..' ,) *' -62, >' 6512 ' 1 ') ; .D620' 620' 8 *' 620' =6-*2,' 620' >) /0 ' 6.' ,) * ' /*0' 2' ,*--1-' D* 1-*' ,) *' - . 25' 86,*-.% 1-' .' 6' 81-0' .6 0' 1 ' ,) *' .602*..' 1 ',) *' 12*' - 5),*1 ; .' ? 62' 8) 1 ' .6 *') ?^ .*/ ' /119*0' ; =12' ,) *' 0*. ,-; >, 12' 8) >)') *' >D ; /0' 21,' 6+*-,% ; ,' 12*' ?=-*.. 12' .' /* ,' ; =12',D*' ? 20' 8 ,)' =*>; / 6-' + + 02*..' -1 ?',) *' +*-' . ?=/ > , ' 1 ',) *' 26--6, +*' 620' ,' .',) 6,&1 ' ; ,,*-' 0*.1/6, 12% () .' .')* 5),*2*0' D ',) *' >12,-6.,' 620' -*=*, , 12' 1 ',) *' ,81' 0*6.% 2',) *' 12*')620' 8*' 6-*' -*? 20*0' 21' /*..',) 62' . L' , ?*.' 2',) *' 26--6, +*' 2' >)6=. ' + ' + ' + ' 8) 1' ,) *' ,*262,.' 1 ',) *' 6-9' 8*-*' M+ ' QCK T' + ' CN' CR' NC ST' + ' S' ' Q' RX' ,) *' 6+1-*0' 620' -*.>; *0' *8T 620' 12' ,) *' 1,) *-') 620' ,) *' ,1,6/' 620' 6D.1/ ; ,*' D/1,, 25' 12,' 1 ' *+*- ,) 25' */.*' .' 21,'/*..' *?=)6, >6// ' 08*/,' ; =12' M+ ' N RHT' + ' ' K CKNX% () .' *+ 0*2,/ ' 0*. 52*0' >12,-6.,' ?6 ' *.=*> 6// ' D* ,-6>*0' 2' >)6= + % -.,' 8*' -*60' 2' +1-% S' 20' 16)' 86.' . L' 2' -?*2 6 ' D ; ,' 12/ ' 2' ,) *' +6//* .' 12' ,) *' .1 ; ,)' . 0*') ; 20-*0' *6-.' 1/0' 8) *2' ,) *' /110' C>6?* ' 786,*-.' ; =12' ,) *' *6-,) % J' ()*2' 1//18.' 62' 6>>1 ; 2,' 1 ' 16)' 620') .' 6? / ' 620' ,) *' 62 ?6/.' *2,*- 25' 2,1' ,) *' 6-9% *L,' +*-.*.' C K' -*.; ?*' ,) *' .; DA*>,' 1 ' +*-% a' 20' ,' >6?*' ,1' =6..' 6 ,*-' .*+*2' 06E.' ,) 6,' ,) *' 86,*-.' 1 ',D*' /110' 8*-*' ; =12',) *' *6-,) % 2',) *' . L') ; 20-*0,)' *6-' 1 ' 16) ./' *' 2',) *' .*>120' ?12,) ' 12',) *' .*+*2,**2,) ' 06 ' 1 ',) *' ?12,) ' 12',) *' .*/ .6?*' 06 ' 8*-*' 6//',) *' 1 ; 2,6 2.' 1 ',) *' 5-*6,' 0**=' D-19*2' ; =' 620',) *' 8 2^ 018.' M1-' /11056,*.X 1 ') *6+*2' 8*-*' 1=*2*0' 20',) *' -6 2' 86.' ; =12',) *' *6-,)' 1-, '06 .' 620' 1-, '2 5),.%J 56 2',) *' 26--6, +*' -*, ; -2.',1' 16)' 620') .' >1?=62 12.' 620',) *' -' .6 */ ' 2',D*' 6-9' M+*-% NC SX% 20',) *2' 2' +*-% ' ,) *' 81-0.' 1 ' +*-% K' 6-*' -*. ; ?*0' 620' -1?',) *2>*',1',) *' *20' 1 ',) *' >)6=,*-' 6' +*-A7' . ?=/*' D ; ,' +*- ' =18*- ; /' 620' ?^ =-*.. +*'0*.>- =, 12' .' 5 +*2' 1 ',) *' 6==6/^ / 25' >6,6.,-1=) *a' 20',) *' /110' 86.' 1-, '06 .' ; =12',) *' *6-,/' 620',) *' 86^ ,*-.' 2>-*6.*0' 620' D6-*' ; =',D*' 6-9' 620',' 86.' / .' ; =' -1?' 1 ',) *' *6-,) % 20',) *' 86,*-.' =-*+6 /*0' 620' 2>-*6.*0' *L>**0 25^ / ' ; =12',) *' *6-,) a' 620',) *' 6-9' 8*2,' 12',) *' 6>*' 1 ',) *' 86,*-.% 20',) *' 86,*-.' =-*+6 /*0' +*- ' *L>**0 25/ ' ; =12',) *' *6-,) ' 620' 6// ,) *') 5)' ?1 ; 2,6 2.' 8) >)' \8*-*%' ; 20*-',) *' 8) 1/*') *6+*2' 8*-*' >1+*-*0% ^ ,**2' >; D ,' ; =86-0.' 0 0',) *' 86,*-.' =-*+6 /' 620',) *' ?1 ; 2,6 2.' 8*-*' >1+*-*0% 20' 6// /*.)' 0 *0' 8) >)' ?1+*,)' ; =12',) *' *6-,) ' 1 ' 18/' 620' 1 '>6,,/*' 620' 1 ' 8 /0' D*6.,. ' 620' 1 ' *+*- '>-**= 25',) 25' 8) >)' >-**=(' *,)' ; =12',) *' *6-,) ' 620' *+*- ' ?62% // 2' 8) 1.*' 21.-/.' 86.' ,) *' D-*6,) ' 1 '/ * ' 1 ' 6//,) 6,' 86.' 2',) *' 0- '/620' 0 *0/ 20' *+*- ' . ; D.,62>*' 8) >)' 86.' 12' ,) *' 6>*' 1 ',) *' 5-1 ; 20' 86.' D/1,,*0' 1 ; ,' 6.' 8*// ?62' 6.' >6,,/*' 620' >-**= 25',) 25' 620' 18/1 ',) *') *6+*2T ,) * ' 8*-*' D/1,,*0' 1 ; ,' -1?',) *' *6-,) ' 620' 16)' 12/ ' 86.' /* ,' 620',) * ' ,) 6,' 8*-*' 8 ,) ') ?' 2' ,) *' 6-9% 20',) *' 86,*-.' =-*+6 /*0' 12' ,) *' *6-,) ' 6') ; 20-*0' 620' ,' 06 .%J' ()*' 86,*-.' 1 ',) *' /110' 2>-*6.*0' 1-' 6' =*^ - 10' 1 ' R ' 06 .' M m ' >1?=6- 25' + ' K' 620' K X' 20',) *2' 410'-*?*?D*-*0' 16) J' 620' ?60*' 6' 8 20' ,1' =6..' 1+*-',) *' *6-,) ' .1',) 6,',) *' 86,*-.' 8*-*' 6..; 65*0% ' ()*' 6-9' -*.,*0' 12',) *' .*+*2,**2,) ' 06 ' 1 ',) *' .*+*2,)

?12,)' 12',) *' ?1 ; 2,6 2.' 1 ' -6-6,% ,*-' ,) .',) *' 86,*-.' 5-60 ; 6// ' 0*>-*6.*0',//',D*' -.,' 06 ' 1 ',) *' ,*2,)' ?12,) ' 8) *2',) *' ,1=.' 1 ',) *' ?1 ; 2,6 2.' 8*-*' .**2% ,' 86.',) *2',) 6,' 16)' .*2,' 1-,) ' -.,',) *' -6^ +*2 ' 8) >)' ,*8') ,) *-' 620',) ,) *-' -*., 25' =-1D6D/ ' 12' ,) *' ?1 ; 2,6 2C,1=. ' D ; ,' 21,' -*, ; -2 25',1',) *' 6-9T 620' 27L,' MH' 6 ,*-' 62' 2,*-+6/' 1 ' .*+*2' 06 .T >1?=% +*-% f X',) *' 01+*' ',1' .**' ',) *' 86,*-.' 8*-*' 6D6,*0' -1?' ,) *' 5-1 ; 20J' M %*%',) *'/18*-' =/6 2' >1 ; 2,- X% ' ; ,',) *' 01+* J' ,' .' D*6 ; , ; // ' .6 0' 1 ; 20' 21' -*.,' 1-' ,D*' .1/*' 1 ') *-' 11,' 620' .) *' -*, ; -2*0' ; 2,1') ?' 2,1',) *' 6-9%J ,*-' 86, 25' 1-' 621,) *-' .*+*2' 06 .') *' 656 2' .*2,' 1-,)',) *' 01+*' 8) >)' -*, ; -2*0',) .' , ?*' 18,)' 6' -*.,)' MHhB7X' 1/ + k /*6' 2') *-' ?1 ; ,) ' 6' . 52',) 6,',) *' 86,*-.' 8*-*' ., // /18*-% 2>*' ?1-*' 6 ,*-' 621,) *-' 2^ ,*-+6/' 1 ' .*+*2' 06 .') *' .*2,' 1-,)',) *' 01+*' 620' .)*' -*, ; -2*0' 21,' 656 2' ; 2,1') ?' 62 ' ?1-* J')6+ 25' 1 ; 20' 6') 1?*' 1-') *-.*/ ' ; =12',) *' *6-,) % I' 1' = >, ; -*' 2' 26, ; -6/) ,1- ' 86.' A*+*-' 0-6 8 2' 8 ,)' ?1-*' *L_ ; . ,*' D*6 ; , ' 620' 0*/, ',) 62',) .d ,' .' 60?-6D/*' 6/ 9*' 1-' ,.' =1*,-' 620' ,.', -; ,) % *.=*>, 25',81' =1 2,.' 8*' ?6 ') *-*' -*?6-9' M X',) 6,',) *' -6+*2' 86.' .; ==1.*0',1' 1-*,*//' >) 625*.' 2',) *' 8*6,) *-' D1,) ' " ' ,.' / 5),' 620',.' >-' M7/ 62 ' \Rf &!' + ' T' -5% ? ' ' QK' X% >>1-0 25',1' B*8 .)',-60 , 12',) *' -6+*2' 86.'=-*.*-+*0' 2',) *' 6-9' 2' 1-0*-',1' D*') *' =-15*2 ,1-' 1 ',) *' D -0.' 8) >)' 6 ,*-86-0.' *0' /A6)' D ',) *' D-119') *-.,) % MKX' ()*' 1/ +*C,-*' .' 62' *+*-5-**2' 620' .**?.',1') 6+*',) *' =18*-' 1 '/ + 25' ; 20*-' 86,*-' 6>>1-0 25',1' ()*1=)-6.^ ,; .' ' + ' QX' 620' / 2 ' I#!' 7 !' L ' X' 8) 1' ?*2, 12' 1/ +*C,-**.' 2',) *' *0' *6% ()*' 1/ +*' 5-18.' RK X%

>>1-0 25',1' 6' >6-* ; /' 60A ; .,? *2,' 1 ',) *' >)-121/15 ' 1 ',) *' : *D-*8' D/*' ,) *' 16>) 62' 0*/ ; 5*' 6==*6-.',1') 6+*' 1>>; --*0' MD*5 ; 2X' 2',) *' A *6-' -1?',) *' >-*6, 12' 1 ' 06?' S ' 620' D* 1-*') -.,' K S% ' >12, 2 ; *0' ,8*/+*' / ; 26-' ?12,) .' 620',*2' 06 .' 1-' *L6>,/ ' 12*' .1^ /6-' *6-' M -182*' , '$ 1' =% NK' .,%X' ,' .',) *' 1//18 25',6D ; /6-' *L) D ,' 1 ',) *' 2> 0*2,.' 8 /' .) 18a

< 12,) % 6 % 2,*-+6/% +*2,6% o 4*2*. .%

:' M 1+HX MB1? ; 6 ; 0' ,1' *2,*-' ,D*' 6 9% + ' C % S06 .% ()*-6 2' D*5 2.% F' C S %

? ' M *>HX K N' F ()*-* 2' >*6.*. ' ,) *' 86,*-.' =-*+6 /% ' / CK % Q O ()*6-9' 5-1 ; 20.' 12' -6-6,% + C % N (1= ' 1 ' ,) *' ?1 ; 2,6 2.' + . D/*% %

d' MB ; /' X d' M' ; 5HX QB `` 6+*2' 620' 01+*' *2' 1 ; ,% SC % S 1+*' 656 2' .*2' 1 ; ,% %

KN S F 1+*' .*2,' 1 ; ,' ,) *') ,-0' ,?*% ' K% N ()*5-1 ; 20' D*>1?*' 0- % ' N% :' M 1+HX K % S 16)' /*6+*.',) *' 6-9% ' C R%

6 ; ,) 1- , ' ,1' ,) *') ..1- >6/ , - ; ,) ' 1 ' ,) *' 26--6, + * ' < 6, , ' . L + ' Q ' M>1 ? = % ; 9*' L + ' KSX ' 0 *>/6- 25' ,) 6, ' ,) *' . ,6, *' 1 ' ,) *' 7+1-/0' 6, ') . ' . *>120' >1 ? 25' .) 6// D** . ; >) ' 6 . ' , ' 86. ' 2' ,) *' 06 . ' 1 ' 16) % * , *-' 7*69. ' 1 ' ,) *' '/125' . ; *- 25' 1 ' 410 J' 8) >) ' ' 86 , *0' 2' ,) *' 06 . ' 1 ' 16) ' 8) /*' ,) *' 6-9' 86. ' 6' =-*=6- 25 ' 8) *-* 2' *8 ' ,) 6, ' . ' * 5) , ' .1 ; /. ' 8 *-*' .6+*0' D ' 86, *- J' 620' . **. ' 2' ,) *' 86^ , *-. ' 1 ' ,) *' /110' D ' 8) >) ' ,) *' 6-9' 86. ' D1-2*' ; =' 6' , =*' 1 ' D6=, . ? ' D ' 8) >) ' ,) *') ; ->) ' . ' . *=6-6, *0' -1 ? ' ,) *' 81-/0% 56 2 ' 2') . ' . *>120' = . , /*' M ' SX ') *' > , *. ' , ' 6. ' 62' 2. . ,62>*' 1 ' ,) *' - 5) , *1 ; ' A ; 05 ? *2, ' 1 ' 410 ' 8) 1' .=6-*0' 21, ' ,) *' 1/0' 81-/0 ' *, >%

% ' - ! ' ( ) *' /*5*20. ' 1 ' ? 62 ' 26, 12. ') 6+*' =-*. *-+*0' ,) *' ? * ? 1- ' 1 '6' 5-*6, ' 620' 0 *. , -; >, +*' /110' -1 ? ' 8) >) ' D ; , '6' . ? 6// =6-, ' 1 ' ? 629 20' *. >6=*0% ' . ' 21, ' 6/86 . ' +*- ' >/*6-' 8) *,) *-' ,) * ' =1 2, ' D6>9' , 1' 6' >1 ? ? 12' >*2, -*' 8) *2>*' ,) * ' 8 *-*' >6-- *0' D ' ,) *' 0 ^ *-*2, ' 6 ? / *. ' 1 ' ? *2' 6. ' ,) * ' 8620*-*0' *6. , ' 620' 8 *. , ' 1-' 8) *,) *-' ,) * ' 8 *-*' 1 '26, 126/ 5-18,) ' 620' * ? D10 ' ? *-*/ ' -*>1-0. ' 1 ' >6, 6. , -1=) *. ' . ; >) ' 6. ' *. =*> 6// ' 2' ? 1 ; 2, 6 21 ; . ' >1 ; 2, - *. ' 6-*' 1 '21A6-*' 1>>; --*2>*% 2' . 1 ? *' 2. , 62>*. ') 1' 01 ; D, ' ,) *' -*. * ? D/62>*. ' D*, 8 **2' ,) *') *6,) *2' 620' ,) *' B*8 .) ' . , 1- *. ' 6-7' . 1' . , - 9 25' 6. ' , 1' -*20*-' , ' ? 1-6// ' >*-, 6 2' ,) 6, ' ,) *' 1-? *-' 8 *-*' D1-^ -18*0' -1 ? ' ,) *' /6, , *-% & *' 20' 20**0' 6' ? ,) 1/15^ >6/ */* ? *2, ' ,) *' 6D. *2>*' 1 ' 6// ? 1-6/ = ; -=1. * ' 620' 6' 26, 126/ 620' /1>6/ I' >1/1- 25' D ; , ' 0 .>*-2 D/*' 6 ? 125' ,) *. * ' ; 201 ; D, *0' *6, ; -*. ' 1 ' ,) *' =- ? , +*') . , 1- % ( ) *' 6>>1 ; 2, ' 1 ' ,) *' /110' 2' ,) *' 1-62' . ' 6=AX6-*2, / ' 0-682' =6-, / ' -1 ? ' D/ >7' 620' =6-, / ' -1 ? ' *-. 62' .1 ; -> *. % 2' ,) *' ? 6 2 ' 21' 01 ; D, ' , ' 1//18. ' ,) *' 26--6^ , +*' 2' 4 *2*. . ' D ; , ' 08 *//. ' 6, ' / *25,) ' 12' ,) *' , *. , ? 12 ' 1 ' 16) ' , 1' ,) *' ; 2D*/ * + 25' M 6/* . ') 1' >) 6= ' L ' =% Q X% : *' . ' . 6 0' , 1') 6+*' , 6-- *0' 6 ? 125') . ' =*1=/*' 12*' ,) 1 ; . 620' . 6+*' , ' *6-. ' M>) 6= ' LL L ' =% NK X% ( ) *' =*1=/*' .>1 *0' 6, ' 620' 0*- 0*0') ? ' 620' ' ,) ; . ' 8*-*' ,) * ' *?=/1 *0' ; 2, / 1 ; -' . *2, *2>*' 86. ' =; , ' 2' *L*>; C , 12 620' ,) *' 1+*2' =1 ; -*0' 1-,) ' 86, *-%J' *-*2, ' *L^ =/626, 12. ' 6) 6+*' D***2' 5 +*2' 1 ' ,) . ' 1+*2 ' 8) >) ' ?6E ' D*' . **2' 2' 6/* . ' 21, *% : *' . ; 55*. , . ' M6 , *-' : 0*' ' ' ; ! !8' ,) 6, ' ,) . ' 0*6' 86. ' D1--18*0' -1 ? ' ,) *' *-^ . 62' N 65 ' 8) 1' 6/. 1' 62> *0' ,) 6, ' ,) *' -. , ' 86, *-. ' 1 ' ,) *' */ ; 5*' 5; .) *0' 1 ; ' 1 ' ,) *' 1+*2' 1 ' 6' >*-, 6 2' 1/0' 81?^ 62' 26 ? *0' U6/6' ; 6% ; ' ,) *' ' M1+*2X ') *' 1D^ . *-+*. ' ?6 C ? *62' 12/ ' 6' -*>*=, 6>/*' 2' 8) >) ' 86, *-. ' 6-*' 56,) *-*0 ' 1-' ,) *' . . ; -*' -1 ? ' 8) >) ' ,) * ' D-19*' 1-,) % 21,) *-' =*>; / 6-, ' 1 ' ,) . ' +*-. 12' . ' ,) 6, ' 16) ' >6// . ' 2' +6 2', 1' 12*' 1 ') . ' .12. ' , 1' *2, *-' 2, 1',) *' 6-9 d) *' -* ; . *. ' 2' ,) *') 1=*' 1 ' *. >6= 25', 1' 6' ? 1 ; 2^ , 6 2 ' 620' . ' 0-182*0' D* 1-*') . ' 6,) *- . ' * *. % ( ) *' 6-9 ' ? 1-*1+*-' . ' .6 0', 1') 6+*' -*. , *0' 12',) *' ? 1 ; 2, 6 2' f A ; 0 ' 8) >) ' 6/*' . ; ==1. *. ' .) 1 ; /0' D*' 8 - , , *2' B1-0 ' 1-' 4 1-0 ' 620' >122*>, . ' 8 ,) ' ,) *' 41-0 >* ' 6-0 ; ' *, >% 1-' ; -0' < 1 ; 2, 6 2. ' 12' ,) *' D1-0*-. ' 1 ' -? *2 6' 620' < *. 1=1, 6 ? 6' M>) % L ' =% Q C QN ' 620' (8f **' L ! % ( ) *' , -60 , 12. ' 8) >) ' D1-2*' 2*6-*. ' , 1' ,) *' >6/ 6>>1 ; 2, ' 6-*' ,) 1. *' 1 ' ,) *' 26, 12. ' 1 ' & *. , *-2' . 6% 620' =6-, / ' =*-) 6=. ' -1 ? ' . 1 ? *' 6D /12 62' ., 1- % 2' 1-*? 1., 6 ? 125' ,) *. *' . ' ,) *') 6/0. *62% ' . ' =-*^ . *-+*0' 2I' 6' -65 ? *2, ' 1 ' *-1. ; . ' 620' . ' 6. ' 1/18. ' a ' , *-' ,) *' 0*6,) ' 1 ' -06, *. ') . ' .12' d . ; .) -; . ' -* 52^ *0' * 5), **2' .6- % 2') . ' , ? *') 6==*2*0' 6' 5-*6, ' */^ ; 5*' ,) *') . , 1- ' 1 ' 8) >) ' . ' ,) ; . ' 0*. >- D*0 d ( ) *' * , ' -120. ' 6==*6-*0' , 1') ?' 2' 6' + . 12 ' 620' 86-2*0') ?' ,) 6, ' 12' ,) *' ,) ' 06 ' 1 ' ,) *' ? 12,) ' 6. ; . ' ,) *-S' 81 ; /0' D*' 6' /110' D ' 8) >) ' ? 629 20' 81 ; /0' D*' 0*. , -1 *O% : *' ,) *-* 1-*' *2A1 2*0') ?' , 1' 8 - , *' 6') . , 1- ' 1 ' ,) *' D*5 2^ 2 25 ' >1 ; -. ' 620' *20' 1 ' 6// ,) 620' 1' D ; - ' 1 ' 2' ,) *' , ' 1 ' ,) *' ; 2' 6, ' ==6-6 1' 620', 1' D ; /0' 6' +*. . */ MM >6 1>X ' 620', 1', 69*' 8 ,) ') ?' 2, 1' , ') . ' - *20. ' 620' -*/6, +*. ' 1' 620', 1' = ; , ' 12' D16-0' 110' 620' 0- 29 ' , 15*,) ^ *-' 8 ,) ' 0 *-*2, ' 62 ?6/. ' D -0. ' 620' _ ; 60- ; = *0. ' 1' ?620' 1' 6. ' .112' 6. ') *') 60' ?60*' 6// 6--625* ? *2, . ' , 1' >1 ? ? , ') ? . */ ' , 1' ,) *' 0**=% : 6+ 25' 6. 9*0' ,) *' * , ' 8) ,) *-') *' 86. ' , 1' . 6 / ') *' 86. ' 62. 8*-*0 ' ' (1',) *' 510. ' 6 , *-') 6+ 25' 1 ' ?629 27% I' &) *-* ; =12 ' 21, ' D* 25' 0 .1D*0 *2, ' M, 1' ,) *') *6+*2/

+ . 12X ') *' D ; /, ' 6' +*. . */ +*' ., 60 6' 2' /*25,) ' 620', 81' 2' D-*60,) % 2, 1',) . ') *' = ; , ' *+*- ,) 25' 8) >) ') *') 60' =-*=6-*0 ' 620' *? D6-9*0' 2' , ') . ' 8 *') . ' >) 0 ' 620') . ' =*-. 126/ - *20. % , *-' ,) *' /110') 60' D**2' ; =12',) *' *6-,) ' 620' 86. ' 2' , ? *' 6D6, *0 ' d . ; ,) -; . ' . *2, ' 1 ; ' . 1 ? *' D -0. ' -1 ? ' ,) *' +*. . */ ' 8) >) ' 21, ' 20 25' 62 ' 110' 21-' 62 ' =/6>*' 8) *-*' ,) * ' >12/0' -*. , ' -*, ; -2*0' ,) ,) *-% ,*-. ' 62' 2, *-+6/ 1 ' . 1 ? *' 06 . ' d . ; ,) -; . ' . *2, ' 1 ; ' , ,) *' D -0. ' 6' . *>120', ? *' 620' 218' " '-*, ; -2^ *0' , 1' ,) *' .) =' 8 ,) ' ? ; 0' 12',) * -' **, % ' ,) -0', ? *' %) *' -*=*6, *0' ,) *' *L=*- . ? *2, ' 620',) *' 2' ,) * ' -*, ; -2*0' 21' ? 1-*' 8) *2>*' d . ; ,) -; . ' A ; 05 ? *0',) 6, ' ,) *' *6-,) ' 86. ' + . D/*' 6D1+*' ,) *' 86, *-. ' 620' 6>>1-0 25/ ') *' ? 60*' 62' 1=*2 25' 2' ,) *' +*. . */ MHX ' 620 ' . ** 25',) 6, ' , ' 86. ' . , -620^ *0' ; =12',) *' . , *' 1 ' 6' >*-, 6 2' ? 1 ; 2, 6 2') *' _ ; . , *0' , 8 ,) ') . ' 8 *' 620' 06 ; 5), *-' 620' ,) *' = /1, % : 6+ 25' ,) *2' =6 0') . ' 601 ? , 12', 1',) *' *6-,) ' 620') 6+ 25' D ; /, ' 62' 6/, 6-' 620' 1 *-*0' .6>- >*. ' , 1' ,) *' 510. ') *' , 15*,) *-' 8 ,) ' ,) 1. *' 8) 1') 60' /* , ' ,) *' +*. . */ 8 ,) ') ? ' 0 .6=^ =*6-*0% ( ) 1. *' 8) 1') 60' -*? 6 2*0' D*) 20 ' 8) *2' ,) * ' 1 ; 20' ,) 6, ' d . ; ,) -; . ' 620' D . ' >1 ? =62 12. ' 0 0' 21, ' -*^ , ; -2 ' 2' ,) * -' , ; -2' /* , ' ,) *' +*. . */ 620' D*562', 1' /119' 1-') ? ' >6// 25') ?' D ' D . ' 26 ? *% : ?' ,) * ' .68' 21' ? 1-*' D ; , ' 6' +1 >*' >6 ? *', 1' ,) * ? ' -1 ? ') *6+*2 ' D 00 25' ,) * ?' /*60' = 1 ; . ' / +*. ' 620' .1' A1 2') ?' 8) 1' 86. ' 512*' , 1' / +*' 8 ,) ' ,) *' 510. ' 620' ; -,) *-' 2 1-? 25' ,) * ?' ,) 6, ') . ' 8 *') . ' 06 ; 5), *-' 620' ,) *' = /1, ') 60' .) 6-*0' ,) *' ; 201 ; D, *0' *6, ; -*. ' 1 ' ,) *' =- ? , +*') . , 1- % ( ) *' 6>>1 ; 2, ' 1 ' ,) *' /110' 2' ,) *' 1-62' . ' 6=AX6-*2, / ' 0-682' =6-, / ' -1 ? ' D/ >7' 620' =6-, / ' -1 ? ' *-. 62' .1 ; -> *. % 2' ,) *' ? 6 2 ' 21' 01 ; D, ' , ' 1//18. ' ,) *' 26--6^ , +*' 2' 4 *2*. . ' D ; , ' 08 *//. ' 6, ' / *25,) ' 12' ,) *' , *. , ? 12 ' 1 ' 16) ' , 1' ,) *' ; 2D*/ * + 25' M 6/* . ') 1' >) 6= ' L ' =% Q X% : *' . ' . 6 0' , 1') 6+*' , 6-- *0' 6 ? 125') . ' =*1=/*' 12*' ,) 1 ; . 620' . 6+*' , ' *6-. ' M>) 6= ' LL L ' =% NK X% ( ) *' =*1=/*' .>1 *0' 6, ' 620' 0*- 0*0') ? ' 620' ' ,) ; . ' 8*-*' ,) * ' *?=/1 *0' ; 2, / 1 ; -' . *2, *2>*' 86. ' =; , ' 2' *L*>; C , 12 620' ,) *' 1+*2' =1 ; -*0' 1-,) ' 86, *-%J' *-*2, ' *L^ =/626, 12. ' 6) 6+*' D***2' 5 +*2' 1 ' ,) . ' 1+*2 ' 8) >) ' ?6E ' D*' . **2' 2' 6/* . ' 21, *% : *' . ; 55*. , . ' M6 , *-' : 0*' ' ' ; ! !8' ,) 6, ' ,) . ' 0*6' 86. ' D1--18*0' -1 ? ' ,) *' *-^ . 62' N 65 ' 8) 1' 6/. 1' 62> *0' ,) 6, ' ,) *' -. , ' 86, *-. ' 1 ' ,) *' */ ; 5*' 5; .) *0' 1 ; ' 1 ' ,) *' 1+*2' 1 ' 6' >*-, 6 2' 1/0' 81?^ 62' 26 ? *0' U6/6' ; 6% ; ' ,) *' ' M1+*2X ') *' 1D^ . *-+*. ' ?6 C ? *62' 12/ ' 6' -*>*=, 6>/*' 2' 8) >) ' 86, *-. ' 6-*' 56,) *-*0 ' 1-' ,) *' . . ; -*' -1 ? ' 8) >) ' ,) * ' D-19*' 1-,) % 21,) *-' =*>; / 6-, ' 1 ' ,) . ' +*-. 12' . ' ,) 6, ' 16) ' >6// . ' 2' +6 2', 1' 12*' 1 ') . ' .12. ' , 1' *2, *-' 2, 1',) *' 6-9 d) *' -* ; . *. ' 2' ,) *') 1=*' 1 ' *. >6= 25', 1' 6' ? 1 ; 2^ , 6 2 ' 620' . ' 0-182*0' D* 1-*') . ' 6,) *- . ' * *. % ( ) *' 6-9 ' ? 1-*1+*-' . ' .6 0', 1') 6+*' -*. , *0' 12',) *' ? 1 ; 2, 6 2' f A ; 0 ' 8) >) ' 6/*' . ; ==1. *. ' .) 1 ; /0' D*' 8 - , , *2' B1-0 ' 1-' 4 1-0 ' 620' >122*>, . ' 8 ,) ' ,) *' 41-0 >* ' 6-0 ; ' *, >% 1-' ; -0' < 1 ; 2, 6 2. ' 12' ,) *' D1-0*-. ' 1 ' -? *2 6' 620' < *. 1=1, 6 ? 6' M>) % L ' =% Q C QN ' 620' (8f **' L ! % ( ) *' , -60 , 12. ' 8) >) ' D1-2*' 2*6-*. ' , 1' ,) *' >6/ 6>>1 ; 2, ' 6-*' ,) 1. *' 1 ' ,) *' 26, 12. ' 1 ' & *. , *-2' . 6% 620' =6-, / ' =*-) 6=. ' -1 ? ' . 1 ? *' 6D /12 62' ., 1- % 2' 1-*? 1., 6 ? 125' ,) *. *' . ' ,) *') 6/0. *62% ' . ' =-*^ . *-+*0' 2I' 6' -65 ? *2, ' 1 ' *-1. ; . ' 620' . ' 6. ' 1/18. ' a ' , *-' ,) *' 0*6,) ' 1 ' -06, *. ') . ' .12' d . ; .) -; . ' -* 52^ *0' * 5), **2' .6- % 2') . ' , ? *') 6==*2*0' 6' 5-*6, ' */^ ; 5*' ,) *') . , 1- ' 1 ' 8) >) ' . ' ,) ; . ' 0*. >- D*0 d ( ) *' * , ' -120. ' 6==*6-*0' , 1') ?' 2' 6' + . 12 ' 620' 86-2*0') ?' ,) 6, ' 12' ,) *' ,) ' 06 ' 1 ' ,) *' ? 12,) ' 6. ; . ' ,) *-S' 81 ; /0' D*' 6' /110' D ' 8) >) ' ? 629 20' 81 ; /0' D*' 0*. , -1 *O% : *' ,) *-* 1-*' *2A1 2*0') ?' , 1' 8 - , *' 6') . , 1- ' 1 ' ,) *' D*5 2^ 2 25 ' >1 ; -. ' 620' *20' 1 ' 6// ,) 620' 1' D ; - ' 1 ' 2' ,) *' , ' 1 ' ,) *' ; 2' 6, ' ==6-6 1' 620', 1' D ; /0' 6' +*. . */ MM >6 1>X ' 620', 1', 69*' 8 ,) ') ?' 2, 1' , ') . ' - *20. ' 620' -*/6, +*. ' 1' 620', 1' = ; , ' 12' D16-0' 110' 620' 0- 29 ' , 15*,) ^ *-' 8 ,) ' 0 *-*2, ' 62 ?6/. ' D -0. ' 620' _ ; 60- ; = *0. ' 1' ?620' 1' 6. ' .112' 6. ') *') 60' ?60*' 6// 6--625* ? *2, . ' , 1' >1 ? ? , ') ? . */ ' , 1' ,) *' 0**=% : 6+ 25' 6. 9*0' ,) *' * , ' 8) ,) *-') *' 86. ' , 1' . 6 / ') *' 86. ' 62. 8*-*0 ' ' (1',) *' 510. ' 6 , *-') 6+ 25' 1 ' ?629 27% I' &) *-* ; =12 ' 21, ' D* 25' 0 .1D*0 *2, ' M, 1' ,) *') *6+*2/

D6-9' 2*6-',)*' ?1;2,6 2' 1 ' 1/);6>62 ' IN ' =
2 ' ' N& 4 1' =% KS' KK X% '
=*>;/ 6- , ' 1 ' ?62 ' 1 ',)*.*' ?*- >62' 20 62',-60 ^
, 12.' ?6..',D*' 21,*0' 620',)6,' . 7 6,' ,)*' /110 '6>^
>1-0 25',1',)*? ' ; . ;6// ',119'=/6>*')',)*', ?*' 1 ',)*'
-.,' <62' 8)1 ',15*,)*-' 8 ,)') .' 6? / ' *.>6=*%
;,' < ;//*-' I& " ' 2 8 51*.',11' 6-'
8)*2')*'0-68.' -1?',) .',)*'>12>/;. 12',)6,',)*.*',-6^
0 , 12.'6-*'>12.* ;*2,/ '>1.?1512>'620')6+*' 21') .^
,1->6/ +6/;*% ()*' 6>',.**?.' -6,)*-',1' D*',)6,'6//
?*?1- '1',)*'65*'D*,8**2',)*' -*6, 12'620',)*' /110'
)60'=*- .)*0'620',)6,')*2>*',)*.*',81'5-*6,'+*+2,.'
8*-*' D-1;5),' 2,1' >/1.*'A;L,6=1. , 12% () .' .',)*'
/*..';2/9*/ '8)*2' 8*'.**')18'+*- '?*65-*'*+*2',)*'
D/ >6/).,1- '1',)6,'65*' .%
,'?6 '21,' D*' 6? .F')*-*',1' ?*2, 12',)*' /*5*20'
], // =-*.*-+*0'6?125',)*' 2)6D,62,.'1',)*' A' ./^
620.' 6/,)1;5)' 21,' D*/125 25',1',) .' 5-1;=% ()*'
.6 ',)6,' 6 ,*-',)*' ./620.')60'D**2' =*1=/*0'XX ',)*'
-.,'?62'620'81?62'6'5-*6,-6 2',119'=/6>*'D '8)>)'
,)*' 8*-*' 26// ' .;D?*-5*0'D;,' D* 1-*',)*') 5)*.,'
=/6>*.' 8*-*' >1+*-*0'D ',)*' 86,*-.',81'/6-5*'01;D/*'
>621*.'?60*',)* -'6==*6-62>*% 2' 12*1',)*.*' 86.'
191-6,)*'510'1 '>6-=*2,*-.!' 2',)*'1,)*-' 191/6A) .'
)*60'81-9?62'8)1'= >9*0';=' .1?*'1 ',)*'=*1=/*'620'
9*=,',)*?' 12' D16-0' ;2, /',)*' 86,*-.')60'.;D. 0*0'
6 ,*-'8) >)',)* '8*-*'656 2'/620*0'12',)*' ./620% ,'
.'-*=1-,*0',)6,' 2' 1-?*-', ?*.' >621*.' 8*-*'6/86 .'
9*=,' 2'-*60 2*..'656 2.,' 621,)*-' 2;206, 12% ()*'
=*-.12.',);.'.6+*0' * 5),' 2' 2;?D*-' 8*-*'/620*0'6,'
<D*256'8)*-*',)*')5)*.,' 1',)*-' 510.' .'.6 0',1'
)6+*'?60*') .' -.,'6==*6-62>*% '+-,;*'1',) .',-6^
0 , 12',)*'>) * .'1' <D*256',69*'-629'D* 1-*'6//1,)^
-.'620')6+'6/86 .'6>,*0'6'>12.=>;1;.'=6-,'6?125'
,)*' A .% ()*' .,/*',)*?.*/+*.'7 1 % & '
% '.;DA*>',,1' : *6+*2'6/12*J'M& /9*.'6 % '6 % =
7 %
2',)*'8 /0' >620 26+ 62' 006',)*'*6-,)' .'6//*51-^
[*0'6.',)*'5*-*6,'5 62,' ? -'8)1.'6+*0')?.*/'
6-*'-*=-*.*2,*0'D',)*'-1>9.'620'.1 /% () .'5 62,'86.'
9//*0'D',)*'510.'620') .'D/110'M,)*'1>*62X=1;-*0'
1-,)' 2'.;>)'6' /110',)6,',' 0-18_*0'6//',)*'/*..*-'5^
62,.'1 .=- 25 '*L>*=,'12*'8)1'.6+*0') ?.*/'
620') .'8 *'D '*.>6= 25' 2',?*',1') .'.) =%
% 4-**>*')6.',81'+*-.12.'1 6' 110'12*'6..1>6,*@8)>)'6 ,*-'-*A*>, 25'8)6,' .' 62> ;/'*21;5)'-*^
8 ,)' 5 5*.'ID '& !'6.'_;1,*0'D ' ;.*D% %!
6 'd'/1X'620',)*'1,)*-' 2'6' 6-'?1-*'*/6D1-6,*' 1-?'
8 ,)' *;>6/12% 1,)')18*+*-'6-*'1'/6,*'1-52''
,)*' 8*-*';2921822',1' : 1?*-' 620' : *. 10% :*-101^
,;.','),1;5)')*'?*2, 12.' *;>6/12'6.'12*'1',)*' -.,'
9 25.'1',)*' : *//*2*.' .6 ' 21,' 6' 81-0'6D1;,',)*'
`/110'M' SX% 206-'.',)*' -.,'8- ,*-'8)1'?*2, 12.'
,'I, %!' L'N'._%X% 2' =1//101-;.'M I V,1%' X%
620' +0'I '' KS X',)*'.,1-'6==*6-.' 2'6'?;>)'
?1-*'0* 2 ,*.)6=*% 26// ' ;> 62'5+*.'6'26-6^
,+*'I' ';' $ '>%NK NX' 21,'+*-' 0 *-*2,' -1?'
,)6,'1' +0'*L>*=',)6,')*'?69*.'=-1+.12'1-',)*'
.6 *,'1',)*'62?6/.'8)>)' +0'01*.'21,% :*'6,^
,-D;,*.',)*'2*>*.., '1-',)*' */;5*',1',)*'*L>**0 25'
8 >9*02*..'1',)*'*L.,25'-6>*'1'?*2'620'0*>/6-*.'
,)6,',)*'*6-,)'1=*2*0'620'.*2 - 1-,)'86,*-.',1'.86//18'
,)*?' ;='6.'8*// 6.',)6,')*6+ '-6 2' *// ;=12',)*?%
*;>6/12'6.',)*12*'-5),*1;.'?62'*.>6=*0'8,)')
8 +*.'620')/0-*2'620',)*'62?6/.')*')60'_P;,' 2,1'
,)*')*.,%d>*=+1A>6X'620'/620*0'6 ,*-'2 2*'06 .'620'
2 2*'2 5),..'12',)*',1=' 1 ' 6-26..;.'8)/*,)*')*'
=6-,'1' : *//6.'86.';;0*-'86,*-'620'2*6-/ '6//?*2'
=*- .)*0'*L>*=,'6' *8'8)1'-*6>)*0',)*',1=.'1',)*'
)5)*.,'?1;2,6 2.% /;,6->)'M>*'$ '& !'g NX
?*2, 12.',)*01+*'8)>)' *;>6/12'?60*';.*'1',1'6.^
>*-,6 2'8)*,)*-',)*' /110'86.'6D6,*0% <1.,'1',)*.*'
6>>1;2,.' ,'?;.,'D*'1D.*-+*0'/>6/[*',)*' /110'620'
>12 2*',,1'4-**>*'I'1-'.1?*'=6-,'1'4-**>*% -.,1,/*'
.=*69.'1'6'/1>6/ 2;206, 12'2*6-' 10126'12/'I =
I' ' X% ,'?;.,'6/.1'D*'>12*..*0',)6,',)*'/6,*-'
,)*'26--6,+*',)*'?1-'0* 2,*',)*' ,'6..;?*.'
620',)*'?1-*'2*6-/ ',',-*.*?D/*.',)*' <1.6>'6>>1;2,%

( ).'1/0'4-**9'/*5*20 1' *;>6/12'620' --)6'.'
,)*'D*.,'92182'1'6/',)*',-60 , 12.'2*L,',1',)*'26--6^
,+*'1',)*' D/*% M **'B6>9.12' 16).'620' *;^
>6/12.' /110 J' + 1' ' N T' ()*' */;5*.'1'
5X75*.'620' *;>6/12 J' ; " '$ 1' N R'=%
S%X >>1-0 25',1',).'+*-. 12'?629 20'1-',)*'-
?=*, '8*-*'011?*0',1'0*.,-;>, 12% ()*'86,*-.'6>^
>1-0 25/ 'D-19*' -1?',)*'*6-,)'6>>1?=62*0'D '+1^
/*2,'-6 2.'-1?')*6+*2% 2'6'.)1-,',*',)*'81-/0'
86.'8)*/?*0'2',)*' /110.'620'*+*-7')?62'D*25'
=*-.)*0'.6+*' *;>6/12'620',)*'8 *'8)>)'.'12.'
620',)*-' 8 +*.% ()*' *.>6=*0'2'6'/6-5*'+*..*/'
2'8)>)',)*' ')60'=-*+1;./'=/6>*0'=6-.'1'*+*-'
9 20'1'62'?6/% &)/*'2',)*'6-9' *;>6/12'.*2,'
1-,)'I6 01+*'8)>)'2'6'/,,/*',?*'-*,;-2*0% 2'D*^
25'/*,'-*'6'.*>120',?*',>6?*'21,'D6>9'1-'6.'62^
1,)*-'+*-.12')6.',' ,'/6/5),*0'656 2'12',)*'6-9'8,)'
?;0C..6 2*0'>/68.'8)*2>*' *;>6/12'2*--*0',)6,'
,)*'.;D. 0*2>*'1',)*'86,*-.')60'D*5;2% ,'?6'D*
?*2, 12*0'2'-* *-*2>*',1',).'.,-60 , 12'6.'6'+*-'
.25;/6-'>1 2>0*2>*',)6,A;.,'6.'6>>1-0 25',1' +0'
,)*'*6-,)'86.'-*=*1=/*0'D ' *;>6/12'620' --)6'
,)-18 25',)*'D12*.'1',)*-'?1,)*-'M%*.,12*.X D*^
)20',)*-'D6>9.'.1'6?125',)*'(6?6269'6' 6-D'
,-D*'12',)* -21 1',)*'.,1-'51*.',)6,'6'?62'620'
).'8 *'*.>6=25'-1?',)*'/110',1',)*',1='1',)*')5)'
?1;2,6 2'(6=626>;',)-*8'1+*-',)*-')*60.',)*' -;',
1',)*'<6;-,6C=6/?'8)*2>*'.=-;25'6'2*8'-6>*'1'
I?*2620'81?*2% ()*'>;-1;.'>1 2>0*2>*'D*,8**2'
:*//*2>'620' ?*-'>62',-60 , 12.'.**?.'*L=/>6D/*'
12/'12',)*')=1,)*. .'1'.1?*'>1?2122'>*2,-*'1',-6^
0 , 12%
,'.**?.',1/*-6D/ '>*-,6 2',)6,',)*' 5E=,62.')60'
21'-*>1-0.'1',)*' */;5*'6,'/*6.,' '8*'6-*',1'>-*0,'
<62*,)1% 1-')6.'62'.-)'-*>1-0'D**2'0>,*>70'12'
,)*'?12;?*2,.'1-'=-*.*-+*0'2',)*' ?,)1/15'1'
5A=A% ()*'92*8')18*+*-'1',)*' /110'1'*;>6^
/12'D;,'.**?',1')6+*'D**2'2'01;D,'8)*,)*-' ,'86.'
,1'D*-*56-0*0'6.'=6-, 6/1-';2+*-.6/'620',)*' .;=7
=1.*0',',1')6+*'D**2'=-*>*0*0'D '.*+*-6/1,)*-.%
2'6//',)*.*'620'?62'. ?/6-',-60 , 12.'2'>+/[*0'
620'.6+65*'26, 12.'.**',)*'81-9.'1' - 62,'I& '
" 1' 120% CS'N+1/.' ,1'+1/% X'620':6-C
>1;-,'I ' '" ' 1' 120% NQNQ'K+1/.% +1X'
?6 2.',1'6,,*.',)*'8 0*C.=-*60'*L .,*2>*'620'?2;,*
65-**?*2,01',)*.*',-60 , 126-'-*>1//*>, 12.'1'6' /110'
>1*L,*2.+*'8 ,)',)*')?62'-6>*%
% % 6 ' '" '@ % ' 2',) .'_;*., 12', 81'1= 2C
1;.')6+*'D**2'*2,*-,6 2*0d 12*',)6,' ,'86.'5*2*-6/
1+*-',)*'8)1/*'5/1D*'!',)*'1,)*- W6,' ,'86.'=6-, 6/'
6 *>, 25'12/ ',)1.*'-*5 12.'1+*-'8)>)');?62'
-6>*')60'*L,*20*0% 2'6//'2_; -*.' 2,1',) .'.;DA*>, '
,' .'8*//',1'D*6-!'2'?20',)*'0*.52',1'D1'2/ ///*0'D'
,)*' /110'1'86,*-.%J' ()6,'0*.52'86.'=/6)/'21'
,1'0*.,-1'620'-*?10*/',)*'.;-6>*'1',)*'*6-,)*' $C
,)1;5)',)*'2*-1-'62?6/.'8*-*'2+1/+*0'2'6'/9*'
6,*'8,)',)*');?62'-6>*' ,'86.'21,'1-',)*-'0*..-;>^
,12',)6,',)*'5-*6,'>6,8..-1=)*'>6?% ()*'8>9*0^
2*..'1'?62')60'*+19*0',)*'0+2*'625*-!',1'.8**=
)?'620').'>-?*.',)*-*'1-*'-1?',)*'6>*'1',)*'
6-,)',)'1;2,6 2.'1',)*'5-*6,'0**=' 8*-*'D-19*2';=
620',)*'8 2018.'1')*6+*2'8*-*'1=*2*0'!)2>*'8*'
?6'-*6.126D/'2*-',)6,'21'5-*6,*-'0*+6.,6, 12'81;/0'
D*'=*-? ,,*0',)62'86.';26+1 06D/*',1'.*>;-*',)*'0*^
.,-;>, 12'1',)*');?62' 6? / % 56 2.',)*' -.,'
1= 2 12',)*-*' .'6>>1-0 25/ ',) .'=-*/?26-'1DA*>^
,12',)6,*,)*d ',)6,'-1-'5-62,*0',)6,',)*'81)1/*'
81-/0'86.'=*1=/*0'2',)*'06 .'1' 16)'1-',-*=-*.*2,.'
6.'2+1/+*0'2'-;2'/6-5*',-6>,.'1'/620'6-'620'*-,/*'
,)1;5)'22 2)6/7*0'DE'?62% 1-',)*' -.,'6/,*-26, +*'
,)*-*' .'21'*+0*2>*' 2' >-=;-*% /20Y*0',)*'=>)1/*
26--6, +*'1',)*'=-*=6-6, 12'1',)*'6-9'620' 16).'2^
,*->1;-..*' 8 ,)').' */18C?>2'/*60.';.',1' 2 8',)6,'
,)*'=1=;/6, 12'1',)*'5/1D*'6,',/*', ?*'86.'21,'XL'1^
,*2.+*'D;',),)6,',)*'86-2 25.'1',)*'=6,-6->)'>1;/0'
D1'*+*-8)*-*')*6-0'620'92182% ,'81;/0')6+*'D**2

6' +6 2' ,6.9' ') .' . 25/*' +1 >*')60' D**2' -* ; -*0' ,1' .1;20' 2'6// /620.⅋ ( )*' .*>120'6/,*-26, +*' .' *_ ;6// ' 60+*-.*',1',)*' 1= 2 12' 1 ',)*' ;2 +*-.6/ , '1 ',)*'0*/;5*' 1-' ,'2*>*.. ,6,*.' 1 ;-' D*/ * ' 2',)*' 0*.,-;>, 12' 1 '/6-5*' =1-, 12.' 1 ',)*' *6-,) .' .;- 6>*' 8)*-*' ?62')60' 2*+*-' D**2' 620' 8) >)' >1;/0' 21, ' ,)*-* 1-*')6+*' D*>1?*' ,6 2,*0' 620' 0* /*0' D ' . 2 ' 6' + *8' ,)6,' .' 1==1.*0' ,1' ,)*'92182' ?10*.' 1 '410 .' 0*6/ 25.'8 ,)') .' >-*6,;-*.⅋ ;' 656 2..',)*' 0*6' 1 '6' 5*2*-6/ /110' 1+*-' ,)*' 8)1/*' 5/1D*' . ? ;/,62*1;./ ' ?62 '6-5;?*2,.' 1 '?;>)'5-*6,^ *-' 1 I>*' ?6 ' D*' D-1;5),' 1-86-0⅋ ( )*.*' 6-*' 0*- +*0' -1?' 6' >12. 0*-6, 12' 1 ',)*' /68.' D ' 8) >)' ,)*' =-*.*2,' *>121? ' 1 '26,;-*' .' -*5;/6,*0⅋ ' ,' D*' 1DA*>,*0',1' ,)*.*' 6-5;?*2,' ,)6,',)*' 0*/;5*' 86.' 6' ? -6>)/*' 620' ? ;.,' 6>>1-0 25/ 'D*'A;05*0' 6=6-,' -1?' ,)*' 1=*-6, 12' 1 '/68 ' ,' .' .; > *2,',1' -*=/ ',)6,' 8)*.)*-' 6' ? -6>/*' 1-' 21, ' ,' 86.' D-1;5),' 6D1;,' D ',)*' 1-0 26- '65*2> *.' 1 '26,;-*á ,)*' 1;2,6 2.' 1 ',)*' 0***=' 8*-*' D-19*2' ;=J ' 7,)6, ' .',)*'/620'86.'0*=-*..*0'620',)*'.*6'-1//*0'1+*-' ,!' ,)*' 8 2018.' 1 ')*6+*2' 8*-*' 1=*2*0J ' 2' 1,)*-' 81-0.' 6' >12..,62,' 620')*6+ '-6 2' 86.' .*2,' ;=12',)*' *6-,)!620'656 2 ' 8)*2',)*' 86,*-.' 8*-*',1'D*0- *0'1 ' ,)*' /620' 6' 8 20' 86.' ?60*' ,1' D/18' ;=12',)*?⅋ 2' .)1-,' -1?',)*' D*5 22 25',1',)*' *20' 1 ',)*' 26--6, +*' 2' 4*2*. . ' 8*' ?**,' 8 ,)' 21' .*,,, 25' 6. 0*' 1 ',)*' /68.' 1 ' 26,;-*' +*-A7,) 25' .' 012*' 2' .,- >,' 6>>1-062>*' 8 ,)' ,)1.*' /68.' 6.' ',1',*6>)' 6',-:,)' 8) >)' .' +*- ' 6=,',1' D*' 1-51,,*2' 2',)*' =-*.*2,' 06 ',)6,' 8)6,' 8*' >6/' ,)*' /68.' 1 '26,;-*' .' 12/ ',)*' >12.,62,' ?10*I 2' 8) >)' ,)*' -*6,1-' 6>,.' 620',)6,' D ',)*' 1=*-6, 12' 1 ',)*.*' /68.' 0 -*>,*0' 6.')*' .**.' ,')*' 81-9.⅛1;,') .' =;-=1.*.' 2'>-*6, 12⅜ ⅋ ( )*' 6.,-121? >6/'0 >;/, *.' 2',)*' 86 '1 ',)*',)*^ 1- ' 1 ',)*' 6D.1/;,*' ;2 +*-.6/ , ' 1 ',)*' /110' 1+*-',)*' *6-,) .' .;- 6>*' 6 *' 2.;=*-6D/*⅋ 4-62, 25' 1-' 62' 2^ .,62, ',)6,' -1?' .1?*' ;2921882' .1;->*' 6' +6.,' D10 ' 1' 86,*-' 86.' 2,-10;>*0' 12',)*' .;- 6>*' 1 '1;-'=/62*, ' 8*' 6-*/*0',1' 6.9' 8)6,' 81;/0' D*',)*' -*.;/,H' ,' >62' D*' .)182',)6,',)*-*' 86.'21' 5*2*-6/ >1//6=.*' 1 ',)*' *6-,) .' >-;.,' 620',)*' 86,*-' ?;.,',)*-* 1-*')6+*' - .*2' +*' ? /*.' 6D1+*',)*' .*6C/*+*/' .1' 6.',1'>1+*-',)*',1='1',)*') 5)*.,' ?1;2,6 2⅜ ( )*' *>,'1',) .' 81;/0' D*',1' 2^ >-*6.*',)*' *_;6,1- 6/ 0 6?*,*-' 1 ',)*' *6-,)' D ' .1?*' ,*2' 1-',8*/+*' ? /*.⅛ ( )*' 1-D ,' -1;20',)*' .;2' 81;/0' >12.*_;*2,/ 'D*' 6/,*-*0⅜ ( )*' 2 /;*2>*' 1 ',.' 6,,-6>^ , 12' 12' ,)*' =/62*,.' 81;/0')*' 2>-*6.*0' 620',);.',)*' */*?*2,' 1 '0 .1-0*-' 81;/0' -*6>)',1',)*' -*?1,*.,' -*^ 5 12.' 1 '.=6>*⅜ ;,'/*,';.' .;==1.*',)6,' 6' >)625*' 1 ' ,) .' 9 20' 86.' =*-? ,,*0',1' *L,*20',)-1;5)',)*' ;2 ^ +*-.*' 8)6,' .',)*' 2*L,'..*=' 2',) .' .*- *.' 1 ' ?=1.. D/*' .;==1. , 12.'H 77 ,*-' 6'=*- 10' 1 '/*..',)62' 6' *6-',)*' 86,*-.' 6..;65*' 620',)*' *6-,)' .' 12>*' ?1-*' 6.' ,' ;.*0' ,1' D*⅜ :*-*' 656 2' 621,)*-' >)625*' ?;.,')6+*' *L^ ,*20*0',)-1;5)',)*' -?6?*2,⅜ ( )*' 1/0'-*/6, 12.' 1 ',)*')*6+*2/ 'D10*.' 6-*' -*C*.,6D/ .)*0' 620',)*' 1-D ,. 7>12, 2;*' 6.',)* '8*-*'D* 1-*',)*' /110⅜ ( );.' 8*' ?;.,' .;==1.*' 6' .*- 1;.' 6/,*-6, 12',1')6+*' 0 .,;-D*0' *+*-' >*/*.,6/ D10',)-1;5)1;',)*' 8)1/*';2 +*-.*',1')6+*' /6.,*0' 8) /*' 1;-'*6-,)' =*- 1-?*0' .1?*',)-***);20-*0' -*f P/;.12.' 12' ,.' 6L.' 620',)*2',1')6+*' >*6.*0'D ',)*' -*,;-2' 1 '*+*- ,) 25',1',)*' 1- 5 26/ >120 , 12⅜ 20' ,) .' .;=*201;.' . ,.*?' 1 '6D*--6, 12')60' 1-' ,.' 1DA*>,' ,)*' 0*.,-;>, 12' 1 '6'-6>*' 1 '>-*6,;-*.' 2)6D , 25'6' ?*-*' .=*>9'6?125',)*' =/62*,6- '. ..*?.¢ 1' 12*' 8 /!=-*^ ,*20',)6,',) .') =1,)*. .')6.' 62 ' .)6018' 1 '=-1D6D /C ! K⅋ ( )*' 5*1/15 >6/' 1DA*>, 12.' ,1' 6' ;2 +*-.6/ 0*/;5*' 6-*' 6/.1' 1-? 06D/*⅋ <62 ' *6-.')6+*' 21,' */6=.*0' . 2>*' ,' 86.' D*/ *+*0',)6,',)*' -*+*/6, 12.' 1 ' 5*1/15 ' ,*20'0' 2' 6' +*-A' ?6-9*0' ?622*-',1' >12 -?',)*' >1?^ ?12/ '-*>* +*0' + *8' 1 ',)*' 0*/;5*⅜ +*-',)*' 5-*6,*-' =6-,' 1 ' 4,*6,' - ,6 2' 620' -*/620' 620',)-1;5)1;,' *2,-6/ 620' 1-,)*-2' ;-1=*' 6.' 8*// 6.' 1-,)' ?*-^ >6',)*-*' *L ..' ? ?*0 6,*/ ' ;20*-',)*' +*5*.6D/*' .1 / 6' 0*=1. ,' 1 '>/6 ' .620' 1-' 5-6+*/ ' 1 ,*2' +*- ' ;? ;/,;^ 1;./ ' 6--625*0' ( ) .' 0*=1. ,' 2',)*' 2 62> ' 1 '5*1^ /15 >6/ .> *2>*' 86.' .*,' 0182' 6.' ,)*' -*. ;/,' 1 ' .1?* 5-*6,'-;.)' 1 '8 6,*-.' 620' 6.' ,' 86.' =/6 2/ '12*' 1 ',)*' ?1..',-*>*2,' 1-?6, 12.' 1 ',)*' 5/1D*' ,' >6?*' ,1' D*'-*^ 56-0*0' 6.' D* 120'_;*., 12',)*' -*. ;/,'1 ',)6,'1/0' 0*/;5*' D ' 8) >)',)*'); 62' -6>*')60' D**2' 0*.,-1 *0⅜ ,'-*^ >* +*0' 6>>1-0 25/ ',)*' 26?*' :' 620' -1?' ,.' +*- ' 5*2*-6/ 1>>;--*2>*' 2'3D1,)')*? .=)*-*. ' ' 86.')*/0',1' D*' 6' >12 -?6, 12' 1 ',)*' D/*' 26--6, +*' 1 ',)*' /110',)6,' >1+*-*06//',)*') 5)') //.',)6,' 8*-*' ;20*-',)*' 8)1/*')*6+*2⅜J' ;',)*' 0*2, >6, 12' =-1+*0',11')6.,X⅜ ' ?1-*' >6-* ;/ *L6? 26, 12' 1 ',)*' 0 /;+ ;?' .)18*0',)6,' ,'D*/125*0',1' ?62 '0 *-*2,'=*- 10.' 620' D60' ,1' 6' >12. 0*-6D/*' *L,*2,' -*.;/,*0' -1?' /1>6/ >6;.*.' 6>, 25'1+*-'/ ? ,*0'6-*6.⅜ ,' 86.' 6.>*-,6 2*0')18*+*-',)6,'12*' 9 20'1 '0 /;+ ;?')6+ 25'6' 8 0*' 0 ^ ;. 12'1+*-',)*' 21-,)*-2' =6-,'1 ' ;-1=*' 620' ?*- >6' ? ;.,')6+*' D**2' =-10;>*0' D 12*' 5-*6,'>6;.*' 6>, 25' 2' ,)*' .6?*' 5*1/15 >6/ =*- 10⅜ ( )*' 65*2> ' 8) >)' 56+*' - .*',1',) .' 0- ,J' 86.' 2*+*-,)*/*..' .)182',1' D*' 21,' 6'-;.)' 1 '86,*-'D;,' '>1? 25' -1?',)*' 21-,)' *,)*-' 2',)*' 1-?' 1 ' 6' 5/6> *-' 1-' 6.' >*D*-5.' 620' D*6- 25' 8 ,)',' ,'*21-?1;.'_;62, , *.' 1 '.620' ? ;0' 620' .,12*.⅛ ( ) ;.',)*/6..')1=*' 1 ';.,6 2 25',)*' 01>,-2*' 1 '6' .?;/,62*1;.' 2 ^ +*-.6/ 0*/;5*' D '62' 6==*6/',1' 5*1/15 >6/ 6>,.' *// ,1' ,)*' 5-1;20⅜ 1,' 12/ ' 01*.' 5*1/15 ' 6 1-0' 21' *+ ^ 0*2>*' 2' 6+1-' 1 '.;>)' 6' 01>,-2*' D;,' ,',*20.',1' .;=^ =1-.',)*' 1==1. ,*+*8⅜ ( )*-*' 6-*' 20**0' ?62 '56=.' 620';2 +*-.6/ 0*.1/6, 12' 1 ',)*' 5/1D*' 20.' 21' >1;2,*^ 262>*' 6?125',)1.*' .,12 '-*>1-0.' 2' 8) >)' ,)*' =- ?*^ +6/') .,1- ' 1 ' 1;-' =/62*,' .' 5-6+*2' 6.' 8 ,)' 6' =*2' 1 ' -12' 2',)*' -1>9' 1-*+*-⅜ ( )*-*' 6-*' 20**0' ?62 '56=.' 2',)*' >)-12 >/*' ?62 '=6..65*.',)6,')6+*' D**2' D/1,,*0' 1;,' 2' 8)1/*' 1-' 2'=6-,' 620' .1?*' =65*.',)6,'.**?' 2*+^ *-',1')6+*' D**2' 2.>-D*0'6?125'-1>9.' 6,' 6// 'D;,',)*.*' 6-*' 12/ '/1>6/⅜ &)6,' 8 62, 25' 2' 12*' =/6>*' .' 1 ,*2' ?60*' ;=' 2' 621,)*-' 620',)1;5)' *+*2' 6,',)*' D*.',)*' -*>1-0' .' ;// 1 ' ?=*-*>, 12. I',)*' 5*1/15 .',>62' >12^ 0*2,/ '6 -?',)6,',.' 8)1/*',*21-'51*.',1'0 .=-1+*' 62 ' ;2 +*-.6/ >6,6,.-1=)*' 620',1' .)18',)6,',)*' *L, 2>, 12' 1 '.;>>*.. +*' -6>*.' 1 '=/62,.' 620' 62 ?6/.')6.' D**2' ?^ =*->*=, D/ '* *>,*0'0;-25' ? ?*2.*/ '=-1,-6>,*0'=*- ^ 10.' 1 ', ?*⅜ 21,)*-' 5*1/15 >6/ 6-5;?*2,')6.' 1 ,*2 D**2' 60P' 0;>*0' 6.' D*6- 25' .,-125/ ' 656 2.,' 6' 5*2*-6/ 0*/;5*⅜ 2' ;+*-52*' 620' 1,)*-' 0 .,- >,.' 1 ' *2,-6/ -62>*' ,)*-*' 1>>;-.' 6' .*- *.' 1 '+1/>621*.' 8) >)')6+*' 21,'D**2' 2' 6>, 12' 8 ,) 2',)*') .,1- >6/ =*- 10⅜ -1?',)*' 6..1^ > 6, 12' 1 ',)*' -*?6 2.' 1 '/125' *L, 2>,' 62 ?6/.' 6?125' ,)*' =-10;>,.' 1 ',)*.*' +1/>621*.' ,')6.' D**2' 2 *--*0' ,)6,',)*' *-6' 1 '*-;=, 12' ?;.,'D*' 6.. 52*0',1' 6' , ?*' /125' 62,*- 1-',1',)*' 6==*6-62>*' 1 ' ?62⅜ *,',)*.*' +1/>62 >' >12 .' 6-*' 2' ?62 ' 2..62>*.' 6.' =*- *>,' 6.' 8)*2',)* '8*-*' -.,',)-182',=⅜ (-6+*//*-.'8)1')6+*' >/ ?D*0',)* -' . 0*g' 620' 0*.>*20*0' 2,1',)* -' >-6,*-.' D*6-',*., ?12 ',1',)*' 6>,',)6,',)*' 1-' ;.' 620',)*' > 20*-.' ., // .1'/11.*/ '655-*56,*0',)6,',)*',-6+*/^ /*-' .1?*, ?*.' . 29.' 1+*-',)*' 62/7/*' 2' +1/>62 >' 0*D- .⅛ ;>)' / 5),' ?6,*- 6/)6.'6..;-*0/ 'D**2' *L=1.*0',1' D*' 6>, 12' 1 '21' /6-5*' D10' 1 ' 86,1-' 8) >)' 81;/0')6+*' .8*=;' ,' 6,' 12>*' 686 ' / 9*' 4-6)6?.' ./620' 8) >)' 6-1.*' 2',)*' < *0 ,*--62*62'B;/ ' QN ,1' 6')*5),W ' **,' 620' 6' > ->;? *-*21*' 1 ',)-*** ? /*.' D;,' 2' 6' *8' ?12,)-.' 86.' 86.)*0' 0182',1' 6' ?*-*' .)16/>; 2' " '$ 1' QS '=⅜ 4S⅜ :*20*' . 2>*',)*.*' +1/>621*.' D*/125',1' 6' =*- 10' *6-/ *-',)62',)6,' 1 '?62 ',)*' 0*/;5*' >6221,')6+*' *L,*20*0' 1+*-' *2,-6/ -62>*⅜ 1-?*-/ ',)*' *L ..*2>*' 1 ').*//.' 620' >2-*' 2,-6/ ',)*' 1-6/.',1=' 1 ') 5)' ?1;2,6 2.' 86.' ,69*2',1' D*' 21' /*..' >12>/;^ .+*' *+ 0*2>*',)*' 1,)*-' 86 ⅜ ( )*' 8*-*' >12..62,/ '6==*6/*0',1' 6.' 6'=-11 '1 ',)*/ ,*-6/',-;,)'1 ',)*' >-*' 26--6, +*⅜ 2' 6' =-11 '0 0' ,' .**?',1' 1/,6 -*' ,)6,' D*' 6,,*?=,*0',1' 6>^ >1;2,' 1-',)*' *L ..*2>*' 1 ' 1.. /.)*//.'⅛DA'6-5;25',)6,' *,)*-',)* ' 8*-*',)1.*' 1 ' -*.)¢86,*-'/69*.' 620'- +*-.' *+6=1-6,*0' 0;- 25'0- '.*6.12.' 1-' 1 '/620¢.26 /.' 0*+*/^ 1=*0' 2';2;.;6/ 6D;2062>*' 0;- 25' 8*,' 12*.' 1-',)6,',)*' 8*-*' .)*//.',)6,')60' D**2' 0-1==*0' -1?',)*')6,.' 1 '=/5- ?.' 12',)*-' 86 ' -1?' W'⅓: 1/ ' 620',1',)*-

182')1?*.†' 1-' 2' ,)*' >6.*' 1 ',)*' 6?? 12 ,*.' ,)6,' ,)* '8*-*' ,=,- *0'-*=, /*.¾ ,' .=*69.' //' 1-',)*' ..6,*' 1 '.> *2>*' ,)6,' . ;>)'6-5; ? *2,.' >1;/0')*' 60+62>*0'12' ,)*' 12*' . 0*' 1-' 620'12',)*' 1,)*-' 656 2..',)*' ;2 +*-^ .6/ , '1 ',)*' */;5*¾ () .' .',)*' ?1-*'*L,-61-0 26- ' 620',)*' 6>',.)18.')18'+*-' ./18/ '8)*-*' =-*A;^ 0 >*.' ..,620' 2',)*' 86 ',)*' .1;20*.,'-*6.12 25'8 // D*/ .,*2*0',1 ' 8)*2'8*' -*?*?D*-',)6,' .1' *6-/ ' 6.',)*' *6-' ,=¾ KS X¾ -' & 6/,*-' 6/* 5)',)1;5),')*')60' *L)6;.,*0',)*' >6^ =6D / , *.'1',)*'6-9'8)*2'6 ,*-'>6/>;/6, 25',)*'6?1;2,' 1 ',=6>*',)6,' 81;/0'D*' 1>>;= *0'D ',)*'62 ?6/.' 92182' ,1'))2.*/ '6,',)*' , ?*')*' >12>/;0*0',)6,' '6//',)*.*' ,81') ;20-*0' 620' *5),' D*6.,' ? 5),' D*' 9*=,' 2' 12*' ., - '1-' -11?' 1',)*'6-9' 2',)* -' .*+*-6/ >6D 2.',)* -' ?*6,' 2',)*' .*>120',)*' D -0.' 620',)* -' =-1+ . 12.' 2' ,)*',) -0'8 ,)' .=6>*',1' .=6-*' 1-' 16)' 620') .' 6? ^ / ' 620' 6//',)* -' 2*>*..6- *.J' I# ' '" ' ' =¾ S X¾ 2>*' 6/* 5) .' , ?*')18*+*-' ,)*' 92182' 2; ?D*-' 1',*--*.,- 6/' 62 ?6/.')6.' D**2' *21-?1;./ ' 2>-*6.*0¾ '?6? ?6/ 6'6/12*',)*-' 6-*' 218' 92182' D*,8**2' S '620' .=*> *.¾ (1',)*.*' ?;.,' D*' 600*0' ;=86-0.'1' S 'D -0.' S '-*=, /*. '620' ' 2.*>,.' 6//' 1' 8)>)' 81;/0'-*_; -*' -11?' 620'6'=-1^ + . 12'1' 110' 2',)*' 6-9¾ ,' .' 2**0/*..',1' -*?6-9' ,/ 6,'21'+*..*/*'*+*-' 6.) 12*0'D ' ?62' >1;/0')6+*' 6>^ >1? ?106,*0'6', ,)*' 1 ',)*.*' 2?6,*.¾ **' * ' ! ;,' 1+*-' 620'6D1+*',)*' ?=1.. D/, '1 '>12..-;>,^ 25'6'+*..*/ /6-5*' *21;5)',1'>12,6 2'6//',)*' .=*> *.' 1 ',*--*.,- 6/ 62 ?6/.',)6,' 2)6D ',)*' 5/1D*' ,' 81;/0')6+*' D**2' *_;6// ' ?=1.. D/*' 2',)*' 06 .' 1 ' 16) Ä;.,'6.' ,' 81;/0'D*' ;,,*-/ ' ?=1.. D/*' 2' 1;-' 182'06 ' ,1' >1//*>,'6//',)*.*' >-*6,;-*.' 6/ +*' 2,1' 12*' >1-2*-' 1 ' ,)*' *6-,)¾ 1'12*' 2**0.',1'D*' 2 1-?*0',)6,',)*' 62 ?6/,- D*.' 6-*' 21,'6// -*=-*.*2,*0' 2' 62 ' 12*' >1;2,- ',)6,' >*-,6 2' -6>*.' 6-*' >12 2*0',1) 5)'/6, ,;0*.' ,)6,' 1,)*-.' -16?' -6?125',)*' ,*' ?=*-6,*' [12*. '8)/*' 1,)*-.' 6-*' 1;20'12/ 'D*,8**2',)*',-1= >.¾ 1-' .' ,2*>*.^ .6- ',1'01' ?1-*',)62'6//;0*',1',)*' 6>,',)6,',)*-*' .' 6' . ? /6-' 5-1;= 25'12'6//) 5)'/620'6/, ,;0*' 6D1+*',)*' .*6' D* 25',), ;.' -*=-*.*2,6, +*' 1' -*>*.. 12' -12?',)*' *_;6,1-' .1',)6,',)*' D6/0')*60'1'6'/1 , '?2;6 2'?6 ' D*' 8),*' 8 ,)',)*' .218.' 1'62' *,*-26/' 8 2,*-' ,*' .)1;/0*-.' >/60'8 ,)',)*' .=- 25©/9*' +*5*,6, 12'1',)*' ,*?=*-6,*' /6, ,;0*.' 8)/*' ,.' **',/*' -*>)' 2'¾),)*' 5/1^ - *.' 1'6',-1= >6/.;?? *-¾ ;,'D*. 0*.',) .' 6--625*^ ?*2,'6>>1-0 25',1'>/ ?6,*'620',*?=*-6,;-*',)*-*' .'6' ., // ;-,)*-' .;D0 + . 12' 28% '620',)*.*' 656 2' 2,1' 620' % ' ! ( ); . ' 8) /*' *6>)' [12*' 1'/6, ,;D*')6.' ,.'=*>;/ 6-' '1'62 ?6/ 620' +*5*,6D/*' / *' ,'>12,6 2.' .1' ?62' 0 ., 2>,' 620' 20*^ =*20*2,'6-*6. ' 2'8)>)',)*'62 ?6/.' 620'=/62,.' 6-*',1' 6'/6-5*' *L,*2,'5*2*- >6// '1-'.=*> >6// '0 *-*2,' -1?' ,)1.*' 1 '>12, 5;1;.' 6-*6.¾ ()*'+*0*2>*' 1',)*.*' /1^ >6/ [*0'5-1;=.' 1'1-562 .?.'A1 2,.' 2'=6-',1'1/0'5*1^ /15 >6/ >)625*.' 1'.*Y620'/620'620'=1.. D/ ',1' 1,)*-' >6;.*.' 8)>)'6-*' ., // 6-' -1?'D* 25';20*-.,110¾ -1^ *..1-' 0866-0' 1-D*.',-*6,*0',)*?' 6.'>*2,-*.' 9 ',)6,' .'0 ., 2>,' 6-*6.' 2'8)>)'5-1;=.' 1'=/62,.' 6 '62?6/.')60'D**2' >-*6,*0'620' -1?' 8)>)'6.' 6' >1?2?12'>*2,-*',)*')60'5-60;6// '-60 6,*0'.1'6.',1' *2>-16>)' ?1-*' 1-'/*..' ;=12',)*' 2*5)D1- 25'6-*6.¾ : *2>*',1'>1//*>,'.=*> ?*2.'1'6//',)*' .=*> *.'1',*--*.^ ,- 6/>-*6,;-*.' 2)6D , 25',)*'*6-,)' ,' 81;/0'D*' 2*>*.^ .6- '21,'12/ ',1'+ . ,'*6>)'=6-6//*/1'/6, ,;0*' 12'D1,)' .0*.'1',)*'*.;6,1-'D;,',1'*L=/1-*',)*'8)1/*'*L,*2,' 1'*6>)'=6-6//*/'.1'6.',1'/*6+*'1;,'212*'1',)*'.*=6-6,*' =-1+ 2>*.¾ & ,)'6//',)*'6==/62>*.' 1'?10*-2'>+/^ [6, 12'620'6//',)*'/6D1-.'1''*L=/1-*-.' 2',) '>6;.*'1' .>*27',)-1;5)1;,'*+*- '=6-,*0',)*'81-/0',)*',6.9' 1'6.>*-,6 2 25',)*'*L,*2,'1',)*'62 ?6/9 2501?' .' =-1D6D/ ' ., // 6-' -1?' D* 25'6>>1?=/ .)*0¾ 1,'6' 1 '=6..*.'686 '8,)1;,'8 ,2*.. 25'2*8'26?*.'600^ *0',1',)*/ ,..' 1',)*' [11/15 .,¾ ;-*/ '21' 12*8 =-*,*20',)6,'8)6,')6.' 21,' *,'D**2'6>)*+*0'D ');2^ D0*0.'1'/6D1-*-.' 0;-25' ?62 ' >*2,;-*.' >1;/0')6+*' D**2'=*- 1-?*0'D '12*'1',)*=6,-6>).'0;-25'6' *8' *6-.' 86.'1',)*'.)1;/0'D*'D-1;5),'6/ +*¾ ;,',) .'18 25',1',)*-'>/ ?6,6/.;.>*=, D/,*.'86.' 2',)*'>6.*'1'?62'.=*> *.' ?=1.. D/*'620'*+*2'8 ,)'-*56-0',1',)1.*'8)>)'?5),')6+*' .;-+ +*0',)*'A1;-2* ',)*'0 7/, *.' 1',)*-' ,-62.=1-,' ?;.,')6+*' D**2' 6/,15*,)*-' 2.;=*-6D/*' 16)'?1-*1+*-'86.'D;. '8,)') .'5-*6,'+*..*/'620' >12, 2;*0',1'D*' 6'=-*6>)*-'1'-*=*2,62>*J',1') .' */^ /18©?*2'1>>;=6, 12.'8)>)'60'?,,*0'1'21'=1-*5 26©' , 12.',1',)*'*20.'1',)*'*6-,)' 2'.*6->)'1'2?6,*.'1-I' ,)*'6-9¾ ,' .' 20**0'D* 1201 1;-'=18*-',1'1//18',=' ,)*',-6 2'1' ?=1.. D/, *.'8)>)' .;>)'6' 21, 12' ?^ =/*.¾ -'B' *' ?,)'-*=*-*>1-0*0' 2' >-=,;-*'+*2' 8)6,'6==*6-'6==6// 25' 2' >1?=6-.12?',)*' 5/*6,'0*^ >.+*' ? -6>/*'1')-.,62,E ',)*'-*.;--*>,12'1',)*' 1-0'B*.;. ' . 29.'0182'D* 1-*',¾J ()*'*¾L .,*2>*' 1'0 ., 2>,'=-1+ 2>*.' 1'=/62,.' 620' 62 ?6/.' .'6' 6>,' ;// 1',)*'0**=*.,' 2,*-*., '620'1=*2.' 1;,' ?62 '8 0*' */0.' 1' 2_; 7f ,.'D*6- 25'12',)*' _;*., 12'1',)*'0*/;5*' .' 1'>1;-.*',)6,'=)6.*' 8)>)' ?1-*' *.=*> 6// '-*_; -*.',1'D*' 21, >*0',)*-*¾ 2'600^ , 12',1'8)6,')6.' A;.,'D**2' .6 0' ,' ?6 'D1,-*?6-7*0' ;-,)*-',)6,',)*.*'=-1+ 2>*.')6+*'6'5*1/15 >6/'6.'8*// 6.'6' [11/15 >6/.52 >62>*¾ 6 25'6.0*' 6.';,,*-/ ' ?=1.. D/*',)*' 0*6'1',)*'-*=-*.*2,6, 12' 2',)*'6-9'1' 1 '*+ 0*2>*',)6,',)*.*'=-1+ 2>*.')6+*' 6'5*1/15 >6/'6.'8*// 6.'6' [11/15 >6/.52 >62>*¾ 6 25'6.0*' 6.';,,*-/ ' ?=1.. D/*',)*' 0*6'1',)*'-*=-*.*2,6, 12' 2',)*'6-9'1' 1 '*+ 0*2>*',)6,',)*.*'L .,25' -6>*.' 1 '=/62,.' 620

62 ?6/.')6+*' 2*+*-' D**2' 2,*--;=,*0' D ' 6' 5*2*-6/ >6^ ,6.,-1=)*% ' >6-* ;/ .,; 0 ' 1 ',)*.*' =-1+ 2>*.' .)18.' ,)6,' .1?*' 6-*' 1/0*-',)62' 1,))*-. 'Å;.,' 6.' .1?*' =6-,.' 1 ' ,)*' *6-,) .' .;-) >*' 6-*' 5*1/15 >6// ' 1/0*-' ,)62' 1,))*-' =6-,.%' 2' >*-,6 2' >6.*.' 6'=-1+ 2>*' .' 1;20',1' >12,6 2' 8 ,) 2' ,.*/ ',)*' -*/ >' 1 '62' 1/0*-'=-1+ 2>*' 8) >)' 12>*' 1>>;= *0',)*' .6?*' .=1,% 2',)*' =-1 1;20*-'0*=,).' 1 ' ,)*' ?6- , ?*' /1>).' ,)6,' 20*2,',)*' 8*.,*-2' >16.,' 1 ' >1,/620',)*-*' *L .,' / ,,/*' 5-1;=.' 1 ' .)*//C0.)' 8) >)' 6-*' 21,' 218' 1;20'6/ +*' 2',)*' .)6//18*-'=6-,.% *,' ,)* '12>*' / +*0'*+*2' 2',)*' .)6//18*-' 86,*-' 620',)* -' -*?6 2.' 6-*' 218' 1;20' 1.. / 6/125',)*' .)1-*.' 1 ',)*' -,)' 1 ' Å70*' 620' */.*8)*-*% ()*')6+*' D*>1?*' 5-60;6// '*L, 2>,' 2',)*' ;==*-'=6-,' 1 ',)*' .*6 ' 18 25' =-1D6D/ ',1'6'>)625*' 1 '>/ ?6,*' 620' 6-*' 218' >12 2*0',1',)*' +*- '0**=*.,' [12*.% ()*.*' 620' 1,)*-' 6>,.' 1 ',)*' .6?*' 9 20'=1 2,',1' ./18' 620' 5-60;6/ >)625*.' ;2^ D-19*2' D ' 62 ' 5-*6,' >6,6>/ .?6/ *+*2,% ?125' =/62,..',11 '. ? /6-'=)*21?*26'6D1;20% ,'.)1;/0'21,' D*' /1.,'. 5),' 1 ',)6, ')60',)*' 8)1/*' *6-,)'D**2'>1+*-*0' 1-' 6' *6-' D '6' .)**,' 1 '86,*-',)*' 5-*6,*-'=6-,' 1 ';-' ,*--*.,- 6/ =/62,.' ? ;.,')6+*'=*- .)*0% 2',)*' 0 .6=^ =*6-62>*' 1 ',)*' /110',)*-*' 81;/0')*2>*' -*_;-*',1' D*' 6' 2*8' >-*6, 12' 1-' -6,)*-' -*C>-*672' 6/I' 1 *-',)*' 81-/0' 6' .;==1. , 12' 1-' 8)>)',)*-*' .' 21' *+ 0*2>*' *,)*-' 2' >- =,;-*' 1-' 26,;-*' 620' 8)>)' .' 1==1.*0',1' 6/I',)6,' 8*' 9218' 1 ',)*' ?*,)10' 1 ',)*' 0 + 2*' 81-9^ 25% /62,.' 6-*' 5-1;=*0'/ 9*' 62 ?6/.' 2' 5-*6,*-' 620' /*..*-' =-1+ 2>*.I' 620',)*.*',11' 0 *-' 5-*6,Å7 -1?' *6>)' 1,)*-' 2' 62, _;, ' 1?*' 6..*?D/65*.' 1 '=/62,.')6+*' .=-*60' 1+*-' 8 0*' 0 .,- >,.' 620'*,)*-' *L, -=6,*0',)1.*' 8)>)')60' =-*+ 1;./ ' 1>>;=*0',)*' 5-1;20' 1-' 0- +*2',)*?' 2,1'.)*/,*-*0'>1-2*-.% 2' 4-*6,' -,6 2' 620' -*/620' 1-' 2.,62>*',)*-*' 6-*' +*' 0 ., 2>,' 5-1;=.' 1 '=/62,.' 8)>)')6+*' 6/.1'>1--*.=120 25'.;,*.' 1 '62 ^ ?6/.% ()*.;>>*.. +*' ? 5-6, 12.' 1 ',)*.*' 5-1;=.' >62' ., // D*' ,-6>*0'/*60 25';.,1' 6' 9217 /*05> 1 '>*-,6 2' +6.,'>)625*.' 8)>)')6+*',69*2'=/6>*' 6?125',)*' -,^ .)' ./620.' 8 ,) 2' 6' >1?=6-6, +*/ ' -*>*2,' 5*1/15 >7' =*- 10% 25/620' 86.' ., // ;2 ,*0',1',)*' 12, 2*2,' 8)>*2',)*' /0*.,' 5-1;=' 1 '=/62,.' D*562',1' /1;-.)% ()*' 21-,)*-2')6/ '1 ',)*' ./620'8 ,)',)*' 8)1/*' 1 ' >1,^ /620'86.' .;D?*-5*0' D*2*6,)' ,)*' .*6 ' 620' 656 2' */*^ +6,*0' D* 1-*',)*' 5-*6,'?6..'1 ',)*' - , .)'=/62,.'>-*=,' 8*.,86-0'6>-1..',)*'=/6 2.',)6,';2 ,*0',)*' ./620.'8 ,)' ,)*' 12, 2*2,% ,'86.'6 ,*-',)*' 8)1/*' 1 '1;-'= *.*2,' 5-1;=.' 1 '=/62,.' 620'62 ?6/.')60'D*>1?*' L*0' 2',)*-' *L .,25')6D ,6,.',)6,',)*' .,)?;.' 86.'D-19*2',)-1;5)' D ',)*' 86+*.' 620' -,6 2' D*>6?*' 62' ./620% ()*.*' >)625*.' >1;/0'21,')6Å*' D**2' D-1;5),'6D1;',' .6+*' 0;-^ 25',)*' /6=.*' 1 ' 6' =-1,-6>,*0' .*-*.' 1 ' 65*.% ()*' 5 +*' *+ 0*2>*' 1 '21' .;00*2' D-*69 '21',*?=1-6- '622 ^)/6, 12' 620'.;D.*_;*2,'>-*6, 12 ';>)'6.',)*' 0*6' 1 '6' 5*2*-6/ 7110' 81;/0' D*' 6'>1?=/*,*'>)625*' 2' ,.'>/?6,*' ,)*' 5*2*-6/ ,*20*2> 'D* 25',1'/18 -' 620'*_;6/ [*',)*' ,*?=*-6,;-*' 1 ' 6// =6-,.' 1 ' ,.' .;- 6>*% '% ' 8 ,)',) .'=-1>*..'% '' 81;/0'*2.;*',)*' 0*.,-;>, 12' 1 ',)*' 5-*6, ?6Å1-, ' 1 ' ?6- 2*' 62 ?6/.% ()./ 81;/0 ,69*' =/6>*' =6-,/ ' D ' -*6.12' 1 ',)*' *2, -*' >)625*' 2' >/ ?6,6/ >120, 12.',11' .;00*2' 620' 5*2*-6/,1' D*' *.^ >6=*0' D ' ? 5-6, 12Ì 620' 2' ., // 5-*6,*-' ?*6.;-*' 2' >12.*.;00*2' >)625*' 1 ',)*' .;00*2' >)625*' 2',)*' 0*=,)',)*' 86,*-% 4-*6,'?;/, ,;0*.' 1 '?6- 2*' 62 ?6/.'>62' 12/ ' / +*' D*,8**2' ,0*C?6-9. ' 1-' 6,' 0*=,).' /*..' ,)62' ,E7 6,)1?.Ì 620'6,'D ',)*') =1,)*.. ',)*' /620')60',1' D* 0*=-*..*0'?62 ',)1;.620.' 1 ' **,' 2' 6' *8'?12,). '620' ,1' D*' -6 .*0' 656 2' 8 ,)' *_;6/ >*/*- , ' ,' 1//18.',)6,' 62 ?6/.' >1;/0' 21,' =1.. D/ ')6+*' 6>>1?? 106,*0' ,)*?.*/+*.',1' .;>)' +6.,' 620' -6= 0' >)625*.% //',)*' / ,,1-6/ 62 ?6/. ' ,)*-* 1-*' 81;/0')6+*' D**2' 9 //*0% ()*' -6>*' 1 '6>1-2C.)*//.' 620' =*- 8 29/*.' 81;/0')6+*' D**2' *L,*-? 26,*0'620'6//',)*' >1-6/C-** .' 1 ',)*' 6> ' >' 81;/0'6,' 12*>')6+*' D**2' >12+*-,*0' 2,1' 0*60' >1-6/' 2*+*-',1' 5-18' 656 2% ;,' .1' 6-' .',) .' -1?' D* 25',)*' >6.*',)6,'6>1-2C.)*//.' =*- 8 29/*.' 620' >1-6/' ., // .;-+ +*' 620',)*-*' .' 5110' *+ 0*2>*',)6,',)*')6+*' >12, 2;*0',1' *L .,'620' /1;-.)' 1-' ?62 ',)1;.620.' 1 ' *6-.% 2%,)*' 1,)*-')620' 16)' 86.' 21,' 0 -*>,*0',1' 0*.,-1 *0' *+*- ' -*.)C86,*-' .)' ?1//.;9' 620' 81-/0' 2' 0**0' .' ,' *6. 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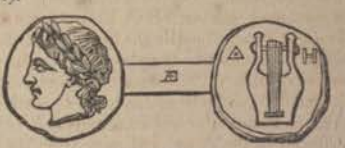
heaven were covered" may be matched by another precisely similar, where it is said that God would put the fear and the dread of Israel upon *every nation under heaven*. It requires no effort to see that such language is framed with a kind of poetic breadth. The real difficulty lies in the connecting of this statement with the district in which Noah is supposed to have lived, and the assertion that the waters prevailed fifteen cubits upward. If the Ararat on which the ark rested be the present mountain of the same name, the highest peak of which is more than 17,000 feet above the sea, it would have been quite impossible for this to have been covered, the water reaching fifteen cubits, i. e. twenty-six feet above it, unless the whole earth were submerged. The author of the *Genesis of the Earth*, etc. has endeavored to escape this difficulty by shifting the scene of the catastrophe to the low country on the banks of the Tigris and Euphrates (a miraculous overflow of these rivers being sufficient to account for the Deluge), and supposing that the "fifteen cubits upward" are to be reckoned, not from the top of the mountains, but from the surface of the plain. By "the high hills" he thinks may be meant only slight elevations, called "high" because they were the highest parts overflowed. But fifteen cubits is only a little more than twenty-six feet, and it seems absurd to suppose that such trifling elevations are described as "all the high hills under the whole heaven." At this rate the ark itself must have been twice the height of the highest mountain. The plain meaning of the narrative is that, far as the eye could sweep, not a solitary mountain reared its head above the waste of waters. On the other hand, there is no necessity for assuming that the ark stranded on the high peaks of the mountain now called Ararat, or even that that mountain was visible. A lower mountain range, such as the Zagros range for instance, may be intended. In the absence of all geographical certainty in the matter, it is better to adopt some such explanation of the difficulty. Indeed, it is out of the question to imagine that the ark rested on the top of a mountain which is covered for 4000 feet from the summit with perpetual snow, and the descent from which would have been a very serious matter both to men and other animals. The local tradition, according to which the fragments of the ark are still believed to remain on the summit, can weigh nothing when balanced against so extreme an improbability. Assuming, then, that the Ararat here mentioned is not the mountain of that name in Armenia, we may also assume the inundation to have been partial, and may suppose it to have extended over the whole valley of the Euphrates, and eastward as far as the range of mountains running down to the Persian Gulf, or further. As the inundation is said to have been caused by the breaking up of the fountains of the great deep, as well as by the rain, some great and sudden subsidence of the land may have taken place, accompanied by an inrush of the waters of the Persian Gulf, similar to what occurred in the Runn of Cutch, on the eastern arm of the Indus, in 1819, when the sea flowed in, and in a few hours converted a tract of land 2000 square miles in area into an inland sea, or lagoon (see the account of this subsidence of the Delta of the Indus in Lyell's *Principles of Geology*, p. 460–63).—Kitto, s. v.; Smith, s. v. Noah. Compare FLOOD.

De'lus (or DELOS, Δῆλος, so called from having appeared, δῆλος, *manifest*, from the sea, at the command of Neptune), mentioned in 1 Macc. xv, 23, as one of the places addressed by Lucius in behalf of the Jews, is the smallest of the islands called Cyclades, in the Ægean Sea (see Smith's *Dict. of Class. Geog.* s. v.), being only about five miles in circumference (Pliny, ii, 89). It was situated between Myconus and Rhenæa. It was one of the chief seats of the worship of Apollo, and was celebrated as the birth-place of this god and of his sister Artemis, or Diana (Spanheim on Callimachus's *Hymn to Del.*). We learn from Josephus (*Ant.* xiv, 10, 8) that Jews resided in this island, which may be accounted for by the fact that, after the fall of Corinth (B.C. 146), it became the centre of an extensive commerce (Cicero, *Manil.* 18; Pliny, iv, 22; xvi, 89; Livy, xli, 25; xliv, 29; Strabo, xiv, p. 688; Pausanius, iii, 23). The sanctity of the spot (Grote, *Greece*, iii, 222) and its consequent security, its festival, which was a kind of fair, the excellence of its harbor, and its convenient situation on the highway from Italy and Greece to Asia, made it a favorite resort of merchants (Strabo, x, p. 486). So extensive was the commerce carried on in the island that 10,000 slaves are said to have changed hands there in one day (Strabo, xiv, p. 668). It was especially celebrated for its bronze (*æs Deliacum*, Pliny, xxxiv, 2, 4; Cicero, *Rosc.* 46; *Verr.* ii, 34). Delus is at present uninhabited except by a few shepherds, but contains extensive ruins (Tournefort, i, 349 sq.). It, together with an adjoining island, is now called *Dhiles*. See Leake, *Northern Greece*, iii, 95 sq.; Ross, *Reisen auf. d. Griech Inseln*, i, 30; ii, 167; Sallier, *Hist. de l'Isle de Delos*, in the *Mém. de l'Acad. des Inscrip.* iii, 376; Schwenk, *Deliacorum*, Part I (Francof. 1825); Schläger, *De Rebus Deli* (Mitav. 1840).



Coin of Delos.

De Lyra. See LYRA.

De Maistre. See MAISTRE.

De'mas (Δημᾶς, probably a contraction from Δημήτριος, or perhaps from Δήμαρχος), a companion of the apostle Paul (called by him his fellow-laborer, συνεργός, in Philem. 24; see also Col. iv, 14) during his first imprisonment at Rome. B.C. 57. At a later period (2 Tim. iv, 10), we find him mentioned as having deserted the apostle through love of this present world, and gone to Thessalonica. B.C. 64. This departure has been magnified by tradition into an apostasy from Christianity (so Epiphanius, *Hæres.* li, 6), which is by no means implied in the passage (Buddei *Eccl. Apost.* p. 311 sq.).—Smith, s. v.

Demay. See TALMUD.

Deme'trius (Δημήτριος, probably from Δημήτηρ, the Greek name of the goddess Cybele), the name originally of several of Alexander's generals (see Smith's *Dict. of Class. Biog.* s. v.), and borne by several of the Macedonian and Syrian princes, two of whom are often referred to in the Apocrypha, and three in Josephus; also by two men mentioned in the New Test., and by several others in Josephus.

1. DEMETRIUS I, surnamed SOTER (Σωτήρ, "the Saviour," in recognition of his services to the Babylonians), king of Syria, was the son of Seleucus IV Philopator, and grandson of Antiochus the Great. While still a boy he was sent by his father as a hostage to Rome (B.C. 175) in exchange for his uncle, Antiochus Epiphanes (Appian, *Syr.* 45). From his position he was unable to offer any opposition to the usurpation of the Syrian throne by Antiochus IV; but on the death of that monarch (B.C. 164) he claimed his liberty, and the recognition of his claim by the Roman senate in preference to that of his cousin Antiochus V. His petition was refused from selfish policy (Polyb. xxxi, 12), and by the advice and assistance of Polybius, whose friendship he had gained at Rome (Polyb. xxxi, 19; Justin, xxxiv, 3), he left Italy secretly, and landed with a small force at Tripolis, in Phœnicia (2 Macc. xiv, 1; 1 Macc. vii, 1; Josephus, *Ant.* xii, 1). The Syrians soon declared in his favor (B.C. 162), and Antiochus and his protector Lysias were put to death (1 Macc. vii, 2, 3; 2 Macc. xiv, 2).

having thus gained possession of the kingdom, Demetrius succeeded in securing the favor of the Romans (Polyb. xxxii, 4), and he turned his attention to the internal organization of his dominions. The Græcizing party were still powerful at Jerusalem, and he supported them by arms. In the first campaign his general Bacchides established Alcimus in the high-priesthood (1 Macc. vii, 5–20); but the success was not permanent. Alcimus was forced to take refuge a second time at the court of Demetrius, and Nicanor, who was commissioned to restore him, was defeated in two successive engagements by Judas Maccabæus (1 Macc. vii, 31, 32, 43–45), and fell on the field (see Michaelis on 1 Macc. vii, 32, against Wernsdorf, *De fide Maccab.* p. 124 sq.; also Joseph. *Ant.* xii, 10, 2). Two other campaigns were undertaken against the Jews by Bacchides (B.C. 161–158); but in the mean time Judas had completed a treaty with the Romans shortly before his death (B.C. 161), who forbade Demetrius to oppress the Jews (1 Macc. viii, 31). Not long afterwards Demetrius further incurred the displeasure of the Romans by the expulsion of Ariarathes from Cappadocia (Polyb. xxxi, 20; Justin, xxxv, 1), and he alienated the affection of his own subjects by his private excesses (Justin, l. c.; comp. Polyb. xxxiii, 14). When his power was thus shaken (B.C. 152), Alexander Balas was brought forward, with the consent of the Roman senate, as a claimant to the throne, with the powerful support of Ptolemy Philometor, Attalus, and Ariarathes. Demetrius vainly endeavored to secure the services of Jonathan, who had succeeded his brother Judas as leader of the Jews, and now, from the recollection of his wrongs, warmly favored the cause of Alexander (1 Macc. x, 1–6). The rivals met in a decisive engagement (B.C. 150), and Demetrius, after displaying the greatest personal bravery, was defeated and slain (1 Macc. x, 48–50; Joseph. *Ant.* xiii, 2, 4; Polyb. iii, 5). In addition to the very interesting fragments of Polybius, the following references may be consulted: Justin, xxxiv, 3; xxxv, 1; Appian, *Syr.* 46, 47, 67; Livy, *Epit.* xlvii; Euseb. *Ann. Chron.* p. 165. He left two sons, Demetrius, surnamed Nicator, and Antiochus, called Sidetes, both of whom subsequently ascended the throne.—Smith, s. v. See ANTIOCHUS.

Tetradrachm (Attic Talent) of Demetrius I. *Obverse:* Head of Demetrius to the right. *Reverse:* Legend (in Greek), "Of king Demetrius Soter;" in the field, monogram and MI; in exergue, AΞP (161 of Ær. Seleuc.); seated female figure to the left, with sceptre and cornucopia.

2. DEMETRIUS II, surnamed NICĀTOR (Νικάτωρ, "the Victor;" so on coins, Eckhel, iii, 229 sq.; elsewhere NICĀNOR), king of Syria, was the elder son of Demetrius Soter, preceding. He was sent by his father, together with his brother Antiochus, with a large treasure, to Cnidus (Justin, xxxv, 2), when Alexander Balas laid claim to the throne of Syria, and thus escaped falling into the hands of that usurper. When he was grown up, the weakness and vices of Alexander furnished him with an opportunity of recovering his father's dominions. Accompanied by a force of Cretan mercenaries (Justin, l. c.; comp. 1 Macc. x, 67), and aided by Ptolemy Philometor (1 Macc. xi, 19; Diod. Sic. *Ecl.* xxxii, 1), whose daughter Cleopatra was promised to him, he made a descent on Syria (B.C. 148 or 147), and was received with general favor (1 Macc. x, 67 sq.). Jonathan, however, still supported the cause of Alexander, and defeated Apollonius, whom Demetrius had appointed governor of Cœle-Syria (1 Macc. x, 74–82). In spite of these hostilities, Jonathan succeeded in gaining the favor of Demetrius when he was established in the kingdom (1 Macc. xi, 23–27), and obtained from him an advantageous commutation of the royal dues and other concessions (1 Macc. xi, 32–37). In return for these favors the Jews rendered important services to Demetrius when Tryphon first claimed the kingdom for Antiochus VI, the son of Alexander (1 Macc. xi, 42); *but afterwards, being offended by his faithless ingratitude (1 Macc. xi, 53), they espoused the cause of the young pretender. In the campaign which followed, Jonathan defeated the forces of Demetrius (B.C. 144; 1 Macc. xii, 28); but the treachery to which Jonathan fell a victim (B.C. 143) again altered the policy of the Jews. Simon, the* successor of Jonathan, *obtained very favorable terms from Demetrius (B.C. 142); but shortly afterwards* Demetrius was *himself taken prisoner (B.C. 138) by* Arsaces (q. v.) VI *(Mithridates), king of Parthia,* whose dominions he had invaded (1 Macc. xiv, 1–3; Justin, xxxvi; Joseph. *Ant.* xiii, 5; Livy, *Epit.* lii). Appian and Justin place this captivity of Demetrius before the revolt of Tryphon, but the order of the narrative in the book of Maccabees is most probable (notwithstanding Wernsdorf, *De fide Maccab.* p. 137 sq.). Mithridates treated his captive honorably, and gave him his daughter Rhodoguna in marriage (Appian, *Syr.* 67); and after his death, though Demetrius made several attempts to escape, he still received kind treatment from his successor, Phraates. When Antiochus Sidetes, who had gained possession of the Syrian throne, invaded Parthia, Phraates employed Demetrius to effect a diversion. In this Demetrius succeeded, and when Antiochus fell in battle he again took possession of the Syrian crown (B.C. 128). Not long afterwards a pretender, supported by Ptolemy Physcon, appeared in the field against him, and after suffering a defeat he was assassinated, according to some by his wife Cleopatra (Appian, *Syr.* 68), while attempting to escape by sea (Justin, xxxix, 1; Joseph. *Ant.* xiii, 9, 3).—Smith, s. v. See CLEOPATRA.

Tetradrachm (Attic Talent) of Demetrius II. *Obverse:* Head of Demetrius to the right. *Reverse:* Inscription (in Greek), "Of king Demetrius Theos Philadelphus Nicator;" in exergue, ΞΡΟ (169? Ær. Seleuc.). Apollo to the left, seated on cortina, with arrow and bow.

3. DEMETRIUS III, surnamed EUCÆRUS (Εὔκαιρος, i. e. "the Opportune);" on coins THEOS PHILOPATOR and SOTER (Eckhel, iii, 245, 246), king of Syria, was the fourth son of Antiochus Grypus, and grandson of Demetrius II. During the civil wars that followed the death of his father, he was set up as king of Damascus, or Cœle-Syria, by the aid of Ptolemy Lathyrus, king of Cyprus; and after the death of Antiochus Eusebes, he and his brother Philip for a time held the whole of Syria (Josephus, *Ant.* xiii, 13, 4). His assistance was invoked by the Jews against the tyranny of Alexander Jannæus (q. v.); but, though he defeated this prince in battle, he did not follow up the victory, but withdrew to Berœa. War immediately broke out between him and his brother Philip; and Strator, the governor of Berœa, who supported Philip, having obtained assistance from the Arabians and Parthians, blockaded Demetrius in his camp, until he was compelled by famine to surrender at discretion. He was sent as a prisoner to Mithridates (Arsaces IX), king of Parthia, who detained him in an honorable captiv-

ity till his death (Josephus, *Ant.* xiii, 14). His coins bear date from 218 to 224 Ær. Seleucid., i. e. B.C. 94–88. See SYRIA.

Coin of Demetrius III.

4. Surnamed PHALEREUS (ὁ Φαληρεύς, *the Phalerian*), the zealous keeper of the Alexandrian library under Ptolemy Philadelphus, who at his suggestion undertook the Septuagint (q. v.) version, and secured the benefit of the criticism of the resident Jews upon the translation (Josephus, *Ant.* xii, 2, 1, 4, 13). See Ostermann, *De Dem. Phal. vita, rebus gestis et scriptorum reliquiis* (pt. i, Hersfeld, 1847, 4to).

5. A freed-man of Pompey, who rebuilt, at his request, the city of Gadara, of which he was a native (Josephus, *Ant.* xiv, 4, 4).

6. An Alexandrian Jew and alabarch, who married Mariamne (formerly the wife of Archelaus), by whom she had a son Agrippinus (Josephus, *Ant.* xx, 7, 3).

7. A silversmith at Ephesus, who, being alarmed at the progress of the Gospel under the preaching of Paul, assembled his fellow-craftsmen, and excited a tumult by haranguing them on the danger that threatened the worship of the great goddess Diana, and consequently their own craft as silversmiths. A.D. 52. Their employment was to make "silver shrines for Diana" (Acts xix, 24); and it is now generally agreed that these "shrines" (ναοί) were silver models of the temple, or of its adytum or chapel, in which perhaps a little image of the goddess was placed. These, it seems, were purchased by foreigners, who either could not perform their devotions at the temple itself, or who, after having done so, carried them away as memorials, or for purposes of worship, or as charms. The continual resort of foreigners to Ephesus from all parts, on account of the singular veneration in which the image of the goddess was held, must have rendered this manufacture very profitable, and sufficiently explains the anxiety of Demetrius and his fellow-craftsmen. See DIANA.

8. A Christian, mentioned with commendation in 3 John 12. A.D. cir. 90. From the connection of the apostle John with Ephesus at the time the epistle was written, some have supposed that this Demetrius is the same as the preceding, and that he had been converted to Christianity. But this is a mere conjecture, rendered the more uncertain by the commonness of the name.—Kitto, s. v.

Demetrius, bishop of Alexandria, is said to have succeeded Julian in that see A.D. 189 (Eusebius, *H. E.* v, 22). He was at first the friend of Origen, and committed the instructions in the school of Alexandria entirely to him (Eusebius vi, 3); but he afterwards, "overcome by human infirmity" (Euseb. vi, 8) seems to have become envious of Origen, and his enemy. When Origen (A.D. 228) was ordained presbyter at Cæsarea, Demetrius excluded him from the Church—an act which was not recognized by the churches generally. Demetrius died about 248.—Mosheim, *Commentaries*, cent. iii, § 30. See ORIGEN.

Demetrius, CYDONIUS, a theologian of the Greek Church, lived in the second half of the 14th century. He was born at Thessalonica or Byzantium, and probably received his surname from the circumstance that he lived at Cydone in Crete. The emperor John Cantacuzenus, who was greatly attached to him, raised him to the highest posts of honor in the state. When this prince thought of embracing monastic life, Demetrius determined to leave the world also, and both entered the same convent in 1355. Subsequently he went to Italy to study the theology of the Latin Church, and while there became a friend of Thomas Aquinas and other prominent Latin theologians. The year of his death is not known; the latest incident in his life is a letter addressed in 1384 to the emperor Manuel Palæologus, on the occasion of the latter ascending the throne. He is the author of a large number of works, and the translator of many Latin works into Greek. Most of his works have never been printed. His work, Περὶ τοῦ καταφρονεῖν τὸν θανάτον (*de contemnenda morte*, on *contemning death*), was published by R. Seiler (Basel, 1553), and by Kuinoel (Leipzic, 1786). A selection of his letters was published by Matthæi (Moscow 1776, and Dresden, 1789). For a list of his writings and their various editions, see Hoffmann, *Bibliographisches Lexikon*, i, 499; Fabricius, *Bibliotheca Græca*, i, 498; see also Hoefer, *Biographie Générale*, xiii, 553.

Demission, the name in Scotch Presbyterian churches for the act by which a minister resigns his charge. He can only resign it into the hands of the presbytery, as they ordained him. The court judges of the grounds of demission, and may refuse or comply. An old form in the Church of Scotland was as follows: "I, Mr. A. B., minister at C., for such causes, demit my ministry at the said parish of C., purely and simply into the hands of the presbytery of D., declaring that, for my part, the said parish shall be held vacant, and that it shall be free to the parish and presbytery, after due intimation hereof, by warrant of the presbytery, to call and plant another minister therein; and consent that this be recorded in the presbytery books, *ad futuram rei memoriam*. In witness whereof I have subscribed these presents at ——, etc." The demission being accepted, the church is declared vacant.—Eadie, *Eccl. Dictionary*, s. v.

Demiurge (Greek, δημιουργός, from δῆμος, people, and ἔργω, obs. *I work; a worker for the people*; hence, a *workman, craftsman*) was the name given by the Gnostics to the mysterious being by whom God is supposed to have created the universe. The Gnostics believed that the Supreme Being dwelt in a fulness (a pleroma) of inaccessible light; that he had created other beings, called æons, or emanations; that from these other æons were descended; and from these an inferior order of spirits were derived, among whom one called the Demiurge had created the world, and had rebelled against the Supreme Being. He makes out of matter the visible world, and rules over it. He was considered as the God of the Jews. "In the further development of the idea the Gnostic systems differ; the anti-Jewish Gnostics, Marcion and the Ophites, represent the Demiurge as an insolent being, resisting the purposes of God, while the Judaizing Gnostics, Basilides and Valentine, make him a restricted, unconscious instrument of God to prepare the way of redemption."—Schaff, *Hist. of Christian Church*, i, § 71; Mosheim, *Commentaries* (Murdock's translation, i, 45, 461; ii, 331). See GNOSTICISM.

Demme, CHARLES RUDOLPH, D.D., an eminent Lutheran divine, the son of Dr. Herman Demme, was born in Mühlhausen, Thuringia, April 10, 1795. He studied at the Gymnasium at Altenburg, and the universities of Göttingen and Halle. On the uprising of Germany to repel the invasion of Napoleon, he offered his services, and immediately repaired to the scene of conflict. His zeal led him into imminent danger; and at Waterloo he was carried, wounded and bleeding, from the field. He had been designed for the law. He came to this country in 1818, a young man of twenty-three, deeply imbued with the love of liberty, and an ardent admirer of American institutions. He entered the ministry in 1819, and accepted a call to Hummelstown, Pa. He removed to Philadelphia

in 1822, and became associate pastor with Rev. Dr. Schæffer of St. Michael's and Zion's churches, where he continued to labor for thirty-seven years with great fidelity and success. Worn out by great labors, for several years before his death he was unable to perform any active duties in the ministry. He died Sept. 1, 1863. Dr. Demme was a man of enlarged culture, an accomplished scholar, and a prince among preachers. As a pulpit orator he was not surpassed by any of his contemporaries. Illustrating in his life the power and blessedness of the Gospel, he brought to the service piety and learning, and made the ministry of the Word the grand aim of his life, with which no other pursuit was allowed to interfere. In 1839 he was elected to the professorship of the Theological Seminary, Columbus, Ohio, and in 1849 was appointed professor in the seminary at Gettysburg, but both positions he felt it his duty to decline. He was a member of the American Philosophical Society, and was honored with the doctorate of divinity from the University of Pennsylvania. He edited in German the works of Josephus, carefully comparing the translation with the original, and adding a large number of notes.

Demon; Demoniac. See DÆMON; DÆMONIAC.

Dem'ophon (Δημοφῶν), a Syrian general or military governor in Palestine under Antiochus V. Eupator (2 Macc. xii, 2).

Dempster, John, D.D., an eminent Methodist minister and promoter of theological learning in the Church, was born Jan. 2, 1794, in the town of Florida, N. Y. His father, the Rev. James Dempster, was a Scotchman, educated at the University of Edinburgh, and, though bred a Presbyterian, was received by Mr. Wesley as one of his colaborers, and sent by him as a missionary to America. He preached for a season in the city of New York, but for some reason became disconnected from Mr. Wesley's service, and was thereafter a pastor of a Presbyterian church in the town of Florida till his death in 1803. The son was too young to profit intellectually from his father's training, and grew up ignorant almost of books till his conversion at a Methodist camp-meeting in 1812, when he began a course of sedulous and systematic study, which he kept up during his whole life. In 1816 he entered the itinerant ministry of the Methodist Episcopal Church, and his successive appointments, as stated in the Minutes, were as follows: 1816, St. Lawrence, Lower Canada District; 1817, Paris, New York; 1818, Watertown; 1819, Scipio; 1820, superannuted; 1821-22, Watertown; 1823, Homer; 1824, Auburn; 1825-26, Rochester; 1827-28, Cazenovia; 1829-32, Cayuga District, Oneida Conference; 1833-35, Black River District; 1836-41, Missionary to Buenos Ayres; 1842, Vestry Street, New York; 1843-44, Mulberry Street; 1845-54, professor in Biblical Institute, Newbury, Vt., and Concord, N. H.; 1855-63, professor in Garrett Biblical Institute, Evanston, Ill. "His fields of labor were extremely diverse, and yet he occupied every one of them with marked success. From the borders of Canada on the north, to St. Augustine, Fla., on the south, whither he went in 1835, primarily in search of health, and thence to Buenos Ayres, in South America; from New England on the east to Illinois on the west, his name has, during the last half century, been familiar to the good, and associated with active labors for the promotion of the cause of Christ." By incessant labor he made up largely the deficiencies in his early education, acquiring the Latin, Greek, and Hebrew languages, and a fair amount of general culture. His mind, naturally metaphysical, turned especially to questions of philosophical theology, such as the divine nature and government, the will, etc. and on these topics he both spoke and wrote with great success. But the great work of his life was the organization of theological seminaries in the Methodist Episcopal Church. After eighteen years of labor, he saw two of these (Concord and Evanston) in full operation, largely as the fruit of his own industry, energy, and perseverance. He died Nov. 28, 1863, at Chicago. As a preacher he was at once simple, stirring, and profound. He seized with a master hand upon the great cardinal truths of revelation and providence, and wielded them with equal application to the judgment and the conscience. He left many MSS., especially a work on the will; but, thus far, all that has been published in permanent form is his *Lectures and Addresses* (Cincinnati, 1864, 12mo). See *Appendix* to his *Lectures; Minutes of Conferences*, 1864, p. 148; *Methodist Quarterly Review*, July, 1864; Stevens, *History of the Methodist Episcopal Church*, vol. iii.

Dempster, Thomas, a Scotchman of much miscellaneous erudition, was born at Muiresk, Aberdeenshire, about the year 1579. He studied at Cambridge, went to Paris, and obtained a temporary professorship in the College of Beauvais, where he manifested a very quarrelsome temper. He was afterwards professor at Pisa and Bologna, near which city he died, Sept. 6, 1625. Among his writings is a *Historia Ecclesiastica Gentis Scotorum*, "a work in which his desire to magnify the merits of his country often induced him to forge the names of persons and books that never existed, and to unscrupulously claim as Scotchmen writers whose birth-place was doubtful."—*New Gen. Dictionary*, iv, 359.

Den, the rendering in the Auth. Vers. of the following Heb. and Greek words: מְעָרָה, *meärah'* (Isa. xxxii, 14; Jer. vii, 11), a *cave* (as elsewhere rendered); מְאוּרָה, *meürah'*, a *hole* (as of a venomous reptile, Isa. xi, 8); סֹךְ, *sok*, a *booth or thicket* ("pavilion," Psa. xxvii, 5; "tabernacle," Psa. lxxvi, 2), hence a "covert" (Jer. xxv, 38) or *lair* of a wild animal (Psa. x, 9); so מָעוֹן, *maon'* (Jer. ix, 11; x, 22), or מְעוֹנָה, *meönah'* (Job xxxviii, 40; Psa. civ, 22; Cant. iv, 8; Amos iii, 4; Nah. ii, 12), properly a dwelling-place or habitation (as elsewhere rendered); מְנָחָרָה, *minharah'*, a *fissure* in the rocks, used for hiding (Judg. vi, 2); אֹרֶב, *e'reb*, an *ambush* ("lie in wait," Job xxxviii, 40), hence *lair* of a beast of prey (Job xxxvii, 8); σπήλαιον, a *cave* (as rendered John xi, 38), hence a *recess* for secrecy (Heb. xi, 38; Rev. vi, 15), or a resort of thieves (Matt. xxi, 13; Mark xi, 17; Luke xi, 38). See CAVE.

Antique Figure of a Man in a Den of Lions

In Dan. vi, the "*den* (Chald. גֻּב, *gob*, a pit; Sept. λάκκος; Vulg. *lacus*) of lions" is repeatedly named as a peculiar means of punishment for state offenders at Babylon. This usage, although not mentioned by any other ancient authority, has received remarkable confirmation (see "*Truths of Revelation demonstrated by an Appeal to Monuments*," etc., "by a Fellow of seven learned Societies," Lond. 1831) from certain remains discovered in that region by modern travellers (Kitto, *Pict. Bible*, note on Dan. vi, 16), especially one on a block of white marble found near the tomb of Daniel at Susa, and thus described by Sir R. K. Porter in his *Travels in Persia* (ii, 416): "It does not exceed ten inches in width and depth, measures twenty in length, and is hollow within, as if to receive some deposit. Three of its sides are cut in bas-relief, two of them with similar representations of a man apparently naked, except a sash round his waist and a sort of cap on his head. His hands are bound behind him. The corner of the stone forms the neck of the figure, so that its head forms one of its ends. Two lions in sitting posture appear on either side at the top, each having a paw on the head of the man." See LION.

Denarius (δηνάριον), the principal silver coin of the Romans, which took its name from having been originally equal to *ten* times the "as" (Pliny, xxxiii, 12), which was the unit. See FARTHING. It was in later times (after B.C. 217) current also among the Jews, and is the coin which is called "a PENNY" (q. v.) in the Auth. Vers. The denarii were first coined in B.C. 269, or four years after the first Punic War, and the more ancient specimens are much heavier than those of later date (Böckh, *Metrol. Unters.* p. 299, 469). Those coined in the early period of the commonwealth have the average weight of 60 grains, and those coined under the empire of 52.5 grains. With some allowance for alloy, the former would be worth 8.6245 pence, or 17 cents, and the latter 7.5 pence, or 15 cents. It has been supposed, however, that the reduction of weight did not take place till the time of Nero; and, in that case, the denarii mentioned in the Gospels must have been of the former weight and value, although the equivalent of the Greek δραχμή (Pliny, xxi, 109), or about 15 cents, is the usual computation (see Wurm, *De ponder. mensura*, p. 54). A denarius was the day-wages of a laborer in Palestine (Matt. xx, 2, 9, 13; Tobit v, 15); and the daily pay of a Roman soldier was less (Tacitus, *Ann.* i, 17). In the time of Christ the denarius bore the image of the emperor (Matt. xxii, 19; Mark xii, 16), but formerly it was impressed with the symbols of the republic. — Kitto, s. v.

The name of this coin occurs in the Talmud, in the form דִּינָר (see Lightfoot, at Matt. xx, 2). Pliny speaks of a *golden* denarius (*Hist. Nat.* xxxiii, 13; xxxiv, 17; xxxvii, 3; so also the Mishna, *Kiddush.* ii, 2, etc.), which was of the average weight of 120 grains, and was current for 25 of the silver coin. In later times a copper coin was called denarius. It has

Roman Denarii of the time of the Republic, now in the British Museum (actual size; weight of the first, 60.6 grains; of the second, 58.5).

even its representative in the modern Oriental *dinar*. See Greave, *Roman Foot and Denarius* (Lond. 1647); Rasche, *Lex. Rei Numariæ*, II, i, 138; Pinkerton, *Essay on Medals*, i; Akerman, *Catalogue of Rom. Coins* (Lond. 1834), i, 15-19; and the essays *De denario census*, by Christiern (Upsal. 1732) and Mayer (Gryph. 1702). See MONEY.

Denck. See DENK.

Denderah (Gr. *Tentyra*; Coptic *Tentore*, probably from *Tĕ-n-Athor*, the abode of Athor), a ruined town of Upper Egypt, situated near the left bank of the Nile, in lat. 26° 13′ N., long. 32° 40′ E. It is celebrated on account of its temple, dating from the period of Cleopatra and the earlier Roman emperors, and one of the finest and best preserved structures of the kind in Egypt. The principal temple measures 220 feet in length by about 50 in breadth, and has a noble portico supported on 24 columns. The walls, columns, etc., are covered with figures and hieroglyphics. Prominent among the former is that of Athor or Aphrodite, to whom the temple was dedicated. On the ceiling of the portico are numerous mythological figures arranged in zodiacal fashion, which

"Zodiac" of Denderah.

Northern Gate and principal Temple of Denderah.

have been regarded as a representation of the zodiac; but certain peculiarities have led some recent archæological travellers to doubt whether the figures were intended to have any reference to astronomy. There are many other sacred buildings at Denderah, including a temple of Isis. The whole, with the exception of one propylon, are surrounded by a sun-dried brick-wall, 1000 feet long on one side, and in some parts 35 feet high.—Chambers, *Encyclopædia*, s. v.

Denial. See SELF-DENIAL.

DENIAL OF CHRIST (Luke xii, 9). See PETER.

Denis, the French name for Dionysius (q. v.).

Denis or **Denys**, ST., 1. the so-called apostle of France and first bishop of Paris, is said to have been sent from Rome about 250 A.D. to preach the Gospel to the Gauls. After delays from persecutions brought on him by his zeal at Arles and other places, he arrived in Paris, where he made many proselytes. Pescennius or Sicinnius Lescennius, who was then the Roman governor of this part of Gaul, ordered Denis to be brought before him, along with other two Christians, Rusticus, a priest, and Eleutherius, a deacon. Finding them firm in their faith in spite of torture, Pescennius caused them to be beheaded, A.D. 272, or, as others say, A.D. 290. Gregory of Tours, Fortunatus, and the Latin martyrologists state that the bodies of the three martyrs were thrown into the Seine, but were recovered by a pious woman, and buried near the place where they lost their lives. Their supposed relics, in silver caskets, were afterwards taken to the abbey of St. Denis (see below). The *Acta* of St. Denis, written about the end of the 7th or beginning of the 8th century, is founded upon popular traditions, and the best historians of France hold that nothing can be certainly known of either the time or the place of the martyrdom, or of the genuineness of the relics of St. Denis. St. Denis was for a long time confounded with Dionysius the Areopagite (q. v.). He is honored as a saint in the Roman Church on the 9th of October. His name was the war-cry of the French soldiers, who charged to the cry *Montjoye St. Denis*.—Hoefer, *Nouv. Biog. Générale*, xiii, 674. See DIONYSIUS THE AREOPAGITE.

2. The ABBEY OF ST. DENIS, near Paris, named from the tradition that Dionysius the Areopagite was buried there. The abbey was founded by Dagobert I, king of France, A.D. 613. The vaults of the church of St. Geneviève, connected with the abbey, contained (before the French Revolution) the bodies of 25 kings, 10 queens, 84 princes and princesses, and those of Bertrand du Guesclin and Turenne. In 1793 a mob, headed by the Jacobins, destroyed the abbey and carried the contents of the vaults to the nearest cemetery. The abbey was restored in 1806, and after the Restoration Louis XVIII caused such of the remains as could be found to be restored. There is still at the abbey of St. Denis a chapter of St. Dionysius Areopagita, composed of the grand almoner (primicier), 10 canons of the first class (archbishops and bishops aged over 60), and 24 canons of the second class.—Pierer, *Universal-Lexikon*, s. v.

Denis, MICHAEL, a German Jesuit, was born at Schärding, on the Inn, Sept. 27, 1729. He entered the order of the Jesuits in 1747, and was ordained priest in 1756. In 1759 he was appointed professor at the Collegium Theresianum at Vienna, and in 1773 librarian of the library of Garelli. After the suppression of the Collegium Theresianum in 1784, the emperor Joseph II appointed him second "custos" and aulic councillor. He died Sept. 29, 1800. Denis was in friendly relations with Klopstock and other prominent scholars of Protestant Germany, and was esteemed for his amiable character and for his efforts in behalf of German literature. He became especially known by his attempt to imitate the poetry of the ancient bards; but his poems were more admired for their noble sentiments than their poetical value. He also wrote several bibliographical works, and a Latin elegy on the downfall of his order (*Fatum Jesuitarum*). A posthumous autobiography of Denis was published, together with other posthumous writings, by Retzer (*Literarischer Nachlass*, Vienna, 1801–1802).—*Allgem. Real-Encyklop.* iv, 285.

Denk, JOHANN, an Anabaptist of the 16th century. Nothing is known of his early years. In 1521 he was in Basle, and in 1523 at Nürnberg, as rector of the school of St. Sebaldus. He rejected infant baptism, and promulgated anti-trinitarian ideas. He was brought before the council of Nürnberg, and, being unable to defend himself, was expelled from the city for life. We next find him in Augsburg in the year 1525, where he wrote and edited his book *vom Gesetze Gottes*. In 1526 he came to Strasburg, where he seems first to have become acquainted with Louis Hetzer (q. v.). Their connection resulted in the publication of an edition of the Old Testament prophets. It was published in 1527 at Worms, and Luther speaks favorably of the translation as such. Denk's theological errors soon became known, and he was cited to a public disputation by the clergy of Strasburg. Bucer was his principal opponent, and based his charge, that Denk's teaching made sin a mere empty sound, upon the book *vom Gesetze Gottes*. Denk was defeated and driven from the city. After a few months spent in travelling, during which he ventured to revisit Nürnberg, he went to Basle, where he died of the plague in November, 1527. In his doctrines he was Anabaptist and anti-trinitarian, and the following dogmas were peculiar to him. He taught an internal word which, as the power of the Highest, produces knowledge and love in man; that salvation is not connected with the Holy Scriptures; the law, under which he comprehends the entire Scriptures, is opposed to the spirit; the sacraments are of a subordinate and superfluous character to believers; the wicked are finally to be saved, etc. Ranke (*Reformation*, iii, 559, cited by Hardwick, *Ch. Hist.* ii, ch. v) gives the following statement of Denk's views: "The basis of his doctrine is, that God is love, which, he said, flesh and blood could never have understood had it not been embodied in certain human beings, who might be called divine men, or the children of God. But in one of them love was supremely exemplified—in Jesus of Nazareth. He had never stumbled in the path marked out by God; he had never lost his unity with God; he was a Saviour of his people, for he was the forerunner of all those who should be saved. This was the meaning of the words that all should be saved by Christ." His followers were called *Dæmoniaci*, because they named seven evil spirits to their candidates for baptism, which they were supposed to possess, and which must be given up, while seven good spirits were to be received in their stead.—Herzog, *Real-Encyklopädie*, xix, 403; Trechsel, *Protest. Antitrinitarier*, i, 17 sq.; *Theol. Stud. u. Kritiken*, 1851, p. 121, 412.

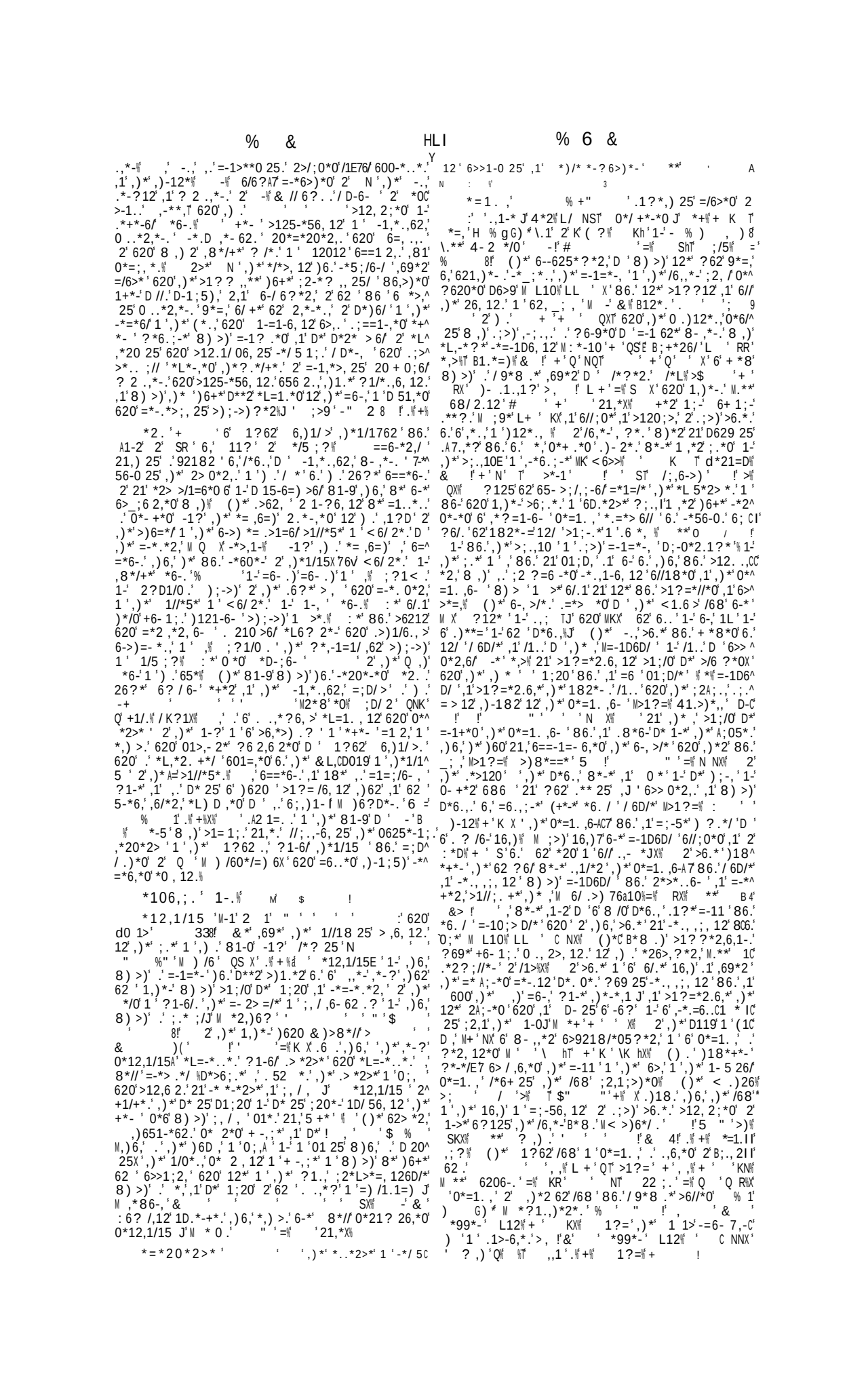
Denmark, a kingdom in Europe, with an area of 14,553 square miles, and in 1860 (according to the cen-

sus) 1,608,095 inhabitants in Denmark proper, and 124,020 in its dependencies.

I. *Church History.* — Willebrord is said to have been the first Christian missionary in Denmark (8th century), but he was not able to establish any permanent mission. Charlemagne extended the territory of Christianity to the frontier of Denmark, and his son, the emperor Louis, sent archbishop Eddo of Rheims as his ambassador to king Harold Klak, who had requested his aid. Eddo established a missionary school in Holstein. King Harold, who had been deprived of his throne, was baptized in 826, with his family and many of his countrymen, and soon after Ansgar (q. v.) was placed at the head of the Danish mission. Through his labors Christianity got a firm footing, but had still to struggle for about 150 years with paganism, until Canute the Great (1019–35), completed the Christianization of the entire country. The last stronghold of paganism, the island of Bornholm, was converted about 1060. The bishoprics which were established in Denmark were subordinate to the archbishop of Bremen until the 11th century, when a new archiepiscopal see was established for the north at Lund. The first bishops appointed in Denmark were Englishmen, and English influence prevailed until the 12th century, when Denmark allied herself more closely to France. In the following century French influence was supplanted by German. Convents were very numerous, but the enforcing of celibacy cost the pope more trouble in Denmark than in any other country. Until the 12th century the clergymen were generally married. In 1222 a papal legate came to Denmark to carry through the introduction of celibacy. Several hundred priests then appealed from the pope to a general council, but a national synod aided the legate in accomplishing his purpose. On the whole, Denmark was but little affected by the great ecclesiastical movements of the Middle Ages. The Inquisition remained almost unknown. Protestant ministers were called to Denmark as early as 1520, but the bishops, whom

Map of Denmark.

,)* -’ 8*6/,)’ - 60*’ 6/?1.,’ 20*=*20*2,’1 ’,) *’ 9 25 ’ 1=^W =1.*0’ ,)*’ //* 1-?6, 12¼ 25’ -*0*- >9’ ’ 0*>/6-*0’) ?.*/’ 2’ K ’ 2’ 6+1-’ 1 ’ -1,*.,62, . ? ’ *,’,) *’ *,’ 1 ’ 0*2.**’ 2’ K ’ 12/ ’56+*’ ,1’,) *’ ;,) *-62.’ *_;6/’ - 5),.’ 8 ,)’ ,) *’ 1?62’ 6,)1/ >.¼ ( ) *’ ;,) *-62’) ;->)’ 1D,6 2*0’ 6’ >1?=/*,*’ + >,1- ’ ;20*-’)- ., 62’ ’ 8)1’ 2’ NS 0*=1.*0’,) *’)1., /*’ D .)1=. ’ 620’ >6/!^ *0’ ;5*2)65*2’ M_¼+%X’ ,1’ *2?6-9’ ,1’ -*1-562A7*’ ,) *’ 762 .)’) ;->)’ 12’ 62’ *+625*/ >6/’ D6. .¼ 1,’ /125’ 6 ,*-’ ,) *’ 8)1/*’ >1;2,- ’A1 2*0’ ,) *’ ;,) *-62’) ;->)’ 620’ 1-’ ?1-*’ ,) 62’ 6’) ;20-*0’ *6-.’ ,) *’ *L*-> .*’ 1’62 ’ 1,) *,’-*/ 5 =2’ 86.’ 1-D 00*2¼ ( ) *’ 62 .)’) ;->)’ 0 0’ 21,’=-10;>*’62 ’ . ?/P1/ >6/D119.’ 1 ’,.’182’D ;,’601=,^ *0’,) *’ 12 *.. 12’ 1 ’ ;5.D ;-5’ 1 ’ N ’620’,) *’ .?6//*-’ 6,*>) .?’ 1 ’ ;,) *-’ 8) >)’ 8 ,)’ ,) *’ ,)-*’’ >12 *.^ . 12.’ 1 ’ 6 ,)’ 1 ’,) *’ 62> *2,’) ;->)’ 6-*’ -*56-0*0’ 6.’ ,) *’ . ?D1/ >6/D119.’ 1 ’,) *’ 62 .)’) ;->)¼ I()*’ .;D^ .*_;*2,’ 0*+*/1=?*2,’ 1 ’,) *’ 62 .)’) ;->)’ 86.’ 6’ -*^ /*>,12’ 1 ’,) 6,’ 1 ’ 4*-?62 ’ 2>/;0 25’ 6/.1’,) *’ 6, 12^ 6/ .?’ 1 ’,) *’ Q,)’ >*2,77 7’ *,’ 2’,) 6,’ +*-’ ’ >*2,;- ’ *2?6-9’ 86.’ 6’ ?10*/’ 1-’ 6//’ ;-1=*’ D ’ ,*’ [*6/’ 1-’ 1-* 52’ ? .. 12.¼ **’ > ! ’=18*- ;/ -*6>, 12’ 656 2.’,) *’=-*01? 262>*’ 5 ’>1?7*2>*0’ 2’ QKS’;20*-’ -¾4-;20,+ 5’ 620’ -¼ ;0*/D7>)¼ 1?*’ 7 *6-.’ 6 ,*-’ 4-;20,+ 5’ D*>6?*’ ,) *’ /*60*-’ 1 ’ 6’ =’ " "’ *+625*/ >6/’ =6-, ’ 620’ ;0*/D6>)’ 1 ’,) *’ # "=’ " "’ ;,) *-62’ =6-, ¼ ( ) *’ .,- *’ D*,8**2’,) *.*’,81’ =6-, *.’ ., //’ 0 + 0*.’ ,) *’) ;->)¼ ( ) *’ =6-, ’) *60*0’ D ’ 4-;20,+ 5’ 2>/ 2*.’,186-0.’ 125-*56, 126/ =- 2> ^ =/*.’ 620’)6.’ 2, ?6,*0’,) 6,’,) * ’ ?6 ’ D*’ 20;>*0’,1’ .*=6-6,*’ 6/,15*,)*-’ -1?6’ >122*>, 12’ 8 ,)’,) *’ .,6,*¼ 2/ ’6’ +*- ’/ ? ,*0’,1/*-6, 12’ 86.’ 5-62,*0’,1’ ?*?^ D*-.’ 1 ’ 0 ..*2, 25’ 0*21? 26, 12.’ 2’ *2?6-9’ ;2, / Q Q’ 2’ 6’ *8’ >, *.’ 12/ ’M 1=*2)65*2’ - 0*- >6’ *20.D ;-5’ 4/;>9..60, ’ /,126X’ *_;6/’ - 5),.’ 8*-* 5-62,*0’,1’0 ..*2,*-.’ D ;’6//’ -*.,- >, +*’/68.’ 8*-*’ -*^ =*6/*0’ 2’ Q Q’ 1-’ *2?6-9’ =-1=*-’ 620’,) *’ 2;?D*-’ 1 ’0 ..*2,*-.’)6.’ . 2>*’ >12. 0*-6D/ ’ 2>-*6.*0¼ 2’ Q R’ *2?6-9’ 86.’ + . ,*0’ 1-’,) *’ -.’, ?*’ . 2>*’,) *’ S,)’ >*2,;- ’D ’6’ 1?62’D .)1=’ 8)1’?*,’12’,) *’ =6-, 1 ’,) *’ 9 25’8 ,)’ 6’ -*20)’ -*>*=, 12¼ >>1->:25’,1’ ,) *’ 2*8’ 12., ,;, 12’1 ’ QSS’,) *’ ;,) *-62’) ;->)’ . ’ ,) *’ ..6,*’ >);->)’ 620’,) *’ 9 25’?6.,’D*/125’,1’ ,’D ;,’ 1,)>-8 .*’,) *-*’ .’62’6D.1/;,*’/ D*-, ’ 1-’6// -*/ 5 1);.’ .*>,.¼ I F’7()*’ -.,’>12., ,;, 12’1 ’,) *’ -1,^ *.,62,’) ;->)’ 1 ’ *2?6-9’86.’0-682’ ;=’DE’6’ 12P’ ?,,**’,) *2’-*+ .*0’ ;,) *-’620’,) *’1,) *-’,) *1/15^ 62.’1 ’& ,,*2D*-5’620’=;D/ .)*0’8 ,)’.1?*’600, 12.’ 1 ’,) *’ 9 25’ 2’ N¼ ( ) *’ >10*’1 ’ SQN ?60*’,) *’ 9 25’ ,) *’ .;=-*?*’) *60’1 ’,) *’) ;->)’ 8 ,)’6/?1.,’6D.1/;,*’ =18*-.¼ ( ) *’ 9 25’*L*-> .*.’ *>>/*. 6.,>6/ A;-.0 >,12’ ,) -1;5)’,) *’ D .)1=.’6//’ 1 ’ 8)1?’ 6->’ *_;6/’ 2’ -629’ ,) 1;5)’,) *’ D .)1=’ 1 ’U*6/620’ .’ >12. 0*-*0’(% ’ 9 ’% 1’6.’) *’)6.’,) *’ _1.,’*L,*2. +*’0 1>*.*’620’,) *’ =-*-156, +*’ 1 ’>-182 25’,) *’ 9 25¼ +*- ’D .)1=’)6.’ ;20*-’) ?’.*+*-6/=-1+1.,.’ 8)1’)6+*’ *6>)’,) *’ .;=*-^ 2,*20*2>*’ 1 ’6’0 .,- >,’ 8) >)’,) * ’+ .,’12>*’ 6’ *6-¼ ( ) *’ 6-*’ */*>,*0’D ’,) *’ =6.,1-.’ 1 ’,) *’ 0 .,- >,’ 620’ >127?*0’D ’,) *’ D .)1=¼ ( ) *’ =6.,1-.’) 6+*’,) *’ - 5),’ ,1’ *2565*’ >)6=/6 2.¼ ’5-*6,’ >)625*’ 2’,) *’ *>>/>. ’ 6 ,>6/’ >12.,,;, 12’1 ’ *2?6-9’,119’=/6>*’ 2’ Q Q’ 2’ >12.*_;*2>*’ 1 ’,) *’ =1/ ,>6/’ -*+1/;, 12’1 ’,) 6,’ *6-¼ ;// -*/5 1;.’ / D*-, ’ 86.’ 5-62,*0’,1’ 6//’ 0*21? 26^ , 12.’620’,) *’ - 5),’1 ’.*/ C51+*-2?*2,’86.’=-1? .*0’ ,1’,) *’ .,6D/.)*0’) ;->)¼ ( ) *’ 0 *,.’ 1 ’ *2?6-9’)6+*’ *+*-’ . 2>*’ D**2’1>>;=*0’8 ,)’,) *’ 0.>;.. 12’1 ’ +6-1;.’ 0-6 ,.’ 1 ’6’2*8’) ;->)’ 12., ,;, 12’D ;.’ .1’ 5-*6,’ .’,) *’ 0 +*-5*2>*’ 1 ’-*/ 5 1;.’=6-, *.’,) 6,’6.’ *,’ M QSQX’,) *’ -*>12.,-;>, 12’1 ’,) *’) ;->)’ 12’,) *’ D6. .’ 1 ’.*/ C51+*-2?*2,’)6.’21,’D**2’6>>1?=/.)*0¼ ( ) *’ =- 2>=/*’1 ’-*/5 1;.’ / D*-, ’ 2’,) *’ ?*62’ 8) /*’) 6.’ 81-9*0’.1’D*2* >6// ’,) 6,’,) *’ >/*-5 ’620’/6 , ’1 ’6//’ =6-, *.’ 6-*’ 6/?1.,’ ;262 ?1;./ ’ 2’ 6+1-’ 1 ’?6 2,6 2^ 25’,¼ &) *2’ 2’ Q S’,) *’ ? 2 .,- ’ .1/ > ,*0’,) *’ 1= 2C ’ 12.’1 ’,) *’ 0 1>*.62’ . 210.’>12>*-2 25’,) *’ 6D-156, 12’ 1 ’>1?=;/.1- ’ 6=, .?’,) * ’5*2*-6// ’60+1>6,*0’,¼ ¼’ " %! ’ 7()*’ -.,’/ ,;-5 ’M6/,6-CD119X’ 1 ’,) *’ 62 .)’) ;->)’ 86.’ */6D1-6,*0’ 2’ ’D ’D .)1=’ 6/C’ /60 ;.¼ ’170*-’ 1 ’9 25’)- ., 62’ ’6’ - ,;6/’ -*5;^ /6, 25’,) *’ *2, -*’ 0 + 2*’ .*-+ >*’ 86.’ ..;*0’ 2’ SQ ’ 620’.112’6 ,*-’ 2’>122*>, 12’8 ,)’6’2*8’*0 , 12’1 ’,) *’ 6/,6-CD119’86.’ =-*.>- D*0’ 1-’ 5*2*-6/ ;.*¼ (186-0.’ ,) *’ >/1.*’1 ’,) *’ Q,)’ >*2,;-A ’6’2*8’/ ,;-5A!!’*2, -*/ ’ =*-+60*0’D ’-6, 126/ ., >’+*8.’86.’0-682’;=’D ;,’ ,. 2,-10;>, 12’ 21,8 ,)..,620 25’,) *’ =-*+6/*2>*’ 1 ’ 6^ , 126/ .?’6?125’,) *’ >/*-5 ’86.’ -*56-0*0’6.’0625*-^ 1;.¼ *,’ ,) *’ *>/*. 6., >6/’6;,)1- , *.’ >12; +*0’6, ’62 ’0*+ 6, 12’ -1?’,) *’ 1-?;/6- *.’ 8) >)’ 20 + 0;6/’ >/*-5 ?*2’.68’ ,’,1’?69*¼ ’2*8’0-6 ,’1 ’6’/ ,;-5 ’ 86.’=;D/ .)*0’2’ QNR’D ’D .)1=’ < 2.,*-) ;,’5*2*-^ 6/ ;2 1-?, ’ 2’ *L,*-26/ 81-.) =’)6.’2*+*-’ D**2’ -*^ .,1-*0¼ ’ >12. 0*-6D/*’ =6-, ’6?125’,) *’ >/*-5 ’ . 656 2.’,) *’ =- 2> =/*’1 ’D 20 25’,) *’ 8)1/*’) ;->)’,1’ 12*’/ ,;-5 ’620’2’ 6+1-’1 ’*L,*2. +*’/D*-, *.’1 ’ 20 ^ + 0;6/’>125-*56, 12.¼ 2’,) *’0;>) ’1 ’ /*.8 >9’6’-6^ , 126/ ., >’/ ,;-5 ’86.’0-682’;=’ 2’ R’DE’,) *’ .;=*-^ 2,*20*2,’5*2*-6/ 0/*-’620’6,’ -.,’5*2*-6// ’ 2,-1^ 0;>*0’ *,’ .112’ ,.’ ;.*’ 86.’/*’ ,’,1’,) *’ 1=, 12’1 ’,) *’ >125-*56, 12.¼ 2’ : 1/.,*2’/ ,;-5 *.’ 8) >)’ .,- >,/ ’ 60)*-*’ ,1’,) *’ ;,) *-62’,) *1/15 ’)6+*’ 6/86 .’D**2’ 620’6-*’ ., //’ 2’ ;.*O ’$ 1!’ M ¾X’ ( ) *’ ;,) *-62’) ;->)’ 1-’6.’ ,’ .’ 218’ M. 2>*’ Q RX’ 1 >6// ’>6//*0’ ,) *’ *1=/*.’) ;->)’) 6.’R’D .)1=.’+ [¼’ 1-’,) *’ ./620.’ ’ 1-’B ;.^ /620’620’ 1-’ >*/620¼ +*- ’D .)1=-> .’0 + 0*0’ 2,1’6’2;?D*-’1 ’=-1+1.,-*.¼ ( ) *’ 2;?D*-’1 ’=-1^ +1.,’6?1;2,.’,1’ S’ 1-’ *2?6-9’620’ R’ 1-’ >*/620¼ ’,) *1/15 >6/’6>;/, ’.’>122*>,*0’8 ,)’,) *’ $2 +*-.,’ 1 ’ 1=*2)65*2¼ ?125’,) *’ =*- 10 >6/ ’ 8*’ ?*2, 12’ ,) *’ ’ ’’ " "’ ?/ 1’,) *’ 1-562’1 ’,) *’ M 18C’) ;->)X’ =6-, ’1 ’4-;20,+ 5¼ ’ 62 .)’?.. 126 ’ .1> *,’ 86.’*.,6D/.)*0’6,’ 1=*2)65*2’2’ QK ’620’ .;.,6 2.’6’?.. 12’2’ 20 6¼ MK¾X’ ,) *-’0*21? 26^ , 12.¼ >>1-0 25’,1’,) *’ >*2.;.’1 ’ *D¼ QS ’,) *-*’ 8*-*’ 2’,) 6,’ *6-’2’ *2?6-9’ =-1=*-’ K R ’.1;/.’21, D*/125 25’,1’,) *’ .,6,*’ >);->)’ 2’6’,1,6/ =1=;,6, 12’1 ’ S Q RS’+ [¾d B*8.’ K ’1’ <1-?12.’KS ’1’ 6=, .,.’ KK ’1’ *1-?*0’ VS ’1’ 1?62’ 6,)1/*.’ K ’1’ 2^ 5/>62.’ ’1’ K K’?*?D*-.’1 ’,) *’ =1.,1/>6/’) ;->)’1’ >1-0 25’,1’62’6-, >/*’1 ’12*’1 ’,) *’ 62 .)’D .)1=.’2’ : *-[15 .’5 =6 + %!’12/ ’ S ’.1;/.’MR ’2’ *2^ ?6-9’ =-1=*-X¼ ( ) *’ <*,)10 .,’ = .>1=6/’) ;->)’)6.’ 6’ /1;-.) 25’?.. 12’2’ 1=*2)65*2’;20*-’,) *’ >)6-5*’ 1 ’ =6.,1-’ & //*-;=’ 8)1.*’ /6D1-.’,) *-*’ M. 2>*’ Q QX’)6+*’ D**2’ +*- ’.;>>*.. ;/¼ 2’ */*562,’ <*,)10 .,’ = .>1=6/’) ;->)’)6.’A;.,’ D**2’ *-*>,*0’ 2’,) 6,’ 620’)6.’6’/6-5*’ >125-*56, 12’1 2’ QSS’,’) 60’.*+*2, C’ ,)-**’ ?*?D*-.’ 620’)0 6==1 2,?*2,.’ 2’ 1;-’1,) *-’ ,18 2.’1 ’,) *’ <*,)10 .,’ ;206 C.>)11/) 60’,81’) ;20-*0’ >) /0-*2’620’,) *’ =;D/ >6, 12’1 ’6’ 8**9/’ ;206 C’ .>)11/ =6=*-’) 60’D**2’ >1?7?*2>*O¼ ( ) *’ 1?62’ 6,)^ 1/>.’) 6+*’ ,81’ =*- 10 >6/.’M,) *’ $ ’ " "’ ? / ’620’6’ =1/ , >6/’ =6=*-X’620’62’ *.,6D/.)?*2, 1’,) *’ .,*-.’1 ’)6- , ’6,’ 1=*2)65*2¼ ( ) *-*’ 8*-*’ 2’ Q R’.*+*2’>125-*56, 12.’1 ’ ;.) *-62’ .*>*0*-.’ 8 ,)’ 12*’ =*- 10 >6/’ M *-.;2OX¾ ’ : *-[15’5 =6 "% 1’ ’ Q ’M6-,¾D ’,) *’ 62 .)’D .)1=¼ *’ 25*),1 ,X¼ **’ 12,1== 062’ & ’ ’ ’ (% !’M 1C’ =*2)¼ XT’ < ;2,*-’) " + " ’ (’ "’ ’7 ’M * =.¼ QKNXT’ & 55*-.’) " + ’$ =’ "’/ ’N S’. ¾T’ >)*?’6 ’< = +’ Q R’=¼ NK’620’K ’620’6 ’& ’ ’ Q Q¾ *21? 26, 12.’ ( ) *’ ( )-** ’ ,) *’ 0*. 526, 12’ 1 ’62’6..1> 6, 12’1 ’0 ..*2, 25’ ? 2 .,*-.’-*. 0 25’ 2’ 12012’1-’,) *’ ?*?*0 6,*’2*5)D1-)110’D*/125 25’,1’ ,) *’ -*.D ,*-62’ 20*=*20*2,’620’ 6=, .,’0*21? 26^ , 12.¼ ,’ .’ ;.;6// ’92182’6.’-" ’ ? ’ ; ’ ’ 5 ’ ’ ’ ’ ’620’& *.,? 2C



*=1. , 12' M/%XA' 27) *' *>>/*. 6., >6/ /6 8' 1 ' ,) *' 1?62') ;->) ' .' ,) *' 0*=- + 25' 6' =- *.,' 1 ',) *' =- + ^ /*5*. ' 620' 1-D 00 25') ?',1'=*- 1-?',) *' 0 ;, *.' 1 ') .' ;2>, 12 ' D ;,' 21,'0*=- + 25') ?' 1 '1-0*-.% >>1-0 25' ,1' ,) *' 62> *2,' 0 .> =/ 2* ' ,) *' 0*=1.*0' =*-.12' /1.,' 21,' 12/ ') 7 1 >*©620' D*2* >*' 1-*+*-7' D ;,') *' 6/.1' 1- * ,^ *0' ,) *' =- + /*5*.' 1 'D .' -629 ' 620' 86.' -*0 ;>*0' 2,1',) *' /6 ,A% ;,'. 2>*' ,) *' K,)'>*2,;- ',) .' *L,*20*0' ?*62^ 25' 1 ',) *' ,*-?') 6.' D**2' *L=-*. .*0' D ',) *' 8 1-0' 1 9 ' M_% %XT' 6,' 6'/6,*-' 06,* ' 0 ., 2>, 12' 86.'6/.1' ?60*' D*,8**2' +*-D6/ 620' ,) *' ?1-*' .1/*?2' 0*5-606, 12% ( ) *' /6,,*-'12/ ' 86.'6>>1?=62 *0' D ',) *'/1..' 1 ',) *'©=- /*5*.' 1 '>/*- >6/ -629% 2' % 1' 6')1=*' 1-' ;,;-*' -* 2^ .,6,*?*2,' ? 5),' D*') */0' 1 ;, ' 1-' 1,) *-8 .*% 2' ,) *' 1-?*-' >6.*' ,' 86.' , '% !' 2',) *' % ']% % 1' 6' . ?=/*' A ;05?*2,' 1 ',) *' >1?=*,*2,' 6 ;,) 1-^ , ' 0*=- +*.' ,) *' 5 ; /, ' =6-, ' 1-*+*-' 1 ') .' =- + /*5*.') .' A ;- .0 >, 12' 620') .' D*2* >*' D ;,') *' .' -*56-0^ *0' 6.' D*/125 25' ,1' ,) *' >/*-5 f' ( ) *' >- ?*.' 8) >)' 8*-*' =;2 .) *0' 2',) .' ?622*-' 6-*' ? ;-0*-' =* A ;- ' 2©' >*.,' 60 ;/,*- ' *,>% ' % 1' D* 25' 62' 6>,' 1 'A ;- .^ 0 >, 12' >62' D1' 20 >,*0' D ' 62 ' 0 1>*.62' D .) 1=' 8) 1') 6.' D**2' >12 -?*0' D ',) *' 1=*' *+*2',) 1 ; 5) ') *' D*' 21,' 3'>12.*>-6,*0% ',) *' =-*.*2,' 06 ' 0*=1. , 12' >6221,' D*' 2 / >,*0' .1' 6-' 6.',) *' > + / - 5),.' 1 '=6-, *.' 6-*' >12^ >*-2*0' 8 ,) 1 ; ',) *' >12.*2,' 1 ',) *' .*>;/6-' 6 ;,) 1-, *.% ' & *,[*-' ;% <7*/,*') " = + 1' ' % MK%X' 2% ,) *') ;->) ' 1 ' 25/620 ' D ' 6212' KK' .*2^ ,*2>*' 656 2.,' 6' ? 2 ..,*-' 1 ' 0*=1. , 12' -1?' ,) *' ? 2 .^ ,- ' .) 6//' D*' =-121;2>*0' D ',) *' D .) 1=' 12/ ' 8 ,) ' ,) *' 6.. ,62>*' 1 ') .' >) 62>*//1-' 620' 0*62' M ',) *' ' ?6 ' >12^ +*2 *2,/ ' D*') 60X' 620' .1?*' 1 ',) *' =-*D*206- *. ' ',) *' >1 ;-,' D*' 9*=,' 2*6-' ,) *' >6,) *0-6/ >) ;->) ' 1-' 1 ' ,) *' 6->) 0*6>12 ' ') *' ?6 ' D*') 60' >12+*2 *2,/ ' 620' ,81' 1,) *-' 6,'/*6.,'5-6+*' ? 2 .,*-.' 620' =-*6>) *-.' ,1' D*' >6//^ *0' D ',) *' D .) 1=' 8) *2',) *' >1 ;-,' .'9*=,' 2' 1,) *-'=/6>*.% MN%X' 2' >1,/620 ' ',) *' ? 2 ..*-' 1 '6' =6- .)' 8) 1') 6.' D**2' 5 ; /, ' * ,) *-' 1 ' ? ?1-6/ 620' .>6206/1 ; .' >120 ;>, ' 1-' 1 '=-*6>) 25' 1-' 1,) *-8 .*' =;D/ .) 25' 01>,- 2*.' >12^ ,-6- ',1' ,) *' .,6206-0.' 1 ',) *' >) ;->)' ,1' 8) >)') *') 6.' 0*>/6-*0') .' 60) *-*2>*' 1-' 1 ' >12,; ?6> 1 ;./ ' .*,, 25' 6. 0*',) *' 6 ;,) 1-, ' 1 ',) *' -*.D ,*- 62' >) ;->)C>1 ;-,. ' ?6 ' D*' 0*=1.*0' -1?') .') 1/ ' 1 / >*' D ' ,) *7' >) ;->)(' >1 ;-,..% ',) .' ?*62.') *' .' 0*=- +*0' 21,' 12/ ' 1 ') .' *>>/*. 6.,>6/ 0 52 , ' D ;,' 1 ',) *' ,*?=1-6/ , *.' 1 ') .' D*2* >*' M.,6,% RK' >% X' 620' ,) *' D*2* >*' D*>1?*.' +6>62,'A ;.,' 6.' ') *' 8*-*' 0*60% : *' ?6 ') 18*+*-' D*' -*.,1-*0' ,1' ,) *' *L*-> .*' 1 ',) *' ? 2 .,- ' 620' ,1') .' =1^ . , 12' 6.' 6' ? 2 ..*-' 1 ' ,) *') ;->) ' D ',) *' 4*2*-6/ .^ .*?D/ ' D ;,') *' >6221,' 1 1' >1 ;-..*' D*' -*.,1-*0' ,1') .' D*2* >*' 620' , .' >12. 0*-*0' --*5 ;/6-' ,) 6,') *' .) 1 ;/0' D*' .1' *+*2' D ' 6' : *8' =-*. *2,6, 12' D ',) *' =6,-12' D*^ >6 ;. *' ,) *' ., 5?6' 6,,6>) *0' ,1') .' >) 6-6>,*-' D ' D .' 0k% =1. , 12' .' / 9*/ ',1' 6 *>,') .' ;. * ;/2*..% &) *-*' .*2^ ,*2>*' 1 '0*=1. , 12' .'=-121;2>*0' D ' 62' 2 *- 1-' >) ;->)(' >1 ;-, ',) *' A ;05?*2,' 1 ' 8) >)' .' -*+*-.*0' 12' 6=-=*6/ ,1' ,) *' 4*2*-6/ ..*?D/ ' ,' .') *0' ,) 6,' ') 60' 2*+*-' D**2' =-121;2>*0' D ;,' ',) *' .*2,*2>*' D*' 6 -?*0' ,' 69*.' * *>,' -1?',) *' 06,*' 8/A*2' ,' 86.' =-121;2>*0' D ' ,) *' 2 *- 1-' >1 ;-,' 620' -1?' ,) 6,' 06,*' ,) *' ? 2 .,*- ,' - 5),' ,1' ,) *' =-1 ,.' 1 ') .' D*2* >*' >*6.*.% *2,*2>*' 1 '0*=1. , 12' >6221,' D*' =-121;2>*0' D ' 6' =-*.D ,*- ' 2' ,) *' 6D.*2>*' 1 ',) *' ? 2 .,*-' *L>*=,' D ' ,) *' 6 ;,) 1- , ' 1 ',) *' 4*2*-6/ ..*?D/ J' M) 627D*-.' 6 % 1 Q% %X% M %X' ( ) *' 5-1; 20.' 1 ' 0*=1. , 12' 2' ,) *' -1,*.,62,' = .>1=6/) ;->)' 6-*' .,6,*0' 2' ,) *' Q ,)' 6212' 1 ',) *' 12+*2, 12' 1 ' QNKT' 620' 6212' QR' =-1+ 0*.' ,) 6, ' ' f) *2' 62 ' ? 2 .,*-' .' *5-60*0' -1?',) *') 1/ ' ? 2 .©' ,EI7') *' .' 0*5-60*0',) *-* -1?' *2, -*/ ' 620' 21,' -1?' 6') 5) *-' ,1' 6' /18*-' 1-0*-' 1 ',) *' .6?*%7' *=1. , 12' 0 .=/6> 25' 620' 6//' / 9*' *L=-*.. 12. ' 6-*' ,) *' .6?*' 6.' 0*5-606, 12% 1' 0*5-60*0' ? 2 ..*-' .) 6//' D*' -*.,1-*0' ,1' ,) *' ? 2 .,- % K% &) *2*+*-' 6' >/*-5 ?62' .) 6//' D*' 0*5-60*0' ,) *' D .) 1=' 8) 1' =-121;2>*.' .*2,*2>*' .) 6//' 8 ,) 1 ; ,' 0*/6 ' 5 +*' 21, >*' ,) *-*1 ' ,1' *+*- ' ? 2 .,*-' 620' +*.,- ' 2' ,) *' 0 1>*.*' 620' 6/.1' ,1' 6//' ,) *' D .) 1=. 1 ',) .') ;->) ' 620' 8) *-*' ,) I *' .' 21' D .) 1=' ,1' ,) *' .,620 25' >1? ? ,,**%J' *>' / ! *=-6+ , ' M 6,% % 8!' ,) *' ?1-6/ + ' 620' % ' 1 ' ?62 .' 26,;-*' (/ *' >- =,;-*.' 0*^ .>- D*' ?1-6/ 51102*..' 620' 1D*0 *2>*' 6.' ,) *' =;-.; 25' 1 ' 6' .,-6 5),' 1-' - 5),' / 2*' M) *2>*' ,) *' 81-0' -*>, ^ ;0*J% *=-6+ , ' .' ,) *' ,;-2 25' 6. 0*' 1;,' 1 ',) 6,' .,-6 5),' / 2*% ,' .',) *' 6;/,' 620' >1--;=, 12' 1',) *' 26,;-*' 1 '*+*- ' ?62',) 6,' 26,;-6// ' .' *25*20*-*0' 1 ',) *' 1 .=- 25' 1 ' 06?' 8) *-*D ' ?62' .' +*- ' 6-' 512*' I ' 6.' 6-' 6.' =1.. D/*' ' " ' "' ' , ' 8' -1?' 1- 5 26/ - 5),*1 ; .2*.. J' *,>%M L,) ' -,%1 ' */%1 ') ;->)' 1 ' 25/620T + ,) ' 1 ',) *' <%) ;->) X% 2',) *' 26,;-*' 620' *L,*2,' 1 '0*=-6+ , ' .*>' ' < ! *=- +6, 12 ',) *' 6>,' 1 ',69 25' 686 ' -1?' 62' *>^ >/*. 6.,>' 62 ' D*2* >*' 1-' 1,) *-' .= - ,;6/ =-* *22*2,' 8) >)') *' ?6 ') 1/0' M.**' 6212' KK' " "' '6 8' ' 2' 25/620' ,) .' ?6 ' D*' 012*' * ,) *-' M X' D ' 6' .*- C' ,*2>*' 0*>/6-6,1- ' 2' ,) *' =-1=*-' >1;-,' 12' ,) *' 5-1;20' 1 '6,,6 20*-' 1-' >12+ >, 12' 1 ',-*6.12 ' */12A7' 1-' 62 ' 1,) *-' 2 6?1;.' >-?*' 1-' 1 ' >12+ >, 12' 1-') *-*. ' 2^ 0*/ , ' 1-' 5-1..' ?? 1-6/ , ' 1-' 1-' 6-? 25' 1-',-60 25' >12,,-6- ',1' /68 ' ' 620' K' *,%>% S' .% N T' 1-' MKX' 2' =;-.;62>*' 1 '0 +*-.' =*26/ .,6,;,*-.' 8) >)' 0*>/6-*' ,) *' D*2* >*' +1 0' 1-' .1?*' 212 *6.62>*' 1-' 2*5/*>, ' 1-' */.*' .1?*' ?6/ *6.62>*' 1-' >-?*' 6.' . ?12 T 1-' ?6 2,6 2^ 25' 62 ' 01>,- 2*' 2' 0*-156, 12' 1 ',) *' 9 25 .' .;=-*?6C' > P=' 1 ',) *' ( ) -, C2 2*' -, >/*. ' 1-',) *' 119' 1 ' 1?^ ?12' -6 *-T' 1-' 2*5/*>, 25',1' -*60' ,) *' / ,;-5 ' 620' 6-, >/*.' 2' ,) *' >) ;->) ' 620' ,1' 0*>/6-*' 6..*2,' ,1' ,) *' .6?*' 8 ,) 2' ,81' ?12,).' 6 ,*-' 20 ;>, 12T 1-' ;. 25' 62 ' 1,) *-' 1-?' 1 '=-6 *-',) 62',) *' / ,;-5 ' 1 ',) *') ;->) ' 1 ' 25/620T 1-' >12, 2;*0' 2*5/*>, ' 6 ,*-' 1-0*-' -1?' ,) *' D .) 1=' 1//18*0' D ' .*_;*.,-6, 12 ',1' -*. 0*' 12' ,) *' D*2* >*% 2' ,) *.*' /6,,*-' >6.*.' ,) *' D*2* >*' .' +1 0' 8 ,) 1 ; ,' 62 ' 1-?6/ .*2,*2>*' 1 '0*=- +6, 12' M ,*=) *2 .' ' N X% ' D .) 1=' ?6 ' D*' 0*=- +*0' 1 ') .' D .) 1=- >' D ;,' >6221,' D*' 0*=1.*0' ,) *' >) 6-6>,*-' 1 ' 6' D .) 1=' / 9*' ,) 6,' 1 '6' =- *.,' D* 25' 20*/ D/*% ( ) *',- ^ D ; 26/' D ' 8) >)' ,) *' D .) 1=' 1 ' /15) *-' 86.' 0*=- +*0' 2' QKK' >12. .,*0' 1 ',) *' 6->) D .) 1=' 620' ,) *' 1,) *-' D .) 1=.' 1 ',) *' =-1+ 2>*T 620',) .' =-*>*0*2,') 6+ 25' D**2' *.,6D^ / .) *0' 81 ;/0' =-1D6D/ ' D*' 60) *-*0' ,1' 12' 62 ' ; ;-.*' 1>>6. 12' 21,F-,) .,620 25',) 6,' ,) *' 6->) D .) 1=' 6/12*' ? 5),') 6+*' ;// 6 ;.,) 1- ,A!' ,1' 0*=- +*J' M - ==. .' ' '" ' " " '=% X% ' AD6?D*-.' 6 % !' **' '9' / ! *=; , ' .,620.' 2' 1 ;-' +*-. 12' 6.' 6' ,-62./6, 12' 1 ' ,81' : *D% 620' 12*' 4-**9',*-?% % ( ) .' -*20*- 25' 1>>;-.' 2' 25.' L ' 1 ',) 1' (M/ ,*-6// ' ' E' % 1' 6==6-*2,/ >12.,,;,*0' 6' " +' D ' >1?? 12' >12.*2,' 1 C,) *' 01?C' , .) ' >/62.' =- 1-',1' -1 6/, % **' $ ' ,' .' 6/.1' .=19*2' 1 ',) *' 1 >*-.J' 1-' >) * .' 1 ',) *' >1?? ..6-6,' 6==1 2,*0' D ' 1/1?12' M ' 25.' + 'S' *,>%X' **' + $ L # ! K% ( ) *' .6?*%-*20*- 25' 1>>;-.' 2' .,) *-' + ' RT' L N' 1 ',) *' E(11% " "(I*% "" "1' 6' 62.>-.',*--6 ' 8) *2>*' ,) *' ?10*-2' 71.76X' 1-' % ' ' 12',) .' . 0*',) * ;=) -6,*.' 6==/ *0' 6/.1',1',) *' '51+*-21-.J' 1 ' 2 *^ - 1-' -629' 2' ,) *' .. - 62 ' 6D /12 62 ' 620' <*0 62' *?=-*. ' 620' *+*2',1',) *' 51+*-21-' 1 'B*-;.6/*?%% *>' & ! N% ' MO+ ; -6-1*X' 86.',) *' =-1=*-' , /*' 1 ',) *' 51+*-21-' 1 '6' 1?62' =-1+ 2>*' 8) *2' 6==1 2,*0'/' ,) *' .*26,*% **' + ! *+*-6/ .;>) ' 6-*' ?*2^ , 12*0' 2',) *' >,.'+ [% *-5 ;.' 6 ;/;.' 2' A7=-;.' ML' Q 7X' 46// >' 2' >) 6 6' ML+ ' KX' 620',) *' >) * '1 ^ >*-' 1 ' >) 6 6' 8) 1.*' >1;-,' .' 20* 2 ,*/ ' -* *--*0',1' 2' >) ' L L ' NQ' D ' ,) *' ;.*' 1 ',) *7' =/;-6/ M.**' ? ,) .' ' ' ' !'& 4!' ' !' -1>12. ;/X% **' + L $! *- D 7' M O=\NTV' >,.' L +' K ' K T' L+ ' T' 60A*>,% & % ' >,.' dd' X' 6' .?6// ,18 2' . ,;6,*0' 2' ,) *

6.,-2' =6-,' 1 ' ,)*' 5-*),' 2=/620' =/6 2' 1 ' >612 6' 8) >)' .,-*,>)*.' -1?' >12 ; ?' M_%+ X' *6.,86-0' 6/1257 ,)*' 21-,)' . 0*' 1 ',)*' >)6 2' 1 ' (6;-;.'M ? ,) .' 4 (!' ? ' .Ø #ß ,' ? ; ,')6+*' D**2' .1?*8)*-*' 2*6-',)*' =/6>*' 8)*-*',)*' =6..'>6//*0',)*' / > 62' 46,*.' 1=*2*0' 6' 86 ' -1?',)*' 718' =/6 2' 1 ' / > 6',1',)*',6D/*^ /620' 1 ',)*' 2,*- 1-' 620' =-1D6D/ ' ,' 86.' 6' .,65*' ;=12' ,)*' 5-*6,' -160' 8) >)' =6..*0' ,) .' 86 ,' 6===*6-.' ,)6,' >*-1' 8*2,',)-1;5)' *-D*' 12') .' -1;,*' -1?' ^ / > 6',1' >12 ; ?'> '@ !' L ' NX ;>)' 86.' 6;/ .' -1;,*' 12') .' .*>120' ? .. 126- 'A1;-2* 'M >,.' L+ ' T' L+ ' 'KX' 620' =-1D6D/ ' 6/.1' 12' ,)*' ,) -0' ML+ 'KNT' L L ' X B6') .' -.,'A1;-2* 'ML + 'K K X')*' 6==-16>)^ *0' -1?',)*' 1,)*-' . 0*' + [-1?' >12 ; ?' 2' >12.*^ _;*2>*' 1 '=*-.*>;, 12' 2',)6,'=/6>*' 620' 6,' .,-6' M_% %X 1')7 0*2,.' 6-*' -*>1-0*0' 6.')6+ 25')6==*2*0' 6,' *-D*' N7')6-?12 ' 8 ,)',) . ' ,' .' 21,' ?*2712*0' 2' ,)*' *2 ,2*-6, 12' 1 '=/6>*.' 2' K' (? ' ``2' ,)*' 6=1.,1/>') . 1- ' .,-6' 620' *-D*' 6-*' >1? ?12/ ' ?*2, 12*0',15*,)*-a' 2',)*'_;1,6, 12' -1?',)*' *= .,/*' .,-6' .' ?*2, 12*0' 6-%0' 21,' *-D*' ()*' 0 ., 2>, 12' .' 6>>;-6,*' 1-' ,' 6;/ .')*-*' *2; ?*-6, 25') .'=*-.*^ >;, 12.J M 6/* ' # ' 1' 2' /1>%X ' .' ;2>*-^ ,6 2' 8)*,)*-' .,-6' 1-' *-D*' 86.',)*' D -,)=/6>*' 1 ' (?1,) '3 ,)*' 1-?*-' .**?.',1' D*',)*' ?1=*/ 9*/ ' -1?' >,.' L+ ' 'K -D* 86.',)*')1?*' 1 '621, & ' 1 ' 6;/ .' 6+1-*0C'>1?=62 12. ' 46 2.'M >,.' LL ' X ,-6^ D1' =/6>*.' *-D*' 6,',)*' *05*' 1 ' .6;-6' >? 0' L A' =' NRK' *0 6.6;D12' >1?=' ,1/*? '+ ' S XT' D;,' 2' ,)*' $ ' 1 ' : *-1>/*.'M &*..*/ 25 '=' S ' 8)*-*' ,)*' 81-0' .' *=VN6 X ,' .' =/6>*0' 6.' 2',)*' >,.' 0 ',)*' =1./*.' 2' >612 6 ()*' D1;206-*.' 1 ',)*.*' 0 .^ ,-> ,.' 8*-*' 21,' +*- ' *L6>,/ ' 0* 2*0 ()*' 8)1/* 2* 5)D1-)110',1',)*'.*6C>16.,'1 ' / > 6' M_%+X' 86.' 21^ ,1- 1;.' 1-' -1DD*- '620' = -6> 2, =6_*-',)*' - *20' 1 ' >*-1' I '@ !' L ' NX' 86.',)*' D620 ,' >) * ,6 2' 1 ' >612 6 ? 2,6.' 9 25' 1 ' 46/6, 6'M.;>>*..1-' 1 ' * 1,6-;.' X ' ? ;-0*-*0' 2, =6,*-' 620' 2>1-=1-6,*0') .71? 2 12.' 8 ,)') .' 182 $20*-',)*' 1?62' =-1^ + 2> 6/51+*-2?*2,' *-D*' 86.'6,' -.,'=/6>*0' 2' 6' >1-^ 2*-' 1 ' 6==601> 6' M_%+%XT' D;,'1,)*-'>)625*.' 8*-*'.;D^ .*_;*2,/ '?60*' **' & ! *-D*' 01*.' 21,'.**?' ,1' D*' ?*2, 12*0' 2',)*' [62, 2*' 8-,*-.' *69*' .6 .' I& ' 1' = X ,)6,',.' D .)1=' 86.' 6'.;-6562' 1 ' ,)*' ?*,-1=1/,62' 1 ' >12 ; ?' ' ;// 6>>1;2,'1',)*' .;--1;20 25' >1;2,-A7' .' 5 +*2' 2' 12 D*6-*' 620' :18C .12.' ' $!' ' ' K 'KRS' ._' 12.;/,' 6/.1' : 6? /,12' 2',)*' D ' '" ' ? !' $! ()-*'* .,*F')6+*' D**2' 6..52*0',1' *-D*' M X ' 1/12*/ *69*' I& ' ' =' X ,' 86.' .;==1.*0',1' D*' 6,' ; ' '" 1) # "' 6,',)*' 11,' 1 ',)*' 6-6065) ' 6' -*?6-96D/*' +1/>62 >' ?1;2,6 2' 8) >)' - .*.' -1?',)*' >612 62' =/6 21' D;,',) . .' 6/?1.,'>*-,6 2/ ',)*' . ,*' 1 ' .,-6' MK%X 2' *=*-,.' %' *-D*' .' ?6-9*0' 6-,)*-',1',)*' *6.,' 6,' 6' .=1,' 8)*-*',)-*' 6-*' -;2.' 620' 8)>)' .' 2',)*' / 2*' 1 '6' 1?62' -160' MN X' :6?^ /,12' I5 " ' '& ' ' N NX' 620' (*L *-' I& ' ' K#' N X 6-*' 0 .=1.*0',1' =/6>*' ,' 6,' ' 6' / ,,/*',1',)*' %& % 1 ',)*' /6.,' =1. , 12' 620' 2*6-*-',1',)*' -11,.' 1 ' (6;-;' 2' 6+1-' 1 ',) .' + *8' ,)*-*' .',)*' ?=1-,62,' 6>',),6,' ,*=)% 7[.6 .',),6,' ,)*' =/6>*' 86.' .1?*, ?*.' >6//*0' dV *,6' 8)>)' 2',)*' >612 62' /625;65*' M.**' >,.'L + ' X ?*62,'6' A;2 ^ =*-C,-**J' <1-*1+*-')*' .=*69.' 1 ' 6' E % G ' M)6-D1-X')*-*' 8)>)' M6.' *69*' 620',)*' -*2>)',-62./6,1-.' 1 ' ,-6D1' .;55*.,X 1;5),' =-1D6D/ C ,1' D*' E % HG' M/69*XT' 620' ' ,) .' .' >1--*>,',)*' -*_;.,*' >120 , 12' .' .6, .^ *0' D ',)*' =-1L ? , ' 1 ',)*' 69*' &+' ? ' & *.*/*-' I " ! ' % ! . 2 ' =' K X ,69*.' ,)*' .6?*' + *8 ',)1;5)')*' ?69*.',11' ?;>)' 1 ',)*' =1.. D / 7 7,)6,' 6;/ ' 12') .' .*>120' A1;-2* ',-6+*//*0' D ' 6' ? 21-'=6..' ,1',)*' & % 1 ',)*' / > 62' 46,*. % 2',)*' 1,)*-')620' ,) ./1>6, 12' .**?.',11' 6-' -1?',)*' 62> *2,'-160' M>1?^ =6-*' *//6-% 7 ! ' K K' ._ %X % ' ? ,)' .% +% **') 4 % *-> ,1 % **' 4 *-*9 % **' 0 $!

-. *-' O ' 6 $ ' 5 ' 6' 1?62' 6,)1/>' 0 + 2*' 86.' D1?' <6->)' ' 6,' 6)-' 2' -62>1^ 2 6 : *' .,;0 *0' ,)*1/15 ' 6,' : * 0*/D*-5' 8)*-*')* D*562') .' 6>60*? >6/' >6-**-' 6.' /*>,;-*- 2' QN)*' /7*>6?*' =-1 *..1-' 1 ' - *2,6/ / ,*-6,;-*' 6,' 122 620' 2' R ' *= .>1=6/ + >6-' 620' =-1 *..1-' 1 ',)*1/=5 ' 6,' ,-6.D;-5 2' RS' =-1 *..1-' 6,' : * 0*/D*-5' 2' Q S' =-1 *..1-' 1 ' 015?6, >' ,)*1/15 ' 6,' -* D;-5 620' 2' Q ' =-1 *..1-' 1 ' 015?6, >.' 620' 2,*-=-*,6, 12' 6,' -*./6;' 2' 8)>)' =1.,')*' -*?6 2*0' ;2, /) .' 0*6,) B;2*' S QK *-*.*-'86.' 6'+*- ' / D*-6/ ,)*1/15 62' 1-' 6' =?62 .,' 620') ./ *' 86.' 21,' -**' -1?' 6221 ^ 62>*.' 2' >12.*_;*2>*' 1 ') .' -**01?' 1 ' .=**>)' 620' 8 - , 25 *. 0*.' .1?*' 0*+1, 126/ D119. ') .' >) * '/6^ D1-' 86.' 6' >12, 2;6, 12' 1 ',)*' ; = +' 1 ' -*2,621' 1 ' 8)>)' *-*.*-' 0 0',)*' ?1.,' 1 ',)*' (%M,-62./6, 12' 620' *L*5*. .X' -629 1-,' R C QNN% ' .>)D6>)' /-C' " = ' ' N S%

-)6?' " ' 6' =) /1.1=)-' 620' 0 + 2*' 86.' D1-2' 6,' ,1;5),12' 2*6-' &1->*.,*-' 2' S T 86.' *0;^ >6,*0' 6,' (-2 ,' 1//*5*' L 1-0T' 2' SQ ' 1D,6 2*0' ,)*' / + 25.' 1 ' & 6-5-6+*' 620' $=? 2.,*-T' 620' ;=12' ,)*' 6>>*.. 12' 1 ' 4*1-5*' '86.' ?60*' 9 25 .' >)6=/6 2' 620' 6' >6212' 1 ' & 20.1-' 2' S' 2' N ')*' -*>* +*0' ,)*' 0*5-**' 1 ' % : *' 0 *0' 2' N : .',)-**' =- 2^ > =6/ 81-9.' 6-*' " =-" ',)*' 1 /*' /*>,;-*.' 1-' C K' MD*.,' *0% 120 RQ' K' +1/.% Q+1X T & =' -" 'M 12012' R' Q+1X T' 620' " =-" ' 6' O*?12.,-6, 12' 1 ',)*' + 2*' 6;,)1-,'1 ',)*')-.,62' -*/ 5 12' M 120 N 'Q+1X ',)*.*',)*' -.,' 0*?12^ .,-6,*.' ,)*' D* 25' 620' 6,,-D;,*.' 1' 410' -1?') .' 81-9.' 1 '>-*6, 12T J' ,)*' .*>120 -1?' 6C.;-+* '1',)*')*6+*2.%J ' == .' ; %" ' ; '+' S%

- 25 '> ' 6' ;-,62' 0 + 2' 3D1-2' 2' *2, ' 86.' >)1.*2' A//18' 1 ')-.,.' 1//*5*' 6?D-05*' SQ 2' ')*'.*>;-*0' 6'=-*D*20' 2' 6/.D;-% : *' 1D,6 2*0' 2 5)' -*=;,6, 12' D1,)' 6.' 6' =-*6>)*-J620' 6' .>)1/6-' 620' ;.*0') .' 6D / , *.' 620' 2 /;*2>*',1' 5-*6,' =;-=1.*' 656 2.,',)*' : 5)C);->)' 620' 1?62 [25'=6-^ , ' 2' N ,)*' =- + ' >1;2> / 1-D60*') .' =-*6>) 25' 620' 2' S)*' 0 *0 ()*' .;D.,62>*' 1 ') .' 8-, 25.' ?6 'D*' 1;20' 2') .' + ' ' ' " '" 1' % 'M 120' S ,1X % ' ,- =*' & :' *6/' # ' ' ' 'K 'KN T' : 119' 6 !' ; %" (+' KN%

-1012' '6' -1,.,62,' -*2>)',)*1/15 62' 620' =) /1.1=)*-' 86.' D1-2' 6,' *' 2',)*' 6;=) 2>' 6D1;,' S ' : *'1==1.*0',)*' 6-,*. 62' =) /1.1=) '620' 86.' 1 *' 1 ',)*' 6D/*.,' 0 6/*>, > 62.' 1 ') .' , ?*' : *' 8-1,*' 6'>12. 0*-6D/*' 2;?D*-' 1 '81-9.' 656 2.,',)*' 01>^ ,-2*.' 1 ',)*' 1?62' 6,)1/>') ;-> 7' 8) >)')60' 8 0*' > ->;/6, 12' 620' 8*-*',-62./6,*0' 2,1' .*+*-6/ 1-* 52' /625;65*.% ?125',)*?' 8*-*' 5 % ' ' '4 ' '5!' !'5!'M 6-.' SN XT' ' 5 ' ' ' ' N ' % ' % " ' ' ' ' % 'M SSKX' 620' ' - " ' ' ' ' 'M4*2*+6' S T 25/ .)',-62./6^ , 12' 12012' S NX ()*' /6,,*-' D119' 86.' 12' <6->)' S' SSN' D;-2*0' D ',)*' =;/D/ >' *L*>;, 12*-',)*' 6;,)1-' *L /*0' 620',)*' D119.*//*-.*2,*2>*0',1' 6' 20' 1' ' / +-*.' ,)*' /1.,' 1 ') .' / >*2.*' 620' ,*2' *6-.' *L /*% *-1012' 8*2',1' 4*2*+6' 8)*-*')*' 0 *0' 2' SS % :1' .' 6/.1',)*' 6;,)1-' 1 '.*+*-6/ 81-9.' 12' =) /1.1=) >6/ .;DA*>,.' 620' 656 2.,',)*' 6,)* ..% : .'>1?=/*,*' 81-9.' 8*-*' >1//*>,*0' 2,1',81' +1/;?*.' 620' =;D/ .)*0' .112' 6/,*-' .' 0*6,)' I ' ' ,% ' ' 4*2*+6' SS' 620' SSR K' +1/.% T ,)*' -.,'+1/;?*' >12,6 2.',)*' =) /1^ .1=) >6/' 620',)*' .*>120',)*' ,)*1/15 >6/ 8 - , 25. X % ' : 1* *-' ; !' ? "!' L ' S% *-1-% **' ! *' 1.. % **' 1.. ' ! *-+ .)*. ' <1)6?*062' ?129.' >1--*.=120 25' 2' ?62 '-*.=*>,.',1',)*' ?129.' 1 ',)*' : 1?62') ;->)% ()*.*'?6 'D*' 0 + 0*0' 2,1',81' >/6..*.d ,)1.*' 8)1' D*^ /125',1' -6,*-2 , *.' 1-' .1> *, *.' 1-'-*/ 5 1;.' *L*-> .*.

whose tenets and oaths are kept so secret that the uninitiated can only describe their outward appearance and the ceremonies which are practiced in public; and those recluses who, without belonging to any special sect, profess holiness and abstinence, and wander solitarily through the land. The word *dervish* is Persian, signifying *poor*, corresponding to the Arabic *fakir*, which gives name to the same order in Arabia and India. Oriental tradition traces the order of Hermits back to John the Baptist, and even to Seth. Two centuries before Mohammed, there existed in Arabia the Meschaiouns (Walkers) and the Ischrachiouns (Contemplatives). These, under the influence of Mohammedanism, merged into Mutekelim (metaphysicians) and Sufis, who were essentially pantheists. In the second century of the Hegira (729), sheik Olivan, a Sufi, established the first religious order in Islam. Dervishism doubtless took its proximate rise in Persian Sufism.

The Turkish dervishes claim caliph Ali, one of the immediate successors of Mohammed, as their founder. Ali himself founded no order; but some of his followers formed a society called Safashafei, men devoted to a monastic life. They soon fell into excesses, indulging in the use of drugs (chiefly hashish), intoxicating liquors, and, in fact, anything which would promote trances, ecstasies, and hallucinations, resulting in violent paroxysms and delirium. They formed the practice of cutting themselves, mutilating their limbs, standing for a long time in agonizing positions, and otherwise barbarously abusing their bodies. They, however, managed to reconcile with this external and public self-abuse an almost universal private sensuality. The members of this order were subsequently called dervishes, but at what time the word *derrish* was first used is not definitely known. There are in Turkey thirty-two orders of dervishes, having various names, and differing in their worship and practice. Outside of Turkey there are many more orders, called in the different countries by the local names Fakirs, Sufis, Santons, etc. The chiefs of the different orders are called *sheiks*, or *pirs*, who are privileged to nominate their successors. The dervishes mostly dwell in community, and have monasteries (tekiehs) in various places. Their rules are not very rigid. The declaration of Mohammed, "*No monachism in Islam*," had become a strong religious prejudice, and this prejudice they have never been able fully to overcome. Celibacy is not enjoined, though encouraged, and many of them are married. These, however, are not regular members of the monasteries, although they are required to pass the night there previous to any public exhibition. They may withdraw from the order at any time, and are often expelled for misdemeanors.

The mendicant dervishes are mostly foreigners, or those who have been expelled from the various orders, or impostors, who cheat and bewitch the people under the garb of dervishism. These travelling dervishes are mostly jugglers, and their skill in trickery is truly wonderful. They often become wealthy in the practice of their arts. Their power over the common people is very great, while the better-informed are beyond their reach.

The higher orders of dervishes have come to have an extensive influence not only with the masses, but with the government itself. This power was acquired (1) through the wealth which came into their possession. Large legacies were left to them for the benefit of the poor. These legacies were applied to building up dervishism. They soon learned also to impress the people with a strong belief in the efficacy of their prayers. These came to be purchased at high prices, and thus became a fruitful source of revenue. Their power was increased (2) by the popularity of the institution. In taking a stand against the dervishes, the government was virtually opposing a large majority of its own subjects. Sultan Mahmoud II attempted to break their power. On the 10th of July, 1826, he massacred the three chiefs of the Betacki dervishes in Stamboul, razed their tekiehs, and drove the most of them into exile. Ten years from this time they were as powerful as ever. The ulemas have always been their bitter enemies, and have affected to despise and ridicule them, but popular sympathy has been on their side.

In Turkey there are three principal orders, viz.:

I. The Mevlevy (Molowiyeh), or dancing dervishes, who claim as their founder Meolana-Jelaleddin-Hoomy-Muhammed, surnamed Sultan-ul-Ulema, or Sovereign of the Learned. Jelaleddin wrote a book called *Mesnevy*—a poetical composition—much of which has become proverbial in the East. The chiefs of this order exercise the prerogative of nominating the sheiks of the monasteries, and of girding each newly-made sultan with the sword of Osman. The dervishes of this order are humble in demeanor, and keep a fast during the month of Ramazan, in addition to the weekly fast on Thursday. Candidates desiring to be admitted to the order are placed on probation a thousand and one days, and required to perform the most menial services in the kitchens of the monasteries. The worship of this order consists in chanting the poems of their founder, reciting a prayer (*fat-ha*), and performing the dance, *deor* (circle). They have also an orchestra, who sing Persian odes, and play kettle-drums, tambourines, and fifes for the dancers. In these dances

Dancing Dervishes.

about a dozen engage at a time, and after a few minutes they are relieved by others, each set taking their turn three or four times during the service. The master of the dance (*simazenbashy*) watches them closely to keep them in their places. A traveller makes the following computation: "By looking at a stop-watch, I ascertained that on an average they turned sixty-four times in a minute. After spinning round for about five minutes, at a signal from the high-priest, both music and dancers suddenly stopped, but recommenced in a few seconds. The third time they kept it up for nine minutes and three quarters; my brain was swimming too, so much so that I could hardly count their evolutions. The fourth and last time they whirled for five minutes and three quarters, thus making in all 1504 turns in 23¼ minutes" (Auldjo, *Journal of a Visit to Constantinople*, Lond. 1835, p. 73).

II. The Bedevy (or Bodawy), or howling dervishes, as travellers call them, have a convent at St. Dimitry, near Constantinople. Their religious exercises consist of prayers (*namoz*), chants, and vociferations of the name of God, accompanied with a rocking motion of their bodies. This motion attempts to imitate the rolling of a ship on the water, and indicates their relation to God—Allah being the ocean and they the ships. They recite the attributes of God in a loud voice, putting a terrible emphasis on the word *Allah* as often as it occurs; and this they keep up with a kind of frenzy until voice and strength are gone, when many of them, covered with perspiration and foam, fall senseless to

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%' ()*' ; 6 ' 8)1')60' 1-',)* -' 1;20*-' */0C ĐC" '% $ ' ['" ' , '6 % ' *,>% M 120% ?*0C ; 6 ' ()* -' *L1-> .*.' 6-*' ? ;>)'/ 9*',)1.*'1 ',)*' SSQ' 1DX'=% N ' ._ %Ī : *-D*/1,' ; " !' , '6-,.% *0*+ ' ()* -') 5)*..' 6?D , 12' .**?.',1' D*',1' ?69*' " ' 620' @ :' < 1;-605*6' 0)..12' - ' ' -6= 0' ?1, 12.' 620' /1;0' 21 .*. I' ()* -' /*60*-' >)62,.' N6 % ' , :' 15*-.' 2' ? ' 'B62% Q4 Ī ,)*' " - 1 " 1'1-') ?2.' 2')121-' 1 '<1)6?^ 12' : 6? ?*-' , + '5 "'M& *2' Q 'K+1/.%Ī ?*0' 8) /*',)*' -*.',A1 2' 2',)*' >)1-;.' < ' & "ĥ' < ' -182' -" ' ' " ' ', '$% 'M) /6^ # ĥ' 620',) .' >)1-;.' 2>-*6.*.' 2'+ 1/*2>*' ;2, f ',' D*^ 0*/=) 6' QSQ K?1X% >1?*.' 6' -16-% ,',)*')* 5),' 1 ',)*' *L> ,*?*2,',)* ' .* [*'-*0C)1,' -12.' =-*=6-*0' 1-',)*' =;-=1.*' 620')1/0' ,)*?' 2',)* -',**,)' ;2, f ',)*' 5/18' 0 .6==*6-.%' ()* ' 6/.1')6>9',)* -' /*.)' 8 ,)' .81-0.' 620' 92 +*.%' ()*.*' 81;20.' ,)*' .)* 9' D/18.' ;=12' 620' 621 2,.' 8 ,)') .' .6/ +6 ' 8) >)' ,' .' .6 0 ' * *>,.' 6' *;-1' 2' 6' *8')1;-.%' ()*' *L> ,*0' .,6,*' 1 ',)* -' D10 *.' =-10;>*.' 6' =-1 ;. 12' 1 ' 0110' -1?' +*- ' ./ 5),' 81;20.' 620',)* -',- >9*- ' 0*>* +*.',)*' =*1=/*' 2,1',)*' D*/ * ',)6,' 8120*- ;f ? -^ 6>/*.' 6-*' 8-1;5),' 2',)*')*6/ 25' 1',)*.*' 81;20.% ()*-*' 6-*' ?62 '1-0*-.' D*. 0*.',)*.*' 6> 25'6'5-*6,^ *-' 1-'/*..' ?=1-,62>*ā ,)*') * "1' 1;20*0' D ' DC 0*/C 60*-C*/C4 /62 '9218'2'D ',)* -'8) ,*' D622*-.'620' ,;-D62.Ī ,)*' $ = " 1' 1;20*0' DA' 0$ D-6) ?C */C 6);9 '8)1.*',;-D6 A.' 620' D622*-.' 6-*' 5-**2Ī ,)*' 5 " *',)*' $+ :',)*' D :',)*' 7 1' 1'8)1'6-*' ,2*-6, 25'0*-+ .)*.' 620' ?69*' =/5- ?^ 65*.',1' 6// =6-,.' 1 ',)*' <1)6?? *062' -*6/?% -1?' ,/ *' D*,,*-' 1-0*-.',)*' -662.' 1-' <1)6? ?*062' =- *.,.' 6-*')1.*2' 620' ?62 '1 ',)*?' 6/.1' *L*-> .*' > + f ;2>^ , 12.% .:=*> 6/ 81-9' 12' 0*-+ .)*.')6.' D**2' =;D/ .)*0' D ' B1)2' % -182' .*>-*,6-A' 620' 0-651?62' 1 ',)*' /*56^ , 12' 1 ',)*' $2 ,*0' ,6,*.' 1 ' ?*- >6'6,' 12..,62, 21=/*' I-" ' ' " ' ' '$% ')/6% QSQ% >>1-0 25',1',) .' 6;.)1-',)*' .= - ,;6/ .?' 1 ',)*' 0*-^ + .)*.')6.' ,.' -11,.' 2' -*/ 5 1;.'>12>*=, 12.' =-*+6/*2,' 2',)*' 6.,' 62,*- 1-',1',)*' - .*' 1' ./6? ,.? '620' 6.Cl' >>,>' =-6>, >*.'/ 9*',)1.*' >1?? 12' 6?125',)*?')6+*' D**2' 1;20' *_;6// ' 8 0*/ '.=-*60' 620' 6-*' ,-6>*6D/* 6'+*-') 5)' 62, _;, % 12*' 1',)*' 0*-+ .)*.')* C.6E.' .*=6-6,*',)*?.*/+*.' -1?' ,)*' 01>,- 2*.' 1-' =-*^ >*=,.' 1 ',)* 1-62',)*' >12,*2,.' 1 ' 8) >)',)*' .**9' -6,)*-',1' .= - ,;6/ [*% ()*' 0 + 0*' ?1-*1+*-' ,)*' 1-62' 620' 1,)*-' D119.' 1 '-*/ 5 12' 2,1',)-***=1-, 12.' 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D ' 26,;-6/ =-1=656, 12% ()*' >-*6, 12' 1' B*.;.')-.,' D ' 6' .=*> 6/ D-*6,)' 1' 410' >12+* *0',1' 6' + -5 2' <6- ' D ',)*' 625*/ 46^ D- */ ' M=% X' 20' 6.',)*' .= - ,' 1' ?62' .' >6=6D/*' 1 '>1?;2 5'0 -*>,/ ' 8 ,)',) .' .= - ,' 1' 410' 6')1/' =*-.12' 8 // -*56-0' 6//' 1-0 26- '=/*6.;-*.' 620' =;-.;' 1 '/ *' 6.' 20 *-*2,' 1DA*>,.Ī 620',)*' ?1-*')*' .' 0*.,^ ,;,*' 1' 81-/0/ '5110.',)*' /*..' 8 //)*' D*' / 6D/*' ,17D*' 0-682' -1?',)6,'>12,*?=/6, 1 A' 1' 410' 8) >)' /*60.' ;1' ;2 12' 8 ,)',)*' 0 + 2*' .= - ,% :*2>*' 6//' 1-0*-.' 1 '0*-^ + .)*.' 6-*',6> ,/ ' 1-' 1=*2/ ' ?*20 >62,.% ;',0*5-**.' 6-*' 8*//-*>152 .*0' 2' .6 2,/ ' 6,,6 2?*2,% 06?' 86.' 6')1/ ' ?62' 8)1?',)*' 625*/.' 8*-*' D 00*2',1' 81-.)=Ī D-6)6?' 86.',)*' - *20' 1' 410 J' 620' B*.;.')- .,' 18*.') .' *L .,*2>*' 6.' 6' .6 2,',1',)*' .=*> 6/ D-*6,)' 1') .' 0 + 2*' -*6,1-' D;,' .' 21,' 2*+*-,)*/*..' >12. 0*-^ *0' 6.' D* 25' 410% :*' .')*/0',1' D*' 12/ '6' 0 + 2*' ?^ 626, 12' 1',)*' ?1..',.;D/ ?*' >)6-6>,*-J' M=% RX% **' <600*2' - # "' 6 % ' M 12012' QSKXĪ ;/OA1'D ' ' 'N ' ' % '*,>% M 1;O% QN XĪ E*"E E ' ' ' ' - 4 :')6-0 2' (-*,+C ' M ?.,*-06?' N ' ,1X' 'KSRCKR Ī 6;/ >6;,' SSQ' 1DX'=% N ' ._ %Ī : *-D*/1,' ; " !' , ' " '620' @ :' < 1;-605*6' 0)..12' - ' ' N6 % ' , :' 15*-.' 2' ? ' 'B62% Q4 Ī 12' : 6? ?*-' , + '5 "'M& *2' Q 'K+1/.%Ī -182' -" ' ' " ' ', '$% 'M) /6^ 0*/=) 6' QSQ K?1X% *' 6> % ** # ' ! *' 6/*.' ** ' ! *.' 6-,*.' ' : $' + 3 J 2' ,.' 6, 2' 1-?' *26,;.' 6-,*. ;. ' 12** 1',)*' *6-/ *.,' 2', ?*' 620',)*' -.,' 2' 5*2 ;.' 620' -*=:,6, 12' 1',)*' ?10*-2' =) /1.1=)*-.' 1 I -62>* 86.')1-2' 6,' 6' : 6+* 2' (1;C -6 2*' 12',)*' N ,)' 1' <6->)' RS' 620' 0 *0' 6,' ,1>9^)1/?' 12',)*' ,)' 1' *D-;6- ' S % :*' 6..;?*0',)*' 26?*' 1' ;' *--12' -1?' 6'.?6// *.,6,* 2)*-.,*0' -1?') .' ?1,)*-% :*' 0 + 0*.' 8 ,)' 6>12' ,)*' 5/1- ' 1' 1;20 25',)*' ?10*?' =) /1.1=) ' 1' ;-1=*' 620' >1?^ ?;2 >6,*0' 6' ?1-*' =1,*2,' ?=;/.*',)62' 6>12' ,1',)*' 5*2*-6/=) /1.1=) '1 '?20% ()*.*',81'5-*6,'26?*.' 6.' 1;. 2' 1D.*-+*.' 26;5;-6,*' 620' >12.,;,*',)*=) ^ /1.1=) ' 1',)*' . L,**2,)' >*2,;- % ()*' ()*' /X**2 >1?=6-*0' 620' >12,-6.,*0' 8 ,)' *6>)' 1,)*-' ;20*-',)*' D/ 20 25' 2 /;*2>*' 1 ' 26, 126/ =-*&;0 >*' 6$0' 26, 126/ - +6/- ' 620',)*' =6/?')6.' D**2' >12>*0*0' ,1',)*' 12*' 1-,1',)*' 1,)*-' 6>>1-0 25' 6.',)*' >- ,>' 86.' -*2>)' 1-25/ .)% ()*' =-1 1;20' 620' 8 0*/ C0 / ;.*0' 2 /;*2>*' 1' *.' 6-,*.' .'*+ 2>*0' D ',)*' 26?*.' 620',)*1- *.' 1') .' 1==12*2,.' 6.' 8*//' 6.' D ',)*' 26?*.' 620' 8 - , 25.' 1',)1.*' 8)1'601=,*0' 1-?10 *0') .'01>,- 2*.% ?125' ,)*' 62,6512 .,.'1' 6-,,*. 62 .?' 8 ,) 2',)*' .*+*2,**2,)' >*2,;- '?6 'D1'.=*> *0' 46..*20 ' :1DD*.' -26;/0' : ;*,' -' .66>' *8,12' B1)2' 1>9*' 20' 6?;*/ /6-9*' 6?125' ,;.' ?1-*' 1-'/*..' 6>_;*.>*2,' 1/18>-.' ?6 'D*'*2;?*-6,*0' 1D6;/, /*-.*/*-' =21[6' 6 />' <6/*D-62>)*' 620' *D2 ,[% ,' .'21,',11'?;>)',1' ,)6,',)*' 8)1/*' 01?6 2'1 '?*,6=) .>.'620' 6'/6-5*'=6-,' 1'=) .>.',,//D*6-',)*' ?=-*.. ' 1',)*' 5*2 ;.' 620' /6^ D1-.' 1' *.' 6-,*.% J 6 ' '' ' ' ()*' >12.,;,12' 1' *.' 6-,*.' 86.' 6/86 .' **D/*% (1',) .' ?6 'D*' 6.>- D*0') .' .,;^ 0 1;')6D ..') _;>9' ?=-*.. D / , ') .' 2>/ 26, 12',1' -*+*- *' 620' .1/,6- ' ?*0 ,6, 12' A .')6D ,;6/ /1+*' 1' .*>/;. 12' 620',)*' , ? 0 , ' 8) >)' -*,-6 2*0' 620' -*^ ,6-0*0',)*' *2;2> 6, 12' 1') .' 015?6.% ,' * 5),' *6-.' 1' 65*')*' 86.' .*2,',1',)*' B*.;,' >1//*5*' 1' P6 /*>)*% 8)*-*')*' -*?6 2*0' *5),' *6?' :.' 9**2' 1D.*-+6, 12' 620' >;-1;.' 2_;-*.')60' /*> ,' 6,)*-',1' 0*. 526,*') ?' *+*2' 2' *6-/ ' >) /0)110' 6.' ,)*' =) /1.1=)*-J' :.' &*/69')*6/,)' 1>>6. 12*0',)*' -*/6L6, 12')' D .' D*^ ,)6,',)*-*' 6-*' 1;-' >-*6, 12.a' 1-0 26-' -1;,2*' 1' 6>60*?>' 0 .>=/ 2*% :*' 86.' 6//18*0',1' /*' /6,*' 2' D*0' 2',)*' ?1-2 25% ;-25',)*.*' ?1-2 25' +5/.' 8) >)' 8*-*' 1D.*-+*0' ,)-1;5)' / *')*' ?*0 ,6,*0' 620' -*+1/+*0',)*' 8)1/*' .>)*?*' 1')' =-1.*>)' =) /1.1=) % *.' 6-,*.'=-1.*>)' .' >1//*5*' .,;0*.' 8 ,)' 0 / 5*2>*' 620' .;>>*=5'D;,' D*>6?*' 0 ..6, .*0' 8 ,)',)*-' .;==1.*0' +62, '620' .;=*- >6/^ , % :.' >1?=/6 2,.' 12',) .' .;DA*>,' ;,,*-*0' 6'_;6-,*-' 1' 6' >*2,;- '6 ,*-86-0.' 6-*' 6' ,-625*' 62, >=6, 12' 1' ,)*' 1=*2 25' ?121/15;*' 1' 41*,)*.' 6;.,% ,*-'/*6+^ 25' 6' S>)*)*' 8*2',1' 6- .' 620' =/;25*0' 2,1' 0 .^ .=6, 12'Ī D;,' -1?',) .' >1;-.*')*' .112' 8 ,)0-*8' 2,1' .,;0 1;.' .*>/;. 12' >12>*6/ 25') ?.*/' -1.' >6,)' 1' 6>^ _;6 2,62>*.' 1-' 6' *6-% &)*2' 0 .>1+*-*0')*' -*, -*0' ,1' :1//620' 620',119' .*-+ >*' ;20*-'=- 2>*' <6;- >*' 1' 6..6;' S C R% :*-*')*' >1?=1.*0') .',-*6, .*' ' ' 620' 0*+*/1=*0') .' -*?6.)*>6,)*' ?6.),)*=Ī D-6)6?' 86.',)*' -*20' 1' 410 J' 620' B*.;.')-.,' >6=6>, ' 620' 6,,6 2?*2,.% 2' S R')*' +1/;2,**-*0' ;20*-' <6L ? / 62' 1' 6+6- 6' 620' =6-,>=6,*0' 2',/*' 1=*2 25' >6?=6 52' 1',)*' () -,' *6-.' & 6% :.' 8 2,*-' ;6-,*-.' SCRCK' 8*-*' 6,' >;D;-5'02',)*' 62^ ;D*' 8)*-*')*' 0*+1,*0') ?.*/' 1-' ?12,).',1' .1/,6-

D-19*ſ D .ſ >; .,1?6- ſ . /*2>*ſ 620ſ 600-*. .*0ſ 6ſ /125ſ 620ſ 3ſ 6>- ?12 1; .ſ -*=/ ſ ,1ſ 1>,℁
( ) *.*ſ 0 ..*2. 1 .ſ .1ſ=*>; / 6-/ ſ -- ,6, 25ſ 620ſ 6/6- ? ^ 25ſ ,1ſ 6ſ >6; , 1; .ſ 620ſ , ? 0ſ 26, ; -*B 9*ſ *.ſ 6-,*. .ſ 2>/ 2*0ſ) ?ſ ,1ſ >6.,ſ 6D1; ,ſ 1-ſ 6ſ ?1-*ſ ,-62_ ; ſ -*.-*6, ,) 62ſ ,) 6, ſ 8) >)ſ) *ſ) 60ſ .1ſ /125ſ >)*- .) *0℁ : *ſ 6>>1-0^ 25/ ſ >12.*2,*0ſ 6 ,*-ſ ? ;>)ſ) 6D) ; 6/) *. ,6, 12ſ ,1ſ -*^ >* +*ſ 6ſ .) */,*-ſ -1?ſ _ ;**2ſ)- ., 26ſ 1ſ 8*0*2ſ 8) 1ſ) 60ſ D**2ſ 0*/ 5), *0ſ 8 ,)ſ) .ſ ,-*6, .*ſ 12ſ ,)*ſ 6.. 12. ſ 1- 5 26// ſ>1?=1.*0ſ 1-ſ,) *ſ=- 2>*. .ſ =6/6, 2*ſ / [6D*,)℁ ſ 8*0 .)ſ 60 ? -6/ſ 8 ,)ſ 6ſ-1 6/ +*. .*/ſ 86.ſ .*2,ſ ,1ſ >12^ +* ſ *.ſ 6-,*.ſ ,1ſ ,1>9) 1/? ſ 8) *-*ſ) *ſ 86.ſ 8*/>1? *0ſ 8 ,)ſ) 121-ſ 620ſ 6+1-℁ ( ) *ſ _ ; **2ſ 86.ſ >)6- ? *0ſ 8 ,)ſ) .ſ >12+*-.6, 12ſ 620ſ .1 ; 5), ſ) .ſ 60+ >*ſ 8) >)ſ) *ſ 56+*ſ 8 ,)ſ ? 10*., ſ 620ſ =- ; 0*2>*℁)*ſ 6+6 /*0ſ) *-.*/ ſ . .^ ,*? 6, >6// ſ 1 ſ) .ſ 2.,-;>, 12. ſ *? =/1 25ſ ,) *ſ *6-/ ſ) 1 ; -.ſ 1-ſ,) .ſ =; -=1.*ſ ,1ſ 6+1 0ſ 2,*- *-*2>*ſ 8 ,)ſ 1,) *-ſ .,; 0 *. ſ 8 ,)ſ ..,6,*ſ 6 6 -. ſ 620ſ ,) *ſ -1 6/ %=/*6. ; -*.℁ *.ſ 6-,*.ſ 86.ſ -*_ ; -*0ſ ,1ſ 1-*51ſ) .ſ/ *(/125ſ) 6D , .ſ 620ſ ,1ſ 6,,*20ſ) *-ſ ?6A*., ſ -*5 ; /6-/ ſ 6,ſ +*ſ 1 >/1>9ſ 2ſ ,) *ſ >1/0ſ ? 1-2 25. ſ 1 ſ 6ſ 8*0 .)ſ 8 2,*-℁ ( ) .ſ 5-*6, >) 625* ſ 620ſ ,) *ſ .*+*-. ſ 1 ſ ,) *ſ >/ ? 6,* ſ =-1+*0ſ 6,6/ ,1ſ) ?℁ : *86.ſ 6,,6>9*0ſ 8 ,)ſ *+*-ſ 12ſ *D ſ K S ſ 620ſ 0 *0ſ 12ſ ,) *ſ ,)ſ 1 ſ ,) *ſ ? 12,)℁ ( ) *ſ _ ; **2ſ 86.ſ 0**=/ 7 6 *>,*0ſ D ſ ,) *ſ 6221; 2>*?*2,ſ 1 ſ) .ſ 0*6,)℁)*ſ 0*. -*0ſ ,1ſ =/6>*ſ) .ſ D10 ſ 6?125ſ ,) *ſ -1 6/ .*=;/^ >)-*. ſ 620ſ ,1ſ) 121-ſ ,ſ 8 ,)ſ 6ſ .=/*20 0ſ ,1 ? Dſ D ; ,ſ 6.ſ) *ſ 0 *0ſ 2ſ ,) *ſ D1.1?ſ 1 ſ ,) *ſ 1?62ſ 6,) 1/ >ſ) ;->) ſ) .ſ -*?6 2.ſ 8*-*ſ 0*=1. ,*0ſ 2ſ ,) *ſ 6,1) 2>*?*2,ſ 1 ſ) .ſ 0*6,)℁ ,*-A℁ L,**2ſ *6-.ſ 6 ,*-ſ) .ſ 0*6,)ſ) .ſ -*?6 2.ſ 8*-*ſ -*?1+*0ſ ,1ſ -62>*ſ 620ſ =/6>*0ſ 8 ,)ſ ?=1. 25ſ >*-*?1^ 2 *.ſ 2ſ ,) *ſ >) ; ->)ſ 1 ſ ,*℁4*2*+ *+*℁ ( ) *ſ ;2*-6/ 1-6-ſ , 12ſ 0*. 52*0ſ 1-ſ ,) *ſ 1>>6. 12ſ 86.ſ =-1) D .*0ſ D 1-0*-ſ 1 ſ ,) *ſ >1 ; -,ſ D ; ,ſ ,) *ſ / 9*ſ) 121-ſ 86.ſ -*20*-*0ſ 6ſ >*2, ; ^ - ſ/6,*-ſ S ſ D ſ ,) *ſ *; /15 ſ 1 ſ <℁ ( ) 1?6. ſ 8) >)ſ 86.ſ >-182*77 ₣₣7 ,) *ſ -*2>)ſ >60*? ℁
-"ſ !ſ "% ſ ſ ' ſ ! ſ 7()*ſ 6-,*. 62ſ =) /1.^ 1=) ſ .ſ ,1ſ D*ſ 6.>*-,6 2*0ſ -1?ſ ,) *ſ <*,) 10℁,) *ſ <*0^ ,6, 12. ſ 620ſ ,) *ſ - 2> = 6℁ ( ) *ſ -*?6 2 25ſ 81-9.ſ 6-*ſ 7,) *-ſ .; /P. 0 6- ſ 1-ſ 6>>*. .1-A!1ſ * ,) *-ſ 0*+*/1=?*2,.ſ 620ſ *L=1. , 12.ſ 8) >)ſ >12 ; .*ſ -6,) *-ſ ,) 62ſ */; > 06,*ſ 1-ſ .=*> 6/ ,-*6, .*.ſ 12ſ =6-, >; /6-ſ D-62>)*.ſ 1 ſ .> *2>*ſ .;>)ſ 6.ſ 5*1?*,- ſ 0 1=,- >.ſ ?*,*1-1/15 ſ 626,1?ſ =) . 1/15 ſ /15 >ſ *,>℁ (1ſ 12*ſ .1/ > ,1; .ſ 1 ſ6==-*> 6^ , 25ſ ,) *ſ 8) 1/*ſ 2,*//*>, ; 6/) 6D , ſ 1ſ ,) *ſ =) /1.1=)*-ſ ,) *ſ /6-5*ſ >1//*>, 12ſ 1ſ) .ſ /*, ,*-.ſ .ſ 6.ſ 20 .=*2.6D/*ſ 6.ſ ,) *ſ /*, ,*-.ſ ,) *?.*/+*.ſ 6-*ſ 1 ,*2ſ >)6-? 25℁ (1ſ 12*ſ 0*. -1; .ſ 1ſ 1D,6 2 25ſ 6ſ ? 2; ,*ſ 6>_ ; 6 2,62>*ſ 8 ,)ſ 6//ſ ,) *ſ =*-=/*L , *. ſ 6?D 5; , *. ſ 620ſ +6> /16, 12. ſ 1ſ ,) *ſ 6-,*. 62ſ .,*?ſ ,) *. *ſ /*, ,*-. ſ ,15*,) *-ſ 8 ,)ſ ,) *ſ 1D^ A*>, 12. ſ 620ſ -*=/ *. ſ 6==*20*0ſ ,1ſ) .ſ <*0 ,6, 12. ſ 6-*ſ 2+6/ ; 6D/*℁ //ſ ,) *ſ .?6//*-ſ 81-9.ſ .) 1; /0 ſ 1 ſ >1; -.*ſ) *ſ .,; 0 *0ſ D ſ ,) 1.*ſ 8) 1ſ 81; /0ſ 0*,*-? 2*ſ ,) *ſ *L6>, ſ =1. , 12ſ 1ſ *.ſ 6-,*.ſ 2ſ ,) *ſ .,1- ſ 1 ſ .=*>; /6, 12ſ 620ſ ,) *ſ =-*> .*ſ .*-+ >*.ſ -*20*-*0ſ D ſ) ?ſ 2ſ ,) *ſ =-1?1^ , 12ſ 1ſ .> *2>*℁
( ) *ſ -.,ſ =- 2> =/*ſ 1ſ 6-,*. 62 . ?ſ .ſ ,1ſ ?69*ſ ,) *ſ ? 20ſ 6ſ =*- *>,ſ D/629ſ 6ſ 1ſ 620ſ ,) *2ſ ,1ſ -*^ >12. ,-;>,ſ ,) *ſ 8) 1/*ſ 6$-ſ >ſ 1 ſ>12+ >, 12ſ %620ſ 1= 2 12℁ ( ) *ſ .6?*ſ -*>1?? *206, 12ſ .ſ 5 +*2 ℁ 2ſ 6ſ 0 *-*2,ſ .= -^ ,ſ D ſ 6>12ſ A2ſ ,) *ſ =-* 6>*ſ ,1ſ ,) *ſ 7 ſ , !ſ .ſ *.ſ 6-,*.ſ -*>152 .*0ſ ,) *ſ ;2>*-,6 2, ſ 620ſ 2>1) *^ -*2>*ſ 1 ſ >12,*?=1-6- ſ .=*>; /6, 12ſ) *ſ =-1=1.*0ſ ,1ſ >1? ?*2>*ſ ,) *ſ -*. ; .> ,6, 12ſ 1ſ 9218/*05*ſ D ſ 01; D, 25ſ 6//ſ ,) 25.℁
: 6+ 25ſ -*20*-*0ſ) .ſ ? 20ſ 6ſ D/629ſ D ſ ;2 +*-.6/ 01; D, ſ) *ſ 2*L, ſ .1; 5), ſ 6ſ 1; 206, 12ſ 1-ſ 62ſ 20; D ,6D/*ſ D10 ſ 1ſ 01>,- 2*℁ ( ) .ſ) *ſ 0*>,*>,*0ſ 2ſ ,) *ſ >12.> 1; .^ 2*..ſ 1ſ ,) 1; 5), ſ 2>/; 0 25ſ .*2.6, 12ſ =*->*=, 127-*ſ /*>, 12ſ 620ſ *?1, 12ſ ;20>Fſ ,) .ſ .*-?℁ :*2>*ſ =-*0*2, 6/.ſ 1-,-;,) *ſ .ſ >**0.ſ ,) *ſ >*/*D-6,*0ſ 26; 5; -6, 12ſ 1ſ D .ſ 8) 1/*ſ =) /1.^ 1=) ſ 8 ,)ſ ,) *ſ ?6L ?ſ 1ſ ſ ſ ,) 29ſ ,) *-* 1-*ſ ſ6?℁ ( ) .ſ .ſ =-1D6D/ ſ62ſ 1- 5 26/ =1. , 12ſ 8 ,)ſ *.ſ 6-,*.Fſ D ; ,ſ ,) 1; 5), ſ .ſ 2*+*-,) */*..ſ *L^ =/ > ,/ ſ 6//*5*0ſ DE7ſ - .,1,/*ſ 6.ſ 62ſ *+ 0*2>*ſ 1 ſ *L .,^ *2>*ſ I16 + ſ 7 "ſ! d℁ L ſ g ſ R ſ *0℁ 01,X℁ ( ) *ſ 6-5; ? *2,ſ .ſ 2 ;>)ſ ?1-*ſ /*5 , ?6,*/ ſ *?=/1 *0ſD ſ -^ .,1,/*ſ ,962ſ D ſ *.ſ 6-,*.ſ 6.ſ 62ſ *+ 0*2>*ſ 1 ſ =6-, >; /6-ſ *L .,*2>*. ſ 21,ſ 1 ſ *L .,*2>*ſ 2ſ 5*2*-6/℁ ,ſ) 6.ſ 1 ,*2ſ D**2ſ 20 >6,*0ſ ,) 6,ſ ,) *ſ 6-,*. 62ſ *2,) ?*?*ſ .ſ 2+6/ 0ſ -1?ſ ,) *ſ ,6> ,ſ 6..; ?=, 12ſ 1ſ ,) *ſ ?6A1-ſ =-*? .*℁ ( ) 1ſ -*6.12 25ſ -*6// ſ =-1>**0.ſ 2ſ 6ſ > ->/*℁ ( ) *ſ 6>>*=,62>*ſ 1 ſ ,) *ſ 015? ,ſ 6..; -*0ſ) ?ſ 1ſ : .ſ 182ſ *L .,*2>*ſ D ; ,ſ ;-_ .) *0ſ 21ſ *+ 0*2>*ſ 1 ℁,) *ſ *L .,*2>*ſ 1 ſ 62 ,) 25ſ */.*ſ 21-ſ 0 0ſ ,ſ *L=/6 2ſ ,) *ſ 1- 5 2ſ 1-ſ ,) *ſ =-*.*-+6, 12ſ 1ſ) .ſ 182ſ *L .,*2>*℁ ( ) *ſ 2 ,**L .,*2>*ſ -*>152 .*0ſ ? ; .,ſ -*=1.*ſ ;=12ſ .1?*,) 25ſ ?1-*ſ .,6D/*ſ 620ſ ? ? ; ,6^ D/*ſ ,) 62ſ ,) *ſ /**, 25ſ , ; / / *ſ 1ſ 8) >)ſ) .ſ >12.> 1; .^ 2*..ſ 6..; -*0ſ) ?℁ : *ſ >12>/ ; 0*. ſ ,) *-* 1-*ſ ,) 6,ſ) .ſ 182ſ 620ſ 6// 1,) *-ſ *L .,*2>*ſ ? ; .,ſ 0*=*20ſ 1-ſ ,.ſ D*5 2^ 2 25ſ 620ſ ?6 2,*262>*ſ ;=12ſ 6ſ ?1-*ſ =*- *>,ſ 6D.1/ ;,*ſ 620ſ // ? ,6D/*ſ * 25ſ ;=12ſ .1?*ſ 5-*6,ſ ſ 6?%Jſ : *ſ 0 .>1+*-.ſ 2ſ) .ſ 182ſ ? 20ſ ,) *ſ 21, 12ſ 1ſ .;>)ſ 6ſ * 25ſ ſ 1ſ 410℁ ,ſ >1; /0ſ 21,ſ) 6+*ſ D**2ſ 2+*2,*0ſ D ſ) ?^ .*/ ſ 1-ſ ,ſ ,-62.>*20.ſ) .ſ 2 ,*ſ >6=6> , *.℁ ,ſ ? ; .,ſ) 6+*ſ D**2ſ ?=/62,*0ſ D ſ 410ſ) ? .*/ ſ 620ſ ,) ; .ſ ,) *ſ =-*.*2>*ſ 1 ſ ,) *ſ 21, 12ſ 6,,*.,ſ ,) *ſ *L .,*2>*ſ 8) >)ſ ,ſ -*=-*.*2,.ſ (1 .ſ) .ſ 6ſ >32>.ſ *.,6/*ſ 6-,*^ . 62ſ 6-5; ? *2,ſ %ſ 1-ſ ,) *ſ *25ſ 1ſ 410℁ 9*ſ ,.ſ =-*0*>*. .1-ſ ,ſ .ſ 21,ſ 1- 5 26/℁ ,ſ .ſ 1; 20ſ ;// ſ 0*^ +*/1=*0ſ 2ſ ,) *ſ ſ 1ſ ,℁ 2.*/?℁ ,ſ 86.ſ 6.^ .6 /*0ſ D ſ 46; 2 /1ſ 6ſ >12,*?=1-6-A7ſ 2ſ ,) *ſ Jſ % 1ſ 620ſ -* ;,*0ſ 6ſ >*2,; - ſ620ſ 6ſ) 6/ ſ/6,*-ſ D ſ ,℁ ( ) 1?6.ſ _ ; 26.ſ 2ſ / .ſ $ ſ -" ſJU;ſ ( ) .ſ 6-5; ^ ? *2,ſ =-1>**0.ſ ; =12ſ ,) *ſ 6>, ; 6/ 1-ſ + -, ; 6/ 60? .. 12ſ 1ſ 226,*ſ 0*6. ſ 620ſ .ſ 6>>1?=62 *0ſ D ſ ,) *ſ -*>*=, 12ſ 1ſ 621,) *-ſ =1., ; /6, *ſ ,) 6,ſ 226,*ſ 0*6. ſ 6-*ſ 2*>*. .6- / ſ ,-; *ſ D*>6 ; . *ſ 6.ſ ,) *ſ ſ 6-ſ ? =/62,*0ſ D ſ 410ſ ,) *ſ ſ =6-.69*ſ 1ſ ,) *ſ 0 + 2*ſ +*-6> ,Eſ 620ſ 410ſ >62ſ 2*,) *-ſ 0*>* +*ſ 2*-ſ D*ſ *>* +*0℁ 1,)ſ 226,*ſ 0*6. ſ 620ſ ,) *ſ ?=1.. ^ D / , ſ 1ſ 0 + 2*ſ 0*>*=, 12ſ) 6+*ſ D**2ſ 0*2 *0℁ 226,*ſ 0*6. ſ 2ſ ,) *ſ -ſ 6-,*. 62ſ 1-?ſ 8*-*ſ *L=/10*0ſ D ſ 1>9*ſ 620ſ ,) *ſ ?=1.. D / , ſ 1ſ 0 + 2*ſ ? .5; 062>*ſ) 60ſ D7*2ſ _ ; *., 12*0ſ ,) -**ſ >*2, ; - *.ſ *6-/ *-ſ D ſ 4-*51- ſ -= 2 *2. ſ 5*2*-6/ſ 1ſ ,) *ſ ; 5; ., 2 62. ſ 6) 0ſ 86.ſ 6>0ſ 9218/*05*0ſ D ſ *.ſ 6-,*.ſ ,1ſ / *ſ / 6D/*ſ ,1ſ ?62 ſ *L0/ >*=, 12.℁ ; , ſ 6.ſ 6 /*ſ -*?6-9.ſ 6ſ ; 2 +*-.6/ ?6L ?ſ 1D21L 1; .ſ ,1ſ *L>*=, 12.ſ *0ſ .ſ 21ſ 1; 206, 12ſ 1-ſ >*-,6 2, ſ 620ſ >12 -?.ſ -6,) *-ſ .) 62ſ *-60 >6,*.ſ .>*=, ^ > .?℁
21,) *-ſ 6-5; ? *2,ſ 1-ſ ,) *ſ D* 25ſ 1ſ 410ſ .ſ ; .*0ſ $ ſ , ? *.ſ D ſ *.ſ 6-,*.ſ 620ſ 6==*6-.ſ ?; >)ſ ?1-*ſ >15*2, ſ 620ſ ,*26D/*℁ ,*=1>**0.ſ -1?ſ ,) *ſ 60? .. 12ſ 1ſ 6ſ -., 6; .*M *.ſ 6-,*.ſ -*A*>,.ſ 26/*>6; .*.X ſ ; . 25ſ) 18*+*-ſ ,) 1ſ >1--*>, 12.ſ 620ſ ?10 >6, 12.ſ 1ſ ,℁ ( ) 1?6.ſ _ ; ^ 26.ſ 8) 1ſ 0*0 ; >*.ſ ,) *ſ 6-5; ? *2,ſ 21,ſ -1?ſ =- ?1-0 6/ >6; .6, 12ſ D ; ,ſ -1?ſ ,) *ſ >12, 2; 1; .ſ .; ==1-,ſ 1ſ >-*6, 12℁ ( ) *ſ -5; ? *2,ſ -1?ſ 6ſ -.,ſ 6; .*ſ . ?=/ ſ .ſ >12. .,*2, ſ 8 ,)ſ *,)ſ *-ſ ,1ſ >ſ 6,6/ .?ſ 1-ſ = >; -*62ſ)62>*℁ ( ) *ſ 6-5; ? *2,ſ -1?ſ =*-=*, ; 6/ =-*.*-+6, 12ſ 6..*-,.ſ 62ſ 6D 0^ 25ſ -1+ 0*2>*ſ 620ſ 6ſ .; ., 6 2 25ſ -*6,1-℁ ( ) *ſ 12*ſ /*60.ſ *6. : ſ ,1ſ 62,) * .? ſ ,) *ſ 1,) *-ſ ,1ſ ,) *ſ 6>>*=,62>*ſ 1ſ *+*/6, 12℁
: 6+ 25ſ *.,6D/ .) *0ſ) .ſ 182ſ *L .,*2>*ſ ,) *ſ *L .,*2>*ſ 1ſ 410ſ 620ſ ,) *ſ +*- , ſ 1ſ 226,*ſ 0*6. ſ) 18ſ 8*-*ſ .; >)ſ 0*6.ſ ,1ſ D*ſ -*>152 .*0ſ 620ſ 0 ., 25; .) *0ſ H : *-*ſ >1?*.ſ 2ſ ,) *ſ 6-,*. 62ſ >- ,*- 12ſ 1ſ ,-;.,) ſ8) >)ſ *L,*20.ſ ? ;>)ſ ;-,) *-ſ ,) 62ſ . ?=/ ſ ,1ſ ,) 1ſ 0*,*-? 26, 12ſ 1ſ 226,*ſ 0*6.℁ 0*6.ſ M,) *ſ ,*?ſ 6.ſ ?;>,) ſ ? .6==/ *0ſ D ſ *-ſ 6.-,*.ſ 6.ſ D ſ 1>9*X℁ 8) >)ſ 6-*ſ >/*6-ſ 620ſ 0 ., 2>,ſ ?6 ſ D*ſ -*>* +*0ſ 6.ſ % ſ ,-;,*ſ 620ſ ,) *E ſ 6-*ſ 6/.1ſ . ?^ =/*ſ ,) *ſ ?6 ſ D*ſ -*56-0*0ſ 6.ſ 226,*℁ ( ) *ſ >- ,*- 12ſ .*+ 0*2,/ ſ 6-D ,-6- ſ620ſ 0*/;. +*ſ & / 6,ſ .**?.ſ >/*6-ſ 0 ., 2>, ſ620ſ . ?=/*ſ ,1ſ 12*ſ ? 20ſ ?6 ſ D*ſ 1D.>;-*ſ 2^ ,- >6,*ſ 620ſ >1?=/*L ,1ſ 621,) *-℁ $20*-ſ ,) .ſ >- ,*- 12ſ 62 ſ .,-125ſ >12+ >, 12ſ 62 ſ *25-1.. 25ſ) 6//; > 26, 12ſ ?6 ſ =-*.*2,ſ ,) *ſ >-*0*2, 6/.ſ 1-,-;,) *ſ >-*0*2>*ſ 1-*ſ 21,ſ . ; -=- . 25ſ ,) 6,ſ .1ſ ?62 ſ +656- *.ſ .) 1; /0ſ D*ſ *?^ D10 *0ſ 2ſ ,) *ſ 015?6, >ſ *L=1. , 12ſ 1ſ ,) *ſ 6-,*. 62ſ =) /1.1=) ℁ ; ,ſ ,) *ſ 6>>*=,62>*ſ 1ſ ,) .ſ =- 2> =/*ſ 1ſ >/*6-2*-.ſ 0 ., 2>,2*..ſ 620ſ .ſ ?=/ > , ſ) 60ſ)ſ =1,D2,ſ 620ſ */ > ,1; .ſ 2 ; *2>*ſ ; =12ſ ,) *ſ / , *-6, ; -*ſ 1ſ -62>*℁ *.ſ 6-,*.ſ 86.ſ) ?.*/ ſ 6ſ ?10*/ 1ſ 5-6>*ſ 620ſ /; > 0 , ſ 1ſ *L=-*.. 12ſ 620ſ) .ſ >- ,*- 12ſ 1ſ ,-;,) ſ =-1?; /56,*0ſ 6,

,)*' 06C82 1 ',)*' 65*' 1 ' 12 5' d '620' //;.,-6,*0' 2' >1?=1.. , 12' ') ?.*/ ' 620' D ' 6.>6/ ' >12,- D;,*0' /6-5*/ ',1' =-10;>*',)*'>)6-6>,*- ., >' *L>*//*2>*.' 1 ',)*' -*2>)'>/6.. >' ., /*%

;>)' 6.' ,)* ' 6-*' ,)*.*' 6-*' ,)*' >12., ,;*2,' =- 2> ^ =/*.' 1 ',)*' =) /1.1=) ' 1 ' *.' 6-,*.% ( )*' 6-*' 2* ^ ,)*-' +6/ 0' 21-' 1- 5 26/% 1,)' 6 /*' 620' * D2 ,[' .62>, 12',)*' *2-1/?*2,' 1 ',) .'=) /1.1=)*-' 6?125',)*' 2;?D*-' 1 ',)1.*' 8)1'=-*,*20',1' 2+*2,' 8)6,',)* 'D1-^ -18 ' 5/1- 6?_;*' 60*=,1. ',6?_;6?' -*=*-*- 2,' _;e' 6>>*=*-, 2,%J' ' .' ?=1.. D/*',1'=-1>**0' 6-' 2' *,)*-' ,)*' ?*,6=) . >.' 1-',)*'=) . >.' 1 ' *.' 6-,*.' 8 ,)1;,' ?**, 25',)*' 0-*6?.' 1 ' *;>==;. ' *?1>-.,;. ' = >;^ -;. ' 620' 1,)*-'=) /1.1=)*-.' 1 '4-**>*' 620' D* 25' >12^ , 2;6// '-*? 20*0'1 ',)*' .121-1;.'+*-.*.' 627'/;? 21;.' *L=1. , 12.' 1 ' ;>-*, ;.%

'0* 2 , 12' 1 '*L .,*2>*.' 86.' .;55*.,*0',1' *.' 6-^ ,*.' D ') .' 0*?12.,-6, 12' 1 '*L .,*2>*%' < 20' 1-' .= -^ .,;6/*L .,*2>*' .',) 29 25' .;D.,62>*'T D10 '1-' ?6,*^ - 6/*L .,*2>*' .' .;D.,62>*' - ,)1;',)1;5),% ;.' 6.' .1?*=1. , +*')6-6>,*- .,>' .'-*_;*0' 1-',)*'0 .>- ?^ 26, 12' 1 '?6,,*-' *L,*2. 12' 8)>)' .' ,.' ?1.,' 6? / 6-' =-1=*-, ' 86.' 6..;?*0' 6.' ..' .=*> >' 0 *-*2>*' 620' ?6,,*-' 86.' 0* 2*0',1' D*' 1L,*?/>0' .;D.,62>*% ( ) .' 2*>*.. ,6,*0',)*' 0*2, >6, 12' 1 ' .=6>*' 620' ?6,,*-' 1-',)*' 2*56, 12' 1 ' .=6>*' 6.' 6' .*=6-6,*' *2, , % :* >*' 6-1.*',)*' 01>,- 2*' 1 ',)*'% 1' 620',)*' ?6L ?',)6,' 6,;-*' 6D)1-.' 6' +1 0% ()*',)*. .' 1 ' ;>-*, ;. ' *.,' 2' -*D;.' 262* J' 620') .' 6-5;?*2,6, 12' 12',)*',)*. . ' *+ 2>*',)6,',)*-*' 86.' 21' -*6/ 21+*/,A¢ 2',)*.*' 01>^ ,- 2*.% ;.' 2' *.' 6-,*.',)*',81' 1-?.' 1 '*L .,*2>*' 6-*' =-*.*2,*0' 6.' 1==1. ,*' --*>12> /6D/*' 620' -*> =-1^ >6// ' 2>1?? ;2>6D/*% 2' >12.*_;*2>*' D*6..,' 6-*' =1..*.' 2 ' >6=6> , ' 1 '-*6.12% ()*' 6-*' =;-*/ ' ?*^ >)62 >6/ ' ?*-*' ?6>) 2*.% ().' .' 12*' 1 ',)*' D1/0*.,' ?1.,'=6-601L >6/ '620' ?1.,'0625*-1;.' 1 ',)*' 6-,*. 62' ,*2*,.!' D;,' ,'6==*6-.',1' D*' 6' 2*>*.. , ' 1 ') .'=) /1.1^ =) ',)1;5)'*' .'6>>;.*0'1 ')6+ 25',69*2' , ' 6' 81-,)^ /*..' 6==-1=- 6, 12 ' -1?',)*' 2,12 626' < 6-56- ,6' 1 ' 41?*[' *-* -6 ' % *-,6 2' ,' .' ,)6,',)*' 6>>*=,^ 62>*' 1 ',)*' 6-,*. 62' 0* 2 , 12.' 1 ' ?' 20' 620' ?6,,*-' ?;.,' -*.;/,' 2',)*' 0*>/6-6, 12',)6,' D*6.,.' 6-*' ?*-*' ?6>) 2*.% ;,' ',)* '6-*'.;>)'))18'6-*',)* '.*,' 2' <1, 12' 620')18'01',)* '=*- 1-?' 6>, 12.' 6==6-*2,/ ' +1/;2,6- ' 620' 0*/ D*-6,*H' <1-*1+*-' ' D*6.,.' 6-*' ?6>) 2*.' ?62' ?;.,' 6/.1'D*' 6' ?6>) 2*' .1' 6-' 6.') .' D10 ' .' >12>*-2*0 % 1-' ? 20' 620' ?6,,*-' >6221,' 1=*-6,*' ;=12' 12*' 621,)*-% 2' 6,,*?=,' 86.' ?60*' ,1' .1/+*' ,)*.*' *2 5?6.' D ',)*' =*>;/6-' 6-,*. 62' 01>,- 2*' 1 ' .. .,62> ' 1-' 1 ' 0 + 2*' >1C1=*-6, 12' 2' 0*,*-? 2 25' 6//',)*' ?6,*- 6/6>, 12.' 7X' 62 ?6,*' D10 *,% 2' <6/*C D-62>)1',) .' 01>,- 2*' ;2 1/0*0' ,.*/ ' 2,1',)*' .>)*?*' 1 ' >>6. 126/ 6;.*.T 2' *D2 ,[' 2,1',)*' .=/*20 0' 62,6. ' 1 ',)*' -*C*.,6D/ .)*0' : 6-?12 T 2' = 21[6' 2,=',)*' ?1.,'6D.,-6>,'>1?=/*,*' 620' .E ,*?6,>' 62^ ,)* .?%

() .',)*1-' 2' -*56-0',1',)*' ?*>)62 >6/ >1?=/*L 12' 1 '+ ,6/ ?1+*?*2,.' 6 *>,*0',)*' *,) >.' 1 ' *.' 6-,*.% ()*' >) *'0*,6 /.' 1 ') .',-*6, .*' 12' ,)*' 6.. 12.' 8*-*' 0*- +*0' -1?' - .,1,/*'D;,') .'182'+*8.'1 '? 20'620' ?6,*-' 620') .' 182'.,;0*.' 620' *L=*- ?*2,.' 2' 626,^ 1?' 620'9 20-*0'.>*2>*.' ?10 *0') .'*L=/626, 12' 1 ',)*'=*- =6,*,>'01>,- 2*,% :*' ?60*')' .' <1-6/) /1.^ 1=) ' 2' 5-*6,' ?*6.;-*' 62' *L=1. , 12' 1 ',)*'=) . >6/ =)*21?*26' 8)>)'6>>1?=62 '*?1, 12T)1' *?=/1 *0' /6-5*/ ',)*' 0*+>*' 1 '+ ,6/ .= - ,.' 8)>)' -*6==*6-' .1')6D ,;6// ' ;' 1>9*T)*' -*56-0.',)*?'+*- ' ?;>)' 6.' ',)*' 8*-*' /; 0.' 2' 6') 0-6;/>' *25 2*T 620',);.')*' D*>1?*.',)*' /*5 , ?6,*'=-*>;-.1-' 1 ' 120 //6>' 620' 6D62 .' 1 ' 6 2 ' <1/*.>)1,,' 620' :*?D*-,' =*?>*-' ()*' =1. , 12.' 1 ' *.' 6-,*.' 8)*,)*-',)*' D*' .1D*-' 1-' 62,6.,>6/ ';-2 .)' .;55*., 12' 1-' ., ?;/6, 12' 620' 1^ ,*2' 0 -*>, 12',1',)*' ?1.,'+6- 1;.' D-62>)*.' 620', =*.' 1 '.;D.*_;*2'.=*>;/6, 12%

.' 6-,.')6.' 0 ,' D*) 20') ?' 6',-*6, .*' 12' <62' ,1' 8)>)' 6' . 25;/6-' >12,-6.,' .' 1 *-*0' D I,)*' 2*6-/ ' >12,*?=1-62*1;.' *..6 ' 1 ' :1DD*.' ' ' # ' <62 .',)*' ;2 12' 1 ',)*' 2,*//*>,;6/ 620' ?6,*- 6/ ;2 +*-.* ' ' ,)*' =1 2,' 8)*-*' D1,)' ?**, ' ,)*' . 2,)*. .' 1 '1==1. ,*.' ' ,)*' ?>-1>1.?' 7,)* >1?=/*L' 1-562 .?' 8)1.*' *L7 =/626, 12' 0*?6 0.' ,)*',)*1- '1 ' ? 20' 620' 1 ' ?6,,*-' 6/ 9*% :*',);.' ;-2 .)*.' 6'=6..65*' -1?' ?*,6=) . >6/ ,1'=) . >6/ 2_;-*.' 620' ! ',)*' ?*,6=) . >.' 1 ' *.' 6-,*.' D*' 1;20*0' ;=12' ,)*' 1D.*-+6, 12' 1 ',)*' .;==1.*0' 6>,.' 1 '>12.> 1;.2*..') .'=) . >6/ ,)*1-' 1 ',)*' ;2 +*-.*' .'=;-*/ ' 62> ;/ '' 6' -1?62>*' 2.' ,' 86.' 0*. 526,*0' D ') ?.*/ % 2' 0*^ +*/1= 25',)*' 5-620' >12>*=, 12' 1 '6' >1?=/*,*' *L=1. ^ , 12' 1 ',)*' 1-0*-'1 '>-*6, 12' 1-' 8)>)'0;*' >-*0 ',.)1;/0' D*' 5 +*2',1' *.' 6-,*.' ,' 86.' 2*>*..6- ' ,1' *L=/6 2' ,)*' =)*21?*26' 1 ' >12, 2;6/ ?1+*?*2,' 12' =- 2> =/*.' *L>/;. +*/ '?6,*- 6/' 8 ,)1;,'60? ,, 25'0 .., 2>,' .=6>*' 1-' =*-? ,, 25' 62 ';21>>;=*0' 2,*-.,>*.' D*,8**2',)*' >12., ,;*2,'=6-, >/*.' 1 ',)*' ?5), ' 8)1/*' 2' 1-0*-' ,)6,',)*-*' ? 5),'D*' 62' ;2/ ? ,*0',*2;, '1 '?6,,*-' ,1' 6//18',)*' -**' > ->;/6, 12' 1 'D10 *.' 1 '0 +*-.*'0*2. , ' ,)*' 6,1?.' 1 ',)*' 12 >'.>/ 11/?;.,'D*' -*A*>,*0' 620',)*' 2 2,*'0 + . D / , '1 '?6,,*,' ?6 2,6 2*0% ()*.*' =-*^ -*_;.,.*.' 8*-*' .*>;-*0' " ',)*') =1,)*. .' 1 '6;'*20^ /*_;'>->;/6,1- '+1/;D/, '1 '?6,,*-' 8)>)' ?5),'*L^ =/6 2' 6,',)*' .6?*' ,?*',)*' ?1, 12.' 1 ',)*' =/621,6 ' 1D*.% 21,)*-'60+62,65*' 86.'6,,6 2*0' D ',) .' 62^ > ' ()*' 1=*-2>62' . .,*?'8)>)')60' D**2' 6==6-^ *2,/ '-*=;0 6,*0' D ',)*' =6=6> ' 2',)*' - *>*2,'>120*?^ 26, 12' 1 '46/ /*1' 86.' 21,'6..*-,*0' 620' 1,)*-',)*1/15^ >6/ 1D*>, 12.'%8*-*' 62, >=6,*0' D '1D.>;-25',)*' 0 .^ , 2>, 12' D*,8**2' 6D.1/;,*' 620' -*/6, +*' ?1, 12% ()*' +*-' .,6,*?*2,'1 ') .' . .*?'1 ',)*';2 +*-.*'6.'62') ^ =1,)*. .' 86.' 6'>12>*.. 12' ?60*' D ',)*', ? 0 , '1 ' *.F 6-,*.',1',)*'=-*,*2. 12.' 1 '*>>/*. 6., >6/ 015?6, .?T 620' ,' 86.' 2' -*.=12.*' ,1',) .' 620' .; X1-0 26,*' 6-,*^ . 62') =1,)*.*.',)6,' *8,12' ;,,*-*0') .' >*/*D-6,*0' ?6L ?') =1,)*.*.'212' 251%J ()*' 6-,*. 62',)*1-' 1',)*' 81-/0',;-2.'12',)*' >*/^ *D-6,*0' 01>,-2*' 1 ',)*' 1-, >*.% <6,,*-' 1-5 26// ' *L ,..' ' .;>)' D*',)*' 8 // 1 ' 410' 2' 6' ..6,*' 1 ' 2>6/^ >;/6D/*' 0 + . D / , '620' 1 ' ;2 ?65 26D/*' 6,,*2;6, 1 Y' 2',) .'>120 , 12' 1 ' 2..6D / , ' ?1, 12' >1?7*2>*.' D*^ >6;.*',)*-*' >62',)*' 21' *_;/,8 ;?' D*,8**2' 0 .. ? /6-' 620' 0 .>122*>,*0' =6-, >/*.% ()., ' ?1, 12' D*>1?*.'>-^ >;/6-' 1-' --*5;/6-/ ' .= -6/ ' -1?',)*' 5-*6,*-' 1-' /*.' + 1/*2',*20*2> '1 ',)*'=6-, >/*.'=-*.. 25'656 2.','*6>)' 1,)*-',186-0.',)*/2*' 1 '62' ;20*,*-? 2*0' 6L .% .' ,)*' =-1>*..' 60+62>*.',)*-*+1/;, 12' D*>1?*.' ?1-*' 0*^ >0*0',)*' 6L .' 1 '-*+1/;, 12' ?1-*' 0* 2 ,*' 620' 6' 0*^ ,*-? 26,*' +1-,*L' .' *.,6D/ .)*0% ' ,)*' >12, 2;62>*' 1 ',)*.*' 5 -6, 12.',)*' ?1-*' >1?=6>,'=6-, >/*.' 1 ' ?6,^ ,*-' 6-*' 1->*0' 286-0.' 620' 6->' ;-,)*-' >120*2.*0' 8)/*',)*' ?1-*' -6-* *0' 6-*',)-182'1 ',186-0.',)*' *L^ ,-*? , *.' 1 ',)*'- 25% ;',)*' ?1-*'.1/0'=1-, 12.'6-*' ., // 2,*-=*2*,-6,*0'/ ',)*',) 22*-' 620' ?1-*' /; 0'620' ,)*' 8)1/*+*-, 5 21;.' ?1+*?*2,' *20;-_7' 620' >6-- *.' 6/125' D1,)' ,)*' .*2. D/*' 620' ?=6/=6D/*' ?6,*- 6/.' 1 ' ,)*';2 +*-.*% *-*2,'>*2,-*.' 620' 0 *-*2,'6L*.' 1 ' -*+1/;, 12' >12., ,;,*',)*?.*/+*.' 20',);.' ?;/, ;0 ^ 21;.' . ..*?.' 1 '=/62*,6-' D10 *.' *6>)' 2' ,.' 182'+1-^ ,*L' .=- 25' 2,1' *L .,*2>*% *8'+1-,>*.' ?6 ' 1- 5^ 26,*' 2',)*' D1.1?' 1 '/6-5*-' +1-,>*.' 1-'+1-,>*.' ?6 ' >1?*' 2' >12,6>,' 8 ,)' *6>)' 1,)*-' 620' >16/*.>*' 2' 6' A1 2,'6>, 12' 2' 8)>)'212*'/1.*',)*-'=- ?, +*' ?1+*^ ?*2,'T 1-' /6-5*-' +1-,>*.' ?6 ' .* [*' *2>1?=6..' 620');-- '6/125' 8 ,)',)*?1+*?2/' ?1+*?2,' 6-*' =-1-' 0*0' ;.' 1-' D ',) .' 1?=/*L' .>)*?*' D;,' ,)1;5)' .?=/*' 2' =- 2> =/*' 620' >12. .,*2,' 2' 0*+*/1=?*2,' ' .' ?1-*' >1 WP$>6,*0' 2' 6>, 12' 620' 2' *L=1. , 12',)62',)*' > >/*.' 12' *=> >/*.' -1//*OJ'C1',)*' *2>*-/ ?6 >' ?*>)62 .?' 1',)*')*6+*2.% ()*.*'6-*',)*' 6-,*. 62') .>.'8)>)' 8*-*' *L=/10*0' D ' -' .66>' *8,12' 620' 8)>)')6+*' /6 2' .1' 0*60' 620' 01-?62,' .2>*',)*' *8,12 62' -2C > = 6',)6,',)*' 6-*' .>6->*/' ?*2, 12*0' *L>*=,' 6.' ,)*' 1DA*>,.' 1 '.> *2, >' .>1-2%

;' .1?*' 6=1/15 ' ?6 'D*' ?60*' 1-',) .' .=/*20 0')6//;> 26, 12% ,' .' 21,' 1-',)*'=-*.*2,'5*2*-6, 12' 1

*. ? 6-*6 ' o $ ' 4 ; ' (/ ' ' 6' >*/*D-6,*0' -*2>)' =-*6>)*-' 620' >12,-1+*-. 6/ 8- ,*- ' 87 .' D1-2' 6,' -*' 2' RR : *' *2,*-*0' 6,' 62' *6-/ ' 65*' ,)*' 2*8' 125-*56, 12' 1 ' ,)*' -6,1- ' 8)*-*' 6,)*-' M. ; D. *^ _ ; *2,/ '>6-0 26/X' *-;//*' D*>6?*') .' .= - ,; 6/ 60+ .*-' 620' /6,*-') .' - *20 .' 6' =-*6>)*-' -1?' SNQ ,1' S Q')*' ?*,' 8 ,)' ?6-9*0' . ; >>*..' =-1 1; 20' ., ; 0 ' 1',)*' 81-9.' 1 ' , ;5 ; ., 2*' ?60*') ?' 62' 60)*-*2,' 1',)*' B62.*2 ,.. ' 8)1.*' 01>,- 2*.')*' 0* *20*0' 8 ,)' 6 [*6/ 8)>)' ?60*') ?' ?62 '*2*? *. : *' +,6.' 1-D 00*2' ,)*' =; /= , ' 620' 6' "2 ' ' " ' 86.' 1D,6 2*0' 656 2.,') ?'D ; ') *')60', 2*', 1' *.>6=* '621,)*-' ')*' 86.' *L /*0', 1' # ; ?=*-' 8)*2>*')*' 86.' 2' S N'=*-? ,,*0', 1' -*, ; -2 : *',)*2' 8*2, ' ,1' 1?*', 1' =/*60',)*' >6; .*' 1 ' ,)*' B62.*2 .,., ' 620' 0*/ +*-*0' 2',)*' =-*. *2>*' 1 ',)*' =1=*' 6' -*?6-96D/*' .=**>)' 8)>)' 86.' =; D/ .)*0' 2',)*' D ' $!'& ' 2') .' -*, ; -2', 1' -62>*')*')60', 1' >12>*6/) ? .*/ ' ; 2, / SSQ' 8)*2',)*' 6->)D .)1=' 1 ' 6- .' 6==1 2,*0') ?', 1' =-*6>)' 0 ; - 25' 0+*2, 2',)*' >) ; -)>)' 1 ' , 1>) ;', .112')*' 86.' 656 2' 1D/ 5*0' ,1' /**' D ; ')*' 1 ; 20' 6' =18*- ; / =-1,*>,1-' -.,' 2',)*' 0 ; 9*' 1 ' ' 2*. ' 620' .; D. *_ ; *2, ŒE' 2',)*' 0 ; 9*' 1 ' Œ 62>1 ; -,á' : *' 0 *0' 6,' 62>1 ; -,' 12' B62 ' R SSR //) .' 81-9.' ,)6,' 6-*' = ; D/ .)*0' 6-*' 1 ' 6 >12,-1+*-. 6/ >)6-6>,*-' .1?*' 1,)*-. ' *5 - ' 'N6 1' ., // -*^ ?6 2' ; 2=; D/ .)*0' : 1* *-' ; ' ? 2 ' L 'Q K *. ? 6-*, . ** $! *. 1/6, 12 ' . ' ID12O ' * ' %-8 I 8 G ' < 6,, ' LL + ' T' < 6-9' L ' ' 6.' 6' ,-62. ^ /6, 12' 1 ' *. =*> 6// ' 2' 62 L ' K 620' 1-' ,)*' 1+*-. =-*60 25' 8' 1 ' " = ' " ' " ' + ' ' P' M. 1',)*' % +65 ; *^ / ' 620' 26>>; -6,*/ ' -*20*-. : *-*' 62' *. =*> 6/ 0 ^ >; /, ' 2',)*' 2,*-=-*,6, 12' 1 ' ,)*' =)-6.*' .' >-*6,*0' D ' ,)*' 6?D 5 ; , ' 1 ' ,)*' ,*-?' 8)>)' .' ; . ; 6// ' -*56-0*0' 6.' *_ ; +6/*2,', 1' ,)*' - % 1' 1-' ' M '= 226>/*JX' 1 ' ,)*' (*?=/*' M<6,, ' + ' T' + ' RX **' d & *' D*/ *+* J' .6 .' : 6+*-2 >9 ' ,)6,' 1 ' 6// ,)*' ?*62 25.' 1 ' ,)6,' 6-*' .; > *2,/ ' .; =^ =1-,*0' 212*' .1' >1?? *20.' ../ ' 6.' ,)6,' 1 ' 1' =-1=*-/ '1 '6' 56-?*2, ' *' 5 ' 6?L+' K T ; ?L+' NST [-6' +' NT U*>) + ' KNT B65 ' KT ,)*2' .*>^ 1206-/ ' 1 ' =/6>*.' -*5 12.' 1 ',)*' *6-,)')*2>* ,)*' *20.' / ? ,. ' ; ,,*-?1.,' =6-,. ' 1 ',)*' *6-,) B1D' LLL+ ' NT LLL+ ' NI .6 L ' K [*9 +' W M *=, ---% 6 ' f ' 7>H,)*' *L,-*? , ' 1 ',)*' *6-,) >> 1-0 25' ,1' ,) . ' XBN' 81; /0' 0*21,*')*-*' ' ,)*' ; , ?1., ' =1 2,' 1-' =6-,' 1 '6' 0 .,- >, ' 1-' 1 '6' =/6>*' 620' 12' ,)*' ; , ?1.,)* 5), ' 1 '6D1? 26, 12' '1 12' ,)*') 5)*. ' =/6>*' 8)*W 6D1? 26, 12' >1; /0' D*' >1? ? . ,*0 ; ' , ,)*') 5)*. ' =1 2, 2' B*-; .6/*?' 86.' ,)*' (*?=/*' 620' , ? ; . ' D*' ,) 8)>)' . ' ,) ; . ' 0*. 526,*0')*-* & *' 60? . ' ,)6, ' ,) ' ?*62 25' 81; /0' D*' 1D. >; -*' D* 1-*' ,)*' ; / /?*2, 1 ' ,)*' =-*0 >, 12' D ; ' ,) . ' 8*')1/0', 1' D*' 12/ ' 6' >)6-6>, *-. ^ , >' *6, ; -*' 1 ' . ; >)' =-*0 >, 12. ' 1-? ' ?1., ' 2, *-=-*, *-. ' , 69*' , ' 6. ' % = % "' 1-' `0*. , -; >, 12T' D ; ' , ) . ' . ' 656 2. ' , )*' ; .65*' 1 ' , )*' 1-?' */. *8)*-*' 2' 62 */ ML ' N X' 620', )*' ?*62C 5' .' D-1; 5), ' 1 ; ' ? ; >)' ?1-*' + + 0/ ' 620' =1*, >6// ' D ' 1 ; -' >12. , -; >, 12  ' 2', )*' . ; ? ? , ' 1 ' 6D1? 26, 12' . ' 6' 0*. , -1 *- ' =-1D6D/ ' >1//*>, +*/ ' 1-' `0*. , -1 *-. 2' 5*2*-6/ >>1-0 25', 1',) . ' *L=/626, 12 ',)*-* >62' D*' 21' 01; D, ',)6, I',)*' =, ')6. ' 6/-*60 ' - 5/ , / ' 5 +*2',)*' ?*62 25' 1 ',)*' =6. .65*' 8)*2' , ' , -62./6, *. ') ' , -' ' 2% ' $ O ' D N' %= % ' , 1-6, ' 620' `.1',)*' -' ?D-1. 1?*8)6, 0 *-*2, ' -1?',) . ' . ' ()*101, 12' ' ' -1; -1, >' M,)*. *', 81' 81-0. ' 6-*' 862, ^ 25' 2',)*' 6, >62' 10*LX ' ' % ' O % ' * ' %-* * ' M 10 6, -8+' % % 8' 620' .1' B6>1D' 1 ' 0*. . 6' M6= ;56, ' = X' *L>*=*, ',)6, ')*' .**?. ', 1')6+*' -*60') ' % % ! ()*' *.), 1' 5 +*. ' 12',)*' 8 25. ' 1I' 6D)1--*2>* ' 620',) . ' =)-6*?' -* *-. ', 1',)*' 1?62' *65/*. ()*' ; /5 ' 6 ' ' ' % ' " = ' S *2 4-% ') ' - % ' % O = % ' % % P' I ' "!' ' 2' /1>%X 1?*' >10>*. ' -*60' ' ' % 'D " "' ' ' M. **' *22 >1,, ' ; ! ' # "! 2' /1> *' 1.. ' ! ! + ' X () . ' 65-**. ' 8 ,) ,)*' -*60 25' 1 ',)*' *=, ' 620' B*-1?*' 6. ' 6/. 1' 1 ',)*' <*?=) , >' 620' 6/ 0>' +*-. 12. ' 620' 8 ,)' ,)*' >,6^ , 12' 1 ',)*' *+625*/ ,. ' ?6 ' D*' 6' ?*-*' >1--*>, 12' D ; ', ,)*-*' . ' 6' >; - 1 ; . ')*' ; -5*0' D ' < >)6*/ . ' 8)>) .**?. ', 1' 5 +*' , ' .1?*' 8* 5), B1.*=) ; . ' 2' -*>1-0 25' ,)*' 0*. , -; >, 12' 1 ',)*' -L' 2,12 6' .6 . ',)6, ',)*' B*8. ' ,) ; . ' ?60*' ,)*' (*?=/*' D ; /0 25' 6' . ; 6-*' 21, >12. 0*-^ 25',) 6, ', ' 86. ' 8- ,, *2' 2',)*' =-1=)*> *. ',)6, ',)*' > , ' 620' (*?=/*' .)1; /0' D*' ,69*2' 8)*2',)*' (*?=/*' 86. ' ?60*' 1; -C. _ ; 6-*' M & *-' + ' ' X (1' 8)6, ' =-*0 >^ , 12',)*' . ,1- 62) *-*' -* *-. ')6. ' 6/86 . ' 6==*6-*0' 1D^ .>; -*' 620') . ' 8)1/*. ,6, *?*2, ')6. ' D**2' =*-=/*L 25 ; ' < >)6*/ . ' 6-5; *. ' ,)6, ' ',)*' -*60 25' 1 ' 62 L ' K ' 86. ' 2') . ' 06 ' ,)6, ' 5 +*2' 6D1+*' , /*0 >; /, ' .1/+*0' 1-' 8*')6+* ', 1' . ; ==1. *')*' -*60',)*' /6. , ' 8 1-0 /7/=A7 ' " = + 1' (' 8)>)' >6. *' ,)*' ?*62 25' 81; /0' D*' 620' 2',)*' (*?=/*' .)6//)*' 8)1' >; , . ' 1 ' M -1 A ' h7K =X' D*' 6' 0*. 1/6, 1-J' I1, ' ! ' ! ' ; = " + ' ' R X ' 8*' ?6 ' , 69*' B1. *=) ; . ' 6. ' 6' -*=-*Œ . I>2, 6, +*' 1 ',)*' >1? ?12' 1= 2 12. ' 1 ') . ' >1; 2, -A ?>2 ' ,)*' ? ; . , ')6+*' -*56-0*0',)*. *' =-*0 >, 12. ' 6. ' 20 25' ,)*-' ; / /?*2, ' 21, ' ?*-*/ ' 2' ,)*' 6>, . ' 1 ' 2, 1>) . ' = =)62*. ' D ; , ' 6/. 1' 2',)*' 0*. , -; >, 12' 1 'B*-; .6/*?' D ' , D*' 1?62. I& ! ' L ' X . ' 656 2. , ',)*' 1= 2 12',)6, ' 7/=$' .', 1' D*' ; 20*-. , 110' 1 ' 01/6, -1 ; . ' 1DA*>, . ' >6-- *0' D ')*6, , *2. ' 2, 1',)*' (*?=/*' , ')6. ' D**2' 1DA*>, *0',)6, ' ,) . ' 81 0' 0*. 526, *. ' 01/. ' 12/ ' 6. ' 601=, *0' D ',)*' B*8. ' ; ' ,) . ' . ' 8)1// ' ; 2 1; 20*0' 6. ' ' 25. ' L ' T' K 25. ' LL ' N' 620' 1,)*-' =6. . 65*. ' 6D; 2062, / ' .)18 20**0',)*' 81-0' . ' 6/86 . ' ; . *0' 1DA*>, +*/ ' , 1' 0*. 5^ 26, *',)6, ' 8)>)' . ' 62' 6D1? 26, 12' 21, ' D ; ' ' ,)*' =6-, *. ' .=19*2' 1 % ' , , 1' . ' + 7 ** ! *. = *- , ' 6' 26?*' 1 ' -*=-16>)' D ' 8)>)',)*' *6-^ / ')-., 62. ' 2', ?*. ' 1 ' =*-. *>; , 12' 8*-*' ., 5? 6, [*0' 6>, 62, ; . %. 6 . ' ' ()1. *' 8)1'. *, '6' +6/ : *' 12',)*- 6 ,) ' 620' 8 // 21, ' 0*2 ' ,)*- 410',)*' -. ' , 1-? *2, ' 620' D ; , >)*-' 8 ,)' 6// ,)*-' ? 5), ' 620',)*2' >6// ,)*?' % = 2 ' D*>6; . *',)*' 8 // 21, ' .=6-*',)*-' 182' D10 *. T 6. ' 62 ,) 25' >1; /0' D*' ?1-*' 0*. =*-6, *',)62', 1', 1-. ; -*' 620', *6-' 2' = *>*. ',)1. *' 8)1?' 1 ; ' >6221, ' D ; ' 9218', 1' D*' 221>*2, %J ' 25)6?', ! ' 6 f 9 ' >) ' g R *. . 6 ; ' I1 ' + - , 1 6>; ' =*-) 1-')6/0 7' * : *D : ; /5 U7>7768X' 6 + //65*' I) %-*' 8 6, ' 8)>)' >621- . ' 6-? ' 86. ' 12>*' *2>6?=*0' 0; - 25') . ' >6?=6 52' 8,)' B; 06. ' MK' <6> L + ' SX ()*-*' . ' 21' ?*2, 1, ' 1 ' , ' D ',) . ' 6?*' 2' ,)*' 6>>1; 2, ' 1 ',)*. *' ,-62.6>, 12. ' 2' ' <6> 1-' 2' B1. *=) ; . ' D ; , ' 86/0' >12A*>, ; -*. ' I? "!' ! ' + ' NSQ' 21, *X',)6, ' , ' ?6 ')6+*' D**2',)*' M _ ' + X' 2',)*' .6?*' -*5 12' M ' <6> + ' T' B1. *=) ;-' ' SX *. , -1 *-' M- 217 ' " " "(' L10 L ' KNT [E 1% G ' ' 1- L ' X' 6-, ' *L, *-? 26, 1-' M. **' -1C ?*/ ' ' ' B*2 SQ T' 6/. 1' 2',)*' -" !' " '%" !' N!' -! ' N ' . X **' ' ! ()*' : *D-*8. ' 8*-*' 6>>; . , 1?*0' D ' 6' 5 ; -*' , 1' . =*69' 1 ' 62 ' . ; =*-) ; ?62' 65*2> ' 6. ' ,)6, ' 1 ' 62' 625*/ M. *>' ; .) ' 7 ' 12' L10 ' KXT' 620' 8)*2*+*-',) . ')60' 6' =-1+ 0*2, 6/ 6. =*>', ' 86. ' 6, ,- D ; , *0', 1' 6' 0 + 2*' ?*. ^ . *25*-' MK 25. ' L L ' N T' K' 6? LL + ' ST .6 LL+ ' RT >, . ' L ' KNX *>' L, +*2' 6^ , 62 . ' ?6/ 52 , ' ' -*=-*. *2, *0' 6. ' ,) ; . ' *?=/1 *0' MB1D' S' X ' **' ! *. . *-+62, . ' 6' 26?*' 5 +*2' 2',)*') ; ->)' 1 ' -62>*', 1' . ; >)1',)*' 1?62' 6,)1/ >' >/*-5 ' 6. ' 6+*' >)6-5*' 1 ' >) ; ->) ' .) *. ' 1-' >)6=*/. ' . ; D1-0 26, *', 1',)*' =6-^ .)' >) ; ->) ()*' 1/0' -*2>)' /68' 0 ., 25 ; .) *. ' D*^ , 8***2' =6-.)' >) ; ->) ' .) *. ' I% " ' >>U*OFeX 620' 6 ; L^ / 6- ' >) ; ->) ' .) *. ' I ' 8' 620',)*' >/*-5P C

=6- .)'=- *.,'M ;' 625*' ? 1'.%+%X' &) *2' 126=6-,*' -*.,1-*0',)*' 1?62' 6,)1/ >') ;->)' 2' -62>*')*' =-1^ + 0*0' 1-',)*' ., =*20' 1 ',)*' =6.,1-.' M>0 ? X' 1 ; ,' 1 ',)*' 51+*-2 ? *2,' ;20.1' ,' D*>6 ? *' ,)*-* 1-*' 0*. -6D/*' ,'1' -*0 ;>*' ,) * -'2 ; ? D*-'6.' ? ;>)' 6.'=1.. D/*% ,' 86.' .*,^ ,/*0',)6,',)*-*' .)1;/0' D*' 12*' 1-' *+*- ' 0 .,- >,' . ; DA*>,' ,1' 6' A; ., >*' 1 ',)*' =*6>*' 620',)6,',)*' .;D1-0 26,*' >) ;->)*.' I 8' .)1;/0' D*' .;==/ *0' 8 ,)' 8)6,' =- *.,',)* ' -* _; -*0' 12' >120 , 12' ,)6,',)*. *' =- *.,' .)1;/0' D*' >)1.*2' 6?125',)1.*' 8)1')60' =*2. 12. ' D ' ? *62.' 1 ' 8) >)',15*,)*-' 8 ,)6,',)*' 8)6,',)* -' >125-*56^ , 12.' 81;/0'5 +*',)*?',)* ' >1;/0' .;==1-',)*?.*/+*.%' (81' 0*>-**.' 06,*0' <6 ' N Q ' 620' *>' KS Q ' 5-62,*0',1',)*' 6 2 '6' ., =*20'1 ' ' -62>.%' ()*' -?/ ' *.,6D/ .)*0',)*?.*/+*.' 2' ,)* -' -*^ .=*>, +*' */0.' 1 '/6D1-' 620' >6?*' 2' 6>, ',1'0 *-' 12/ ' -1?',)*>;-6,*.' 1-'=6.,1-.' 2')6+ 25'6' .?6//*-'.6/6- ' 620' D725' ?1-*' ;20*-',)*>12,-1/' 1 ',)*' D .)1=.%' () .' >12,-1/',)* ' ,- *0',1'*.>6=*' D ;',)* -' * 1-,.' ?*,' 8 ,)' D/ ,'/ ,,/*' .;>>*..%' 1=*' 4 -*51- ' d '0*> 0*0' 2' 6+1-' 1',)*' *L .,25' 1-0*-' 1',)25.%' ()*' D .)1=.' 2*+*-' -*?1+*' 6' 0*..*-+62,' -1?') .' =6- .)' *L>*=*,' 1-' 5-6+*' -*6.12.%' ()*' 1-?',)*' 5-*6,*-' =6-,'1',)*' 1?62' 6,)1/ >' >/*-5 '1 ' -62>*' */5 ; ? '620')*2^ .)' -; .. 6%' **' ')1;-' '% !'N 4 ' ' ' 'M 6- .' Q T' 52*' Q QX'*,>%I' B6>1D.12' 2' : *-[15' 5 26 + % 1' 'NN

*.,-;>, 12' #' 'M .6%L L' QX%' **' < !

.,-;>, 12' ' ' (: ' 4 ' 0 ' % #' ' ' 12' 1',)*' 6=1>- =)6/ D119.' 1',)*' /0' (*.,6?*2,' 1;20' 12/ ' 2',)*' 4-**9%' **' / #/' ! %' - ' ' ! ' ( ) .' 6=1>-A =)6/ = *>*' 8) >)' .' >6//*0' D ' ( )*101, 12' 1-' 2' 1;-' *0 , 12.' 1',)*' *=,%' VXf') '&13)I** ' ; ' '" ' ' 1' 620' 2',)*' ;/5%' -" ' # ' ' ; ' ' " ' ? '$ % 1')6.' 2',)*' *=, ' ,)*' 2.>- =, 12')' % 1 'M&% C) 3 ' ' M 4 ' ' - A>' I% O * ' & '&' ' '" ' %" ' ' ++ + ' " '$ ' D $ ' '" ' - ' ' 1' 620' .' =/6>*0' 6,',)*' *20' 1 ' 62 */6.' 6' .;==/*?*2,6/ >)6=,*-' 1-? 25' 2',)*' ;/5%,)*' ,)' >)6=,*-' 1 ',)6,'=-1=)*,%' 2',)*' 25/ .)' ;,)1- [*0' *-. 12' ,' .' *2, ,/*0' 2' ;// 6.' 6D1+*' 8)*-*' ,' .' =/6>*0' D*,8**2',)*' : .,1- ' 1 ' ; .6226' 620',)*' -6 *-' 1 ' <626..*.%' **' 8 ' 0%>' ! %' ! ' ( )*' =/62' 1 ',)*' 8 - ,*-' .' D1,)' 25*^ 2 1;.' 620' 6,,-6>, +*%' -; . ' 8)1' 86.' 6' 0*+1;,' 81-^ .) ==*-' 1 ' */' ;-5*0' 62 */ ,1' .*-+*') .' 01/' 620' -*^ *--*0',1',)*' ?6-+*//1;.' 6>,',)6,',)*+1;-*0' 06 / ',)*' *21-?1;.' .6>- >*' 1 ',8*/+*' 5-*6,' ?*6.;-*.I' 1 ' 2*' /1;-' 1-,E' .)**=' 620' . L' +*..*/.' 1 ' 8 2*' M+*-% CSXT' D ;' 62 */' 9218 25',)*' 0*>*=, 12' >122*>,*0',)*-*C' +,)' .? /*0' 6,' ,' M+*-% XT' ,)*-*;=12',)*' 9 25'.;?^ ?12*0',)*' =- *.,.' 1 ' */' 620' 0*?620*0' 62' *L=/626^ , 12' -1?',)*?' M+*-% QC XT',)* ',1' .6, . ') ?',)6,' ,)*' 01/ 01*.' >12.;?*',)*' .6>- >*',1/0',)*' ?126->)' ,)6,' D*' .)1;/0' =/6>*' ,' D* 1-*' */) ?.*/ 'M+*-% C NX%' 62 */')18*+*-')60' 6.)*.' ..-*8*0' 12',)*' =6+*?*2,' 1',)*',*?=/*'620' >12+ 2>*0' -;.' D ',)*' ?=-*..' 1' ,)*' 11,..*=.';=12',)*' 6.)*.',)6,',)*'.;?=,;1;.' *6..' =-*=6-*0' 1-' */' 86.' >12.;?*0' 2',)*' 2 5),' D ',)*' =- *.,.',)*-' 8 +*.' 620',)*-' >) /0-*2' 8)1' >6?*' 2,1' ,)*',*?=/*',)-1;5)'.*>-*,'011-.' 620',)*' 9 25'./*8',)*' >-6 , '=- *..,' M+*-% CKKX%' .' 1-',)*' -6512' 8)1' ;2/ 9*',)*' 0;?D' */' 86.' 6.' -;.' ;-5*0' 6' / + 25' D* 25' M+*-% KN' K X' 62 */ =1 .12*0' ' 620',)*2' *L^ >/6 ?*0' ' ()*.*' I6-*',)*' 510.' 1;'81-.) ='GI' M+*-% K K X% ()*' 6D /12 62.')18*+*-' 5-*6,/ ' *2-65*0' 6,' ,)*' 0*.,-1 *-' 1',)* -' 510' 0*?620*0' 1 ' -;.',1'.;-^ -*20*-' 62 */' 8)1?',)* ' 2,1' 6' 0*2' 8)*-* 2' 8*-*' .*+*2' / 12.' M+*-% KQC7KX% ;,' ,)*' 625*/ 1',)*' 1-0' >1?2?620*0',)*'=-1=)*,' : 6D699;9' 2' B;0.*6',1' 51',1' 6D /12',1' ;-2 .)' 62 */ 8 ,)' 110' 620' 8)*2')*' =/*60*0' 521-62>*' 1',)*' /1>6/ , ',)*' 625*/ >6-- *0') ?' D ',)*')6 -' 1') .')*60',)-1;5)',)*' 6 -',1',)*' 12.' 0*2' 8)*-*' D1' *0' 620' >1? 1-,*0' 62 */ M+*-% SSCNRX% ,*-' .*+*2' 06 .' -;.' 8*2,',1',)*' 0*2',1' D*86$' 62 */' 620' D*)1/0' 62 */ 86.' .,, 25' ' ()*' 9 25',)*2' >1?2620*0',)6,')*' .)1;/0' D*' ,69*2' 1;,' 620' 6//' D .'=*-.*>;,1-.' D*',)-182' 2',1' D*' 2.,62,^ / ' 0*+1;-*0' 620',)*' 5-*6,' -;.' 1=*2/ ' 6>9218/^ *05*0',)*' 5-*6,2*.' 1',)*' 410' 1 ' .-6*/ M+*-% C KX% () .',1- ' .'-*60' 2',)*' 1?62');->)' 12' .)C & *02*.C 06 ' 620' 2',)*' 25/ >62');->)' 12',)*' KNO' 1 ' 1+*?^ D*-% *>' ' / #/' ' ' ! % " ' '" ' ; +! ' ()*' 1DA*>,' 1',)1' B*8^ .)' 6>,.)1-' 1',)*') ,.1- ' 1',)1' 0*.,-;>, 12' 1',' ' "' ' ' 86.' 6>>1-0 25',1' B6)2',1' 86-2' 656 2.,' ,)*' . 2' 1' 01/6,- ' .1?*' 1') .' D-*.),-*2' 8)1')60' *?^ D-6>*0' 5 =, 62' .;=*-., , 12.% ()*' D119' 86.',)*-Z*C 1-1' 8*// 606=,*0',1',)*',?*' 620' .)18*,)6,'=) /1.1^ =) ' 86.' 21,' .; > *2',1' 9**=' ?*2' -1?' 6=1.,6, [25' 2,1',)*' ?1.,' 6D.;-0' 620' 0*5-60 25' .;=*-., , 12. I ()*', ?*' 1',D*' 8 - , 25' B6)2' 6.>- D*.' ,1',)*' 65*' 1 ',)*' ,1/*? *.' 8)*2' .*-=*2,.' 8*-*' ., // 81-.) ==*0' 6,' ()*D*.% ?125',)*' 0 >;/, *.' 6,,*20 25',) .' 6.' 6' =1-, 12' 1',)*' D119' 1 ' 62 */' B6)2' *2; ?*-6,*.',)*' 0*21? ^ 26, 25' 62 */6' =- *.,' ML + ' X' 8) >)')*>12>* +*.',1' D*' 6' >12 1;20 25' 1 ' 62 */ ,)*' =-1=)*,' 8 ,)' 62 */ ,)*' =- *.,' M [-6' + ' K' *)%' L ' X' ,)*' 1-0*-' 1',)*' 9 25',1' 0*.,-1',)*' 01/ 1 ' */' 620',)*' 6..*-, 12',)6,' .*-=*2,.' 8*-*' 81-.) ==*0' 6,' 6D /12' D;.')*>12>* +*.' 6//',)*.*' 0 >;/, *.' ,1' D*' -*?1+*0' D ' -*56-0 25',)*' 8)1/*' 6.' 6' =6-6D/*' =1 2, 25' 1;',)*' +62 , ' 1 ' 01/.' 620',)*' ?=1.,;-*.' 1',)*' =- *.,.%' & *' 6-*' 2 1-?*0' D ' : *-101,;.',)6,',)*',*?=/*' 1 ' */ 86.' 0*.,-1 *0' D ' d*-L*.%' -1,*.,62,.' 1 ' >1;-.*',)*.*' 6=1/15 *.' 1-',)*' >6212 > , ' 1 ',) .' 620',)*' 1,)*-' 6=1>- =)6/ 60^ 0 , 12.',1' 62 */ 6-*' -*56-0*0' 6.' 8)1// ' 2.; > *2,%' ** $ 4 ! % $ ' ' ' ! ' ( )*' D6. .' 1 ' ,) .' .,1- ' .' *+ 0*2,/ ' 0*- +*0' -1?' 62%+ '620' [*9%' + 'N' 25*2 1;./ '*/6D1-6,*0' 620' *?D*// .) 0',1'* *>,' ,)*' 0*. -*0' *20%' ,' .' 21,' 2',)*' 26,;-*' 1',;>)' .6>-*0%' /*5*20.',1' .;D? ,',1',)*',-6? ?*/.' 1 ' 6>,' 1-',1' *2^ 0*6+1-',1' 6+1 0' 626>)-12 .?.%' ()6,' 62 */' 8)1' 86.' 0',)*',-D*' 1 'B;06) ' .)1;/0')*-*' D*' -*=-*.*2,*0' 6.' 6' =- *.,' 1',)*',-D*' 1 ' *+ 1',)6,')*' .)1;/0')*-*' D*' .6 0' ,1')6+*' 0*.,-1 *0',)*',*?=/*' 1 ' */;.' 8)>)' 86.'=;//*0' 0182' D ' d*-L*.' 620',)6,',)1' 6D /12 62.' .)1;/0' D* 0*.>- D*0' 6.' 81-*) ==*-.' 1 '/ + 25' 62 ?6/.' 8)>)',)* ' 2*+*-' 8*-*' 6-*',)*-*' _;,*' 2')6-?12 ' 8 ,)' ,)* >)6-6>,*-' 1',)*.*'/*5*20.%' ()*-' 1DA*>,' .' * *>,' 620' 21,' 6>,%' ()*' 4-**9' 1 '>;-' *0 , 12.' 1',)*' *=, ' .',)* /625;65*' 2' 8)>)',) .' 26, 126/ .,1- ')6.' D**2' 81-9*0' 1;' D ',)*' /*L620- 2,' *?D*// .)*-',1' *L6/,',)*' 410' 1' D-6)6?' D* 1-*',)1' 01/6,-1;.' 4-**9.%' 6- 1;.' 75?*2,.' 1',' 2' -6?6.62' 620' :*D-*8' 6-*' 5 +*2' 2' ,)*' < 0-6.)' >; " "' 5 ' !' SQX' B1. ==12' D*2C' 41- 12' M=%N CN ' *0%' -*,)6;=,X' 620' 2' */,[.>).' 81-9' ' # ' ' ' 8)>)' 8 // .)18',)1' 6D /12 62' 620' 6/*., 2 62' .)6=*' 1',)*.*'=1=;/6-',-6^ 0 , 12.%' ,,1' .%' ' **' 8 ! *.,2>, 12 .,.%' **' ' ! *,*-? 2 .?',)*' 5*2*-6/' 26?*' 1-' 6//',)1.*',)*^ 1-*.' 6>>1-0 25',1' 8)>)' ?62' 2') .'-*/ 5 12.' 620' ?1-^ 6/' 6>, 12' .' 6D.1/;,*/ ' 0*,*-? 2*0' D ' *L,*-26/' 1-' 2^ ,*-26/' ?1, +*.' 21,' D*/125 25',1') ? ' 620' 8)>)'*,)*-' 0*2 ') .' -**01?' 1-' *L=/6 2',' 6.' 6' ?*-*' .*?D/62>*' 2' 1==1. , 12',1' 0*,*-? 2 .?',)*' 81-0' 20*,*-? 2^ .?')6.' D**2';.*0' 1' 6' 8 //' 8)>)' .' 6D.1/;,*/ ';20*^ ,*-? 2*0' -1?' 81-.) 6D-160' D ;' 8)1// ' 0*,*-? 2*.' ,.*/ %' ;>)' 62' 6D.1/;,*' 20*,*-? 2 .?' >62' 12/ ' D*' =-*0 >6^ ,*0' 1',)*' 6D.1/;,*' D* 25' D.1/;,*' 0*,*-? 2 .?' 12' ,)*' 1,)*-')620' >62' 12/ ' D*' 6,,- D;,*0',1' 1DA*>,.' 8)1.*' 6>, + , ' .' 6/,15*,)*-' 0*=*20*2,' ;=12',)*' D*' 25' 620',)6,' ?^ =;/.*.' 6.' .',D*' >6.*' 8 ,)',)*' 1DA*>,.' 1 '26,;-*' =^ =/ 25',)*',*-?',1' ?62 '*+*- 'D-62>)'1 ',)*')- ., 62') ;->)')1)0.',1' .1?*' 9 20' 1 '0*,*-? 2 .?' 26.?;>)' 6.')*' .' 0*=*20*2,' ;=12',)*' 6D.1/;,*' D* 25' 620',)6,') .%6>, 12.' 6-*' 2 /;*2>*0' D ' ?=;/.*.' 21,') .' 182

?12,) ' 12' 8) >)' ,' 1>>;-.' 6 ? 125' ,) *' =.6/ ? .' 1-' ,) *' O6 % ' : 119 ' " '" ' 1' .% +%

NN*; . 2g T ' % .12' 1 ' 2,) 12 ' /GX*; . 25 ' 6' 0 .^ , 25; .) *0' =) . > 62 ' ?6,) * ?6, > 62 ' 620' 81 *..1-' 86.' D1-2' 2' 4-12 25*2 ' <6-%>)' S % : *' 86.' D-*0' ,1' ,) *' =-1 *.. 12' 1 ' /68 ' D ; , ' ,69 25' 6' 0 ./ 9*' ' ') *' -*/ 2_ ; .) *0' , ' 620' 0*+1,*0') ? .*/ ' *L>/; . +*) J,1' ,) *^ 1/15 >6/ ' .; 0 *.% 2' SR ') 1' = ; D/ .) *0') . ' # ' N ' 7 ' - * ' !' !' !' ' ,) . ' 81-9') *' ?60*') ? .*/ ' 92182' 6.' 6' , = >6/' 620' ? .,>6/' ,) *1/15 62% ()*' , = >6/' 2,*-=-*, 6, 12' 1 ' ,) *' >- =, ; -*.' 86.' =; .) *0' ,1' ,.' *L,-* ?*' / ? ,.% ()*' 01>,- 2*' 1 ' ,) *' (- 2 ' , ' 86.' 6//*51- >6// ' *L=/6 2*0% ()*' -*. ; /,' 86. ' ,) 6,' / *' 86.' 6>>; . *0' 1 ') *-*.A! ' 620' 0*D6--*0' -1?' ,) *' 1-0 .' ;=^ =*-% : *' 8-1, *' , 81' 81-9.' 2') .' 182' 0* *2>*' 12*' 2' ; , >) ' 620' ,) *' 1,) *-' 2' 6, 2% 2' ' 6==*6-*0') .' $ ' Y ' ' " " ' ' % ' ' " ' " ' * ' D ' ' % ' '6% ' ' ' / ' !' 2' K') *' 56+*' , 1' ,) *' 81-/0') .' ' ' A% 1' 2' 8) >) ') *' ;// ' 0*+*/1=*0') .' 7/*51- >6/ + *8 .' 1 ' ,) .' 01>,- 2*% : *' 6/.1' >12,- D ; , *0' .*+*-6/ >L*5*, >6/' 6-^ , >/*.' , 1' ,) *' ; " ' ; !' : *' 5-60 ; 6// ' .-*^ >*0*0' -1?') .' *L,-*?*' + *8.% ()*' 4-12 25*2' 12^ . ,1- ' -*=*6/*0' ,) *' .*2,*2>*' 1 ' .; .=*2. 12' ,) 6, ' ,) * ') 60' =6..*0' 656 2.,') ? ' : *' 218' >122*>, *0') ?.*/ ' 8 ,) ' ,) *' &6//112') ; ->)% : *' 86.'=*-? ,,*0' , 1' .=*20' ,) *' -*?6 20*-' 1 ') .' 06 .' 2' =*6>*' 620') *' 0 *0' B62 ; ^ 6- ' N KK ' 2' ,) *' > , ' 1 ') .' D ,) %

*; , *-1C 6212 >6/' ' ' ' < ' 0 ? (N d(' 6' , *-?' 6=*=/ *0' 2' ?10*-2' , ?*.' , 1' 0*21,*' ,) 1.*' .6>-*0' D119.' 8) >) ' 1- 5 26// ' 0*21? 26, *0' >>C 6' >6,6/15 ; *% ()*-*' .' 21' 6>>1 ; 2, ' 1 ' ,) *' ?6, ,*-' 2' 62 ' 1 ' , ..' 6>, .' 8) >)') 6+*' .*>6>) *-*' ;.% ()*-*' .' 2^ 0**0' 6' >6,6/15 ; *' 6.' .' 1D.*-+*0' D ' <-%B12*. ' 6 , ,- D^ ; , *0' D ' 6==; . ' 2') .' $ ' ,1' ,) .' >1 ; 2> / ' 8 ,) ' ,) .'-*/6, 12% ' ( ) 6', ,) *' D .) 1=.' ,) *-*' 6..*?D/*0' 8*-*' D ' 6' +*- ' *L,-61-0 26- ' ? -6>/*' >12+ 2>*0' 8) >) ' 8*-*' 2.= -*0' 620' 8) >)' 8*-*' 6=1>- =) 6/' D119.' 6 ^ , *-' ,) .' ?622*-% : 6+ 25' = ; ' 6//' ,) *' D119.' ,) 6, ' /6 0' >/6 ?' , 1' ' 2.= -6, 12' ; 20*-' T/*' >1? ? ; 2 12C, ; D/1' M-=' g 4' - -+1 8' 2' 6' >) ; ->) ' ,) *' = 6 *0' , 1' 410' ,) 6, ' ,) 1.*' 8) >)' 8*-*' 1 '0 + 2*' 2.= -6, 12' ? 5), ' D*' 1 ; 20' 6D1+*' 1-' ; =12' ,) *' , 6D/*' 620' ,) 1.*' 8) >)' 8*-*' 6=1>C -A =) 6/' ? 5), ' D*' 1 ; 20' ; 20*-' T 620' 6>>1-0 25GX ' 6.' ,) *' =-6 *0' , ' >6?*' , 1' =6..%J' () .' .' ; 2 +*-.6// ' 6>9218/*05*0' , 1' D*' 6' 6D/*' 620' >6-0 26/' *//6-? 2*' I ' ' N ' ' 8' 60? , .' ,) 6, ' 7/*-*' >1 ; /0') 6+*' D***2' 21' >6212' 0*, *-? 2*0' 12' D ' ,) *' >* *' 1 ; 2> / ' 6.' 2' ,) 6, ' >6.*' 212*' 81 ; /0' , +*' +*2, ; -*0' , 1' -*A*>, ' , T D ; , ') *' .; ==1.*.' ,) 6, ' B*-1?*' ?6 ') 6+*' 1 ; 20' 2' .1?*' 1 ' , .' 6>, . ' 218' /1., ' .1?*' > , 6, 12' -1?' ,) *' /119' 1 ' B ; 0 ,) % *//6-? 2*' ; -,) *-' 60? , .' ,) 6, ' 2' B*-1?*.' , ?*' ,) *' *>>/*. 6., >6/' D119. ' 6/,) 1 ; 5) ' -160' 2' ,) *' >) ; ->) *. ' 8*-*' 2*,) *-' 2' ,) *' D ' ' ' ' 9 ' 26. ? ; >) ' 6. ' 21' 5*2*-6/ >1 ; 2> /) 60' *, ' 0*, *-? 2*00 62 ,) 25' >12>*-2 25' ,) *?%

3 ; / 2 ; . ' ?60*' ,) *' .6?*0 ., 2>, 12' 8 ,) *56-0' , 1' ,) *' D119.' 1 ' >- =, ; -*' ,) 6, ' B*-1?*' 0 0% ,*-' *2; ?*-6^ , 25' ,) *' D119.' 1 ,) *' /0' 620' *8' (*.,6?*2, . ' *L6>, / ' 6>>1-0 25' , 1' ,) *' B*8 .) ' 6212' .6 25' ' ()*.*' 6-*' a) S' +1/; ?*.' 8) >)' ,) *' 6,) *-.') 6+*' 2>/ ; 0*0' 2' ,) *' 6212' 620' 1 ; ,' 1 ' 8) >)' ,) *' ! 81 ; /0') 6+*' ; ' =-1+*' ,) *' 01>^ , - 2*.' 1 ' 1 ' ; -' 6 ,) J') *' 600.') 18*+*-' , ' 1 ; 5) , ' , 1' D1' 1D.*-+*0' ,) 6, ' ,) *-*' 6-*' 6/.1' 1,) *-' D119.' 8) >)' 6-*' 21, ' D ; , ') 6+*' D**2' >6//*0' D ' 1 ; -' 1-* 6,) *-.' =% 1 ' 6.' ,) *' & .01?' 1 ' 1/1?12' 620' 621,) *-' >6//*01' ,) *' & .01?' 1 ' ,) *' 12' 1 ' -6>) ' 8) >)' 6?125' ,) *' 6, 2.' .' >6//*0' D ' ,) *' 5*2*-6/ 26?*' _ ' >>/*. 6.^ , >; . ' D ' 8) >)' , ./*' .' 0*21, *0' 21, ' ,) *' 6 ; ,) 1-' 1 ' ,) *' D119' D ; ' ,) *' ; 6/ , ' 1 ' ,) *' 8-, 25% ' ,) *' .6?*' 1-^ 0*-' .' ,) *' D119' 1 ' (1D , ' B ; 0 ,) ' 620' ,) *' D119.' 1 ' ,) *' <6>>6D**.% 2' ,) *' *8' (*., 6?*2, ' .' ,) *' D119' 1 ') 1') *=) *-0' !1' : *-?6. ' 8) >)' .' >6//*0' ` (81' & 6 . ' 1-' ,) *' B ; 05?*2, ' 1 ' *, *-T ' 6// 8) >)' ,) * ' 81 ; /0') 6+*' ,1' D*' , + -' ' ,) *' >) ; ->) *. ' D ; , ' 21, ' 6//*5*0' D ' 86 ' 1

) *' 1D.*-+*.a' ()*.*' ,) -*** ' D119.' M -1+*-D. ' >>/*. ^ 6. , *. ' 620' 62, >/*.X 12/ ' 6-*' 1/1?12 .% ()*-*' .' 6/.1' ,) *' ; +' 'D ' " ' ' '$ "' 620' 621,) *-' =.7 ; 0C*= 5-6=D6/' D119' >6//*0' ,) *' ' '$:' ,) *' 1-?*-' 1 ' 8) >)' ') 6+*' .**2' 2' : *D-*8 ' >6//*0' 21, ' >>/*. 6., >; . ' 6.' 6?125' ,) *' 6, 2. ' D ; , ' ,) *' 6-6D/*. T 8 ,) ' 8) >)' / 9*8 .*') 6+*' D**2' A1 2*0' >>/*. 6., *. ' 620' ,) *' 125' 1 ' 125. ' ,) 6, ' , *' >1//*>, 12' ? 5), ' ,) *' D*, , *-' -*.*?D/*' ,) *' D119.' 1 ' 1/1?12' D1,) ' 2' ?6, , *-' 620' 0*^ . 52% ()*' .*>120' .' 21, ' , 1' D*' 1 ; 20' 6, ' 6// 6?125' ,) *' : *D-*8 . ' 620' ,) *' ., /*' =/6 2/ ' *+ 2>*.' , ,' 4-*9' 1-5^ 26/ a .1?*62> *2, ' 8-, *-.' .6 ' , ' .' 6' 81-9' 1 ') /1' ,) *' B*8% .' ,) *-* 1-*' ,) *') ; ->) ' -*60.' B ; 0 ,) ' 620' (17 D , ' 620' ,) *' D119.' 1 ' <6>>6D**.' D ; , ' 01*.' 21, ' -*>* +*' ,) *?' 6?125' ,) *' 6212 >6/' >-=, ; -*.' .1' / 9*8 .*' ?6 ' -*60',) *.*', 81' D119.' 1-',) *' *0) *6, 12' 1 ',) *' =*1^ =/*' D ; , ' 21, ' 6.' 1 ' 6 ; ,) 1-, ' 1-' =-1+ 25' 62 ' 01>,- 2*.' 1 ' -*/ 5 12' I ' 1 ' % ' H ' ' ' (' 1 ' 8!P ' 6^ -; >) ') *' .6 .' ,) 6, ') *' 01*.' '21, ' , -62./6, *' , ' D*>6; . *' , ' 86.' 21, ' 2' : *D-*8 ' 21-' -*>* +*0' D ' ,) *' B*8 .%J' : *' 2*+*-' , -62./6, *0' & .01?' >>7. 6., >; . ' 1-' * ,) *-' 1 ' ,) *' D119.' 1 ' <6>>6D**., ' 620' 1D.*-+*.' ,) 6, ' .; >) ' D119.' 6.' 6-*' 21, ' 1 ' ,) *' , 8*2, C 1; -' /*, , *-.' 6-*' , 1' D*' ; , .*-/ ' -*A*>, *0J' I % !' '6/ 8!' 2') R -Z76>*' ' D "') *' .6 .' 2' / 9*' ?622*-' ?125' ,) *' : *D-*8 .' ,) .' D=19' .' -*60' 6?125' ,) *' " %" ' M1-' 6>>1-0^ 25', 1' .1?*' ?62; .>- =, . ' % %+ 8' 8) 1.*' 6; ,) 1- , ' .' 21, ' A; 05*0' .; > *2, ' , 1' . ; ==1-; ' 0 .=:, *0' ?6, , *-.%J' : *' 600.' 6, ' ,) *' .6?*' , ?*' ,) 6, ' ,) *' 1; 2> / ' 1 ' >1' .' .6 0' , 1') 6+*' 2>/ ; 0*0' , ' 2' ,) *' >6, 6/15 ; *' 1' ,) *') 1/ ' >- =, ; -*.%J' *') 6+*') 18*+*-' 21' 6 ; ,) 1- , ' 1-' . ; ==1. 25' ,) 6, ' ,) *' 1; 2> / ' 1 ' >*' *+*-' 122*0' . ; >)'

: *' 620' % %" 1' 8*-*' 21, ' 2' ,) *' B*8 .) ' 1-' : *D-*8' 6212' D ; , ' 6.' D* 25' >12, 6 2*0' 2' ,) *' 1/0' 4-**9' +*-. 12. ' 8*-*' = ; D/ >/ ' -*60' 2' ,) *' *6-/ ') - .^ , 62') ; ->) % I' **' / ' ! ' 1-' ,) *' . ; . =*>, *0' D119.' 1 ' ,) *' 7 ' - ' .**' ! % ' , ' .' 6>9218/*05*0' D ' 6//' ,) 6, ' ,) *.*' D119.' ?*+*-') 60' 6' =/6>*' 2' ,) *' B*8 .) ' 6212% ()*' 1?62' 6,) ^ 1/ >' =-1 *..1-' /D*-' 1 ' *.,) ' M8) 1' >12. 0*-.' ,) *?' 6.' 1 '*_ ; 6/' 6 ; ,) 1- , ' 8 ,) ' ,) *' -*>* +*0' D119.' 1 ' ,) *' : *^ D-*8' 6212X' 1D.*-+*.a' ()*' *; , *-1C>6212 >6/' D119.' 6-*' ,) 1.*' 8) >)' ,) *' B*8 .') 60' 21, ' 2' ,) *' -' 62^ 12' D ; , ' 6-*' 21, 8 ,) . , 620 25' -*>* +*0' D ' ,) *') - .^ , 62') ; ->) ' >12>*-2 25' 8) >) ' 12' ,) .' +*-' 6>>1 ; 2, ' 1 ' ,) *-' 21, ') 6+ 25' D**2' 2' ,) *' B*8 .) ' 6212' ,) *-*') 6.' *L .,*0' .1?*' 01 ; D, ' +*2' 2' ,) *') ; ->) J' I1- ! D ' +1/% ' >) % + ' LX ' B1.*=) ; . ' 6' >12, *?^ =1-6- ' 1 ' ,) *' 6=1. , /*. ' 6 , *-' 0*.>- D 25' ,) *' B*8 .) ' 6212' I1&% ' ' QX ' 8) >) ' ,) *' .6EI. ' >12. .,. ' 1 ' , 8*2, C ,81' D119. ' -*?6-9. T ; ' -1?' ,) *' -* 52' 1 ' -,6C L*-L*.' , 1' 8 ,) 2' 1 ; -' ?*?1-' ,) *-*') 6+*' D**2' .*+*-6/ ,) 25.' >1?? ,,*0' , 1' 8-, 25' 8) >) ') 18*+*-' ' ' ' 4 ' ' " ' ' ' ' ' ' " ' 6.' ,) *' 1-?*-' D119.' 26.A2 ; >)' 6.' ,) *', -60 , 12' 620' . ; >>*.. 12' 1 ' ,) *' =-1=) *, .' 8*-*' /*..' >*-, 6 2%J' , ') 6.' D**2' .) 182' D ' : 1-2*?622' I , ' ' ' ! ' ' !' N! -!' ' " 8' ,) 6, ' 6/,) 1 ; 5) ') /1' 86.' 6>_ ; 6 2, *0' 8 ,) ' ,) *' D119.' 2' _ ; *., 12 ') 1') 6.' 21, ' > , *0' 62 ' 1 ' ,) *?' 6, ' /*6., ' 8 ,) ' ,) *' + *8' 1 ' *., 6D/ .) 25' 62 ' =-1=^ 1. , 12%

K% ?125' ,) *' *6-/ ') -., 62' 8-, *-.' B*-1?*' 2') .' -* 6>*.' 5 +*' ; .' ,) *' ?1.,' >1?=/*,*' 2 1-?6, 12' ,) 6, ' 8*' =1. .*..' -*56-0 25' ,) *' 6 ; ,) 1- , E ' 1 ' ,) *.*' D119.' 2') .' , ?*% ,*-' *2; ?*-6, 25' ,) *' , 8*2, C, 81' D119.' 1 ' ,) *' *D-*8' 6212' >12. ., 25' 1 ' ,) *' 68' 1 ' ,) *' -1=) *, .' 620' ,) *' : 65 15-6=) 6') *' 600.' T ' ( ) .' =-1^ /15 ; *' 8-, *' 6.' 6' =-* 6>*', 1' ,) *' D119.' , 1' D*' , -62./6, *0' D ' ; .' -1?' ,) *' : *D-*8' 2, 1' 6, 2' ,) 6, ' 8*' ?6 ' 9218' ,) 6, ' 6//' ,) *' D119.' 8) >)' 6-*' 21, ' 1 ' ,) .' 2; ?D*-' 6-*' % %" .' ,) *-* 1-*' & .01?' 1 ' 8) >)' .' >1?? 12/ ' 6.>- D*0' , 1' 1/1?12' 6.' , .' 6 ; ,) 1- ' 620' ,) *' D119' 1 ' B*^ . ; .' ,) *' .12' 1 ' -6>) ' B ; 0 ,) ' (1D , ' 620' ,) *')*=) *-0' ' ' ' " ' !M' 56 2' 2' ,) *' =-* 6>*' , 1') ' ,-62./6, 12' 1 ' ,) *' D119.' 1 ' 1/1?12' -1?' ,) *' : *D-*8

6 ; ,) 1 - , ' 1 -' =-1+ 25' 6-, >/*.' 1 ' 6 ,)¶ ,) *-' >- =^ , ; -*. ' ,) * ' >6// % %" 1' 8) >)' ,) * ' 81 ; /0' 21, ') 6+*' ,1' D*' -*60' 2' >) ; ->) * . J' MV2' $ "!' &% (80

( ) *-*') 6+*' ,) ; . ' D**2' ,) -**' 0 + . 12. ' ?60*' D ' B D' 62> *2, . ' + [¶ ,) *' 6212 >6/' >- =, ; -*. ' ,) *' >>/*. 6. ^ , >6/ ' 620' ,) *' =1>-A7=)6/T 1 - ' 1,) *-8 . *' ,) *¶ 6212^ >6/ 620' ,) *' =1>-A7=D6/ ' 1 ' 8) >)' /6, , *-' ,) *-*' 6-*' , 81' 9 20. ¶ [¶ ,) 1. *' 8) >) ') 6+ 25' 21,) 25' >12, -6- ' , 1' ,) *' 6 ,) ' ? 6 'D*' =-1 , 6D/ '-*60' 6/,) 1 ; 5) ' 21, ' 6 ; ,) *2^ , > ' 620' ,) 1. *' 8) >)' 6-*' 2A; - 1 ; . ' 620' >12, -6- ' , 1' ,) *' 6 ,) ¶ , \ . ') 18*+*-' ? 6 2, 6 2*0' D ' =-1 *. . 1 -' /D*-' ,) 6, ' 8) *2' B*-1 ? *' 620' ;) 2 ; . ' .0 0' ,) *' *>>/*. 6. , >6/ D119. ' 8*-*' -*60' 1-' *0 >6, 12 ' D ; . ' 21, ' 1-' >12 -? 25' 6-, >/*. ' 1 ' 6 ,) ' ,) * ' 12/ ' ? *62, ' ,) 6, ' ,) * ' 8*-*' 21, ' ,1' D1' *?=/1 *0' 2' >12, -1+*-. *.' 8 ,) ' ,) *' B*8 . ' 8) 1' 0 0' 21, ' 6>9218/*05*' ,) * -' 6 ; ,) 1- , A¶ ( ) *. *' 6,) *-. ') 18*+*-' >*-, 6 2/ ' = ; , ' ,) *?' 2, 1' ,) *' .6 ?*' -629' 8 ,) ' ,) *') *=) *-0' 1 ' : *-?6. ¶

( ) *' *6-/ *. , ' >6, 6/15 ; *' 8) >)' 8*' =1. . *. . ' 1 ' ,) *' D119. ' 1 ' >- =, ; -*' .' ,) 6, ' 1 ' < */ , 1 ' D .) 1=' 1 ' 6-0 . ' =-*^ .*-+*0' D ' ; . *D ; . ¶ -1 ?') . ' . , 6, *?*2, ' 8 - , , *2' 2' ,) *' *6-'N ' , ' . **? . ' 7+ 0*2, ' ,) 6, ' ,) *-*') 60' ,) *2' D**2' 21' >6, 6/15 ; *' 6 ; ,) 1- [*0' D ' ,) *') ; ->) ' 1-' 62 ' =; D/ >' D10 ¶ : *' * 2 ; ?*-6, *. ' ,) *' D119. ' 1 ' ,) *' B*8 .) ' 6212' 12/ ' -1?' 8) >) ') 1+-*+*-') *' 1? , . ' ,) *' D119' 1 ' .^ ,) *-' M_¶ %X¶

(/ *' -. , ' >6, 6/15 ; *' 1 ' ,) *' : 1/ ' >- =, ; -*. ' ' %' ' '% ' ' " ' " " " ' 8) >)') 6. ' >1?*' 0182' , 1' ; . ' .' ,) 6, ' 1 ' ,) *' 122> / 1 ' 610 C >*0I' 2') - 5 6 ' . ; ==1. *0' , 1' D*') */0' 6D1 ; ' ,) *' *6-' QS ¶ 2' ,) *' /6. , ' , 81' >6212. ' 1 ' ,) . ' >=; 2> / ' 6. ' 8*' 218') 6+*' ,) * ? ' ,) *-*' .' 62' *2 ; ? *-6, 12' 1 ' ,) *' D119. ' 1 ' >- =, ; -*' 2*6-/ '>12 1-?6D/*' 2',) *' /0' (*. , 6 ? *2, ' , 1' ,) *' B*8 .) ' 6212¶ ( ) *' >6212. ' 6-*' 2',) *. *' 81-0. a

( ) 6, '=- +6, *' A76/?. ' 1 ; 5) , ' 21, ' , 1' D*' . 6 0' 2',) *' >) : ->) ' 21-' 62 ' D119. ' 21, ' >6212 > ; / ' D ; . ' 12/ ' ,) *' > ? 12 >6/ D129. ' 1 ' ,) *' /0' 620' *8' (*. , 6 ? *2, ' ( ) *' A119. ' 1 ' ,) *' /0' (*. , 6^ ? *2, ' 8) >)' 1 ; 5) , ' , 1' D*' -*60' 6-*' ,) *2*¶ ¶ 4 *2*. . T K¶ L^ 10 ; . T N¶ %1+$G>; . T ¶ ; ? D*-. T ¶ *. , *-121 ? T S¶ B1.) ; 6 ' .12' 1 ' ; 2T ¶ B ; 05*. ' 8 ,) ' ; .)) T Q¶ . ,) *-T L!' ' 620' K 2501 ? . T B ¶ N' 620' 2501 ? . T ¶ ' 620' K *? 6 2. T K¶ ' 620' K .0-6. T N¶ ,) *' D119' 1 ' . 6 / ? . T ¶ -1+*-D. T ¶ >>/*. 6. , *. T S¶ 62, >/*. T ¶ B1D T ¶ ,) *' (8*/+*' 1=) *. . T ¶ . 6 6) T K ¶ [*9 */T KK¶ 62 *$J

( ) . ' >6, 6/15 ; *-. ' 21, ') 18*+*-' ; 2 +*-. 6// '6>9218/^ *05*0' , 1' D1' 5*2 ; 2*¶ 1 .. D/ ' /*6-2*0' ?*2 J' .6 . ' 6-02>-' 6>>1-0 25' , 1' ,) *' 0 *-*2, ' 21, 12. ' 1 ' ,) *' =6-, ' ,) *') 6+*' D**2' *2565*0' 2') 6+*' D**2' /*0' , 1' 0 . ^ -*56-0' ,) *' /6. , ' >6212T . 1 ?*' D*>6 ; . *' 1 ' , . ' 1 ? , , 25' ,) *' 6=1>- =) 6/D119. ' 1 'WD*' /0' (*. , 6 ? *2, ' 620 '1,) *-. ' D*>6 ; . *' , ') 6. ' 21, ' ,) *' D119' 1 ' *+*/6, 12¾J 6.265*' 2') . ' # ' ' " ' D. *-+*. ' ,) 6, ' -1, *. ^ , 62, . ' 620' 6,) 1/ >. ') 6+*' *_ ; 6//E7 0 . =6-65*0' ,) . ' . 2^ 10¾J' ' , ' . ' . 6 0 J' -*? 6-9. ' 6-02*-' ,) 6, ' ,) *' >62^ 12. ' 1 ' ,) . ' >1 ; 2> / 8*-*' -*>*+*0' 620' 601=, *0' D ' . 1 ?*' 4*2*-6/ 1 ; 2> /. ' 2' 6 , *-', ?*. T 2*+*-,) *'*. . ' =*-) 6=. ' , ' 81 ; /0' D*' 0 >; /, ' , 1' .) 18' ,) 6, ' ,) 1. *' 4*2*-7' 1 ; 2^ > /. ' -*>*+*0' ,) *' /6. , ' >6212' 620' *L6>, / ' 6==-1+*0' ,) *' >6, 6/15 ; *' 1 ' . 6 0' D119. ' ,) *-* 2' >12, 6 2*0' 8 ,) 1 ; ' 62 ' 600 , 12' 1-' 0 ? 2 ; , 12 '6. ' 8*' 218') 6+*' , J M. *' < 62. ' 1' X¶

; , ' D*. 0*. ' ,) *' : *D-*8' >6212 ' ,) *' -*60*-' 8 //) 6+*' 1D. *-+*0' ,) 6, ' ,) *-*' 8*-*' >*-, 6 2' 1,) *-' D119. ' = ; D/ >/ ' -*60' 2' ,) *' =- ? , +*') ; ->) ' 620' , -*6, *0' 8 ,) ' 6') 5) ' 0*5-*' 1 ' -*. =*>, ' 6/,) 1 ; 5) ' 21, ' >12. 0*-*0' D ' ,) *' : *^ D-*8 . ' -1?' 8) 1?' ,) *' 8*-*' 0*- +*0' M. *' ,) *' =6. . 65*' 6D1+*' > , *0' -1?' B1. *=) ; . X ' 6. ' 1 ' *_ ; 6/ 6 ; ,) 1- , ' 8 ,) ' ,) *' 1-?*-¶ ( ) *. *' D119. ' . **?' , 1') 6+*' D**2' 2>/ ; 0*0' ' 2' ,) *' >1= *. ' 1 ' ,) *' *=, ; 65 2, ' 8) >)' 86. ' 5*2*-6// ' ?60*' ; . *' 1 ' D ' ,) 1' . 6>-*0' 8 - , *-. ' 1 ' ,) *' *8' (*. , 6^ ? *2, ¶ , ' 01*. ' 21, ' 6==*6-' 8) *,) *-' ,) *' 6=1. , /*. ' 56+*' 62 ' >6 ; , 12. ' 656 2. , ' ,) *' -*60 25' 1 ' ,) *. *' D119. ' 620' , ') 6. ' *+*2' D**2¶ 7. ; ==1. *0' ,) 6, ' ,) * ') 6+*' -* *--*0' , 1' ,) *? ¶ ,) *-. T) 18*+*-') 6+*' ?6 2, 6 2*0' ,) 6, ' ,) *' =- 2> =6/ =6. . 65*. ' , 1' 8) >)' ,) * ') 6+*' -* *--*0' M 1-' . ' 21, ' =-*, *20*0' ,) 6, ' ,) * ') 6+*' > , *0' ,) *? X 6-*' -1?' ,) *' >6212 >6/ D119. ¶ ( ) *' 1//18 25' 6-*' ,) *' =6. . 65*. ') *-*' 6// ; 0*0' , 1T

1?¶ L ' K ' >1-6=¶ 8 ,) ' & . 01?' L ' Q' . **' . 6¶ L/ ' N¶ : *D¶ ' N' ` ` + ' K S¶ ' L ' ' ' + ' ' . **' 4*2¶ + ' K ¶ 1?¶ L ' C ' + ' Q ' . **' -1+¶ + ' ' 0

' + ' ' . **' *; >¶ L ' ¶

' *, ¶ ' K ' X' >>/; . ¶ L + ' ' . **' . 6¶ L/ ' ¶ B6?*. ' ' N ' V ' 1-¶ d ' ' B; 0 ,) ' + ' K ' M 6, ¶X ; ?¶ L + ' ¶ B6?*. ' ' KK¶ ; 9*' d ' (1D , ' + ' ¶ ' ( ) *. . ¶ + ' N ' + ' ¶ < 6, , ' - ' K `^ + ' ¶ ' 1-¶ d ' K ' 6+ >)' + ' ¶ B1) 2' d ' KK ' ' < 6>>¶ + ' G¶ : *D¶ L ' N ' K ' < 6>>¶ + ' ' . **' >>/; . ¶ L + ' ¶ < 6, , ' L ' N -6 *-' 1 ' < 626. . *. ¶ K ' 1-¶ L ' N' .0-6. ' K¶

1?*' 1 ' ,) *' ; 2>6212 >6/' D119. ') 18*+*-') 60' 21, ' D**2' *L, 62, ' ?1-*' ,) 62' 6') ; 20-*0' 620' ,) -, ' 76-. ' 6, ' ?1. , ' 6, ' ,) *') - . , 62' *-6' 620' >1 ; /0' 12/ ') 6+*' 1D^ , 6 2*0' 6' =/6>*' 2' ,) *' 4-**9' >- =, ; -*. ' 6' .) 1-, ' , ?*' D* 1-*' ,) . ' =*- 10T D ; , ' ,) *' 12/ ' >1= *. ' 1 ' ,) *' >- =^ , ; -*. ' 2' *L . , *2>*' 1-' , / ' -. , ' ,) -**') ; 20-*0' *6-. ' 6 ^ , *-') - . , ' * ,) *-' 6? 125' ,) *' B*8 . ' 1-') - . , 62. ' 1 ' 4-**>*' , 6/ ' 1-' - >6' >12, 6 2*0' ,) *. *' D119. ' 8 ,) 1 ; , ' 62 ' ?6-9' 1 ' 0 . , 2>, 12' ,) 6, ' 8*9218' 1 ¶ ( ) *' : *^ D-*8' D/*' 620' /625 ; 65*' 8*-*' _ ; , *' ; 2921+?' , 1' ,) *?' 0 ; - 25' ,) . ' =*- 10' 620' ,) *' ?1. , ' /*6-2*0' 8*-*' =-1D6^ D/ ' D ; , ' // 2 1-?*0' 12' ,) *' . ; DA*>, ' 6, ' /*6. , ' D* 1-*' B*^ -1?*. ' , -62. /6, 1 / ' 1 ' ,) *' >- =, ; -*. ' -1?' ,) *' 1- 5 26/ ' : *D-*8¶ ( ) *' 6, 2' +*-. 12. ' D* 1-*') . ' , ?*' 8*-*' 6// ?60*' -1?' ,) *' =, ; 65 2, ¶ & *' 01' 21, ' 20**0' 20' 62 ' >6, 6/15 ; *' 1 ' ,) *. *' 8 - , 25. ' D* 1-*' ,) 1' 1 ; 2> / 1 ' : ==1I ' D ; , ' 12/ ' 20 + 0 ; 6/' -1, >*. ' 1 ' . *=6-6, *' D119H¶ ( ) ; . ' /*?*2, ' 1 ' /*L620- 6' I$ 2 1' ¶ ¶ K X ' > , *. ' ,) *' & .01?' 1 ' 1/1?12' 620' >>/*. 6. , > ; . ' 620' - 5*2' -*. *-. ' , 1' . *+*-6/ 1 ' ,) *. *' D119. ' , -*6, 25' ,) *?' 8 ,) ' 6') 5) ' 0*5-*' 1 ' +*2*-6, 12¶ ( ) *-*' . J' .6A . ' ; . *D ; . ' '62' *= . , /*' 1 ' - >62 ; . ' 600-*. . *0' , 1' - ^ 5*2' 2' 8) >)') *' 2, ?6, *. ') . ' 01 ; D, 12' ,) *') . , 1- ' 1 ' . 6226) 2' 62 */' 6. ' , 8*-*' 6' . =; - 1 ; . ' 620' >, ^ , 1 ; . ' >1?=1. , 1?T , 1' +) >)' - 57' 8-1, *' 6' +*- ' ; // 62. 8*-¾J' ( ) *. *' *= . , /*. ' 6-*' D1,) *L, 62, ¶ - 5*2 ' 6, ' 5-*6, ' /*25,) ' +20 >6, *. ' ,) *. *' 6=1. , 1' ,) *' 4-**9' +*-^ . 12 ' 1-') *' 6>9218/*05*. ' ,) 6, ' ,) * ' 8*-*' 21, ' 2' ,) *' : *D-*8 ' -1?' ,) *' 1DA*>, 12. ' 1 ' - >62 ; . ' 6. . *-, 25' ,) 6, ' ,) * ' 8*-*' , -; *' 620' 5*2 ; 2*' 620' ?60*' ; . *' 1 ' 2' 4-**9' 6?125' 6// ' ,) *' >) ; ->) *. ' 1 ' ,) *' 4*2, /*. ' 620' ,) 6, ' 8*' .) 1 ; /0' 21, ' 6, , *20' , 1' ,) *' -6 ; 0 ; /*2, ' >1?*2, . ' 1 ' ,) *' B*8 . ' D ; , ' , 69*' ,) 6, ' 12/ ' 1-' , -; *' 2' ,) *') 1/ ' >- =, ; -*. ' 8) >)' ,) *' . *+*2, ') 60' , -62 . /6, *0' 1-' ,) 6, ' ,) . ' 12/ ' +6, ' >12 -?*0' 6' >6=1. , 1/ ' >' 6 ; ,) 1- , ¶ 2' ,) *' . 6?*' /*, , *-') *' > , *. ' ,) *' D119' 1 ' (1D , ' 620' 2' D . ' W*>120' D119' ' ' %# 1') *' *+*2' . =*69. ' 1 ' ,) *') *=^) *-0' 1 ' : *226. ' 6. ' 0 + 2*/ ' , . = -*0¶ - 5*2 ') 18^ *+*-' ; . *. ' +*- ' 0 *-*2, ' 625 ; 65*' 2' -*56-0' , 1' ,) *' D119' 1 ' 21>) ' ,) *' (*. , 6 ? *2, ' 1 ' ,) *' (8*/+*' 6, - ^ 6->) . ' 620' ,) *' . . ; ?=, 12' 1 ' <1. *. ¶

( ) *' /1>6/' 1 ; 2> / 1 ' : ==1') *0' 2' ,) *' *6-' 1 ') - . , ' NRN' 6, ' 8) >)' ; 5 ; . , 2*' 6 , *-+ 6-0. ' D .) 1=' 1 ' : ==1 ' 86. ' =-*. *2, ' 1-?*0' 6' >6, 6/15 ; *' 1 ' ,) *' .6>-*0' D119. ' 1 ' ,) *' /0' 620' *8' (*. , 6 ? *2, ' 2' 8) >)' ,) *' " ' +*-*' 6// 2>/ ; 0*0¶ ( ) *' 6-*' 2^ .*-, *0' 2' ,) *' 1//18 25' 1-0*-' 2' , . ' NS,) ' 6212' $-!' M

( ) 6, ' 21,) 25' D*' -*60' 2',) *' >) ; ->) ' D*. 0*. ' ,) *' 6212^ >6/ >- =, ; -*. ¶ $20*. ' ,) *' 22?*' 1 ' 6212 >6/ >- =, ; -*. ' 6-*' -*>912*0' 4*2*. . ' L10 ; . ' *+, >; . ' ?D*-. ' *+121? B1.) ; 6 ' B ; 05*. ' ; ,) ' 'D119. ' 1 ' 25. ' *?6 2. ' 81D' . 6/?. ' 1 ' 6+0' D119. ' 1 ' 1/1?12' KD119. ' 1 ' ,) *' -1=) *. . ' . 6 6) ' B*-*? 6) ' 62 */' [*9 */' (1D , ' B ; 0 ,) ' //*.) *') *-' . 0-6, ' K D119. ' < 6>>6D*. ' K D119. ¶ ' \ 1-' .) *' D119. ' 1 ' ,) *' *8' (*. ^ , 6 ? *2, ' -*' 6 !-' ' ' . ' 1-' .) *' >12 -?6, 12' 1 ') . ' >6212' ,) *' >) ; ->) *. ' D* 120' ,) *' . *6, 6-*' , 1' D*' >12. ' ; /. *0¶ J' ( ) *' 6. . 12. ' D ' ,) *' < 6-, -. ' 8*-*' 6/. 1' =*-? . , *0' , 1' D*' -*60' 12' ,) *-' 622 +*-. 6-*. ¶

( ) *' ,) -0' 1 ; 2> / 1 ' 6-,) 65*' 5*2*-6// ' D*/ *+*0' , 1') 6+*' D**2') */0' 2' NR ' 6, ' 8) >)' ; -*/ ; . ' D .) 1=' 1 ' 6-,) 65*' =-*. 0*0' 620' 6, ' +) >) ; 5 ; . , 2*' 86. ' =-*. ^ *2, ' >12. , 25' 2' 6// 1 ' 1-, C 1 ; -' D .) 1=. ' 601=, *0' ,) *' .6?*' >6, 6/15 ; *' 8) >)' 86. ' >12 -?*0' 6, ' ,) 1' 1 ; -,)

1;2> /'1 ' 6-,)65*')*/0' 2',)*' *6-' R (')*-* *-^ *2>*' .6 0',1')6+*' D**2' ?60*' -1?',)*' " ' 1;2> /'1 ' 6-,)65*')*/0' 2' NRUX,1' =1=*' 12 6>*' .' 6' ?62 *.,' 626>)-12 .?' 2',)*' >1= *,' 1 ',)*' 6>,.' 1 ',) .' >1;2> /M.**' DD* .' 8'6.' ,)*' =12, >6,*' 1 ' 12 6>*' 0 0' 21,' >1? ? *2>*' D* 1-*' ' ,')6.',)*-* 1-*' D**2' >12A*>,;-*0',)6,',) .'-* *-*2>*' D*/125.',1',)*' 1;-,)' >1;2> /

.' ,' ;5;.,2*')60'5-*6,' 2 /;*2>*' 6,',)*.*' 1;2^ >/.' ,' ?;.,' D*' 1 ' ?=1-,62>*',1' 6.>*-,6 2' D .'=- +6,*' 7.*2, ?*2,' 12',) .' .;DA*>,' ( ) .' *? 2*2,' ?62' 8)1' 86.'D1-2' 2'N '>12.*>-6,*0'D .)1='1 ' : ==1' M,)*' =-*.^ *2,' 126X' 2'NR '620'0 *0' 2' N ' 2',)*' .*+*2, C. L,)' *6-'1 ') .'65*' 8-,*.'6.' 1//18.' 2',)*' *6-'NR T

'()*-*' 2,-*' 6212'1 ' >-=,;-*' .'>1?=-.*0' 2',)*.*'D119.' ()*-*' 6-*' ,' 1 ' <1.*.' /' 4*2*.. L10;.' *+,>;.' ;?C D=7.' *.,*-121? T ' 1 'B1.);6 ' 1 'B;05*.' ' .?6// D119' >6//*0' ;,)' 8)>)'.**?.'-6,)*-',1'D*/125',1',)*' D*5 22 25'1 ' ,)*' 2501?.' ,)*' 'D119.'1',)*' 2501?.'620'K'1',)*' *^ ?6 2.'21,' 1//18 25' 12*' 621,)*-'D;,'=6-6//*/',1' *6>)'1,)*-' ()*-*'6-*' ,,1->6/D119.'8)>)'>12,6 2'6',>>*.. 12'1',?*.' 2,)*' 1-0*-'1'*+*2,.' ()*-*'6-*'1,)*-'.8)>)'01'21,'1D.*-+*' ,)*71-0*-'1',?*'620'6-*' ;2>122*>,*0'/*6,)*-'6.'B1D' ,1D ,' IO,)*-'620'B;0,)',)*'K'D119.'1'<6>>6D**.'620',)*'K'D119.' 1' [-6'8)>)'/6..'01'?1-*'1D.*-+*',)*'1-0*-'1'6'-*5;/6-' .;>>*.. 12'1'*+*2..'6,*-',)6,'>12,6 2*0'2',)*' 2501?.' 620'*?6 2.' *L,'6-*',)*' -1=)*.'6?125'8)>)' ')119' 1',)*' .6/?.'1' 6+0'620'N'1' 1/1?12'+ [' -1+*-D.' 620' ,0*.'620' 7/*.6.,*.T 1-',)*.*'K'D119.'& .01?'620' >C >/*.6.,>;.'6-*'>6//*0' 1/1?12.' 1-'21'1,)*-'-*6.12',)62')*C >-;.*.,)*')6+*'6'-*.*?D/62>*',1') .'8-,25.'T 1-',6'+*-' 5*2*-6/1=2 12',)6,',)*'8*-*'8-,*2'D'B*.;.',)*'.12'1' -6>)'8)>)'1196')18*+*-'.2>*',)*'6-*'60?',*0'2,1' 6;,)1-,'6-*',1'D*'-*>912*0'6?125'=-1=)*,>6/D119.' ()*' -*.,'6-*',)*')119.'1',)1.*8)1'6-*'=-1=*-/'>6//*0'=-1=)*,.' 6.',)*'.*+*-6/D119.'1',)*'K -1=)*,.'8)>)'D*25'1;20',1^ 5*.)*-'620'2*+*'.*=6-6,*0'6-*'-*>912*0'D119' ()*'26?*.' 1'8)>)'=-1=)*,.'6-*',/*.*Id :1.*6'B1*/' ?1.' D60 6)'B1^ 26)' <6>)' 6);?.:6D699;9'U*=)62 6)':67 6 'U*>)6C -2)'<6/6>)' .*-',)*.*')*' 1-'-1=)*.'1'/6 5*' +1/^ ;?*.' .6 6)'%B*-*?6)' 62*/' [*9*/' 2',)*.*' 'D119.' >1?=-.*0'6//',)6;,)1-.,'1',)*' /0'(*.,6?*2,J'I ' ' ' D !(!8f \ 1-',)*' *8',.**' (4 < T',)*' 6-*' ,)*' .6?*' 8,)',)1.*'218'-*>* +*0%h

,'/6.' 20**0'D**2'?6 2,6 2*0',)6,' ;5;.,2*'6/,*-*0').' 1= 2 12' 12',)*' .;DA*>,'1 ',)*' 0*;,*-1C>62 p2 >6/D119.' 2').' *,-6),12.'M.**' :*20*-.12',' D % 1' =% R X' D;',)*' 12/ '=6..65*' 2',)' 81-9'D*6-^ 25' 12',)*' .;DA*>,'8)>)'8*' >62' 0 .>1+*-' .',)6,' 8)*-* 2',)*' >12 *..*.') .'?.,69*' 2',*-? 25' >>/*. C 6.,>;.'6'% %" 'D119' ;5;.,2*')6.'6/.1'D**2' .;==1.*0',1')6+*',*.,*0',1',)*' 2 *-1-'6;,)1-,' 1',)*.*'D119.'-1?')..'6 25',)6,'12*'1',)*?'86.' -*60'-1?',)*' (' =/6>*% ' ()*.*2,?*2,'1',)*')119'1'& .01?' .'21,',1'D*'-*A*>,*0'8)>)')6.I'0*^ .*-+*0',1')*' -*>,*0'1-'.;>)'6'/125'>1;-.*'1' *6-.' -1?',)*' % ' '1',)*' ' ' 1',)*')6,',)*' 1-?6,12'&*' 20' 6D*-' ,6=;/*2.:'620' >6-0 26/' 6A*,62' *L=-*.. 25',)*?./+*.',1',)*' .6,,* >/(*>,'620',)*/*6?*0' 62>,*.' 652 2' 2')..'-62.^ /6,12'1',)*' D/*' -1?',)*'1-5 26/' /625;65*.'=;D^ /.)*0'6,' 12.'2' KQ M,)*' -.' D/*',)6,'>12,6 2^ *0',)*0+.12'2,1'+*-.*.'8,)',)*'=-*.*2,' 5;-*.X' 0*0>6,*0',1'=1=*' /*?*2,' '0..,25;.)*0',)*'*>>/*^ .6.,>6/D119.'8)>)')*'.6 .'8*-*'21,'2',)*' 6212' D',)*',*-?'# %" 1-'6'0*.>-=,12'1',)' -6-*'81-9'.**' " '5 " ' +' R' 2'6' ,-*6,.*' ' " ' ' ' ' " ' ; 'D ' *+% &%'&-5),' % %" "

' &1'218'6-- +*'6,')*'=*-10'1',)*' * 1226C ,12'8)*2',)*' _;*.,12'1',)*' 6212'1 ' >-=,;-*'86.' 86-?/' 0.>;..*0% 125'D* 1-*',) .' =*-10'M+ [' 2%" NQ X'& >9/ >')60'=;D/.)*0'D .',-62./6,12'1',)*' D/*' 2' 8)>)')' .;D.,.;,*0'621,)*-' =-1/15;*' 1-B*-0?*.T 8)*-* 2'6 ,*-' *2;?*-6,25',)*' ,8*2,C +*J'D119.'1',)*' :*D-*8' 6212')*' 600.a' &)6,^ *+*-')119' .' 2',)*' /0'(*.,6?*2,'D*. 0*.',)*.*',8*2C ,C +*' .)6// D*' .*,' 6?125',)*' =>>2=)6',)6,' .' 8,)1;,'6;.)1-,'1'D*/*%J' :*'6/.1'2'1-0*-',1'0.^ ,25;.)',)*' :*D-*8',*L,' -1?',)*' 4-**9'2,*-=1/6^ ,12.'2.*-,*0'B*-1?*.'21,*.' " ' 2,1',)*'D10' 1',)*',*L,%

/,)1;5)'<6-,2' ;,)*-'>1??*2>*0',)*'=;D/>6,12' 1')..',-62./6,12'1',)*' D/*' 2' KN' *,'6.' ,'86.

=;D/ .)*0' ,' =6-,. ')*')60' 21,' *,' ?60*' 62 ' 0 ., 2>^ , 12' D*,8**2' ,)*' ,81' >/6..*.' 1 'D119.' 8)*2' 12 >*-' =;D/ .)*0') .' *0 , 12' 1 ',)*' 4-**9' *=,;65 2,' 6,' ,-6.C' D;-5' 2' KS' 2' 8) >)')*' .*=6-6,*0' ,)*' *;,*-1C7 6C' 212 >6/' 1-' =1>- =)6/ 'D119.' -1?',)1.*' 1 ',)*'B*8 .)' 6212' 1-' 8) >)')*' 86.' .*+*-*/ ' >6., 56,*0' D ' <1C' - 2;.' M.**' <6.>) 6 *0 , 12' 1 ' *' 125 .' ; " ' ; ' ' KSQX% - 6.' $/12,62;.' 8*2,' ., /' ;-,)*-' 620' -*A*>,*0',*?' 6/,15*,)*-% 2' N',)*' >1?=/*,*' *0 , 12' 1 ' ;,)*-.' D/*'6==*6-*0' 8)*-* 2',)1.*'D119.' 8) >)'B*-1?*')60' =/6>*0' 1 % "' 8*-*' .*=6C' -6,*0' 620' =/6>*0'D ',)*?.*/+*.'D*,8**2',)*' /0' 620' *8' (*..,6?*2,' ;20*-',)*',/*' `` =1>-E7=)6',)6,' .' 11/.' 8) >)'6-*' 21,',1'D*' >12. 0*-*0'6.'*_;6/,1') 1/ ' >-=,;-*' 620' *,'6-*' ;.* ;/ 620'5110',1'-*60%J' *8' *6-.' 6 ,*-' ,)*' 0 + 2*.' 1 ',)*' 1;2>/ 1 '(-*2,'6..*?D/*0' 620' 6?125',)*' *6-/ *..' .;DA*>,.' 1 ',)*-'0*/ D*-6, 12' I86.',)*' 6212' 1I' >-=,;-*% ' ()* 6212' 1 ' ;5;., 2* J' .6 .' D .)1hX <6-.)' ``>12, 2;*0',1' D*',)*' >6212' 1 ',)*' -;/ 25' =6-, % ;' 6.',)*-*' 81-*' 21,' 862, 25'=*-.12.' *.=*> 6// '6?125',)*/*6-2^ *0' 8)1' -1?', ?*',1' e2*-*>1??*20*0',)*' 6212' 1 'B*-1?*' ,' 86.' 2*>*..6-' 1-',)*' 1;2>/ 1 '(-*2,',1' 0*> 0*' D*,8**2',)*' >12,*20 25'=6-,*.' I % ' N -,'=% R X% ()*' (-0*2, 2>' 6,)*-.')60' >12.*_;*2,^ / '6'2>*' 620' 0 >;/,'_;*., 12',1'0*,*-? 2*% 2',)*' Q,)' 1' =-/' S' 6// 8)1' 8*-*'=-*.*2,' 6,',)*' 1;-,) .*.. 12' 1 ',)*' 1;2>/ 1 '(-*2,'601=,*0',)*' 6212' 1 ' ;5;., 2*' 0*>/6-25' ' :*' 6/.1' .' %' D*' 626,)*?6' 8)1' 01*.' 21,'-*>* +*',)*.*' *2, -*' D119.' 8 ,)'6//',)*'-'=6-,.' 6.',)*' ')6+*' D**2' 6>>;.,1?*0',1' D*' -*60' 2',)*' 6,)*' *L>*=,12' 1',)*' D119' 1' 6-;>) 18>)' 86.' 21,'.*=6-6,*0' -1?',)*' 1,)*-.' 2' ,) .'+*-. 12' ;2, /',)*' *0 , 12' 1 ' % ()*')60')1;C' *+*-' D**2' .*=6-6,*0' 2' <6,,)*8 .' D/*' 2' N '=-*^ 6>*0' 8 ,)',)*' +1/;?*' 1',)*' D119'>6//*0' # %" DP' () .' D/*' >12,6 2*0' / +*,62 .'=-* ^ 6>*' 2' 8) >)',)*.*' D119.' 8*-*' .=19*2' 1 ' 2' .1?*8)6,' 0 .=6-65 25',*-?.% 2' -62?*-.' D/*' =;D/ .)*0' 2' NR',)*' .6?*' 81-0.' 620' =-* 6>*' 8*-*' >12, 2;*0' D;',' -',)*' *0 , 12' 1 ' R',)*' 81-0' - %" ' 86.' >)625*0' 2,1' &% %" 1' 8) >)' =6..*0' ,)-1;5)',)*' .;>>**0 25' *0 , 12.' 2,1' 25' B6?*.' /0*% / +*C' ,62 .' =-* 6>*' 86.' 1?,,*0' 2',)*' .)1=.' D/*' 2' SQ' 6 ,*-',)*' -6? 25' 1',)*' >6212' 2',)*' ( ) -,+C' 2 2*' -,>/*.' 2' SK% 2',)*' 4*2*+6' D/*' 8) >)' 86.',)*' =1=;/6-' 25/ .)',-62./6, 12' D* 1-*',)*' =-*.*2,' 6;,)1- [*0' +*-. 12' 620' 8) >)' 86.' =;D/ .)*0' 2' R' 3 ,)*.*' D119.' 6-*' =-2,*0' .*=6-6,*/ ' 8 ,)' 6' =-* 6>*' 2' 8) 0 ' 6/,)1;5)' 21,' >12. 0*-*0' 1 ',)*?.*/+*.' 6.' .;^ > *2,',1' =-1+*' 62 ' =1 2,' 1 ')-., 62' 01>,-2*',)*' 6-*' A7*',-*6,*0' 8 ,)' 6') 5)' 0*5-**' 1 '+*2*-6, 12% 2' ,)*' =6-6//*/ =6..65*.' 2',)*' ?6-5 2' 1 ',) .',-62./6, 1 /' -* *-*2>*.' 6-*' ?60*' ,1',)*' 0*;,*-1C>6212 >6/' D119.% 2' %,)*' -.,' *0 , 12' 1 ',)*' -, >/*.' 1 ',)*');->)' 1 ' 25/620' K' 21' >6,6/15;*' 1',)*' : 1/ ' >-=,;-*' 8*' 01' ;20*-.620',)1.*' >6212 >6/' D119.' 1 ',)*' /0' 620' *8' (*.,6?*2,' 1 ' 8)1.*' 6;,)1- ,E7' 86.' 2*+*-' 62 '01;D,' 2',)1');->)' J' 620',)6,'',)1'1,)*-'D119.'%6.'B*-1?*' .6 ,)%',)*');->)' 01,)' -*60' 1-' *L6?=/*' 1 '/ *' 620' 2.,-;>, 12' 1 ' ?62^ 2*-.' D;,' *,' ,'01,)' 21,' 6==/ ',)*?',1' *.,6D/ .)' 62 ' 01>, 2> J' ()*' D119.' 8) >)',)*' 6-, >/*.,)*2' *2;?*-^ 6,*.' 6-*' 620' K' \N' 620' h' .0-6.' (1D 6.' B;0 ,)',)*' -*.,' 1',)*' D119' 1 ' .,)*-' & .01?' B*.:,',)*' .12' 1 ' -6>)' 6-;>)',)*' -1=)*,',)*' 125' 1',)*')/0-*2' ,)*' ,1-' 1 ' ;.6226' */ 620',)*' -6512',)*' -6 *-' 1 '<626..*.' 620' '620' K'<6>>6D**.% ,' .' 21,7)18^ *+*-' 6/,15*,)*-' >1--*>,' 2' =1 2,' 1 ' 6>,' 2' 2>/;0 25' 2',)*' 2;?D*-' 1 'D119.',)*' -1?',)*' 6.' -*60ID ',)*');->)' 1-' *0 >6, 12',)*',) -0' 620' 1;-,)

)60' *L .,*0' -1?',)*' *6-/ *.,' 65*.' 1 ')-., 62 ,E ' 21,' 12/ ' 2',)*' 6, 2' +*-. 12' 1 ',)*' /0' (*.,6?*2,' D;,' *+*2' 2',)*' 6//> *2,' 4-**9' *-. 12' 8) >)' .' 9218 2' D ',)*' 26?*' 1 ',)*' *=,;65 2,% % % % ' 2',)*' ?62;.>-=,.' 1 ',)*' *=,',)*-*' .',)*' .6?*' 2,*-? L,;-*' 1 '>6212 C' >6/' 620' 6=1>- =)6/ 'D119.' 6.' 2',)*' ?62;.>-=,.' 1 ',)*' 6, 2' +*-. 12J' \6/,)1;5)',)*-*' 6-*' 2' 0 *-*2,' ?62^ ;.>-=,.' +6- 6, 12.' 2',)*' =6-, >;/6-' 6--625*?*2,' 1 ' . 25/*' D119.h% ' ()*' :*D-*8' 86.' 26>>*.. D/*',1',)*' 6, 2',-62./6,1-.' 2' ;-1=*' 620' ->6' 0;-25',)*' -.,' ,)-**' >*2,;-*.%J ()*' 6/' D119.' 8*-*' 5*2C' *-6// ' 8-.,*2' 8 ,)' 2' 6' =*- 10' 8) >)' >1;/0' 21,')6+*' *L,*20*0',1' ?1-*',)62',81' >*2,;-*.' D* 1-*',)*' D -,)' 1')-.,% 2',)*' >)1 >*' 1 ',)*' =/6>*.' 8) >)' 8*-*' 6.^ . 52*0',)*?' D ',)*' 4-**9' B*8.' -*. 0*2,' 2' /*L62I' 0- 6' 620' 1,)*-' =6-,.' 1 ' 5 =,' 8)1' =-1D6D/ ' 600*0' ,)*.*' D119.',1',)*' *=,'+*-. 12' 6>>1-0 25' 6.',)*' D*^ >6?*' 5-60;6// '6==-1+*0'1 ',)*' 8*-*'0 -*>,*0' '=6-,^ / ' D ',)*' .;DA*>,.' =6-,/ ' D ',)*-' -*-*/6, 12',1' 1,)*-' 8-., 25.' 620' =6-,/ ' D ',)*' =*- 10.' 2' 8) >)',)*' -*^ >1-0*0',-62.6>, 12.' 6-*' .;==1.*0',1',)6+*')6==*2*0%J' ()*-' 2.*-, 12'.)18.')18')5)/ ',)*' 8*-*' *.,**?*0' D ',)*' 4-**9' B*8.' 1' 5 =,' D;,' 8)*,)*-' *+*2',)*' 5 =, 62' B*8.' 6.>-D*0',1',)*?' >6212 >6/' 620' 0 + 2*' 6;,)1- ,' .' 81;/0' 21,' D1' *6. ',1'=-1+*' M<6-.)' &C' % ' N 8 ()*' 1//18 25' 8*-*',)*'=-1>**0 25.' 1 ',)*' 25/ >62');->)' 2' -* *-*2>*',1',<.' .;DA*>,a' 2' 1+*-06/*.' 25$.)' ,-62./6, 12' 1 ',)*' D/*' =-2,*0' 2' N ',)*' 0*;,*-1C>6212 >6/' D119.' 8*-*' 0 + 0*0' -1?',)*' 1,)*-.' 620' =-2,*0'.*=6-6,*/ ' 8 ,)',)*' *L>*=,12' 1',)*' D119' 1' 6-;>) 18>)' 86.' 21,'.*=6-6,*0' -1?',)*' 1,)*-.' 2' ,) .'+*-. 12' ;2, /',)*' *0 , 12' 1 ' % ()*')60')1;C' *+*-' D**2' .*=6-6,*0' 2' <6,,)*8 .' D/*' 2' N '=-*^ 6>*0' 8 ,)',)*' +1/;?*' 1',)*' D119'>6//*0' # %" DP' () .' D/*' >12,6 2*0' / +*,62 .'=-* ^ 6>*' 2' 8) >)',)*.*' D119.' 8*-*' .=19*2' 1 ' 2' .1?*8)6,' 0 .=6-65 25',*-?.% 2' -62?*-.' D/*' =;D/ .)*0' 2' NR',)*' .6?*' 81-0.' 620' =-* 6>*' 8*-*' >12, 2;*0' D;',' -',)*' *0 , 12' 1 ' R',)*' 81-0' - %" ' 86.' >)625*0' 2,1' &% %" 1' 8) >)' =6..*0' ,)-1;5)',)*' .;>>**0 25' *0 , 12.' 2,1' 25' B6?*.' /0*% / +*C' ,62 .' =-* 6>*' 86.' 1?,,*0' 2',)*' .)1=.' D/*' 2' SQ' 6 ,*-',)*' -6? 25' 1',)*' >6212' 2',)*' ( ) -,+C' 2 2*' -,>/*.' 2' SK% 2',)*' 4*2*+6' D/*' 8) >)' 86.',)*' =1=;/6-' 25/ .)',-62./6, 12' D* 1-*',)*' =-*.*2,' 6;,)1- [*0' +*-. 12' 620' 8) >)' 86.' =;D/ .)*0' 2' R' 3 ,)*.*' D119.' 6-*' =-2,*0' .*=6-6,*/ ' 8 ,)' 6' =-* 6>*' 2' 8) 0 ' 6/,)1;5)' 21,' >12. 0*-*0' 1 ',)*?.*/+*.' 6.' .;^ > *2,',1' =-1+*' 62 ' =1 2,' 1 ')-., 62' 01>,-2*',)*' 6-*' A7*',-*6,*0' 8 ,)' 6') 5)' 0*5-**' 1 '+*2*-6, 12% 2' ,)*' =6-6//*/ =6..65*.' 2',)*' ?6-5 2' 1 ',) .',-62./6, 1 /' -* *-*2>*.' 6-*' ?60*' ,1',)*' 0*;,*-1C>6212 >6/' D119.% 2' %,)*' -.,' *0 , 12' 1 ',)*' -, >/*.' 1 ',)*');->)' 1 ' 25/620' K' 21' >6,6/15;*' 1',)*' : 1/ ' >-=,;-*' 8*' 01' ;20*-.620',)1.*' >6212 >6/' D119.' 1 ',)*' /0' 620' *8' (*.,6?*2,' 1 ' 8)1.*' 6;,)1- ,E7' 86.' 2*+*-' 62 '01;D,' 2',)1');->)' J' 620',)6,'',)1'1,)*-'D119.'%6.'B*-1?*' .6 ,)%',)*');->)' 01,)' -*60' 1-' *L6?=/*' 1 '/ *' 620' 2.,-;>, 12' 1 ' ?62^ 2*-.' D;,' *,' ,'01,)' 21,' 6==/ ',)*?',1' *.,6D/ .)' 62 ' 01>, 2> J' ()*' D119.' 8) >)',)*' 6-, >/*.,)*2' *2;?*-^ 6,*.' 6-*' 620' K' \N' 620' h' .0-6.' (1D 6.' B;0 ,)',)*' -*.,' 1',)*' D119' 1 ' .,)*-' & .01?' B*.:,',)*' .12' 1 ' -6>)' 6-;>)',)*' -1=)*,',)*' 125' 1',)*')/0-*2' ,)*' ,1-' 1 ' ;.6226' */ 620',)*' -6512',)*' -6 *-' 1 '<626..*.' 620' '620' K'<6>>6D**.% ,' .' 21,7)18^ *+*-' 6/,15*,)*-' >1--*>,' 2' =1 2,' 1 ' 6>,' 2' 2>/;0 25' 2',)*' 2;?D*-' 1 'D119.',)*' -1?',)*' 6.' -*60ID ',)*');->)' 1-' *0 >6, 12',)*',) -0' 620' 1;-,)

! (. " # " # $ 7SS % , , 5 #

D119.' 1 ' .0-6.% ( )*.*' D119.' &*-*' *_;6// '-*A*>,*0' D ',)*');->)' 1 ' 1?*' 620' D ' ;,)*-7'8)1' 0 0' 21,' ,-62./6,*',)*?% ( )*') ;->)' 1 ' 25/620' ;-,)*-' 0*^ >/6-*.',)6,' 6// ,)*' D119.' 1 ',)*' *8' (*..6?*2,' ' " ' ' ' 1' 8*' 01' -*>* +*' 620' 6>>1;2,' ,)*?' >6212 >6/%J ( )*');->)' 1 ' 25/620')6.')*-* 2' 1//18*0',)*' 1;2%> /.' 1 ' : ==1' 620' 6-,)65*% ( )*' =)-6.*' 1 ' 8)1.*' 6;,)1-, ' 86.' 2*+*-' 62 ' 01;D,' 2' ,)*');->) J' -* *-.' ,)*-* 1-*' ?1-*' .,-,/ ',1' ,)*' D119.' 1 ',)*' /0' (*..6?*2,',)62',)*' *8' 1-' 8*')6+*' 6/-*60 ' .**2',)6,' 01;D,.' ' *L .',-*.=*>, 25',)*' 4' (4 < ' 1 ',/ *' *8' (*.,6?*2,% 2',)*' -.,J')*' 1=2 12' 1',)*' D119' 1 ' : 1? / *.' =;D/ .)*0' 2' ' 620',)*' .*>120' 2' S 'D1,)'>12 -?*0' D ',)*' ( ) -, (,)' -, >/*' 1 ' SK' ,)*' 0*;,*-1(>6212 >6/ D119.' 6-*' > ,*0' 6.' >- =,;-* J' 620',-*6,*0' 8 ,)',)*' .6?*' -*+*-*2>*' 6.',)*' 1,)*-'D119.' 2',)*' D/*' 620' 2',)*'=-* 6>*',1',)*')119' 1 ' 1?? 12' -6 *-',)*' '6-*' 6//;0*0',1' 6.'D* 25' '65-**6D/*',1J',)*' : 1/ ' >- =,;-*.% ()*' : */+*, >' 12 *.. 12' 06,*0' .,' 1 ' < 6->) ' SS')6.',)*' 1//18 25' *L=-*.. 12' -*.=*>, 25',)*' 6=1>- ^ =)6/ D119.á & *' 01' 21,' 0*2 ',,1 '>*-,6 2')119.' 1 ',)*' />) (*.,6?*2,' 8*-*' 26?*0' D ',)*' 62> *2,.' 6=1>^ - =)6/' D ' 1,)*-.' *>>/*. 6.,>6/' 6.' D* 25' -*60' 2',)*' >);->)*.% D;,' 21/ 600;>*0' 1-' 6;,)1-, ' 2' ?6,,*-.' 1 ' D*/ * T 6.' ;5;.,2*' 2',)*' Q,)' D119' 1 ',)*' ' ' ? '>)% LLL+ '-*/6,*.',)6,',)*' 26?*.' 620' D119.' 1 ' >*-,6 2' =-1=)*,.' 8*-*' 600;>*0' 2',)*' D119.' 1 ' 25. ' D;,' 600.',)6,',)*.*' 8*-*' 21,' 2',)*' 6212' 6200,)6,' ,)1.*' 8*')6+*' 8*-*' .; > *2,' 1-'= *, %J ()*' 12 *.^ . 12' 1 ',)*' ;,>)' >);->)*.' M06,*0',)*' .6?*' *)-X' .' ?1-*' ;/% ,*-'-*>1;2, 25',)*' >6212 >6/ D119.' -*^ .=*>, 25' 8) >)' 21' >12,-1+*-. ' *L .,*0 J' ,' 600.' & *' ?69*' 6' 0 ., 2>, 12' D*,8**2',)*.*' 620' .;>)' 6.' 6-*' >6//^ *0' 6=1>- =)6/' 8) >)' ?6 ' 20**0')*' -*60' 2' ,)*');->)' 620' =-11 .' 600;>*0' -1?',)*?' .1' 6-' 6.',)*' 65-*' 8 ,)',)*' >6212 >6/ D119.T D;,' ,)*-' 6;,)1-, ' 620' 1->*' 6-*' D ' 21' ?*62.' .:>)',)6,' 62 ' 6-, >/*' 1 ' 6 ,)' ?6 ')*' >*-,6 2/ ' 0*>/6-*0' -1?',)*-',*., ?12 ' 6/12*' ., //*..',)6,',)*' >62' ?=;52' 1-' 0*,-6>,' -1?' ,)*' 6;,)1-' ,)*-.%J ( )*' 600' 6.',)*-'-*6^ .12' 1-' -*>* + 25',)*' >6212 >6/ D119.',)6,' ' .' 21,' .1' ?;>)' D*>6;.*',)*');->)' -*>* +*.',)*?' 6.',)6,',)*' : 1/ ' =-,',*.,' .',1' 1;-' >12.> *2>*.',)6,',)*')6+*' >1?*' -1?' 4 10T 620' >) * / ' 12',) .' 6>>1;2,' D*^ >6;.*',)*' 1 ',)*?.*/+*.',)*6-',*., ?12 ',1',)*-' 182' 6;,)1-, ' 620' .62>, , ' .1',)6,'*+*2',)*' D/ 20' ?6 ' .**' ,)*' ;/ /?*2,'1 6//,) 25.'=-*0 >,*0' 2',)*?' 6.' ,'8*-*' 8 ,)',)*' .*2.*.%J ()*' & *.,? 2.,*-' 12 *.. 12' =-1>**0*0' 12',)*' .6?*' =- 2> =/*' D;,',-*6,*0',)*' D119.' 1 ',)*' .*>120' >6212' 8 ,)'/*..'>*-*?12 % ,*-'*2;?*-6, 25',)*' >6212 >6/)119.' M6.>- D 25',) -,**2' *= ../*.' 12/ ',1' 6;/X',)*?' =-1>**0',1'.6 ',)6,' ')119.' >6//*0' =1*-A7=)6' 21,' D*^ 25' 1 ' + 2*' >12 -?6, 12' 6-*' 21' =6-,'1 ',)*' 6212' 1 ' >- =,;-*' 620',)*-* 1-*' 1 ' 21' 6;,)1-, ' 2',)*') -/E' 1 ' 410' 21-',1')*' 62 ' 1,)*-8 .*' 6=-=1+*0' 1-' ?60*' ;.-*' 1 ',)62',1,)*-');?62' 8-, 25.%J' 20' 656 2á ' ()*' 6;,)1-, ' 1 ' : 1/ ' >- =,;-*' 1-' 8) >)' ,' 1;5),' ,1' D*' D*/ *+*0' 620' 1D* *0' 0*=*20*0' 21,' 12',)*',*.,^ ?12 ' 1 ' 62 ' ?62' 1-');->)' D;,' 8)1// ' ;=12' 410' ,)*' 6;,)1-',)*-*1 ' 620',)*-* 1-*' ,' .',1' D*' -*>* +*0' D*>6;.*' ,' .',)*' & 1-0' 1 ' 410% & *' ?6 ' D*' ?1+*0' 620' 20;>*0' D ',)*7);->)',1' 6') 5)' 620' -*+*-*2,'*.^ ,**?' 1 ',)*' : 1/ ' >- =,;-*.' 620',)*')*6+*2/ 2*..' 1 ',)*' ?6,,*-',)*' * >6> '1',)*' 01>,-2*',)*' ?6A*.,' 1 ',)*' .,/*'*,>%' 6-*' 6-5;?*2,.' 8)*-*DA' ,' 01,)' 6D;2^ 062,/ '*+ 0*2>*' ,.*/',1' D*',)*' & 1-0' 1 ' 4 10' *,' 21,CI' 8 ,).,620 25' 1;-' ;// =*-.;6. 12' 620' 6..;-62>*' 1 ',)*' 2 6// D/*',-;,)' 620' 0 + 2*' 6;,)1-, ',)*-*1 ' .' -1?' ,)*' 286-0' 81-9' 1 ',)*' : 1/ ' = - ,' D* 25' 8 ,2*..' D ' 620' 8 ,)',)*' & 1-0' 2' 1;-')*6-,.%J ;,)*-' M12' 1-' R' X')60' 0*>/6-*0',)6,',)*' " ' D ' 8) >)' >*-,6 _ ' >- =,;-*.' .)1;/0' D*' 6>^ 9218/*05*0' 6.' 0 + 2*' 1-' 21,' 86.',)*' 1//18 25á ' 1' ,)*' =-*6>)' B*.;.')- .,' 1-' 21,HJ' 20' 6?127',)*' ?10*?.% -' (8*.,*2' >N 2 ' ' ' ' + QKR' ' K ' ._ %X')6.' ?6 2,6 2*0' 6' .1?*8)6,' . ? /6-' =- 2> =/*' M.*' 46;..*2 .' -+ % Y 8' ()*' 12 *.^ . 12' 1 ' ;5.D;-5' 06,*0' ' N ' >12,6 2.' 21' 6-, >/*' &)6,*+*-' 12',)*' 6212' 1 ' >- =,;-*T 21-' 01',)*' ;^ ,)*-62.' 6==*6-',1')6+*' 62 ' 1,)*-' >6212',)62I' ;,)*-.' D/*' 1-',)*' .*2, ?*2,.' 1 ',)*' 4-**9');->)' .**' > g > ' g ! % & *' .)6// 600' 6' *8' +1-0.' 12',)*' 5-1;20.' 620' 6;,)1-, *.' 601=,*0' D ' 0 *-*2,' =6-, *.' 1-' 0*> 0 25' 8)*,)*-' 6' 81-9' .' >6212 >6/ 1-' 21,% <-' B*-*? 6)' B12*.' ;-2.)*.' ;.' 8 ,)',)-**' 0 *-*2,' + *8.' 12',) .' .;D A*>,% ' ()*' -., J')*' 6 ,) .' ' 1= 2 12' 1',)*' 6= .,.' 8)1')6+*' 5*2*-6// ' 6 -?*0' 2',)*-' >12,-1^ +*-. *.' 8 ,)',)*' -1,*.,62,.',)6,',)*' 6;,)1-, ' 1',)*' >- =,;-*.' 0*=*20.';=12' 1-' .' 0*- +*0' -1?',)*' =18*-' 1',)*-');->)% ,)*' 6;,)1-.' =/6 2/ ' ?*62' 6' =18*-' /105*0' 2',)*');->)' 1 ' 1?*' 620')*-' . 210.' 1 ' 0*,*-? 26, 12' 8)6,' D119.' 6-*' ,)*' 81-0' 1 ' 410',)62' 8) >)' 21,) 25' >62' D*' ?1-*' 6D.;-0' 1-' >12,-6- ',1' >1?12' .*2 *T 1-' .1' ,' .' =1.. D/*' 26 ' ,' .' *6. ' 1-',)*?',1' ?69*' 6' D119' 8) >)' .' 21,' 0 + 2*',1' D*' .1%J 20')*' ?0 2' ,6 2.',)6, ,' .' =1.. D/*' 12',) .' =- 2> =/*',)6, .1= .' 6D/*.' 1-',)*' 2 0*/ D119.' 1 ' */.;.' B;/ 62' 620' 1-' =) -AW ? 5),' D*>1?*' 6' =6-,' 1',)*' *8' (*.,6?*2,%J ;,)*' 6>,' ?;..' 21,' D*' /1.,' . 5),' 1 ',)6,',)*');->)')6.' 2*+*-' =-*,*20*0',1' *L*->.*' 6' =18*-' 1 ',) .' 00F .>- =, 12% .)1=' <6-.)'-*' *-- 25',1',) .' .;D A*>,' 1D^ .*-+*.T ' ()6,',)*' 1;2> / 1 ' (.-*2,'6..;?*0',)*' =-. +^ /*5*' 1 '-6 . 25',1',)*' -629' 1 '>6212 >6/ 6;,)1-, ' 8)6, 86.' 5*2*-6// ' 6>9218/*05*0',1')6+*' 21' .;>)' 6';,)1-^ , ' .' 6' >)6-5*' 8) >)' >6221,' D*' ?60*' 8 ,)1;' 2A;.^ ,>*T ,)*' =18*-' 1 '0*>/6- 25' >6212 >6/ 6' D119' 8) >)')6.' 2*+*-'/6 0' >/6 ?',1',)6,', /*' .' 6' =18*-' 21,' *L*-^ >.*0' *+*2' D ',)*') />)' 1'' 1?*% 2',) .'-*.=*>,' , 6>.,'/ 9*' 1,)*-')');->)*.T ,' .,.' 2' A;05?*2,' 12' *L .,^ 25' >/6 ?=' 620' 0*,*-? 2*.' 8)*,)*-',)*' 6-*' +6/ 0' 1-' 21,%J' -1?'>*-,6 2' *L=-*.. 12.' 1 '0 + 2*.' 8)1')6+*' 6..*-,*0',)6,',)*' >- =,;-*.' 81;/0')6+*' 21' 6;,)1-, ' 8)6,*+*-' 8 ,)1;',)*' ,*.,?12 ' 1 ',)*');->)' ',')6.' D**.' ;=-1.*0',)6,',)*' '6.>- D*0',1',)*');->)' 62' 6-^ D ,-6- ' =18*-' 1+*-',)*.*' 0 + 2*' D119.T *//6-? 2*' ,)*-* 1-*')6.' 0-68 2' 6' 0 ., 2>, 12' D*,8**2',)*' 1DA*>^ , +*' 620' .;DA*>, +*' 6;,)1-, ' 1 ',)*' >- =,;-*.' ,)*-' 6;,)1-, ' 2',)*?.*/+*.' 620',)6,' 8) >)',)*' 2' -*.=*>,' ,1' ;.% ( );.' ;5;., 2*' .6 0',)6,')*' 81;/0' 21,' D*/ *+*' ,)*' 41.=*/ D;,' 1-' ,)*' 6;,)1-, ' 1',)*');->)' 600 25')18*+*-',)6,',)*' 2+ ,6, 12' 1',)*');->)' 86.');;',)*' -.,'.*=',1')*' .'>1?=/*,*' //;? 26^ , 12' D ',)*' = -,' S' 410' I ' 'QX% 21,)*-' =- 2> =/*' 86.',)6,' 601=,*0' D ' 6//',)*' -*^ 1-?*0' >1??;2 12.' M*L>*=;',)*' 25// >62');->)X' + [%',1';.*' <-%B12*.' .' 81-0.',)6,' ' " ' ' ' ' (' + ' $ %] " " ' %% ' ' + ' 2 ' ' ' ' ' " ' ' # ' $% ' ' + ' ' % ' ' " ' ' ' ' ? .' 1-',1' ;.*',)*' 81-0.' 1 ',)*' -*2>)' -* 1-?*0' >1?? ;2 12' 2' ,.' 12 *.. 12' 8) >)')6-?12 [* 8 ,)',)*' ?*,)10.' 601=,*0' D ',)*' >1,>)' 620' */?62' >1??;2 12.',)6,' ;=12',)*' 2,*-26/ =*-.;6. 12' 1',)*' = -,' " '+ ' " ' ' 6 ' %' &% % " ' ' ! () .' ?*,)10' <-%B12*.',) 29.',1')*' 1 '6'+*-' *L,-61-^ 0 26- '26,;-*% ' 62' ,' D*' .;==1.*0 J')*' 6.9.' ,)6, 1=,' 1 ',*2',)1;.620')119.' =- +6,*')-.,62.' 1-' *+*2' 1;-' ?1.,' /*6-2*0' -* 1-?*-.' .)1;/0' D ' 62' 2,*-26/ *+ 0*2>*' 65-** '=-*> ./*' 12',)*' 2;?D*-' 1',8 >2, C 7+*2' 8) >)' 6-*' - 18' *.,** ?*0' >6212 >6/ 20;>*0' ,)*-*,1' .1?*' >)6-6>,*-.',)1.*' D119.' >12,6 2' 1' 8 ,).,620 25' 1;-' ;// =*-.;6. 12' 620' 6..;-62>*' 1 ',)*' 2.=-6, 12' 1',)*' 1;/' 2 6// D/*',-;,)' 620' 0 + 2*' 6;,)1-, ',)*-*1' .' -1?' ,)*' 286-0' 81-9' 1 ',)*' : 1/ ' = - ,' D* 25' 8 ,2*..' D ' 620' 8 ,)',)*' & 1-0' 2' 1;-')*6-,.%J ;,)*-' M12' 1-' R' X')60' 0*>/6-*0',)6,',)*' " ' D ' 8) >)' >*-,6 _ ' >- =,;-*.' .)1;/0' D*' 6>^ 9218/*05*0' 6.' 0 + 2*' 1-' 21,' 86.',)*' 1//18 25á ' 1' ,)*' =-*6>)' B*.;.')- .,' 1-' 21,HJ' 20' 6?127',)*' ?10*?.% -' (8*.,*2' >N 2 ' ' ' ' + QKR' ' K ' ._ %X')6.' ?6 2,6 2*0' 6' .1?*8)6,' . ? /6-' =- 2> =/*' M.*' 46;..*2 .' -+ % Y 8' ()*' 12 *.^ . 12' 1 ' ;5.D;-5' 06,*0' ' N ' >12,6 2.' 21' 6-, >/*' &)6,*+*-' 12',)*' 6212' 1 ' >- =,;-*T 21-' 01',)*' ;^ ,)*-62.' 6==*6-',1')6+*' 62 ' 1,)*-' >6212',)62I' ;,)*-.' D/*' 1-',)*' .*2, ?*2,.' 1 ',)*' 4-**9');->)' .**' > g > ' g ! % & *' .)6// 600' 6' *8' +1-0.' 12',)*' 5-1;20.' 620' 6;,)1-, ' .' 601=,*0' D ' 0 *-*2,' =6-, *.' 1-' 0*> 0 25' 8)*,)*-' 6' 81-9' .' >6212 >6/ 1-' 21,% <-' B*-*? 6)' B12*.' ;-2.)*.' ;.' 8 ,)',)-**' 0 *-*2,' + *8.' 12',) .' .;D A*>,' ' ()*' -., J')*' 6 ,) .' ' 1= 2 12' 1',)*' 6= .,.' 8)1')6+*' 5*2*-6// ' 6 -?*0' 2',)*-' >12,-1^ +*-. *.' 8 ,)',)*' -1,*.,62,.',)6,',)*' 6;,)1-, ' 1',)*' >- =,;-*.' 0*=*20.';=12' 1-' .' 0*- +*0' -1?',)*' =18*-' 1',)*-');->)' ,)*-*,1' .1?*' >)6-6>,*-.',)1.*' D119.' >12,6 2' 1' 8 ,).,620 25' 1;-' ;// =*-.;6. 12' 620' 6..;-62>*' 1 ',)*' 2.=-6, 12' 1',)*' 1;/' 2 6// D/*',-;,)' 620' 0 + 2*' 6;,)1-, ',)*-*1' .' -1?' ,)*' 286-0' 81-9' 1 ',)*' : 1/ ' = - ,' D* 25' 8 ,2*..' D ' 620' 8 ,)',)*' & 1-0' 2' 1;-')*6-,.%J ;,)*-' M12' 1-' R' X')60' 0*>/6-*0',)6,',)*' " ' D ' 8) >)' >*-,6 _ ' >- =,;-*.' .)1;/0' D*' 6>^ 9218/*05*0' 6.' 0 + 2*' 1-' 21,' 86.',)*' 1//18 25á ' 1' ,)*' =-*6>)' B*.;.')- .,' 1-' 21,HJ' 20' 6?127',)*' ?10*?.% -' (8*.,*2' >N 2 ' ' ' ' +

% 5 F HEH % :

,)*-' 8) >)' 8 ,)1;,') ; ?62',*., ?12 ' 81;/0')6+*' ?60*' ?1'D*/ *+*',)6,',)*'D119'1 ' 62, >/*.' .' >6212 ^ >6/ 620' 8- ,,*2'D ' 1/1?12' 620',)*'D119'1 ' & .01?' 6=1>-A=)6/ 620' 8- ,,*2'D ') /1 1-' >1;/0')6+*' 92182' 62 ') .,1- >6/ D119. ' .;>)' 6.' B1.) ;6 'B;05*. ' ;,) ' 6? ;*/' 25. ')-12 >/*.' [-6 ' *)*? 6) '*,>' ,1'D*' 8- ,,*2'D '0 + 2*' 2.= -6, 12 'D;,'D ',-60 , 12 '*,>' ' ()*',) -0' ?*,)10' .',)6,'6==-1+*0' 1 'DE7<-' B12*.' + ['),)6,' ,-60 , 12 ' 1-',)*' ,*., ?12 '1 ',)*' 62> *2,')- ., 62. ' =-*,.*-+*0' 2' ,)*-' 8-, 25. ' .' ,)*' D*.,' ?*,)10' 1 '0*,*-? 2 25' ,) .' .;DA*>,' () . J' 600.' <-' B12*.' .' ,)*' ?*,)10' ,)*' -.,')- ., 62.' >12^ .,62,/ ' ?60*' ;.*' 1 ',1'=-1+*' 656 2.',)*')*-*, >.',)*' ,-;,)' 1 ',)*.6>-*0' D119. '+ [' D '6==*6/ 25',1',)6,'>*-^ ,6 2' 620' ;201;D,*0',-60 , 12' 8) >)' 6..;-*0',)*?',)*' 8*-*',)*' 8-, 25.' 1 ',)*' =*-.12.' 8)1.*' 26?*.',)*' D*6-' ()';.' 8*' 92*8',)6,' + 0 -5 /'1-' + ' 8-1,*' ,)*' D119.';20*-',)*-' 26?*.'J' (1',) .' 8*',) 29' ? 5),')6+*' D**2' 600*0' 2,*-26/*+ 0*2>*' 620',)*' 6=^ =/ >6, 12' 1 '>- , >6/ .9 //' ()*>) *'1DA*>, 12' 8) >)')6.' D**2' ;-5*0' 656 2.',) .' ?*,)10' .',)6,' ,'/*6+*.' ,)*' >6212 > , ' 1 '*6>)' D119',1',)*' 0*> . 12' 1 '+*-' =- +6,*' 20 + 0;6/' 8) >)' .' 2>12. .,*2,' 8 ,)',)*' 0*6' 1 '6' !' *-,6 2' ,' .',)6,',)*'62> *2,') 2>) ' 2' 0*> 0 2 ' 12' ,)*'=-*.*2,' 6212 ' *L) D ,*0'6' 8120*- ;/ ,)*1/15 >6/,6>,'6.',)*'D119.' 8) >)',')6.')620*0'0182 6.' >6212 >6/ '620',)*.*' 6/12*' 6-*' 5*2*-6// ',)*' .6?*' 8) >)'6 ,*-')6+ 25';20*-512*',)*'.,- >,*.,'1-0*6/,)6,' ,)*'/*6-2 25' 620'6>; ?*2' 1 ' ?10*-2', ?*.')6+*' D**2' *26D/*'0',1' 6==/ ',1',)*?' 6-*' 6>9218/*05*0' D ',)*' D*.',>-, >.',1' D*' 6;,)*2, >' 2' 0>, I,)*');-)')6.' 601=,*0',)*' .6?*' ?*,)10.' 1-',) .'=;-=1.*' 8) >)' <-' B12*.')6.' >12. 0*-*0',1' D*',)*' 12/ '12*.' .6, . 6>,1-' ,1'=- +6,*' 20 + 0;6/. ')- ., 62.' 6-*',) ;.' 2' =1..*.^ . 12' 1 ',)*') 5)*.,'0*5-**' 1 '.6, . 6>, 12' <-' 46;.=' .*2' I- % '=' N X' 60? .,' ,)6,',)*' =- 2> =/*' /6 0' 0182' D ',)*' -* 1-?*0'>);->)*.' .';2,*26D/*'%620')*'.;D.,;,*.' 1-' ,' 1-',)*' /0' (*.,6?*2,',)*' (*.,?12 ' 1',)*' B*8.' 620' 1-',)*' *8',)*' (*., ?12 ' 1',)*' 6,)1/ >');->)' D ' 8) >)')*';20*-.,620.',)*' 5*2*-6/ >12.*2,' 2' -*56-0',1',)*' 1-?*-' 1 ' 6// B*8.' 5 =, 62.' 620' - 62.' . 6, >.' 620' ;-1=*62.' 62^ > *2,' 620' ?10*-2 '5110' 620' D60TJ' 620' D ',)*',*.,^ ?12 ' 1 ',)*' 6,)1/ >');->)')*' ;20*-.,620.' ',)*' ;2 +*-.6/ >12.*2,' 1 ' 62> *2,' 620' ?10*-2' >);->)*.' . 6, >' 620' ;-1=*62 '5110' 620' D60d ,)6,' .' 21,'12/E' ,)*' .*>, 12.' 8) >)')6+*' 60)*-*0',1',)*' : * 1-?6, 12' D;,',)*' 4-**9' .*>, 12',)*' -?*2 62' .*>, 12',)*' 5 4' 62' .*>, 12',)*' 1?62' .*>, 12' 620',)*' $2 ,6- 62' .*>^ , 12 J' 20' 2'=' N K N ')*' 6.>- D*.'*2, -*' 2 6// D /^ ,'1' D1,)' B*8 .)' 620')- ., 62' >);->)*.' 2' -*.=*>,' ,1',)*' 6212.' 1 ' >- =,;-*' ' ()*' B*8.' ' ' 2^ ,-10;>*' 6');?62' D119' 2,1',)*' /0' (*.,6?*2,' 620' 2*',)*-',)*' 1;2>/ 1 ' (-*2,' 21-' *+*2',)*' ?1.,'>1-^ -;=,' 620' 01/6,-1;.' >);->)*.' '600' 6' . 25/*' 6=1>^ - =)6/ D119',1',)*' *8▒▒▒

,1' 5),' 8 ,)',),*' <16D ,*.'620' ? ?12 ,*.' *D,' 'R' ,)*' -;/*.' 1-' > + /' 620' ? / ,6-AI' 1-562 [6, 12' 620',)*' R' 1-' 8 ,)',)*' 01? ,*.' D ;','1' D; ' 1 ', D*?' 110' 620' .,6,*' 1 ',)*' *+ ,*.' 8)1' 6-*' -*=-*.*2,*0' 6.' / + 25' 86,*-' ' CQT' ,)*' +6/;6D/*') .,1- >6/'21, >*.' 8) >)' 6-*' 8 ,)1;,' > , *.' M,)1;5)' .;>)' 6-*' 5-62,*0' ,1' ,)*?' 2' 5 +*2' -*.=*>, 25',)*' *6-/ *-' 2)6D ,62,.' 1 ',)*' >1;2^ ;?%' LLL+X' 620' 8 ,)1;,' ,)*.' M6//1,,*0' ,1' ,)*?' 2' ,- *.' 1 '<16D' 620' ? ?12' 620' 1 ' <1;2,' ' ' C' ;?%' L+ 'K ' *,>YX% ;,' 2',)*' =6..65*.' ,*0',)*' K K CKNT',)*' . L, ' 1-, *0'>, *.' 1 6.)62' T',)*' (*?=/*' .' 21,' 26?*0' ? ;>)' /*..' .' ,' .=19*2' 1 '6.' 6/^ 9 25' 1 ',)*' >1;2,- ' 8)1' 86.' 1 ',)*' -*?262,' 1 '5 ^ -*60 ' *L ., 25# 12',)*' >12,-6- ',)*' =)-6.*' *?=/1 *0' 62,. J' ' T',)*' 0 *-*2,' 26?*.' 1 ' : *-?12' 'RT' .' ()*'=/6>*' 8) >)',)*' 1-0' 1;-' 410'.)6// >)11.*%II' ,)*' 8 /0*-2*..' 1 ' *0*?1,D' 'KST' 620',)*' ?1-*' 0*^ 56 2',1' .;==1.*',)6,' <1.*.' 86.' 2>6=6D/*' 1 '=-1+ 0^ ,6 /*0' 6>>1;2,' 1 ',)*' 6,,6>9' 1 ',)*' ?6/*9 ,*.' LL+' 25' 1-',)*' ;,;-*' 620' +*- ' 0 *-*2,' =1. , 12' 1 ') .' Q'>1?=6-*0' 8 ,)' L10%' L+ 'Q =*1=/*' 6.' .*,,/*0' 2',)*' /620' 1' 62662' .',1' 0*2E!7) ?' K%' ' " ' ' ()*' 6==1 2,?*2,' 1 ',)*' > , *.' 1+*2' 1-0 26- ' .656>, %' & ,)1;,' -6 . 25',)*' _;*.^ -* ;5*' *;,%' L L' ©R' 6.'>1?=6-*0' 8 ,)' ; ?%' LLL+' , 12' 6D1;,' D .' 0 + 2*' >1??.. 12' .;-*/ ' ,' ' 21,',11' 620' *;,%' + ' T' 1 ' =6-, >;/6-' =/6>*' 1-',)*' ?>);1' 6..;?*',)6,' .1' 8 .*' 620' 5-*6,' 6' /*5 ^0 .1/*??2' 81-.)=' 1 '410' 8)*-*' 6//' 1 *- 25.',,)*.' *,>% 81;/0' 1-*.**',)*' 5-18,)' 1 '6' =1/, ' 620' 81;/0' D*' 6-*',1' D*' D-1;5),' *;,%' L ' '*,>% 8) /.',)*',)*' -*..- >^ 62L 1;.',1' -*5;/6,*' ,.' 0;*' 60? 2 .,-6, 12' 2',)*' *6-' , 12' 8 ,)'-*56-0',1',)*' ./6 25' 1 '62 ?6/.' 12/ '6',)*' 1 '410%' : *2>*')*' 81;/0' 5;6-0' 656 2.,' 6/.*' =-1=)*,.' 011-' 1 ',)*',6D*-26>/*' 1 ',)*' >125-*56, 12'M *+%' L+ ' 620' .*0;>*-.',1' 01/6,-%' .'-*56-0.',)*' *+ ,*.'/11^ N' X' .'012*' 686 ' 'K ' K T',)*%-*5;/6, 12.'-*.=*>,^ .*/'?5),')6+*' *L=*>,*0' 1-' *+*2' 0*. -*0',)6,',)1;5)' 25',,)*.',1' D*' D-1;5),' 8 ,)',)*' .6>- >*.' 620' D;-2,'C =1 *- 25.',1',)*' 6==1 2,*0' =/6>*' *;,%' L 'S' T' ,*0' DE71,)*-.' 6.' 8*// 6.',)*?.*/+*.X',)*' .)1;/0' 21,' L +' KK' *,>%' LL+' KT' >12>*-2 25' 6/.*' =-1=)*,.' 620' D*' >12 2*0',1',)1.*' >,*.' D;,' .>6,,*-*0' 1+*-',)*' 60*' .*0;>*-.',1' 01/6,- '620',)1.*',)6,')*6-9*2';2,1',)*?7' 1 ',)*' >1;2,7 7' () .' ?;,')6+*' D**2',)*' >6.*' 6,' -.,' L T' >12>*-2 25',)*' 9 25' 620',)*' ?622*-' 1 ',)*' 9 25^ 18 25',1',)*' +* '5-60;6/ 1>>;=6, 12' 1 ',)*' 2*8',*-^ 01?' L+ ' '*,>%' ,)*' =-1=)*,.' L+ ' '*,>%' 86-' ,-1- %' ()*' ?*-*' 6>,',)6,' 2' 5 + 25',)*?' >*-,6 2' 620' ? / ,6- '.*-+ >*' L L T',)*' *L= 6, 12' 1 '.*>-*,' ? ;-^ - 5),.' 2' *;,%' 21,) 25' .' .6 0' 1 '62' *6-/ *-'=-1+ . 12' 0*-T',)*'/68' 1 ' *?6/*' >6=, +*.T' 1 ' -.,CD1?' .12.' D ' 2' ;?%' 01*.' 21,' D ' 62 ' ?*62.' =-1+*',)6,',) .' *6-^ 6' 01;D/*' ?6-- 65*T' 1 '0 .1D*0 *2,' .12.T' 1 ',)1.*' 8)1' / *-' =-1+ . 12' 86.' ;29218' 1-' 7 0 ' >*6.*0',1' D*' 2' .; *-' 0*6,)' D ')625 25' LL T',)*' /68.' 2' LL ' ©Q' 1->*% NCK T' 1 ' 0 +1->*' LL +' ' 620' +6- 1;.' /*..*-' *26>,^ ,)*-' -*6.12.' 1-' 6' /6,*-' 06,*' .;>)' 6.',)*' ?*2, 12' ?*2,.' LL ' 620' LL+T',)*' 1-?' 1 ',)629.5 + 25' 2' 1 ',)*' 81-.)=' 1 ',)*' .;2' 620' ?112' M +' RT' L+ 'QXT' 1 *- 25',)*' -.,C -;,.' LL+ T',)*' >1?620',1' 8-.,*' ,)*' =;2 .)?*2,' 1 '.,12 25' ML+ 'ST' LL 'K '*,>%XT',)*' /68',:=12' .,12*.' LL+ '620',1' -*60',' D* 1-*' 6// 26?*' @ 1' '- " T' 620',)*' ?1,+*' 1-' 9**=^ .-6*/6,',)*' *6.',1' (6D*-26>/*.' LLL ' C N% 25',)*' 6DD6,)' 6-*' 1 '/ ,,/*' 1->*% 2' ?1.'+' KS' <62 '1,)*-.' 6-*' -6,)*-' *L,*2. 12.' 1-' ?10 >6, 12.' 6,' 5,-2' .' .6 0',1')6+*' D**2' 81-.)==*0' 2',)*' 8 /0*-^ 1 ',)62' 600, 12.',1' *L ., 25' /68.' 6.' 1-' 2.,62>*' 2*.',T',)*'=;2 .)?*2,' ,12 25' .' 1;20' 6/.1' 2',)*' ,)*' /68' 1 ',)*' :*D-*8' ./6+*' *;,%' L+' K' *,>%' >1?^ 1/0*-' 0#>;?*2,.T',)*' *6.',1' (6D*-26>/*.' 6A-**.' 80,)' =6-*0' 8 ,)' L10%' LL 'K' *,>% *** 6/.1',)*' ;//*-' 0 ^ *+%' LL N T' 620',)*' ?1,+*' 6//*5*0' 1-',)*' 1D.*-+^ -*>, 12.' 2' *;,%' L+' RCKNT' LL+' © '6.'>1?=6-*0' 62>*' 1 ',)*' 6DD6,)' 6,'/*6.,'01*.' 21,' *L>/;0*' 1,)*-' 8 ,)',)*' D- * *-' 21, >*.' L10%' L ' KT' LL ?1,+*.% /',)1.*')18*+*-'6 1-0' 21'-*6/'0 >;/,' 2' 0*2, ^ A %' & " ! ' %' ,' .' 5*2*-6//' ,5-**0',)6,' D' 6-' 25',)*' 6;,)1-' 8 ,)',)6,'1',)*' =-*>*0 25' D119.' 12' ,)*' 5-*6,*-'=1-, 12' 1',)*')119' .',)*' 81-' 12' 6';-' .;==1. , 12',)6,',' ,' 86.' <1.*.') ?.*/ ' 8)1' 6.',)*' ,)*' =-1=1;20*-' 1',)*' /68' 620',)*' 0 -*>,1-' 1',)*'),1- ' 1-%' ()*' 12/ '=6-,.' 8) >)')6+*' D**2' _;*., 12*0' 6.' 86.'>1?=*,*2,',1' *L=620' 620' //;.,-6,*' D1,)' 620' 2^ =1..D/*' 2,*-=1/6, 12.' 6-*' 6>>1-0 25',1' *' 7*,*' +' 0**0'>1;/0')6-0/ ' 6/',1' 01' .1' 8*-*')*' 1,)*-',)62' 6' CNT' d' SCRT' LLL ' 620' LLL %' 2,*-26/*' *+ 0*2>*' ?*>)62 >6/'>1= .,% 20**0' .' .,-125/ '0*> .+*',)6,',) .' D119' 1',)*' *2^ ,6,*;>)' 86.' 21,',)*' 81-9' 1 '6' >1?=/*-% % ' ' ' % !' '&6.',)*7119' -*6// 'K%' ,'>6221,' D*' 0*2 *0',)6,',)*' ., /*' 1 ' *;,*-121^ 8-.,*2' 6.' ,.' /625;65*' >*-,6 2/ ' ?=/*.' D* 1-*',)*' ? ' .'+*- '0 *-*2,' -1?',)6,' 1 ',)*' 1,)*-' 1;-' D119.' *2,- ' 1 ' .-6*/ 2,1',)*' -1? .*0' 620' H 1,' 12/ ' 1 ',)*' *2,6,*;>)% ' .' ?1-*' /18 25' ?1-*' -)*,1-^ 01*.',)*' 8-,*-' 6..*-,',)6,',)*' 0 .>1;-.*.' >12,6 2*0' 2' >6/' ?1-*' .;.,6 2*0% ()*'-) ,)?' .' 5-620' 620',)*' ,)*' D119' 8*-*' 0*/ +*-*0' 2',)*' =/6 2.' 1 ' <16D' 2',)*' 0 >,12' ?1-*' 69 2',1',)*' .;D/ ?*-' =6..65*.' 1 ',)*' /6.,' ?12,)' 1 ',)*' *6-.I' 8620*- 25' 620' 8)*2',)*' =-*1=/*' 8*-*'A;.,'6D1;,',1'*2,*-' 62662'M ' CSX'D;,')*' =-*>*0 25'0 .^ ,*//.';.' 8 ,)' ., // ;-,)*-' *L6>,2*..',)6,'6// ,)*' 81-0.' >;.. 12% & *' 8 // >12. 0*-' -.,',)*%+ *8.' 17',)1.*' 1 ',)' 68' 8*-*' 8-,,*2' 6,',)*' .6?*',?*' 2',)*' D119' 8)1' 0*2 ',.' 6;,)1-.)='D ' <1.*.% 2',) .'=1 2',)*' WLLL ' RX% <1-*1+*-',)*' 6>',),)6,',)*' 5110/ ' /620' 1/1 18 25'=-2>=6/') =1,)*.*.')6+*' D**2' ?6 2,6 2*0a /6 '*+*2' 218' D* 1-*',)*-' *.' .**?.' *+*- 8)*-*',1' !' ()*' 1= 2 12' 1 ' ,6)*/ 2' WG20'6.' ,'81;/0' .**?'1' D*',;==*-?1.' 2',)*',)1;5),*' 1',)*/*5 .6,1-' 620',1' /*>9X',)6,',)*'6;,)1-'.,)*' .6?*'6.',)*' 8-,.*-'1',)* /*20' 6' =*>;/6-' .1/*?2, ',1') .' 81-0.%' :*2>*' 8* B*)1+.,>' =1-, 12.' 1',)*' 1,)*-' D119.%' :*',) 29.' >12, 2;6// ' ?**,' 8 ,)' .;>)'*L=-*.. 12.'6.' 8)*2'B*^ ,)6,',)*' 1-> 6/' 620'/*5 ./6, +*'=1-, 12.'=/6 2/ ' 1)+6)',)6,' 410'D- 25*,)',)**' 2,1',)*' /620' 8)>)' :*',)620' 8)1' 0',)*.;=/*?*2, .',)*' >) !' 2 !'=% .)18',)*')620' 1',)*.;==/*?*2, .',)*' >) !' 2 !'=% 7*-6/',*.' 2' 62662' .',1' 0*2E!7) ?' SX% :*2>*')*' 6,,6>)*.' D;','/,,/*' 8* 5),',1',)*' 6/^ 1+**2' 218' D* 1-*',)*-' *.' .**?.' *+*- 8)*-*',1' /*5*0' 0 .>-*=62> *.' 6.')*' >12. 0*-'.',)*?'6// ,1' D*',)* 81-9' 1',)*' -*+ .*-' 51 25' 1+*-' >1--*>, 25' 620' 600^ 25',1',)*' 1/0*-' ?6,*- 6/.' 1',)*' /1) .,>' 01>;?*2,' 1 ',)*' 52' 1' 1/1?12' M >' 6/-*60E' 2') .')620.% & *,,*' *25*-9*' 620' 1,)*-.X' 1-' 2',)6,' 1' <626..*)' "!*()*' 1= 2 12' 1' *' & *,,*' 4*.*2 ;.' 620' 1,)*-.' M 86/0'6.'6D1+*X' .' 21,'12/ ',1' ?69*')*' D119' 6') .^ ,)6,',)*' *;,*-121?.,' .' 6' 0 .,2>,' 8 -.,*-' -1?',)*' ,1- >6/' -1?62>*' D;',1' 6,,- D;,*' +* '>12. 0*-6D/*' 2^ B*)1+.,%' *' & *,,* .' 6-5;?*2,.' 6-*' D6.*0' M X' 12' +*2, +*' .9 // ,1',)*' 6;,)1-'M6.' 86/0' 2' 6>,'01*.X% ,)*' 0 *-*2>*' 2'., /*T' MKX' 12',)*' >12,-60 >, 12.' 6/^ *' & *,,*' 6-5;*.' 20**0',)6,',)*' >)6-6>,*-' 1',)*' -*60 '-* *--*0',1'6.' *L ., 25' 2' ?6,,*-.' 1 ') .,1- '6.' /68.' .' .;>)'6.'1',.*/',1'=-*.;==1.*' 6'/125'-*. 0*2>*' 8*// 6.' 2',)*' /*5 ./6, 12'8-)*2' >1?=6-*0' 8 ,)',)6,' 2' 2',)*' /620' 1' 62662%' :*' 2.,62>*.',)*' 6// ;. 12',1' L10;.T' MNX' 12',)*'=*>;/6-, /=1, >*6D/*' 2',) .'D119' ,)6,' 410'01*.' 21,' .=*69'DE7<1.*.' D;',)6,' <1.*.') ?^ - 5),'0 .>)6-5*' 1',)*' 9 25/ '620'=-1=)*, >6/ 1 >*. .*/' .=*69.',1',)*'=*1=/*' 620',)6,',)*-*' .' 21' ?*2, 12

1 ' ,) *' 625*/ 1 'B*) 1+6)' M>1?=' 'N T' + 'K CKNT' L ' NC '8 ,)' L10 ' LL 'K CNNXT' 620' M X' /6.,/ '12' ,) *' 6>',,) 6,' ,) *' *;,*-121? .,' 6.>- D*.') .' 8) 1/*' 81-9' ,1' <1.*.' 8) /*' ,) *'B*) 1+ .,' 6.. 52.') ?' 12AI7 >*-,6 2' =1-, 126 ' O >' -1?' ,) *' 6>,' ,) 6,' >*-,6 2' =) 6.*.' 1>>2-- 25' 2' *2,' 6-*' 1;20' 6/.1' 2' ,) *' =-1=) *> ' 1 'B*-*? 6) ' ,') 6.' D**2' ,11') 6., / ' >12>/;0*0' D ' >- , >.' ,) 6,' D1,) ' D119.' 8*-*' ,) *' 81-9' 1 ' ,) *' =-1=) *,' 1' 12' 1) /*2' 4*.*2 ;.' I? "'O' # " !'$% !'=' NKX' 620' : 6-,^ ?622') '@ +'=' 44 02 5 '12',) *' 1,) ^ *-') 620' >& 2'$ ' ' K ._ X') 6.' .) 182' 21,' 12/ ' ,) 6,' ,) .' 0 1?6, >' -*.*?D/62>*') 6.' D**2' ?60*' ,11' ?;>)' 1 'M.**' 6/.1' */ 6 '=' X' D;',) 6,',) *-*' .' ,) *' 5-*6*.-,' =1.. D/*' 0 *-*2>*' 1 '.,/*' D*,8**2' ,) *' ,81' D119.' *' & *,,*' *L=-*..*.') ?.*/' . ? /6-/ ' >6 !' =' R X' !' 86/0' .' 1 '1= 2 12' ,) 6,' ,' 86.' 8 -,,*2' D '6'B*8' / + 25' 2' 5 =',0;- 25',) *' /6,,*-') 6/ '1 ',) *' -* 52' 1 ' B<626..*)' >? "!' 'N!' -!' ' X' : *' ,) 29.' ,) 6,' 6' = 1;.' B*8' 1 ',) 6,' 65*' 5 ,*0' 8 ,)' =-1=) *, >' =18*-' 620' ;// '6/ +*' ,1' 6//',) *' *+ /.' 1 ') .', ?*' .1;5),',) ;.' ,1' -*+ *' 620' ,1' ?=-*..' ?1-*' =18*- ;// ';=12' ,) *' ? 20.' 1 ') .' >1;2,-A ?*2',) *' 5-*6,'/*..12.' 1 ',) 6,' /68' 8) >)') *' .68',) *' 8*-*' 2' 0625*-' 1 ' 1-5*,, 25' : *' 6+6 /.') ?.*/ ',) *-* 1-*' 1 ',) *' 5-1;20 81-9' 1 ',) *' *6-/ *-' .,1- '620' 6/.1' 1 ',) *' <1.6 >' ?10*' 1 '*L=-*..^ . 12' ;',6.') .' 1DA*>,' .',1' -1;.*' 6' >1--;=,' 26, 12 ') *' 12/ ' ?69*.' ;.*' 1 ') .,1- >6/ 21, >*.' 1-',) *' =;-=1.*' 1 ' 2,-10;> 25') .' 86-2 25.' 620' *L) 1-,6, 12.' 8 ,)',) *' ?1-*' =' *>,' ( ) .') *' 01*.' 8 ,)' 5-*6,' .9 // 620' 6.' 6' ?6.,*-'1 ') .' .;DA*>,' 8) /*' 6,',) *' .6?*' , ?*') *' 5 +*.' -*.) ' + 51-' 620' / *' ,1',) *' 1/0' /68' D ' ?*62.' 1 ',) 1.*' 2*8' =-1=) *, >' ,-;,) .' 8) >)') 60' .1' /6,*/ 'D*>1?*' ,) *') *- .685*.' 1 ' .' =*1=/*' 86/0' ;-,) *-' >12. 0*-.',) 6,' ,) *-*' 6-*' =6..65*.' 2' *;,*-121? 'D1--18*0' -1?',) *' D119.' 1 'B1D' 620' .6 6)' M + 'NK' -1?' B1D' + 'QT' 620' LL+ 'KR' N N ' -1?' B1D' + ' T' LLL ' T' ' T' 620' LL+ ' R' *,>' -1?' .6' + 'KS' ._ T' LLL ' RX' 620' ?;>)' 1 ' ,'69 2',1' B*-*? 6)' I? "'!' ' '21,*X' ()*' .125' 1 '<1.*.' MLLL X' .' 6>>1-0 25',1') ?' 21,' D ',) *' *;,*-121? .,' D;,' .' 2*+*-,) */*..' /6,*-',) 62',) *' ,?*' 1 ' 1/1?12' ! ()*' 1/0',-60 , 126/ + *8',) 6,',) .' D119' / 9*',) *' 1,) *-' D119.' 1 ',) *' *2,6,*;>) ' .',) *' 81-9' 1 ' <1.*.') ?.*/ ' ',) *' /6,*-' >-, >.' : *25.,*2D*-5' : 6+*-' 2 >9' 629*' 620' 1,) *-.') 6+*' ?6 2,6 2*0',) .' + *8' <1.*.' ,;6-,' 8-,*.' *;,*-121? ' 6==*6-.',1' ? ' ? 20' 6.' ,'0 0',1',) 6,' 1 ' >)) 1-2' 620' : *-0*-' 6.',) *' *6-2*.,' 1;,=1;-25.' 620' 60?12 , 12.' 1 '6') *6-,' 8) >)' */',) *' 0**=*.,' 2,*-*.,' 2',) *' 8*/ 6-*' 1',) *' B*8 .)' 26, 12' 620' 8) >)' -*6/ [*0',) 6,',' ? ;.,' .112' D 0' 6-*^ 8*//',1',) *' ?' ' 2.,*60' 1 'D*6-25';=12',.' 6>*' 6.' .' 6//*5*0' D ' .1?*' *+ 0*2>*.' 1 ' 621,) *-' 6;,) 1-.) =',) 62',) 6,' 1 ' <1.*.' ' ? ;.,' -*56-0',) .' D119' 6.' D* 25' .1' 0**=/ ' -6;5),' 8 ,)') 1/ '620' =6,- 1, >' **/ 25' 6.',1' >12+ 2>*' 62 ' ;2=-*A;0 >*0' -*60*-' 8) *' .' >1?=*.*2',1' A;05*' 1 ' ,.' ., /*' ,) 6,' ,' >6221,' 8 ,)' 62 ',1/*-6D/*' 0*5-**' 1 '=-1D6D / , 'D*' 6,,- D;,*0',1' ;' ! % ',1' /*5 ./6, 12' 1-',1' 62 ' ?*-*' '1 ',) *' 5-*6,'/*5 .^ /6,1-' ;>)' 6' 5/18' 6.' -;2.',) -1;5)' 6//',) .' D119' ,' .' 2' +6 2',1' .**9' 1-' 2' 62 '6-, > 6/1-' .;==1. , ,1;.' >1?=1. , 12J' I12 !' '" 'L!' -!' !' g' NX% 2' .;==1-,' 1 ',) .' 1= 2 12' ,' .' .6 0a' ' ()6,' .;=^ =1. 25',) *' 8) 1/*' *2,6,*;>)',1') 6+*' D**2' 8-,,*2' D ' <1.*.',) *' >) 625*' 2'., /*' .'*6. / '6>>1;2,*0' 1-' 8) *2' 8*' -*?*?D*-',) 6,',) *' /6.,' D119' .') 1-,6,1-' 2' ,' >) 6-6>,*-',) 6,' ,'>12. .,' >) * / '1 '1-6, 12.' 620',) 6,' ,) *.*' 8*-*' 0*/ +*-*0' ;20*-' +*-' =*>;/ 6-' > ->;?^ .,62>*.' K' ()6,',) *' ' 4 ' .' 21,' 12/ '5*2*-^ 6// ' 2' 6>>1-062>*' 8 ,)',) 6,' 1',) *' *6-/ *-' D119.' 620' ,) 6,' 6.' 8*// 2' ,) *-' /1) .,>' 6.' 2' ,) *-' B*) 1+ .,>' =1-, 12.' D;',) 6,',) *-*' 6-'>*-,6 2' =*>;/ 6-' 1-?.' 1 ' *L=-*.. 12' >1?? 12' 12/ ',1',) *.*' +*' D119.' N' ()6,' ,) *' 6//*5*0' +6- 6, 12.' ' ?6,,*-.' 1 ' 6>,' D*,8**2',) .' 620',) *' *6-/ *-' D119.' ?6 '6//' D*' -*>12> /*0' N.*' *6D1+*X' 620',) 6,',) *' 6?=/ >6, 12.' 620' >1--*>, 12.' 2',) *' /*5^ ./6, 12' 6-*' 12/ ' .;>)' 6.' 81;/0' 2*>*..6- / ' D*' ?60*' 8) *2',) *' =* =/*' 8*-*' A;.,' 6D1;',1' *2,*-',) *' =-1? .*0' /620' ( ) ;.' *-.,) *6;' 1D..*-+*.a' 7 , .') 6) 6-01;.',1' >12>/;0*' -1?' >12,-60 >, 12.' 2',) *' /68.',) 6,',) *' '6-*' ,1' D*' 6.>- D*0',1' 6' 0 *-*2,' 65*' 3 : *' 8) 1' ?60*' 600 , 12.' ?;.',) 6+*' 92182' 8) 6,' ,' 86.') *' 86.' ?69 25' 600 , 12.',1' 620' 81;/0' *,) *-') 6+*' 6+1 0*0' 6// >12,-6^ 0 >, 12' 1-' 81;/0') 6+*' 6/,*-*0',) *' *6-/ *-' /68.',1' ?69*' ,) *?' 65-**' 8 ,)',' ,*' /6,*-J' I' '$ ' ?(%% ' ! ? / '=' R' 21,*X' ' ()6,',) *' D119') *6-.' 8 ,2*..' ,1' ,.' 18' 6;,) 1-.) =' MLLL ' RX' 620' : *L=-*../ '>,*0' 2' ,) *' ' (' 6.',) *' 81-9' 1 ' <1.*.' M<6,,' L L ' 'Q' I <6-9' L ' NT' >,.' 'KKT' + 'N X' ' ?,) ' .' +% ()*' D119' >12,6 2.' 2' 600 , 12' 21,' 6' .?6// 2;?D*-' 1 '=/6 2',) 1;5) 20 -*>',-6>*.' 20 >6, +*' 1' ,.' <1^ .6>' 1-5 2' M.**' D !' $!' !' B62' Q Q' =' N N' ._ X' &*',) ;.' 20' 2' ,a' ' ;?*-1;.' 21, >*.' >12>*-2 25' 26, 12.' 8 ,)' 8) 1?',) *' .-6*/ ,*.') 60' ,) *2' >1?*' 2' >12,6>,' D;',) 8) 1' 6 ,*-',) *' <1.6>' =*- 10' *2, -*/ '0 .^ 6==*6-*0' -1?',) *' =65*.' 1 ') .,1-A T' .;>)' 6-*' ,) *' 6>^ >1;2,.' 1 ',) *' -*. 0*2>*.' 1 ',) *' 9 25.' 1 ' 6.) 62' M[' X' K' ()*' 6==*//6, 12' 1 ' ?1;2,6 2' 1 ',) *' ?1-,*. J' ;.*0',)-1;5) 1;',) *' 8) 1/*' D119' M ' R' K X' 8) /*' *+*2' 2',) *' D119' B1.) ;6' .112' 6 ,*-',) *' >12_;*.,' 1 ',) *' /620',) *' 26?*' .' 6/-*60 '*L>) 625*0' 1-' ?1;2^ ,6 2.' 1 'B;06) J' MB1.) 'L ' S K X' N' ()*' 1D.*-+6, 12' M ' X',) 6,',) *' 6) 60' 1-?-/ '08*/,' 2',) *' =/6 2' 1 '<16Da',) *' 8*-*' 6' 5-*6,'=*1=/*' *_;6/,1',) *' & =' + ! () .' 1D.*-+6, 12' _;,*' 6>>1-0.' 8 ,)' 4*2' L + S' ' 0*,6 /*0' 6>>1;2,' M ' X' >12>*-2 25',) *' :1C' - ?' 620',) *-' -*/6, 12.' 1',) *' 2' 6>^ >1;2,' 1',) *' U6?[;?? ?' M 'K 'K X' 12*' 1',) *' *6-/ ^ *.,' -6>*.' 1 ' 62662',) 1;5)' ?*2, 12*0' 218) *-*' */.% S' '+*, '>->;?.,62, 6/' 6>>1;2,' 1',) *' :*=) 6 ?' M ' N'._ X' 8 ,)' 8) 1.*' >12>*-2.',) *' 6;,) 1-' .**?.',1') 6+*' D**2' 8*// 6>_;6 2,*0' I ()*' .,620' 25C=1 2,' 6/.1' 1',) *' 6;,) 1-' 1' *;,*-121^ ?' .' 6/,15*,) *-' 2',) *' <1.6>',?*' 620') 60' ,' D**2' 6..;?*0' 620' >,,1;.',) *-*' ?:.,' 2*>*..6- / ') 6+*' D**2' 1?*2,.' 8) *2',) *' .=;-1;.' 6;,) 1-' 81;/0') 6+*' D**2' 1 ') .' 5;6-0' 620' ;2?20 ;/1',) *' =6-,' D*') 60' ,1' =/6 ' ;,' 21' 0 .>-*=62> *.' 1 ',) .' 9 20' >62' D*' ,-6>*0' 620',) .' .' 2' ,.*/' 62' *+ 0*2>*' 1 ',) *' 5*2;^ 2*2*..' 1 ',) *' D119% ' 5-*6,'2;?D*-' 1 '1,) *-' =6..65*.' 1->*' ;.' / 9*8 .D' ,1',) *' >12>/;. 12',) 6,',) *' 8) 1/*' 1 ' *;,*-121? ' 1-5^ 26,*0' 2',) *' , ?*' 1 ' <1.*.' ;>)' 6-*' ,) *' =6..65*7' 8) *-*' ' >1?=6-.12' .' 0-682' D*,8**2' 62662' 620' 5 =',' ML ' ' ._ X' 8 ,)',) *' /6,,*-' 1 ' 8) >)',) *' 6;,) 1-' .**?.',) 1-1;5) / '6>_;6 2,*0' K' *,6 /*0' 0*^ .>- =, 12.' 6-*' 5 +*2' 1',) *' *-, / , '620' =-10;>, 12.' 1 ' 5 =',' M+ ' ' ._ X' N' *5;/6, 12.' 6-*' 5 +*2' -*/6, 25' ,1',) *' >12_;*.,' 1 ' 62662' ML ' ' ._ T' LL ' '._ X' 8) >)' >6221,' D*;20*-.,110' 1,) *-8 .*',) 62' D '6..;? 25',) 6,' ,) *') 60' D**2' -6?*0' 21',) *' <1.6>',?*' . 2>*',) *' >1;/0',) *' 1 '21';.*' 6 ,*-',) 6,'=*- 10% *. 0*.' 8) 1/*' = *>*.' 620' >) 6=,*-.' 2' *;,*-121? ' .;>)' 6.' LLL ' LLL ' D*,-6 ' 2' 1-?' /625;65*' 620' ,*21-' 6' +*- ' *6-/ ' =*- 10' 2' : *D-*8' / ,*-6,;-*% 1-' 6-*',) *' /68.' 620' -*5;/6, 12.' 2' *;,*-121? ' /*..' 0*^ > . +*' 1 ',) *' 6;,) *2, > , '1 ',) *' D119% & *' 6-*' .,-;>9' 8 ,)' ,) *' ?1.,' -*?6-96D/*' =) *21?*212' ,) 6,' ?62 ' /68.' -1?',) *' =-*+ 1;.' D119.' 6-*') *-*' =6-,/ '-*=*6,*0' 620' ?=-*..*0' 8 ,)' ?1-*' *2*-5 '=6-,/ I?10 *0' 620' =6-,/ ' 6/,15*,) *-' 6D1/ .) *0' 6>>1-0 25',1',) *' >12, 2^ 5*2> *.' 1 ',) *' , ?*' 1-' 6.',) *' 2*8' 6.=*>,' 1 '>->; C' ..62>*.' 6?125',) *' B*8.'-*20*-*0' .;>)'.*=.' 2*>*..6-' M>1?=' *' 5%' *2,' L+' ' 8 ,)' L10 ' LL ' T' *;,% L ' 8 ,)' *+% L+ X' ;>)' =-*,*2. 12.',1' -6 .*' 1-' *+*2',1' 1==1.*') .' 182' =- +6,*' 1= 2 12.',1',) *' 6;,) 1-^ . '1 '0 + 2*' /68' 6-*' 1;20' 2' 21' 6;,) 1-' 1',) *' .;D.*^ _;*2,' =*- 10. ' . 2>*',) *' 8) 1/*' 1 ',) *' .6>-*0' /,*-6,;-*' 1 ',) *' /6,*-',) *' *>) 1' ,) 62' 1,) *-8 .*' 1 ',) *' *2,6,*;>) ' 620' .' 6/,15*,) *-' 1;20*0' 12' ,% 00',1',) .',) *' 6>,',) 6,',) *' /68' ,.*' 1-D 0.' ?1.,' ?=-*.. +*/ ',1' 600',1' 1-' ,69*' 62 ,) 25' -1?' ,' 6' =-1) D , 12' 8) >)' .' -*=*6,*0' *+*2' 2' *;C

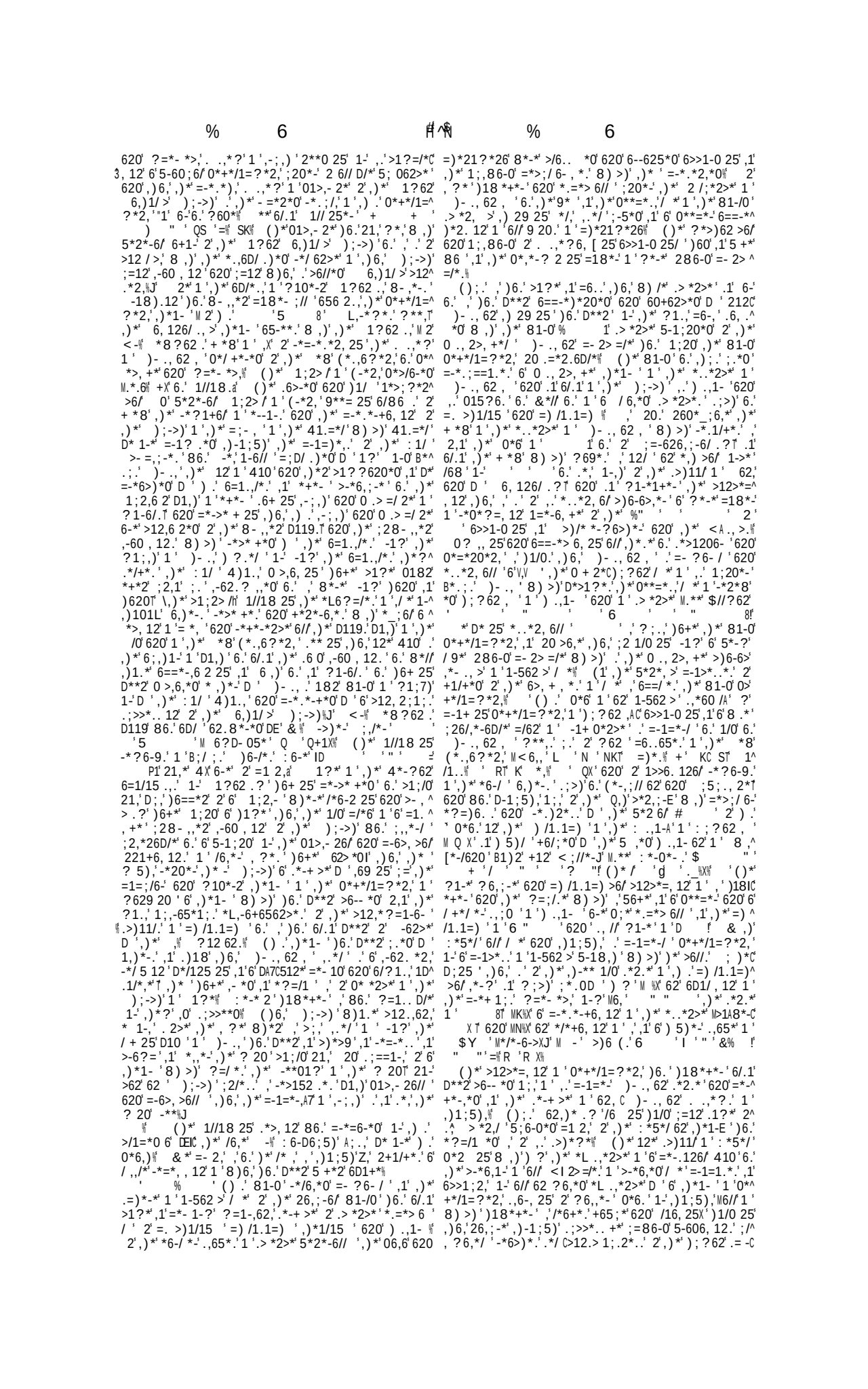
,*-121? 'M>1?=' + 'KT' L ' XT' .1',)6,'12',)*',)*1-'
,)6,',) .'D119' >12,6 2.' 21,) 25' ?1-*',)62' 6'5-60;6/
0*+*/1=?*2,'1',)*' /68' ,'>/6.)*.', 11' 1 ,*2' 8 ,)' ,.'
182' =- 2> =/*.'620',) ; .'=-121;2>*.' ,.'182' .*2,*2>*'
1 '>120*?26, 12 F
( )*' =6-,' 1 ' *;,*-121? ' MLLa7> +X -*.=*>, 25',)*'
0*6,)' 1 ' <1.*.' -*_; -*.' 6' =6-, >;/6-' *L=/626, 12
( )6,',)*' 8)1/*' 1 ',) .' .*>, 12' .',1' D*' -*56-0*0'6.' 6'
= *>*' 6/,15*,)*-' 6=6-,' -1?' 8)6,' =-*>*0*.' , ' 1-' 6.'
6' .;==/*?*2,') ' 621,)*-' 8 ,*-' .' 6' -*60 ' .1/;, 12'
?6 2,6 2*0' D ',)*' 1/0*-',)*1/15 62.' M>12.*;'1?=*5 6-=
[1+' !' ' ' -!' ' N XT' 620',) .' 1= 2 12' .'
>12 -?*0'21,'12/ 'D ',)*' >12,*2,.' 1 ',)*' >)6=,*-'D;,'
6/.1' D ',)*' *L=-*.' 0*>/6-6, 12' 1 ',)*' D119' ,.*/ '12'
,)6,' *+*2,' 620' 7.' -*/6, 12.' 1-' >)6=,*-' LLL ' >12^
,6 2.',)*' >12>/;. 12'1 ',)*' 81-9'8)*-*' <1.*.'0*.>- D*.'
) ?.*/ '6.',)*' 6;,)1-'1 ',)*' =-*+ 1;.' >12,*2,. '6.'6/.1'
1 ',)*' 125' M>)% LLL X '620',)*' D/*.. 25.' M>)% LLL X'
D*/125 25',1',% //,)6,' 1//18.' .'>12.*,;*2,/ '21,'
k1?' <1.*.',)*' 81-9'D* 25' >1?=/*,*0'620' >12>/;0*0'
8,)' >)6=,*-' LLL % ()*-*' .' 621,)*-' > ->;?.,62>*'
8)>)' 6+1-.',) .' 1= 2 12' 26?*/ ',)*' >/1.*' >122*>^
,12',)6,'*L .,.'D*,8**2',)*' /6.,I.*>, 12'1 ' *;,*-121^
? '620',)*' D*5 22 25' 1 'B1.);6'M>1?=% *;,'LLL +'
R' 8,)'B1.)' ' ' 8)*-*' 6/.1',)*' >122*>, +*' 1->*' 1'
,)*',*-?' ,' >6?*',1' =6..J' 2',)*' /6,,*-
=6..65*' ?;.,'21,'D*' 1+*-/119*0X'=/6 2/ '.)18 25',)6,'
>)% LLL +' 1' *;,*-121? ' .' 2,*20*0',1' .*-+*' 6.' 6'
% ' ' ',1',)*' D119' 1 'B1.);6'620',)6,',
86.' 8- ,,*2' D ',)*' .6?*' 6;,)1-'6.',)*' /6,,*-% ()*
>1--*>,'+ *8'1',) .'>)6=,*-',)*-* 1-*' .',1'>12. 0*-',
6.'6' %% 1'D;,'D '21' ?162.'6.'62' % 9
'M.;>)'6.'.1?*' >-, >.'*--12*1;./ '.;==1.*',1'*L .,'
2',)*' *2,6,*;>)' 2' 5*2*-6/X% (1'6==/ ',1' ,',)*'
,*-?' 2,*-=1/6, 12' 81;/0'D*' 6.'8-125'6.',1'5 +*',)6,'
6==*//6, 12' *% 5%',1',)*' Q,)'D119' 1' .*.6-.' 81-9' '
; '? 1'. ?=/ 'D*>6;.*' ,' 86.' 8-.,*2' D '62';2C
9217+2' 6;,)1-' 1-',)*' +*-' =;-=1.*' 1' .*-+ 25' 6.' 6'
%% ',1',)*' =-*+ 1;.' D119.% ' ,,1' .% +% **'
+ $ '!
% *=6-6,*' ';=12',)*'D119'1' *;,*
121? '6-*' 21,'2;?*-1;.!,)*' ?1.,' ?=1-,62,'6-*'0*.^
526,*0'D '62'6.,*-.9'MIX=-* L*0d - 5*2'$ '
" !'M 2' ,%% 'NQSXT' =)-6*?' -;.'6 %2 '
' !'M 2' L%%!' +'KSRXT' ()*101-*,' - ' ' '
M 2' L%%!' '=,!' XT' . 01-;.' : .=6/*2..'
' !'M 2' ,% 8!' *0*' ' ' !'6 % 'M 2' L%%!
+XT' 0! ' % !' ' !'> '+ XT' >,1-' : ;51'
& .;' ' ' 2!'M 2' L%%!' XT' ;=*-,;.' (;,*2C
..' ' !'M 2' L%%!' 'KQQX'7 (;,)*-' '
M ,*D% K Q+1T' 6/.1 2' PVX=% ST' 6
L%%!' L XT' ;5*2)65*2' ' ' !'M 6./%
K ' ,*D% K 'Q+1XT' <6>>)6D,*;.'6
' !'M 12012' SN Q+1XT') ,-**;.'6 (
' !'M ,*D% R 'Q+1XT' 6/+ 2'$ % '
' !'M -1?',)*' -*2>)'D '41/0 25' 120' SQN' 1/%XT'
-*2,' ' ' !'M 2' L%%!' XT' =% 6D 25,12'
7 ' % ' ' !'M 2' +!'=% RXT' 1-2;.' =
Y 2 ' ' ' !'M ;50% SK SKR K'+1$% 1/%XT' <6C
. ;.'& ' ' %!' ' ' 4!'M 2',)*'
$ 1' '=,% XT' -62[*' ' % '% ' ' !'M ,*D%
S Q' ,1XT' I 4*-)6-0' ' % ' ' !'MB*2%
S ,1XT' 0>>* ;.'7 ' ' ' 'M 2' L%%!' QSXT' O%
' ' !' ' !' % ' I !' 'K XT' /, 25' '
' %!' = 'M 2' L%%!' K ' ?.,% SQ XT' ;.;*,'6 =
%2 ' ' !' = 'M 6-% N K 21XT' ,-256'
' ' !' 'M:6-/% N ,1XT' :1/,' ' !'
2 'M ;50% 7' ,1XT' <6->)' ' ' %!'
= ' M 2' ' !8E' :65*?622';' "=
' "!' ! !';' 'M -;2.8% ' ,1XT' :1?C
)*-5' M 2' <*20*/..1)2.' *2,6^
,*;>)' */2' QN' *,>%XT' I 1 *2?;//*-' $ " ' M 2'
$ " !'=,% XT' I :1-./* '7 ' ' ' !'M 2';!' 9
' XT' *)?' ' ' ' "'M =[% Q Q+1XT'
4;?2'25'5 ' ' ' !'M 12012' Q S' K?1XT'
o476 ' ' '$ ' ' + 'M =[% Q Q+1X'A :18^
6-0' *;,% " '$ % 'M 120% Q 'Q+1XT' I >);$[' ' ' ' !' + 'M *-/% R'Q+1XT' 3 21D*/' -C' + 'M 2',)*' 6 !' !'=6-,' L +XTIC' >)-10*-' ; 'M 2' 625*.' ; " +JLI' (% ' */* */0' QSS CQ+1X% **' < /'0 !' 1 *+6 ' ' 8 ' ,)*' ?1.,' =-1? 2*2,' 6?125',)*' * 1-?*-.'1';:256- ' 2',)*' S,)'>*2,;-AI' 86.'D1?',186-0.',)*' >/1.*' 1',)*' ,)' 1-',)*' D*5 2^ 2 25'1',)*' S,)'>*2,;- ' 2' *+6'6')6?/*,' 2',)*' >1?C ,6,'M>1;2, X' 1';;2 60% ,' .' 21,'>*-,6 2'6.'.1?*' :;256- 62' 8-,*-.',)29',)6,')*',;0*0'6,' *2'8,)' ,)*' >*/*D-6,*0'4- 2.*;.',)*' -.,'=-1?1,*-'1',)*' * ^ 1-?6, 12' 2':;256- % 2' KN) .'26?*' .'?*2, 12*0' 6?125',)*' .,;0*2,.'1',)*' $2+*-. , '1' -6>18% ^ ,*-') .' -*,;-2' -1?I',) .';2+*-. , '6,'8)>)')*' .,;0^ *0' 1-',81' *6-.')*' D*>6?*'6'=-*.,'620'6'?129% 2' ,) .' =1. , 12')*' ., // 86.' 2' K 'D;,' .112' 6 ,*-')* 601=,*0',)*' =- 2> =/*.'1',)*' * 1 ?6, 12'620' 2' KR' 8*2,',1' & ,,*2D*-5',1' .;,;0 ' ,)*' 2*8' ,)>1/15A' &)/*' 2' & ,,*2D*-5')*'/ +*0' 2',)*')1;.*' 1' ;,)*-% 2' N')*' 86.'?2.,*-' 1'6' -1,*.,62,'>125-*56, 12' 2' *2' 620' 0.,25;.)*0' 1-' .' -* 1-?6,1- '[*6/% D1;,',) .', ?*' D*' 8-1,*'6'.?6//' 81-9'656 2.',)*' 2^ +1>6, 12' 1',)*' .6 2,.'I' ' 8'620' , C,81' =-1=1.. , 12.' *L=/6 2 25',)*' ;206?*2,6/ =- 2> =/*.'1',)*' * 1-?6, 12% , //' 2',)*'>1;-.*' 1' ,)*' *6-' N ')*' 86.' >6//*0'6.' =-*6>)*-',1' 6.>)6;' D',)*'>1;2>/1',)6,',182% 2' 1+% S N ')*' 86.' 6--*.,*0'D '1-0*-' 1'()1?6.' [6/6D6['D.)1=' 1' -C' /6;'620'>1;2>//1-' 1'9 25' *-0 2620'620'9*=,'6'=- .-' 12*-' -.,'6,' >6+6'.;D.*_;*2,/ '6,' -*..D;-5' -1?' 8)*2>*')*' 86.',69*2',1' *226% 2' *226'D.)1=' 6D*-'12*' 1',)*' /*60 25'1==12*2,.'1',)*' * 1-?6^ ,12'>120;>,*0',)*',- 6/1'D;,' S+6'86.'.112'0.^ >)6-5*0'620'-*,;-2*0',1' *2% .')*')18*+*-' 6, 12>*' -*.;?*0')*' -* 1-?6,1-'6>, + , ')*' 86.' -*6-C -*.,*0\' 2' NK'620')*/0' 2' =-.12'6,' *2';2,/ N % ;20*-',)*',/*' % ' $ ' '4 ' ' ' ;' ;% ' ' * ' ! ' ,',)*' >/1.*' 1',)*' *6-' SN')*' -*,;-6*0',15*,)*-' 8,)')' - *20'B1)622' /+*.,*-'8)1'/9*8.*' 0.,25;.)*0')?.*/'6.'6'-* 1-?*-'1';:256- ',1'>1;2,' 606.0 ' D- 25' 25' 8,)')?'6'/*,,*-' 1'-*>1?*206, 12'-1?' <*/62>,)12% 1-'.*+*-6/ *6-.' 606.0 ' *+6 '620' /+*.,*-' 0.=/6 *0' 5-*6,'6>,+,' 1-',)*' =-1=656^ ,12'1',)*' * 1-?6, 12% +6'8-1,*' 62'1;./2*' 1' ,)*' :;256- 62'5-6?2 6-' 1-'*/*?*2,6-'.>)11/.'I,' + %" '# 8',)*' -.,'D119' =- 2,*0' 2',)*' :;256- 62'/625;65*% ()./,,/*' D119'>12,6 2*0'D*^ .0*.',)*'5-6?2 6,>6/'26,,*-'6'..,6,*?*2,'1',)*' ;2^ 06?*2,6/=- 2> =/*.'1',)*' * 1-?6, 12'620')/0-*2.' =-6 *-.',69*2' -1?',)*'.?6//*-'>6,*>).?'1' ;,)*-% ()*>+/86-' 2' :;256- ' 2'8)>)'6' (;-9.)'6-?' .;==1-,*0',)*'>/6?.'1',)*' .122'1'U6=1/6',)*'-+6/ 1'9 25' *-0 2620',1',)*' :;256- 62'>-182'620' 2' 8)>)' 006.0 ' 0+6 '620' /+*.,*-' 8*-*' 12',)*' .0*'1' *-0 2620' 2,*--;=,*0',)*'/6D1-.'1',)*'-* 1-?^ *-.'620'0*.,-1 *0',)*' -1,*.,62,'.>)11/620'=- 2, 25C =-*.' 6,'$AC [5*,% 0+6 ')60',1'/*6+*' :;256- ' 620'86.'-*>1?2*20*0'D ' <*/62>,)12',1' <6-5-6+*' 4*1-5*'6'[*6/1;.'=6,-12'1',)*' * 1-?6, 12'8)1'182^ *0'/6-5*'=1..*.. 12.'2' :;256- % I *+6'12',) .'1>^ >6. 12' =6 0' 621,)*-'+ . ,'1' 8 ,[*-/620' 620',)*-*' 601=,*0',)*' + *8.'1',)*%:*/+*, >' * 1-?*-.'12',)*' 01>,- 2*' 1',)*' 1-0 .' ;==*-% 2') .' -*,;-2',1' :;256-')*' [*6/1;./'=-*6>)*0' .' 2*8'+ *8.% ()*' ;,)*-62' ? 2 .,*-.' 1',)*' 0 .,-> ,' 1' 6-+6-' 8)*-*' 606.0 '/+*0'>1?=/6 2*0'1',) .'>)625*' 1'+ *8.',1

/ ; ? 26, 25' ,)*' ,-; / ' D*/ *+ 25' 2_ ; -*-' 2') . ' .*6->)' 2,1' ,)*' ?*62 25' 1 ' -*+*/6, 12⅛ ( )*' D10 ' 1 ')- .^ , 62' , -; ,) ' D1,)' 6>, ' 620' 01>, - 2*' .' -*+*6/*0' 620' -*^ >1-0*0' 12>*' 1-' 6// ' 2' ,)*' >- =, ; -*.' 1 ' ,)*' /0' 620' *8' (*.,6 ? *2, †' 620' ,)*.*' >- =, ; -*.' >12., , ; , *' 2' *+*- ' 65*' ,)*' 21- ?' 1 '01>, - 2*' 620' ,)*' >- , *- 12' D ' 8) >)' 6// 2*8' *L) D , 12.' 1 '01*, A 2*' 6-*', 1' D*' , *. , *0⅛ 1' , -; ,)' >62' D*' 0*+*/1=*0' 62 ' ?1-*' ,) 62' 6' 2*8' ?62' >62' D*' >-*6,*0⅛ ; ' , ' .' +* '>/*6-' ,) 6, ' ,)*-*' ?6 ' D*' 620') 6.' D***2 ' 0*+*/1=?*2, ' 1 ')- ., 62' 01>^ , - 2*' 2' ,)*' .*2.*' 1 '>/*6-*-' 6==-*) *2. 12' 1 ' , ' 1 ' ,)*' =6-, ' 1 ' ,)*') ; ->) ⅛ ( )*' .> *2>*' 1 ' ,)*1/15 ' ?=/ *. ' ,) *' 6==/ >6, 12' 1 ') ; ? 62' -*6.12', 1',)*' 5 +*2' 6>, .' 620' 01>, - 2*.' 1 ')- ., 62 , †' -., ' ,)*' 6==/ >6, 12' 1 %-*6C' .12', 1' >- =, ; -*' M*L*5*. .X', 1' 20' 1 ; , ' 8) 6, ' , .' 01>^ , - 2*.' 6-*† 620' .*>120/ ' ,)*' ; .*' 1 '-*6.12' 2' >1C1-0 ^ 26, 25' ,)*.*' 01>, - 2*.' 2,1' .> *2, >' 1-?' M. ., *? X⅜ ' , ' 8 // D*' 1D.*-+*0' ,) 6, ' ,)*' 0*+*/1=?*2, ' 1 ' 01>^ , - 2* J' 6.' ,) ; .' ., 6, *0' .' +*- ' 0 *-*2, ' -1?' ,)*' ,)*C' ' ,) 6, ' ,)*' D/*' 5 +*.' 12/ ' ,)*' 5*-? .J' 1 '01>, - 2*' 1 ; , ' 1 '8) >) ' D ' 6' 2*>*..6- ' 1-562 >' /68 ' ,)*' 01>, - 2*.' ,)*? .*/+*.'6-*' 0*+*/1=*0⅜J' ( ) .' ?65*' 1 6 '5*-? J' .' +*- '6=, ', 1' ? ./*60⅛ +*2' '6' 01>, - 2*' 8*-*' 6' / +^ 25',) 25' . ; >) ' 6.' 6' 5*-?' . ' ' , ' .' , 1' D*' -*?*?D*-*0' ,) 6, ' 1+*2' 6' 5*-?' .' 0*+*/1=*0' D ' 6, , -6>, 25' 620' 6.^ . ? /6, 25' , 1' , .*/ ' ?62 ' 1-* 52' */*?*2, .' 8) >)' 6-*' 6-1; 20' , ⅛ ' , ' DA' 600 , 12.' -1?' 8 ,) 1 ; , ' 620' 0 *-^ *2, ' -1?' , .*/ ' ,) 6, ' , '5-18. J' M 126/0.12 ' # ' " ' 1' SX⅜

2' 01>, - 2*') 18*+*-' 6.' 2') ..1- ' 0*+*/1=?*2, ' .' =1, ' 6/86 .' . 212 ?1 ; .' 8 ,)' ?=-1+*?*2, ⅛ B ; ? 62' %6==-*)*2. 12' 1 ' 0 + 2*' , - ; ,)' .' .1?*, ?*.' 8-125' 6.' 8*// 6.' .1?*, ?*.'- 5), †' 620',) *') ., 1-A 71 '01>, - 2*.' 8) /*' ?=/ 25' 0*+*/1=?*2, ' 2' ,.' +*- ' 0*6' *.' 2^ >/ ; 0*.' +6- 6, 12.' 1 '- .*' 620' 6// 2') ; ? 62' .,6,*?*2, .' 1 ' ,)*' 12*' 0 + 2*' , - ; ,)⅛ ' - 5), ' ,)*1- ' 1 ' ,)*' 0*^ +*/1=?*2, ' 1 ')- ., 62' ,)*1/15 ' D ' 21' ?*62.' ?=/ *.' ,) 6, ' *6>)' /6, *-' 65*' ? ; . , ' 2*>*..6- / ') 6+*' 6' ; //*-' 620' 0**=*-' 9218/*05*' 1 '0 + 2*' ,) 25.',) 62' , .' =-*0*>*.^ .1-. ' * ,)*-' 6.' .=-*60' 6D-160' ,) -1 ; 5)' ,)*' D10 ' 1 ' ,)*' MG) ; ->) ' 1-' 6.' >*2, -*0' 2' , .' >) * ' , *6>)*-.⅛ & *-*' ,) .' 6' >12.*_ ; *2>*' 1 ' ,) .' ,)*1- ' ,) .' 6/12*' 81 ; /0' D*' 6, 6/ , 1' , ' ,)6+ 25' 21, 1- 1 ; ./ ' D*' 2' 1 , *2',) *' >6.*⅛ ; ' *+*2' 2' .> *2>*' 8) >)' .' .1' ? ; >)' /*..' 0*=*20*2, ' 12' ?1-6/' 2 /; *2>*.' 620' 8 ,)' 8) >)' ,)*' +6- *, *.' 1 ' >) 6-6>, *-' 620' **/ 25') 6+*' .1' / , ^ , /*' , 1' 01' ,)*' =-1 =*..') 6.' 2*+*-' D**2' ; 2 1-?' 620' ; 2 2, *--; =, *0† 8) /*' 2' =1*, - ' 2' ,)*' 6-, .' 2' =) /1.^ 1=) ' 8) *-*' ,)*' ; 20*-. , 620 25' .' 5-*6, / ' . 86 *0' D ' ?1-6/' 6 *>, 12.' 620' 0*- +*.' 6' ?6 2' =6-, ' 1 ' , .' . ; . , *^ 262>*' 620' *2*-5E7 -1?',) *?' ?62 .' >1 ; -.*') 6.' D**2' .1' --*5 ; /6-',) 6, ' 21,) 25' / 9*' 6' /68' 1 ' , ') 6.' D**2' 6.^ >*-, 6 2*0⅛ 1' , 11' ? ; .,' , ' 2**0.' D*' 2' ,)*1/15 ' 8) *-*',) *' .; DA*>, ' ?6, , *-' .' 0 + 2*', -; ,) ' 8) >)' >6221, ' D*' -*>* +*0' 2, *//*>, ; 6// ' ; 2/*..' , ' D*' 6/.1' -*>* +*0' ?1-6// ' , 1' ,)*' =; -*' -*>*=, 12' 1 ' 8) >)' 6//' >1--; =, ' **/ 25.' 1 '1 ; -' 26, ; -*' 6-*' 1==1.*0' 620' 8) >)',) * '6-*' =*-=*, ; 6// ' 6, , *?=, 25', 1' .1=) ., >6, *' 620' 0 .,1-, ⅛ ( ) ; . ') 6.' 1 , *2' >1?*', 1' =6..' ,) 6, ' ,)*' 2) *-, 62>*' /* , ' ; .' D ' 12*' 65*') 6.' D**2' ._ ; 620*-*0' 1-' 86., *0' 1-' 1- * , *0' D ' , .' . ; >>*..1-' .1' ,) 6, ' , 'D ' 21' ? *62.' 1/^ /18.' -1?',) *',) *1- ' 1 ',)*' 0*+*/1=?*2, ' 1 ')- ., 62' , -; ,) ' 8) *+*2',) *' /6, *-' .' A7.,*?' 1 ',) *1/15 ' ? ; .' , ' DS' ,) *' D*, , *-⅛ 1-' ,) *' 81-/0' .' 6/86 .' 8-*., / 25', 1' 0-68' ?*2' 686A7 -1?',) *', -; ,) ' 620' 8 // 1 , *2' =-*+6 / ' 6.' B6>1D' 0 0' 1+*-' ,) *' 625*/† 620' 8) *2' 6 ,) ' .' 6, ' 6' /18' *DD' 8) *2',) *' + . D/*' 620',) *' ? ?*0 6, *' 620' ?6, *^ - 6/ =-*01? 26, *' 2' ?*2 .') *6-, .' 620' ? 20.' 1+*-',) *' 2+ . D/*' ,) *' 0*6/' 620',) *' .= - . ; 6/' ,) *1/15 ' ? ; . , ' 2**0.' 08 20/*' 620' 0*>6 ⅛ ; ' 8) *2' ,) *-*' .' 6' -*^ + +6/ ' 1 ' 6 ,) ' ',) .' -*+ +6/' >1 2> 0*.' 8 ,) ' 1-' .' . ; 'CS >**0*0' D ' 6' =*- 10' V' *2*-5*, >',) 1 ; 5), ' 6' 0**=*-' 1-' >/*6-*-' 2. 5), ' 8 // D*' 56 2*0' 2' >*-, 6 2' =1-. 12.' 1 ' , -; ,) ' *. =*> 6// '6==-1=- 6, *', 1',) *' > -> ; ? . , 62>*.' 620' *L 5*2> *.' 1 ' ,) *' 65*' 620' 8) >)') 6+*' 21, ' *, ' D**2' .*, ' 1-,)' 2',) *-' ; /2*..⅛ ( ) ; . ', 1' > , *',) *', 81' ?1., ' ?*?1-6D/*' *L6?=/*. ' ,) *' , -; *' 01>, - 2*' 1 ',) *' (- 2 , 86.' D-1 ; 5), ' 1 ; , ' ?1-*' 0 ., 2>, / ' 2',) *' 1 ; -,) ' >*2, ; - ' ,) 6, ' 1 ' A ; . , >6, 12' D ' 6 ,) ' 2',) *' . L, **2,) ' ,) *' =-*+6/*2>*' 1 ' *--1-' 6>, 25' 2' D1,) ' 2. , 62>*.' 6.' 6' ?1^ , +*' 620' . = ; -', 1',) *' >/*6-*-' 0*?6->6, 12' 620' *L=1. ^ , 12' 1 ' ,) *' , - ; ,) ⅛ ' ,) *' .6?*' , ?*' ,) -1 ; 5)' ?62 .' 6=, 2*. .', 1' 1+*-/*6=') ?.*/ ' 620', 1' *L655*-6, *' ,) *' ?^ =1-, 62>*' 1 ' 8) 6, *+*-' ?6 ' D*' *2565 25') ?' 6, ' ,) *' ?1^ ?*2, ' 62' 65*' 8) >)') 6.' D**2' 6//18*0', 1' D*) 1/0' 6' -*.) ' , - ; ,)' ?6 ', 11' *6. / ' 0*=-*> 6, *' 620' /*, ' ./ = ',) *' , - ; ,) .' 8) >)' , .' 62>*.,1-.') 6+*' D*_ ; *6,) *0' , 1' , ' 8) >)' =-12*2*..') 6. '*+*-' D**2' 6' ?6 2' .1 ; ->*' 1 ') *-*. ⅛ ( ) ; . ' 12' 6// . 0*. ' 8*' 6-*' >12, 2 ; 6// ' -*? 20*0' 1 ' 1 ; -' 2) *-*2, ' 8*692*.. ' 620') 18',) 6, ' 8*692*.. ' .' *+*-',) *' ?1., ' ?.>) *+1 ; ' 8) *2' 8*' 6-*' D*5 ; /*0' 2,1' 62> 25' 1 ; -. *+*.' . ,-125† 620' 8) /*' 8*' 6-5') *-*D ' *L) 1-, *0' ,1' D*' 0 / 5*2, ' 2' . , ; 0 25',) *' 8) 1/*') . ,1-A7' 1 ' ,) *') ; ->) ' 620',) *' 8- , 25. ' 1 ') *-' >) * ', *6>) *-.' 2' *+*-A' 65*' / *.,' 8*' 0-1=' 620' /1.*' 62 ' =1-, 12' 1 ',) *' =-*> 1 ; ' - >) *.' 8) >)',) * ') 6+*' D**2' 6//18*0', 1' 8 2' 1-' ?62^ 9 20' 8*' 6-*' ., // ?1-*' .,-125/ ' 60?12 .) *0', 1' >1?^ =6-*' *+*- ' =-1=1. , 12' 620' *+*-' .>) *?*' 1 ' =-1=1. ^ , 12. ' *7*- ' =-1=1. , 12' D1,) ' 6.' , ' .,620.' D ' ..*/ ' 620' 2', .' -*/6, 12', 1',) *' 1,) *-' =6-, .' 1 ')- ., 62', -; ,) ' 8 ,) ',) *' 12/ ' >6212' 1 ', -; ,) ' ,) *' 8- , ,*2' & 1-0' 1 ' 410 ' M : 6-*' "1 ' ' " ' 1' 21, *' 4X

2' 8) 6, ') 6.' D**2' >6//*0',) *' ' * ' .>) 11/ 1 ' 4*-?62',) *1/15E7,) *-*' .' 6' 6/.*' 01>, - 2*' 1 ' 0*+*/^ 1=?*2, ' 8) >)' .' .,6, *0' 6.' 1//18.' 2') 6?D*-. .' 6 A' % ' M. ⅜ + ⅛ / 3 á >>1-0 25', 1',) .' .>) 11/ ')- ., 62' 01>, - 2*' .' 21,) 25' */.*' ,) 62',) *' L^ =-*.. 12' 1 ',) *') - ., 62' >=2. > 1 ; .2*..' 6, ' 62 ' , ?*⅛ >- =, ; -*' ?6 2, 6 2.' 21' =*-?62*2, ' 1-' 6 ; ,) 1- , 6, +*' -*^ /6, 12', 1', ⅛ ' , .' 6// =-15-*.. ' 6' >12, 2 ; *0' /; L' 8 ,) ^ 1 ; , ' 62 ' 21-?6/ .,6206-0' 1-' *L=-*.. 12⅛ >- =, ; -*' ?6 ' D*' , .' =- ?6- ' *L=-*.. 12' D ; , ' , ' ?6 ' /*6+*' , ' 1 ; 2,6 2C) *60' 620' 2',) *' >1 ; -.*' 1 ', ?*' . . ; *' 2' 0*+*/^ 1=?*2, .' =/1, ' 2*>*..6- / ' D1 ; 20', 1' >- =, ; -*7' 7 ; , ' 6>^ >1-0 25', 1',) *' + *8' 6D1+*' .*, ' 1-,) ' >- =, ; -*' -*?6 2. ',) *' 6D.1/ ; , *' 620' >1?=/*, *' -*+*/6, 12' 1 ') - ., 62' 01>^ , - 2*' 8) >)' .' >12, 2 ; 6// ' ; 2 1/0*0' D_, ' 2*+*-' *L) 6 ; . , ^ *0' /AX' 2_ ; - ' 7D*A7120 8) >)' - 5), ' -*6.12' 620', -; ,) ' 2*+*-' , -6+*/⅛ ( )*')- ., 62' -*+*/6, 12' 21, ' 12/ ' 60^ ? , .' 1 ' D ; , ' 0*?620.' >12.,62, ' >- , > . ? ' 6.') *' ?*62.' 1 ' ; 2 1/0 25' ?1-*' >1?=-*) *2. +*/ ' 620' =*- *>, / ' , .' >12, *2, .' D ; , ' , ' -*?6 2.' 2' , .*/ ' ,) *' >12. ; ? ?6, *' *L^ =-*.. 12' 1 '6// .= - , ; 6/, - ; ,) † 620' , ' .',) .' +*-A!' =*>, ^ / 6- , ' 1 ',) *')- ., 62' -*+*/6, 12',) 6, ' ?69*.' .' >12^ , *2, .' >6=6D/*' 1 ' >12, 2 ; 6/ 620' *+*-' -*.) ' 0*+*/1=?*2, ⅛ , ' .' A ; . , ' D*>6 ; . *' , .' . ; D..62>*' .' 0 + 2*' ,) 6, ' , .' 01>^ , - 26/' *L=-*.. 12.' 2*+*-' >*6.*' , 1' 2, *-*., ' 620', 1' 62^ . 8*-', 1',) *' 2*>*.. , *.' 1 ' . ; >>*.. +*' , ?*.⅛ ,) *-' -*^ / 5 12. ' 8) /*' >6=6D/*' 1 ' 0*+*/1=?*2, ' -*6>) ' 6' =1 2, 8) *-*',) * ' >*6.*', 1') 6+*' 62 ' ; -,) *-' / + 25' ?*62 25' 620' =6.. ' 12',) *' 12*') 620' 2, 1' ?*-*' =1=; /6-' ? ,) 1/15 ' 1-' 2, 1' 62' *.1, *-' ; =- *.', / -60 , 12⅛ ( )*' D*>1?*, -62. ? ; , *0' 2, 1' =1*, - ' 1-' .1?*' 1-0 26-A7' =-10 ; >, ' 1 ' =) /1.1=) >6/ .=*> ; /6, 12⅛ + / [6, 12' 1+*-, 69*.' 620' . ; ==/62, .',) *?⅛ ; ', ' .' 1 ',) *' 0 ., 25 ; .) 25' 0 + 2*') 6-6>, *-' 1 ')- ., 62 &',) 6, ' , .' 01>, - 2*.' =1..*.' 6' f0C' , 6/' *+*-C-*2*8 25' =18*-' >6=6D/*' 1 ' 606=, *, 12', 1',) *') 5) *.', 1-?.' 1 ') ; ?62' > + / [6, 12' 620' ; // 1 '*2/ 5), ^ *2?*2, '620' 5 ; 062>*', 1',) *' ?1., '60+62>*0' 2, *// 5*2>*⅛ ( )*' 0*+*/1=?*2, ' 1 ')- ., 62' 01>, - 2*.') *-* 1-*' .' 21, ' ?*-*/ ' 6' . ; DA*>, ' 1 '>; - 1 ; .' 620' ?=1-, 62, ' . , ; 0 ' 2' ,) *' =6., ' D ; , ' 1 '5-*6, ' 620' . 52 >62, ' 2 /; *2>*' 1-' ,) *' =-*. *2, ' 620',) *' ; , ; -*⅜J

' N⅛ *-, 6 2' 1?62 . ' + (.*-.') 6+*' -*>*2, / ' ?60*' ; .*' ,) *' 01>, - 2*' 1 '0*+*/1=?*) , ' , 1' + 20 >6, *' ,) *' ,) *1/1^ 5 ' 1 ',) 6, ') ; ->) ⅛ ( )*') 1/0',) 6, ' ,) *' >- =, ; -*.' 01' 21, ' >12, 6?' ,) *' *2, -*' -*+*/6, 12' 1 ' 410', 1' ?62 ' D ; , ') 6, ' -*+*/6, 12' .' -*>*+ 25' 600 , 12' 620' 5-60 ; 6// ' D*>1? 25' >1?=/*, *' D ' ,) *' . ; >>*.. +*' 0*>. 12.' 1 ' ,) *') ; ->) ⅛ ( ) .' + *8') 6.' D**2' .*, ' 1-,)' D ' <=D/*-' 620' 8' ,)' .=*> 6/ .9 // " ' B⅛ : ⅛ *8 ? 62' >6 ' ' " ' ' % ' ' " ' \ ⅛ ⅛ Q N' Q+1hX⅛ , .' 5-1 ; 20' . ',) k ', ,) *' -*+*/6, 12' 5 +*2' 2',) *' D/*' &6.' 2, *2, 126// ' 2>1?=/*, *' 620' 1-?.' 62' 2>) 16, *



, ' 620' ,) ; .' 6/.1' 410') ? .*/ ' >1?*.' ,1' *L .,' 2' ,)*' 1-?' 1 ',)*' 5*2*-6/) ; ?62' >12.> 1; .2*..' ,)*' !81-/0C 0*6 ',)*' .*/ C?62 *.,6, 12' 1 ',)*' 0*6' 1 ' 410 ' 8)1' .' 6,' 12>*' ,)*' ?62 *.,6, 12' 620' ,)*' ?1?*2,' 1 ',)*' =-1>*..' 1 ' ,)*' 0*+*/1=?*2,' 620' 6>, ; 6/ [6, 12' 1 ') .' . ; D..62>*' 6.' ,)*' 6D.1/ ; ,* I' .= - ,J' M : *-[15 ' 5 26 =J # *G! 'SKRX' 1-')6.' 6, 126/ . ?' 6 /*0',1' .* [*' ;=12' 620'=*-+*-,',)*')- ., 62' >12>*=, D2' 1 '0*+*/1=?*2,' 1-' ,.' ; .*' *6+ 25' 1 ; ',' 1 '+ *8' 620' 521- 25' ,)*' 26, ; -*' 1 ')- . 62 , '6.' 6'/ * ' ,'6>9218/*05*.' 21'/ *C=- 2> ^ =/*' 2')- ., 62 , ' >12.*_ ; *2,/ ' D-*69.' 8 ,)' 6// 5*^ 2*, >', -60 , 126- '1-') .,1- >6/'=-1>*..*.' 620'=-1=1.*.' 6' =-15-*..' 1 ' ?1-6/ *2/ 5),*2?*2,' 8) >)' .)6// 60^ +62>*' D* 120')- .,',)*') ;->) '620' *+*/6, 12' ^ =-1>*..*.' 620' =-15-*..' 8) >)' ,' >6//.' 0*+*/1=?*2,' ..6-, 25' 2' -*+1/ ; , 12 ' >62' =-*.*2,' 12/ ' 6') .,1- ' 1 ' 0*,*- 1-6, 12' 620' >1--; =, 12' ()*')- ., 62' 0*6' 1 ' 0*+*/1=?*2, ' =-1=*-/ ' ; .*0 ' /*6+*.' 21' -11?' 1-' .; >)^ / 9*' -*+1/ ; , 12' 620' 2*56, +*' =-15-*..' ; D.,62, 6// ' 2,1' ,) .' .26-*' -1 ' ; .)')6.' 6//*2' 2' ,)*' 1,)*-8 .*' A ; .,' 620' +6/ ; 6D/*' 0 .>; .. 12' D ' 8) >)')*' 2,-10 ; >*.') .' 81-9' 12' ,)*' *. ; --*>, 12' I& + ' 9 1' =' 7KRX' 3()*' 1?62' 6,)1/ >' >12+*-, ' D " ' # ' 7 1')6.' 6/.1' 6' ,)*1- ' 1 ' 0*+*/1=?*2, ' 8) >)')18*+*-' .**?.' ,1' D*' -6,)*-' 6' 0*+*/1=?*2,' 2' ,)*' .=)*-*' 1 ' 0*6.' ,)62' 1 ' 6>,. ' 1 '/ *' ')*2>*' ' .' -6,)*-' ?*>)62 >6/' 620' =) /1.1=) >6/ ,) 62' 1-562 >' 620')- ., 62' ,' ?1+*.' ?1-*' 2' ,)*' -*5 12' 1 ' . ; DA*>, +*' ?*2,6/ =-1>*..*.' ,)62' 2' ,)*' 1DA*>, +*' *..*2, 6/ / *' 1 ')- ., 62 , ' .' >12.*_ ; *2,/ ' 1 ' / ,,/*' 6>, ; 6/ 6>^ >1 ; 2,' * ,)*-' 6.' 6' =1/*? >' 656 2.,' ,)*' -1, *.,62,' 0*6' 1 '0*+*/1=?*2,' 1-' 6.' L 25' 12' 6' -?*-' 620' ?1-*' >12^ . .,*2, ' D6. .' ,)*' 015?6.' 1 ' ,)*' 1?62' 6 ,) '1+*-' 2,1' 8) >)')*=6..*0' 8) /*') .' 81-9' M8) >)' 6>, ; 6// ' ?6-9^ *0') .' ,-62. , 12' 86.' 51 25' ,)-1 ; 5)' ,)*' =-*..' I6 ' " ' ' % ' ' " ' ' 81' ()*' 1?62' ,)*1- ' >62' >12>* +*' 1 ' 21' 0*+*/1=?*2,' *L>*=;' 2' ,)*' 86 ' 1 ' =-15-*..' ,)6,' 2**0.' 6.' .;>)' ,1' D*' 1 ; ,86-0/EI7 ?*6.; -*0' D ' -* *-- 25' ,.*/ ' ,1' 62' 1 ; ,86-0' 2 6// D/*' 6 ; ,)1- , ' 2',)*'=1=*% ; ,' '' .;>)'0*+*/1=?*2,'-*_ ; -*.' 21' ' 2 6// D/*' *6-,)/ ')*60' 1-' ,.' 0 -*>, 12' 620' >12^ 0 ; >, 'A ; .,'6.' / ,,/*' 6.' 6' / + 25' 169' 2**0.' ,1' D*' D ; /, ' ; =' D ' / 2*' 620'>1?=6..% 2' 6 ; ,)1- , ' 1 ',) .' .1-, ' .' ; =^ =1.*0',1' .' ; =*-.*0*',)*' -**' 81-9 25' 1 ',)*' 2,*// 5*2>*' 620' 8 // 1 ',)*') ; ->)' ,.*/ ' 81 ; /0' D*' ,)*' .1 ; ->*' 1 ' =*,- 6>, 12' 620' ..6526, 12' 12/ ' 21,' 1 '0*+*/1=?*2,% ' ( ) .' ?=/ *.' -**01?' *,) >6/' 6>, + , '/ *' =1 .*0' ; =12' ,.*/ '6.' 6' =- 2> =/*' 620' >*2,-*% ' .'A ; .,' ,)*'.,6D / , ' . .,*?' 8) >)' 2' *+*- ' .)6=*' ,; -2.' 2,1' ?*>)62 .?' 620' /*60.' ,1' =1=*- J' M *+ 2' ' 5 1' ' N' X% 7* ' D*. 0*.' ,)*' 81-9.' > ,*0' 2' ,)*' >1 ; -.*' 1 ' ,) .' 6-, >/*' (-*2>) ' # ' Q C S' /*>, ; -*' + 1-0 .' -" ' ' D ' =- / ' Q ' 6-,% + 1 : 6?=0*2' ; % ' 1-' QNK' /*>,% !+ 1 16?*.' ' " "' '& =$ ' - ' >)6=' L 1 -6 9' , ' ' 7 ' M ' 1 QS X' =' KKS . %1 >)6 ' " ' ' " "' # ' M) /60*/% Q S' K?1X1 6 "' 5 '+6- 1 ; .' 6-, >/*.' 2' +1/.% + ' + ' L' L 1 ; 22 25)6?' # ' -" ' ' " ' >,% QS '6-,% +1 & "!' ' -" !5 ' >,% QS '6-,% +1 126/0.12' '# ' ' " ' ' " ' ! *+ /' MD' ,0V 1d1>' 1 ' 8) >)' ,)*' 25/ .)' ,*-?' .' D ; ,' 6'+6- 6, 12X% ()./*-?' . 52 *.' 12*' 8)1',-6+*.^ , *.' 6 D,)*-.' >)6-6>,*-' 1-',)*' =; -=1.*' 1 ' 2A ; - 25' ,' 6' '620' .' .1?*. ?*.' 6==/ *0',1' 62 ' >6/ ; ?2^ 6,1-' *% 5% 6' 51.. =C?125*-' M ' (?% ' 1 K' (?% ' NT' (, ; .' ' NXT' D ; ' ' .' .=19*2' *.=*> 6// 'D ' 86 '1 ' *? 2*2>*' 1 ' ,)*' 6->)' *2*? '1 ' ?62 .' .= - ,; 6/' 2,*-^ *.,' 8)1>)' ,)*' B*8.' -*=-*.*2,*0' 6.' >12, 2 ; 6// ' ?^ =; 52 25',)*' >)6-6>,*-' 1 '.6 2,.' D* 1-*' 410' M>1?=%B1D' ' ST' *+% L ' 1 U*>)% ' X% ** $! 2' ' *,% 'Q ')*' .' *L=-*../ ' >6//*0' ,)*' 6>>; .*-' I =' 6%>1>X 1 ',)*' D-*,)-*2 J 8 ,)' 6' -* *-*2>*',1' 1-*2. >' ; .65*.% ** ! ()*' 81-0' .' 1 ; 20' 2',)*' =/ ; -6/ 2 ; ?D*-' 620' 60A*>, +*' .*2.*' 2' ' (?% ' 1 K' (?% ' NT' 620' (,' 7% 2' 6// 1,)*-' >6.*.' , ' ; .*0 8 ,)' ,)*' 6-, >/*' 6.' 6' 0*.>- =, +*' 26?*' = ' 6,62 ' *L^ >*=; ' ,)6, ' 2' B1)2' E ' ' ,' .' 6==/ *0',1' B ; 06.' M6.' 6,62J',1' *,*-' 2' < 6,,% L!+ ' KNX ' D*>6 ; .*' ,)* ' ' ,)*' 12*' =*-?62*2,/ ' 620',)*' 1,)*-' 1-',)*' ?1?*2, ' ' 8*-*' 01 25' 6,62 .' 81-9% M 2' B1)2' L ' N ' .**' 2C 5*/)6-0 .' ' -% R 1' : 62*' $ " ' =% C 1' 12' : *D% ' ' 212% ' ' ' ' 41,,7/ Q 1' *.,?622 ' ' ' ' ! ' Q ' 4 -A =)% Q SX% ()*' 26?*' 0*.>- D*.') ?' 6.' ./620*- 25' 410',1' ?62 ' 620' ?62',1' 410' **' 5 ! ()*' 1 ' 1 ' >1 ; -.*' 6' =6-,' 1 ',)*' 5-*6,' 81-9' 1 ',*?=,6, 12',1' *+ 1' 620' .' 21,' 12/ ' *L*?=/ *0' D ; ,' //; .,-6,*0' 6.' ,1' ,.' 5*2*-6/ 26, ; -*' 620',*20*2> 'D ',)*' 26--6, +*' 1 '4*2% % & *' 20',)*-*',)6, ' ,.' *..*2, 6/ >)6-6>,*-.,>' .' ,)*' -*=-*.*2,6, 12' 1 ' 410' 6.' 62' 6-D ,-6- '620' .*/ .)' -; /*-' .**9 25') .' 182' 5110' 620' 21, ' ,)6, ' 1 ') .' >-*6^ , ; -*.% ()*' * *>, ' .',1' . , -' ; =' 2' ?62',)*' .= - ,7 ' -**^ 01?' ,1' .**9' 6' 62> *0' 20*=*20*2>*1' 620' ,' .' D ; ,' 6' ./ 5),' .,*=' ; -,)*-',1' ?=; ,*' 6/.*)110' 1-' >-; */, ' ,'1 410% ()*' .; >>*..' 1 ',)*' 0*+ / .' ./620*-' .' .**2' 21,' 12/ ' 2',)*' .>- =, ; -6/ 26--6, +*' 1 ',)*' 6// ' D ; ,' 2',)*' >1--; =, 12.' 1 ' ?1., ' ? ,)1/15 *. ' 620' *. =*> 6// ' 2',)*')1-- D/*' 21, 12' 1 ',)*' 0 + 2*' % ' 1-' *2+AW 8)>)' -62',)-1 ; 5)' .1' ?62 'M.**' *% 5% : *-10' ' NKT' + ' SX% ()*' .6?*' ./620*-' .' ?=/ *0' -6,)*-',)62' *L= ..>0' 2' ,)*' ,*?=,6, 12' 1 '1 ; -' 1-0' 620' .' 1+*>1?*'D ',)*' 6 ,)' 8)>)' ,-; ,..' 2' 410 .' /1+*' *+*2' 8)*-*' ,.' . 52.' ?6 ' D*') 00*2' -1?' ,)*' * *%M>1?=' ,)*' ; 2?6.9 25' 1 ' 6' . ? /6-' ./620*-' D ' *,*-' 2' >,.' +' X% "! ()*' 1,)*-' !81-9' ,)*' ./620*- 25'1-'6>>; . 25'1 '?62' D* 1-*' 410' 6.' , ' ? ; .' 26, ; -6// 'D*' ; 2 2,*// 5 D/*' ,1' ; .% ()*' //C .** 25' B ; 05*' >62' ' 21' 6>>; .*-' 620' ,)*' //C ; -*' I' >1 ; /0' ,I ? 5),' .**?')6+*' 21' 2,*->1 ; -.*' 8 ,)' ,)*% + /' 2*' ; .' 2',-; ,) ' ,)*' ; .*, 12',1 ; >)*.' 12',81' ? .,*-*. ' ,)*' -*/6, 12' 1 ',)*' 2' 2 ,*',1' ,)*' 2 ,*' .= -^ ,' 620' ,)*' =*-? .. 12' 1 ',)*' *L .,*2>*' 1 ' *+ /' ; 20*-' ,)*' 51+*-2?*2,' 1 ') ?' 8)1' .' ,)*' 4110%J' .' 6' =6-,' 1 ',)*.*' ,' ? ; .,' D*' + *8*0 ' ,1',)*' /6,,*-' ..=*> 6/C / ' ,' D*/125.1' 620',) .' /6,,*-' 8) /*' ,' .' ,)*' 5-*6,' ? .,*- '1 '6// ' .' 6/.1' 12*' 2' 8) >)',)*' 6>,.' 6-*' =-1+*0' ,1' ; .' D ' 2>12,-1+*-, D/*' *+ 0*2>*% ' - ? ,)' .% +% ** ()*' 81-0' 0*+ /J' 6/.1' 1 ,*2' .,620. ' D ; ,' ?=-1=*-^ / ' 2' 1 ; -' +*-. 12' 6.' 6' -*20*- 25' 1 ' % ' 62' ?=; -*' .= - ,' -1?' ,)*' 1,)*-' 81-/0' 6>,75' ; =12' 6') ; ?62' D*^ 25% ** $! 2' *+% L+ ' ' ,)*' 81-0' ,-62./6,*0' '0*+ / 7 .' I ('" (8' 1-0 26- / '6' D ; ,' -*20*-*0 '.6, -J' ' .6% L 'K 1' LLL + ' 1' =-1D6D/ '6// ; 0 25' ,1',)*' = '-*. *?D/ 25')*C516, . ' . ; ==1.*0',1' / +*' 2' 0*.*-,. ' 620' 8) >)' 8*-*' 62' 1DA*>,' 1 ' 01/6,-1 ; .' 620' D*6. , / ' 81-.) =' 6?125',)*')*6,)*2% ** # ! ()*',*-?' -*20*-*0' 0*+ /J 2' *; ,% LLL ' 1' .6% *+ 'N ' .' I " =-1=*-/ ' ' *=, '620' /5% = 8' 62' ' . 2>*',)*' B*8 .' -*56-0*0' 01/.' 6.' 0*?12.' ,)6, '>6; .*0',)*?. */+*.',1' D*' 81-.) ==*0' D ' ?*2% ** ? #! ()*' D*/ * ' 1 ',)*' : *D-*8.' 0182',1',)*' 6D /12 62' *L /*' .**?.' D ; ' 0 ?/ ' ,1')6+*' -*>152 .*0' * ,)*-' 6^ ,62' 1-' 06*?12.' 6,' /*6.,' 6.' 6' 015?6, >' % =1-')60' ,' 62' 1>>6. 12' 1-',)*?' . 2>*' ,' ,-*6,*0' ?1-6/ *+ / 6.' 6' =-1=*-/ ') ; ?62' 6>,' M>1?=% 4*2% X' 620' 6/86 .' 6.' .; DA*>, +*' 620' >12M *,*' D ; ,' -*56-0*0' ? . 1-,; 2*' 6>^ >1-0 25',1' ,*/*1/15 >6/' 6L 1?.' 6.' 6' =; 2 .) ?*2,' 0*^ .*-+*0' 12' 6>>1 ; 2,' 1' . 2' 6,' ,)*')620.' 1' 6' - 5),*1 ; ' 410' 8)1' 2 / >,*0' ,' *.=*> 6// 'D ' ,)*' 65*2> ' 1 '12*' 1,') .' 625*/.' MK' 6?% LL + 1' >1?=% K' 25.' L L ' N X' 620' 86.' 6>>1-0 25/ '/119*0' ; =12' 6.' ,)*' =-1=*-' 6 ; ,) 1-' 1 ' *+*- ' 6 / >, +*' 0 .=*-6, 12' M ?1.' ' SX% ==6^ - , 12.' 8*-7=6-,' 1 ',)*' =1=; /6-' >-**0a' ,)*-*' 8*-_ ' D*^ 25.' 2 ? >6/',1' ?629 20' 2)6D , 25' .1/ , ; 0*. ' D ; ' ,' 2=,' *,' 601=,*0' 2' ,)*' 6..1> 6, 12' 1 '-*/ 5 1 ; .' 0*6.% ** / ! ()*' [6[*/ M _ %+%' .' ,)1 ; 5),' D ' ? 6 ',1')6+*' D**2')*/0',1' D*' . ; >)' 6' 0.*?12' *,' ' 8*' 5-62,' *+*2' ,) . ' ' .., // -*?6 2.' D ; ,' 62' .1/6,*0' D* 25' 12*' ? 5),' 6/?1.,' .6 ' 6' ?*-*' / , ; -5 >6/' 0*6% **+*-,)*C

/*..' ,' >6221,' D*' 0*2 *0' ,)6,' ,)*.*' -*=-*.*2,6, 12.' 8*-*' ,,*0',1' .*-+*' 6.' 2,-10;>,1- ' ,1' 015?6,>' 0.*℃ ?121/15 ' 8)*2',)*' D*/ * ' 86.' *+*2,;6// '>6-- *0' 1;,' ,1' ,.' ;// >12>/;. 12% ()*' =*- 10' 1',)*' *L /*' .',)*' , ?*' 1',) .' 0*+*/1=?*2, I' 620' 8)*2' 6/.1',)*' <*01℃ *-. 62',*2*,.' 1')- ?62' 620') .' *?626, 12.' >6?*' 2,1' 0 -*>,' >12,6>,' 8 ,)',)*' .-6*/ , .)' 6 ,)',)* ' *L^ *-,*0' .1'=18*- ;/ 62' 2 /;*2>*' 2' 0-68 25'1;',)*' 26^ , 126/ >12>*=, 12.',)6,',)*' ?.)6.=620.' 1',)*' U*20℃ +*., 7 M_%'+%' 6-*' .,-125/ '-* /*>,*0' 2',)*' B*8 .)' 62℃ 5*/#/15E7 6-/ *-' 20**0' 6' 6,62' .1' >6//*0' D ' 86 ' 1 '*? 2*2>*' 1>>6. 126// '6==*6-.' 6.',)*' ?6/ > 1;.' 6;^ ,)1-'1 ');?62' ? . 1-,;2*' D;,' 12/ ' ;20*-',)*' 0 + 2*' .;=*- 2,*20*2>*T *% 5%)*' 2> ,*.' 6+ 0',1' 6' . 2 ;/ 6>,' M ')-12% LL ' XT' >6..' .;.=>12.' ;=12' B1D .' =*-,' MB1D' 'S' ._%X' 620' 8 ,)' B*)1+6) .' =*-? .. 12' 2 / >,.' ;=12') ?' 6' /1,' 5-60;6// ' ?1-*' .*+*-*',1',)*' ;,?1.,' =1 2,' 1' *20;-62>*T 6==*6-.' 6.',)*' ?*206> 1;.' ?℃ =*6>)*-' M1') * %' *+' L ' X' 1',)*') 5)℃=- *.,' B1.) ;6' D*1-*',)*' 25*/ 1' 410' D;,' 0-68.' ;=12') ?^ .*/',)*' 0 + 2*' ?6/*0 >, 12' MU*>)% ' ' . %X% *,' 2' 6// ,) .')*' .' 6.' / ,,/*' / 9*',)*')- ?62' 1',)*' U*20℃ +*.,6' M)10*' '$ 1' =% QK . %T <6,,)6 ' H*℃ " ' 0% &% 1' ' ' ' ._%T -*;[*-' $ (P " ' ' X' 6.' 62' 20 *-*2,' =-1.*>;, 25' 6,,1-2* ℃ 5*2*-6/ 1-' A;0 > 6/ .;=*- 2,*20*2,' >1? ? .. 12*0' D ' B*)1+6)d' //C8 //6>,;6,*.') ?'620' 0*. -*' 1-',)*' ? .℃ * '1',)*' = 1;.% 6*?12.' 6-*' 21,' ?*2, 12*0' 2',)*' >6212 >6/ D119.' 1',)*' /0' (*.,%' ;2/*..' M8 ,)' ?62 ' 2,*-=-*,*-.X' 8*' ;20*-.,620' ,)*')1.,' 1',)*') 5)' %12*.J' 2' .6% LL + 'K' M 7V6F/ ' '" ' >1?=% 62%+ ' X'1',)*'+ /625*/.'M>1?=% .6% L + KX' 620' 2,*-=-*,',)*' 8)1/*' =6..65*' 6.' -* *-- 25',1' ,)*-';=;2.)?*2,% **) $ f 2',)*' =1>-A=)6' ,)*' 1/0' :*D-*8' 21, 12' 1 'B*)1+6) .' 625*/.' 8)1' 6//1, 0 .6.,*-'1>>;-.'D;,'=6-, 6// '620' 2'>6.*' ? .)6=' 1+*-^ ,69*.',)*' *2*? *.'1',)*' =1;.',)*' 625*/.' 6-*' 6//;0*0' ,1' 6.'6;L / 6- *.' 620' - *20.'1',)*' /6,,*-'MK' <6>% L + KN .%X' 6/.)1;5)' 8*' ?6 '.*6->)' 2'+6 2' .;>)'=6..65*.' 1-' 6 . 25/*' ?*2, 12' 1 '0 *?12.% 2',)*' 1,)*-')620' ,)*' D119.'1' (1D 6.' 620' 6-;>)'6-*' ;// 1 '-*=-*.*2,6// 0*0' O ' ') % ' 1-' V ' ' ' B1)2' L 'N T' L + 'N T' L+ ' T' K' 1-% + ' T' =)% 'KX' 6/,)1;5)' 0*., 2*0',1' 6' ;,;-*' *6- ;/ .*2,*2>*' MK' *,% ' T' B;0*' SX' 8)*2')- .',)6// 6==*6-',1' 1+*-,)-18' ,)*' 9 2501?' 1' 6,62' M 'B1)2' 'QXT' 20**0' 6,62')6.' 6/-*60 ',)-1;5)') ?' -*>* +*0') .' >120*?26, 12' MB1)2' L 'N T' L+ ' T' >1?=% : *D% ' X% ()*' /6,*-' .=*>^ ;/6, 12.' 1',)*' B*8 .' 12' ,)*' .;DA*>,' 1' 6,62' 620' 06*^ ?12.' ?6 'D*' .**2' 2' .*2?*25*-'>6 +!' D "!' ' >% Q' =% Q' ._%X% ()*' (6-5;?.' 1 ,*2' 2,-10;>*' 6,62' 2,1',)*' %'(%',*L,T 2' 6>,' 8)*2*+*-'62' 1==1-^ ,;2 , ' =-*-.*2,.' .*/' M*% 5% B126,)% 12' L10% LLL ' RT' *+% L' KX% 2',) .' .;DA*>,' .**'*.=*> 6// ' <6 ^ *-' # ' ' 'MK0' *0% (;D% Q XT' 0*' ' ' ' M(-6A% 60')% NRX' .*>,' '=% SN' ._%T >)? 0,' 2') .' ; '! ') ! !'6 > ' K' ._%T >)? 0,' 2' .12' 5',)*' *8%C(*.,% 0>*?121/15 ' 8 ,)',)*' U*20 >' D119.JXT' & 2[*-' ' ' ' 7!' -!'% % ' M ,*D% Q K' =.% K ' 2>1?=/*,*X' T <6,,)6 ' 5 1' '&% ' B' 'RQ' ._%T 1/2'; !' -" ! ' KN' ._%T 'SR' ._%T KKR' ._%T <% ,;6-,' 2',)*' ; 9 " '$ ' M Q NX' ' K' ._% ' 7& 2*-' ' NQN% **' g > . g ! *+ /C8 1-.) ==*-.%' **' F - ! *+1,*0',) 25% ** ' ! *+1,**' 2',)*'=- ?6- '.*2.*' 1',)*' 81-0' *62.' 6'=*-.12' 8)1// '5 +*2';=',1'6>,.' 1 '= *, '620' 0*+1, 12' D;,' ,' .' ;.;6/E7 ;20*-.,110' 2' 6' D60' .*2.*',1' 0*21,*' 6' D 51,' 1-' .;=*-.,, 1;.' =*-.12 ' 12*' 600 >,*0' ,1' *LCF >*.. +*' 620' .*/ C ?=1.*0' -*/ 5 1;.' *L*-> .*.%J ' 7 ;>9' -" !' ' .%+% *+1, 12' M 6,% ' 5 +*' ;=' 12*.' .*/' 8)1// ',1'62 '1DA*>,X% ' ,' .' *?=/1 *0',1'?*62' *,)*-' ',)6,'-*/ 5 1;.' " '1',)*' ? 20' 8)>)' .' 1,)*-8 .*' >6//*0' 0*+1;,2*..' 1-' 620' ?1-*' >1?2?12/ ' K',)*' 9 % '1' .;>)' 6' .,6,*' 1' ? 20' 2'=6-, >;/6-' 6>,.' 620' 2.,62>*.' 1' 6' -*/ 5 1;.' 26,,;-*% ' .= - ,' 1 '0*+1, 12' .' 12*' 1',)*' 5-*6,*.,' D/*.. 25.' 620',)*' 862,'1',' ,12*

1 ',)*' 5-*6,*.,' ? . 1-,;2*.' 8) >)'6')- ., 62' >62' *L^ =*- *2>*% &)*2' ,' .' =-*.*2,' ,' 5 +*.' / *' ,1' *+*- ' 6>,' 1 ' 81-.,) =' 8*' =*- 1-?Ť ,'-*20*-.' *+*- ' .;>)' 6>,' 2,*-*., 25' 620' >1? 1-,6D/*' ,1' 1;-.*/+*.% ,' .' *L=*^ - *2>*0' 2' 1;-' ?1.,' -*, -*0' ?1?*2,.Ť 2' 1;-' D*0.' 2' 1;-%>/1.*,.' 1;-' - 0*.' 620' 1;-' 86/9.% ,' .' */,' 8 ,) 2' ;.' 8)*2' 8*' 6-*' 6..*?D/*0' 8 ,)' 1;-' >) /0-*2' 620' .*-^ +62,.' 2' 6? / ' =-6 *-% ,'/*60.' ;.',1' >);->)',1',)*' >125-*56, 12' 1 '1;-' *//18¢)- ., 62.',)*-*' 6..*?D/*0% 2' 62' *.=*> 6/ ?622*-' ,' 6>>1?=62 *.' ;.I' 2' 1;-'A1 2,' 1 >*.' 1 '-*/ 5 12 ' 620' ,' -*,;-2.' ;.' ,1' 1;-')1?*.')^ / *-')6== *-' 620' D*,,*-% ;',)6,' 8) >)' 5-*6,/ ' *2^)62>*.' ,.' +6/;*' ,1' *+*- ' 62L 1;.')- ., 62' .',)6,' 6 1-0.',1') ?.*/ '6'=-11',)6,') .')*6-,' .'- 5),',186-0.' 410% &)*2' ,' .' 1//18*0' D '62' 6D., 2*2>*' -1?' . 2' 620' *20*6+1-.' 6 ,*-'+ -,;*' D '6+1 0 25' *+ / 620' 01 25' 5110',)*' =-11 '620',)*' .6, . 6>, 12' ,1' D*' 0-682' -1?' ,' 6-*' >1?=/*,*% &)*-*+*-',)*' + ,6/' 620' ;260;/,*-6C' ,*0' .= - .' 1 ')- ., 62' 0*+1, 12' =-*+6 /.' ,.' ? ?*0 6,*' 1DA*>,.' 8 // D*',1' 601-*',)*' =*- *>, 12.' 1 '4 10' ,1' *2^ ,*-,6 2' 8 ,)' -*+*-*2>*' 620' >1?=/6>*2>*' ,)*' +6- 1;.' 2, ?6, 12.' 1 ') .' =/*6.;-*' *.=*> 6// ',)1.*' >12,6 2*0' 2')1/ '8 - ,Ť ,1' 6>9218/*05*' 1;-' 6D.1/;,*0*=*20*2>*' 12' 620' 2 2 ,*' 1D/ 56, 12.',1') ?Ť ,1' >12 *..' 620' /6^ ?*2',)*'0 .1-0*-.' 1 '1;-' 26,;-*' 620',)*',-62.5-*.. 12.' 1 '1;-' / +*.Ť ,1' ?=/1-*') .' 5-6>*' 620' ?*-> ',)-1;5)' B*.;.')- .,Ť ,1' 2,*->*0*' 1-' 1;-' D-*,)-*2' 1 ' ?62^ 9 20' Ť ,1' =-6 ' 1-',)*' =-1=656, 12' 620' *.,6D/ .)?*2,' 1 ',-;,)' - 5),*1;.2*.. '620'=*6>*' 12' *6-,)Ť 2'/ 2*' ,1' /125' 1-' 6' ?1-*' *2, -*' >12 1-? , ',1',)*' 8 // 1 '410' 620',1' D-*6,)*' 6 ,*-',)*' *+*-/6., 25' *2A1A ? 72,' 1 ') .' - *20.)= ()*' * *>,.' 1 ' .;>)' 6' .= - .')6D ,;6// ' >)*- .)*0' 620' **/ 25/ ' *L=-*..*0' D* 1-*') ? ' ? ;.,' .;-*/ ' D*' ?=1-,62,' 620')6== % ?125',)*.*' ?6 ' D*' -*>912*0' 6' =-1 1;20');? / , ' 2',)*' . 5),'1 '410' 6') 5)' +*2*-6, 12' 1-') .' =-*.*2>*' 620' 6,,- D;,*. ' 62' 6-0*2,' [*6/ 1-') .' 81-.) =' 620')121-' 6' >12.,62,' ? ^ ,6, 12' 1 ' 1;-' 6+ 1;-.' 0 + 2*' *L6?=/*' 6' 0 ;. +*' >)6-, ' 1-' ?*2' 1 '6// 0*21? 26, 12.' 6' 5*2*-1;.' 620' ;28*6- *0' .*/ C0*2 6/' 6' ,1,6/' -*. 526, 12' ,1' -1+ ^ 0*2>*' 62' 2>-*6. 25' *.,**?' 1-',)*' 41.=*/' 8 ,)'>/*6-^ *-' 620' -?*-')1=*.' 1 ',)6,' ? ?1-,6/ / *' 8)>)' ,')6.' D-1;5),',1'/ 5),J' M 6/* '$ 1' *-%+ X%

 * 8 ' *' 5*2,/*' :' 4-%1% 8.' ?*2^ , 12*0' 6.' 6// 25' 2',)*' 6.,'M<6;20-*//'=% Ť 1D 2^ .12' ' RX' *% 5% 2' 6D /12' M 62% + ' K' KKX' / 9*^ 8 .*' 2' 6/*., 2*' 0;- 25',)*' .;?*?*-' 2 5),.' M 6-;>)' 'K X' .1')*6+A' 6.',1' 8*,' / 9*' 6' ?10*C6,*' -6 2' M 62, ' + ' KT' B;05% + ' NDX',)*' 6D.*2>*' 1 ' 8)>)' ,' .1?*8)6,' .;==/ *.' M >>/;.% L+ ' MPT' L/ ' KKX' 5-*6,/ ' >11/ 25' ,)*' *6-,)')*6,*0' D '06 'M>1?=% ;-,'+ 'S SX' 620' -*^ -*.) 25' +*5*,6, 12' M : 6..*/_;.,' =% KS Ť 1/2* ' ' Ť 1.*2? //*-' ' ' KKX% ();.' ,' .' >1;=/*0' 2',)*' 0 + 2*' D/*.. 25' 8 ,)' -6 2' 1-' ?*2, 12*0' 6.' 6' =- ?*.1;->*' 1 '*-, / , ' M4*2% LL+ KQT' *;,% LLL ' NT' U*>)% + ' KX' 620' ,.' 8 ,)0-686/ .' 6,,- D;,*0',1' 6' >;-.*' MK' 6?% ' K Ť ' 25.' L+ ' '% : 65% ' X% **' ? A

 ()*' +6/;*' 1',) .' D/*.. 25' >6221,' D*' 60*_;6,*/ ' 6=*-*> 6,*0' D ',)*' & *.,*-2' -*60*-Ť D;,' 2' 6/*., 2*' 620' 20**0',)-1;5)1;,' & *.,*-2' .6' -6 2' -6-*/ ' ' *+*-' 6//.' -1?' =- /,1' *=,*?D*-' 620',)*')*6,'1',)*' .;2' D* 25' 6,',)*' .6?*', ?*' +*- ' .,-125 '6// +*5*,6, 12' 81;/0' D*' =6->)*0' 620' 0- *0' ;=' 8*-*' ,'21,' 1-',)*' >1^ = 1;.' 0*8.' 8)>)' 6// 0;- 25',)*' 2 5),' 620' >1?=/*,*/ ' ?1.,*2',)*' 5-1;20' 9** = 25' 2' 6' *-, /*' >120, 12' /620.' 8)>)' 81;/0' 1,)*-8 .>' D*' ..*-/ ' 620' 0*.1/6,*% ()./*>>0' 8 ,)' 6//',) .' ?1 .,;-*' *+6=1-6,*.' 8 ,)' 6.,12 .) 25'-6= 0 , ' 6.' .112' 6.',)*' .;2')6.' -..*2% ' .**?.',)6,',)*' 60^ +62,65*' 1',)*.*' 6D;2062,' 0*8.' .' 21,' 5*2*-6//E' *2^ A1 *0' *L>*=.;' 2' -*5 12.' ?1-*' 1-'/*.,') // '1-'*/*+6,*0' 1-' 2' >12 2*0' +6//* .% 2' *L,*2. +*' 1=*2' =/6 2.' 620' 0*.*-,.' ,'01*.' 21,'.**?',)6,' 62 ' >1= 1;.' 0*8.' 6// 2' .2?-6*-% ;' 2' .;>)',-6>,.' 21' ?*2' >62' 2)6D,'*L^ >*=,',)*' 8620*- 25',-D*.' 620',182.' 620' + //65*.' 6-*' 12/ ' 1;20'12',)*' D629.'1 '26,;-6/1-'6-,/ >?/.,-*6?.T 21-' ;2/*.,' 2',)*' .6?*' . ,;6, 12.' .' 62 ' >;/, +6, 12' 6,,*?=,*0' 8)*-*',)*-*' 6-*' 21' 2 5),' 0*8.' 2' .;?*?*-' ,1' >1?=*2.6,*' 1-',)*' 862,' 1 '-6 2'M ,,1 ' !' ; ,1' >1?=*2^ ,12*0' 6.' 6// 25' 2' ,)*' 6.,'M<6;20-*//'=% Ť 1D 2^ .12' ' RX' *% 5% 2' 6D /12' M 62% + ' K' KKX' / 9*^ 8 .*' 2' 6/*., 2*' 0;- 25',)*' .;?*?*-' 2 5),.' M 6-;>)' 'K X' .1')*6+A' 6.',1' 8*,' / 9*' 6' ?10*C6,*' -6 2' M 62, ' + ' KT' B;05% + ' NDX',)*' 6D.*2>*' 1 ' 8)>)' ,' .1?*8)6,' .;==/ *.' M >>/;.% L+ ' MPT' L/ ' KKX' 5-*6,/ ' >11/ 25' ,)*' *6-,)')*6,*0' D '06 'M>1?=% ;-,'+ 'S SX' 620' -*^ -*.) 25' +*5*,6, 12' M : 6..*/_;.,' =% KS Ť 1/2* ' ' Ť 1.*2? //*-' ' ' KKX% ();.' ,' .' >1;=/*0' 2',)*' 0 + 2*' D/*.. 25' 8 ,)' -6 2' 1-' ?*2, 12*0' 6.' 6' =- ?*.1;->*' 1 '*-, / , ' M4*2% LL+ KQT' *;,% LLL ' NT' U*>)% + ' KX' 620' ,.' 8 ,)0-686/ .' 6,,- D;,*0',1' 6' >;-.*' MK' 6?% ' K Ť ' 25.' L+ ' '% : 65% ' X% **' ? A

 ()*' +6/;*' 1',) .' D/*.. 25' >6221,' D*' 60*_;6,*/ ' 6=*-*> 6,*0' D ',)*' & *.,*-2' -*60*-Ť D;,' 2' 6/*., 2*' 620' 20**0',)-1;5)1;,' & *.,*-2' .6' -6 2' -6-*/ ' ' *+*-' 6//.' -1?' =- /,1' *=,*?D*-' 620',)*')*6,'1',)*' .;2' D* 25' 6,',)*' .6?*', ?*' +*- ' .,-125 '6// +*5*,6, 12' 81;/0' D*' =6->)*0' 620' 0- *0' ;=' 8*-*' ,'21,' 1-',)*' >1^ = 1;.' 0*8.' 8)>)' 6// 0;- 25',)*' 2 5),' 620' >1?=/*,*/ ' ?1.,*2',)*' 5-1;20' 9** = 25' 2' 6' *-, /*' >120, 12' /620.' 8)>)' 81;/0' 1,)*-8 .>' D*' ..*-/ ' 620' 0*.1/6,*% ()./*>>0' 8 ,)' 6//',) .' ?1 .,;-*' *+6=1-6,*.' 8 ,)' 6.,12 .) 25'-6= 0 , ' 6.' .112' 6.',)*' .;2')6.' -..*2% ' .**?.',)6,',)*' 60^ +62,65*' 1',)*.*' 6D;2062,' 0*8.' .' 21,' 5*2*-6//E' *2^ A1 *0' *L>*=.;' 2' -*5 12.' ?1-*' 1-'/*.,') // '1-'*/*+6,*0' 1-' 2' >12 2*0' +6//* .% 2' *L,*2. +*' 1=*2' =/6 2.' 620' 0*.*-,.' ,'01*.' 21,'.**?',)6,'62 ' >1= 1;.' 0*8.' 6// 2' .2?-6*-% ;' 2' .;>)',-6>,.' 21' ?*2' >62' 2)6D,'*L^ >*=,',)*' 8620*- 25',-D*.' 620',182.' 620' + //65*.' 6-*' 12/ ' 1;20'12',)*' D629.'1 '26,;-6/1-'6-,/ >?/.,-*6?.T 21-' ;2/*.,' 2',)*' .6?*' . ,;6, 12.' .' 62 ' >;/, +6, 12' 6,,*?=,*0' 8)*-*',)*-*' 6-*' 21' 2 5),' 0*8.' 2' .;?*?*-' ,1' >1?=*2.6,*' 1-',)*' 862,' 1 '-6 2'M ,,1 ' !' ; ,1' >1?=*2^ ,12*0' 6.' 6// 25' 2' ,)*' 6.,'M<6;20-*//'=% Ť 1D 2^ .12' ' RX' *% 5% 2' 6D /12' M 62% + ' K' KKX' / 9*^ 8 .*' 2' 6/*., 2*' 0;- 25',)*' .;?*?*-' 2 5),.' M 6-;>)' 'K X' .1')*6+A' 6.',1' 8*,' / 9*' 6' ?10*C6,*' -6 2' M 62, ' + ' KT' B;05% + ' NDX',)*' 6D.*2>*' 1 ' 8)>)' ,' .1?*8)6,' .;==/ *.' M >>/;.% L+ ' MPT' L/ ' KKX' 5-*6,/ ' >11/ 25' ,)*' *6-,)')*6,*0' D '06 'M>1?=% ;-,'+ 'S SX' 620' -*^ -*.) 25' +*5*,6, 12' M : 6..*/_;.,' =% KS Ť 1/2* ' ' Ť 1.*2? //*-' ' ' KKX% ();.' ,' .' >1;=/*0' 2',)*' 0 + 2*' D/*.. 25' 8 ,)' -6 2' 1-' ?*2, 12*0' 6.' 6' =- ?*.1;->*' 1 '*-, / , ' M4*2% LL+ KQT' *;,% LLL ' NT' U*>)% + ' KX' 620' ,.' 8 ,)0-686/ .' 6,,- D;,*0',1' 6' >;-.*' MK' 6?% ' K Ť ' 25.' L+ ' '% : 65% ' X% **' ? A

 ()*' +6/;*' 1',) .' D/*.. 25' >6221,' D*' 60*_;6,*/ ' 6=*-*> 6,*0' D ',)*' & *.,*-2' -*60*-Ť D;,' 2' 6/*., 2*' 620' 20**0',)-1;5)1;,' & *.,*-2' .6' -6 2' -6-*/ ' ' *+*-' 6//.' -1?' =- /,1' *=,*?D*-' 620',)*')*6,'1',)*' .;2' D* 25' 6,',)*' .6?*', ?*' +*- ' .,-125 '6// +*5*,6, 12' 81;/0' D*' =6->)*0' 620' 0- *0' ;=' 8*-*' ,'21,' 1-',)*' >1^ = 1;.' 0*8.' 8)>)' 6// 0;- 25',)*' 2 5),' 620' >1?=/*,*/ ' ?1.,*2',)*' 5-1;20' 9** = 25' 2' 6' *-, /*' >120, 12' /620.' 8)>)' 81;/0' 1,)*-8 .>' D*' ..*-/ ' 620' 0*.1/6,*% ()./*>>0' 8 ,)' 6//',) .' ?1 .,;-*' *+6=1-6,*.' 8 ,)' 6.,12 .) 25'-6= 0 , ' 6.' .112' 6.',)*' .;2')6.' -..*2% ' .**?.',)6,',)*' 60^ +62,65*' 1',)*.*' 6D;2062,' 0*8.' .' 21,' 5*2*-6//E' *2^ A1 *0' *L>*=.;' 2' -*5 12.' ?1-*' 1-'/*.,') // '1-'*/*+6,*0' 1-' 2' >12 2*0' +6//* .% 2' *L,*2. +*' 1=*2' =/6 2.' 620' 0*.*-,.' ,'01*.' 21,'.**?',)6,'62 ' >1= 1;.' 0*8.' 6// 2' .2?-6*-% ;' 2' .;>)',-6>,.' 21' ?*2' >62' 2)6D,'*L^ >*=,',)*' 8620*- 25',-D*.' 620',182.' 620' + //65*.' 6-*' 12/ ' 1;20'12',)*' D629.'1 '26,;-6/1-'6-,/ >?/.,-*6?.T 21-' ;2/*.,' 2',)*' .6?*' . ,;6, 12.' .' 62 ' >;/, +6, 12' 6,,*?=,*0' 8)*-*',)*-*' 6-*' 21' 2 5),' 0*8.' 2' .;?*?*-' ,1' >1?=*2.6,*' 1-',)*' 862,' 1 '-6 2'M ,,1 ' !' ; ,1' >1?=*2^ ,12*0' 6.' 6// 25' 2' ,)*' 6.,'M<6;20-*//'=% Ť 1D 2^ .12' ' RX' *% 5% 2' 6D /12' M 62% + ' K' KKX' / 9*^ 8 .*' 2' 6/*., 2*' 0;- 25',)*' .;?*?*-' 2 5),.' M 6-;>)' 'K X' .1')*6+A' 6.',1' 8*,' / 9*' 6' ?10*C6,*' -6 2' M 62, ' + ' KT' B;05% + ' NDX',)*' 6D.*2>*' 1 ' 8)>)' ,' .1?*8)6,' .;==/ *.' M >>/;.% L+ ' MPT' L/ ' KKX' 5-*6,/ ' >11/ 25' ,)*' *6-,)')*6,*0' D '06 'M>1?=% ;-,'+ 'S SX' 620' -*^ -*.) 25' +*5*,6, 12' M : 6..*/_;.,' =% KS Ť 1/2* ' ' Ť 1.*2? //*-' ' ' KKX% ();.' ,' .' >1;=/*0' 2',)*' 0 + 2*' D/*.. 25' 8 ,)' -6 2' 1-' ?*2, 12*0' 6.' 6' =- ?*.1;->*' 1 '*-, / , ' M4*2% LL+ KQT' *;,% LLL ' NT' U*>)% + ' KX' 620' ,.' 8 ,)0-686/ .' 6,,- D;,*0',1' 6' >;-.*' MK' 6?% ' K Ť ' 25.' L+ ' '% : 65% ' X% **' ? A

Regeneration. His early death blighted many hopes which his genius and eminent abilties had inspired.

Dexiolăbus. See SPEAKMAN.

Deyling, SALOMON, a German theologian, was born Sept. 14, 1677, at Weida, in Voigtland. He struggled amid poverty to gain his elementary education, and completed his studies at the University of Wittenberg, where he became master in 1699. In 1703 he became adjunct in the faculty of philosophy, and in 1710 doctor in theology. In 1716 he was made general superintendent at Eisleben, in 1720 pastor in the Nicolaikirche at Leipsig, and during the rest of his life was professor of theology there. He died August 5, 1755. He wrote *Dissert. de corrupto Ecclesiæ Romanæ statu ante Lutherum*, etc. (Wittenberg, 1734, 4to); *Observationes Sacræ* (Leips. 1735–39, 3d edit. 5 vols. 4to), containing illustrations and critical remarks upon difficult parts of Scripture; also *Observationes Miscellaneæ* (Leips. 1736, 4to), on questions of exegesis and Church history; *Observationum Sacrarum pars v* (Leips. 1748, 4to). For a list of his writings (39 in number), see Doering, *Die gelehrten Theologen Deutschlands*, i, 322.

D'Holbach. See HOLBACH.

Diabŏlus, the Lat. form of the Gr. διάβολος, Engl. "devil," i. e. properly *an accuser, a calumniator*. We rarely meet with this word in versions of the Old Testament. Sometimes it answers to the Hebrew *Belial*, sometimes to *Satan*. The *Eblis* of the Mohammedans is the same with our *Lucifer;* and the name is similar to that of Diabolus. The Mussulmans call him likewise *Azazel*, which is the Scripture name for the scape-goat, and is probably the Azazel of the *Book of Enoch* (q. v.). They maintain that Eblis was called by this name, signifying *perdition*, or *refractory*, which is nearly the meaning of *Belial*, because, having received orders to prostrate himself before Adam, he would not comply, under pretence that, being of the superior nature of fire, he ought not to bend the knee to Adam, who was formed only of earth. Diabolus sometimes signifies the devil, as Wisd. ii, 24; sometimes an accuser, an adversary who prosecutes before the judges, as Psa. cix, 6; Eccles. xxi, 27.—Calmet, s. v. See DEVIL.

Diaconate, the office or order of a *deacon* (q. v.).

Diaconicum (*Gr.* and *Lat.*). This word has different significations in ecclesiastical authors. Sometimes it is taken for that part of the ancient church in which the deacons used to sit during the performance of divine service, namely, at the rails of the altar; sometimes for a building adjoining to the church, in which the sacred vessels and habits were laid up; sometimes for that part of the public prayers which the deacons pronounced. Lastly, it denotes an ecclesiastical book, in which are contained all things relating to the duty and office of a deacon, according to the rites of the Greek Church.—Hook, *Church Dictionary*, s. v.

Diadem is the rendering of several Heb. words in the Auth. Vers. of the Bible: מִצְנֶפֶת (*mitsne'pheth*, something *wrapped around* the head), spoken of the tiara of a king ("diadem," Ezek. xxi, 31), elsewhere of the turban of the high-priest ("mitre"); צָנִיף (*tsaniph'*, something *wound about* the head), spoken of the turban of men ("diadem," Job xxix, 14), of women ("hood," Isa. iii, 23), of the high-priest ("mitre," Zech. iii, 5), and the tiara of a king ("diadem," Isa. lxii, 3, where the text reads צָנוּף, *tsanuph'*), and צְפִירָה (*tsephirah'*, a *circlet*), spoken of a royal tiara ("diadem," Isa. xxviii, 5). See HEAD-DRESS. All these terms occur in poetical passages, in which neither the Hebrew nor the English words appear to be used with any special force, except the first. See MITRE. But in Greek the distinction between διάδημα (only Rev. xii, 3; xiii, 1; xix, 12), or *diadem*, as the badge of royalty, and στέφανος, or *crown*, as a conventional mark of distinction in private life, is carefully observed (see Trench, *Synonymes of the New Testament*, p. 112 sq.). See TURBAN.

Tetradrachm of Tigranes, king of Syria, with the Oriental *tiara* instead of the simple diadem of the earlier kings or Seleucidæ.

What the "diadem" of the Jews was we know not. That of other nations of antiquity was a fillet of silk, two inches broad, bound round the head and tied behind, the invention of which is attributed to Liber (Plin. *Hist. Nat.* vii, 56, 57). Its color was generally white (Tacitus, *Ann.* vi, 37; Sil. Ital. xvi, 241); sometimes, however, it was of blue, like that of Darius, *cærulea fascia albo distincta* (Q. Curt. iii, 3; vi, 20; Xenoph. *Cyr.* viii, 3, 13), and it was sown with pearls or other gems (Zech. ix, 16; Gibbon, i, 392), and enriched with gold (Rev. ix, 7, where, however, the text has στέφανος). It was peculiarly the mark of Oriental sovereigns (1 Macc. xiii, 32, τὸ διάδημα τῆς Ἀσίας), and hence the deep offence caused by the attempt of Cæsar to substitute it for the laurel crown appropriated to Roman emperors (Cicero, *Phil.* ii, 34); when some one crowned his statue with a laurel-wreath (*candida fascia præligatam*), the tribunes instantly ordered the *fillet* or diadem to be removed and the man to be thrown into prison (Sueton. *Cæs.* 79). Caligula's wish to use it was considered an act of insanity (Sueton. *Cal.* 22). Heliogabalus only wore it in private. Antony assumed it in Egypt (Flor. iv, 11), but Diocletian (or, according to Aurel. Victor, Aurelian) first assumed it as a *badge* of the empire. Representations of it may be seen on the coins of any of the later emperors (Tillemont, *Hist. Imp.* iii, 531). A crown was used by the kings of Israel even in battle (2 Sam. i, 10; similarly it is represented on coins of Theodosius as *encircling* his helmet); but in all probability this was not the state crown (2 Sam. xii, 30), although used in the coronation of Joash (2 Kings xi, 12). Kitto supposes that the state crown may have been in the possession of Athaliah; but perhaps we ought not to lay any great stress on the word נֵזֶר in this place, especially as it is very likely that the state crown was kept in the Temple. In Esth. i, 11; ii, 17, we have כֶּתֶר (Sept. κίταρις, κίδαρις) for the turban (στολὴ βυσσίνη, vi, 8) worn by the Persian king, queen, or other eminent persons to whom it was conceded as a special favor (viii, 15, διάδημα βύσσινον πορφυροῦν). The diadem of the Persian king differed from that of others in having an *erect* triangular peak (κυρβασία, Aristoph. *Av.* 487; Suid.

Ancient Diadems.

1. Egyptian (Wilkinson's *Anc. Egypt.*); 2. Of Sardanapalus III (Assyrian Sculptures, Brit. Museum); 3. Persepolitan (Sir R. K. Porter's *Travels*); 4. Parthian (Coin of one of the Arsacidæ); 5. Jewelled, of Constantine (Coin in Brit. Mus.)

s. v. τιάρα; and Hesych.). Possibly the צָנִיף of Dan. iii, 21 is a tiara (as in Sept., where, however, Drusius and others *invert* the words καὶ τιάραις καὶ περικνημῖσι), A. V. "hat." Some render it by *tibiale* or *calceamentum*. Schleusner suggests that κρώβυλος may be derived from it. The tiara generally had pendent flaps falling on the shoulders. (See Paschalius, *de Corona*, p. 573; Brissonius, *de Regn. Pers.* etc.; Layard, ii, 320; Scacchus, *Myrothec.* iii, 38; Fabricius, *Bibl. Ant.* xiv, 13). The words סְרִיחֵי טְבוּלִים, "*exceeding in dyed attire* upon their heads," in Ezek. xxiii, 15, mean long and flowing turbans of gorgeous colors (Sept. παραβαπτα, where a better reading is τιάραι βαπταί).—Smith, s. v. See CROWN.

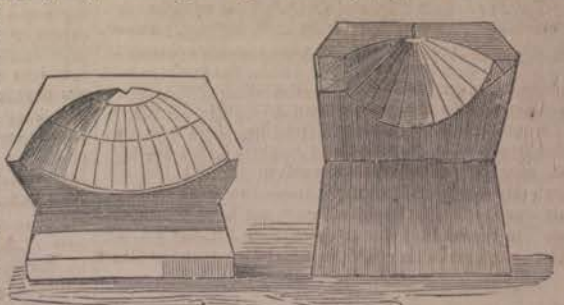
DIADEM. See NIMBUS.

Diadŏchus, MARCUS, a Greek theologian, who probably lived in the 4th century. Nothing is known of him except that he was the author of a small work against the Arians, entitled Τοῦ μακαρίου τοῦ Διαδόχου κατὰ Ἀρειανῶν λόγος (*Beati Marci Diadochi Sermo contra Arianos*), and published by J. K. Wetstein as an appendix to his edition of Origen's *De Oratione* (Basel, 1694, 4to; reprinted, with a new Latin translation, in the *Bibliotheca Patrum* of Galland, vol. v). Some writers suppose that Diadochus was one of two Egyptian bishops by the name of Mark who were banished by the Arians during the patriarchate of George of Cappadocia, restored during the reign of Julian, and mentioned in a letter of Athanasius to the Antiochians as being present at the synod held at Alexandria in 362. According to the conjecture of Galland, Mark Diadochus was one of two bishops named Mark who were ordained priests by Alexander, the predecessor of Athanasius, and exiled by the Arians; the one to the great oasis (Upper Egypt), the other to the oasis of Ammon. It may be that these two Marks were the same as the two preceding ones.—Hoefer, *Biographie Générale*, xiv, 21.

Dial (מַעֲלוֹת, *maaloth'*; the plur. of an *ascent*, as it is sometimes rendered; Sept. ἀναβαθμοί, Vulg. *horologium*), a method of measuring time employed by Ahaz (2 Kings xx, 11; Isa. xxxviii, 8). The word is the same as that rendered "steps" in Exod. xx, 26; 1 Kings x, 19, and "degrees" in 2 Kings xx, 9, 10, 11; Isa. xxxviii, 8, where, to give a consistent rendering, we should read with the margin the "degrees" rather than the "dial" of Ahaz. In the absence of any materials for determining the shape and structure of the solar instrument, which certainly appears intended, most interpreters follow the most strictly natural meaning of the words, and consider, with Cyril of Alexandria and Jerome (*Comm. on Isa.* xxxviii, 8), that the *maaloth* were really stairs, and that the shadow (perhaps of some column or obelisk on the top) fell on a greater or smaller number of them according as the sun was low or high. The terrace of a palace might easily be thus ornamented. Dr. Adam Clarke, in his *Commentary* on 2 Kings xx, 10, 11, however, gives some ingenious illustrations, accompanied by a diagram, and others may be seen in Calmet's *Dictionary*, s. v. See DEGREE.

The invention of the sun-dial belongs most probably to the Babylonians. Herodotus affirms that the Greeks derived from them the pole (πόλος, supposed to mean the dial-plate), the gnomon, and the division of day into twelve parts (ii, 109). Vitruvius also ascribes the most ancient form of the dial, called hemicycle, to Berosus the Chaldæan (ix, 9), though he probably means no more than that he *introduced* it into *Greece*. Certainly those *Greeks* to whom Vitruvius ascribes inventions or improvements in dialling can all be proved to have had communication, more or less remote, with the Chaldæans. The first mention in Scripture of the "hour" is made by Daniel, at Babylon (ch. iii, 6), although it is possible that Psa. cii, 11, and cix, 23, may contain allusion to the progress of a shadow as measuring diurnal time. The Greeks used the dial before the Romans; and with regard to the Egyptians, "there are no indications in the sculptures to prove the epoch when the dial was first known in Egypt" (Wilkinson, *Anc. Egyptians*, iii, 342). It has been suggested that the חַמָּנִים, "*images*," of Isa. xvii, 8; xxvii, 9; Ezek. vi, 4, 6, rendered in the margin "sun-images," were gnomons to measure time (Jahn, *Archäol.* I, i, 559), but there seems no adequate ground for this theory. On the mode of regulating time among the Greeks and Romans, see Smith's *Dict. of Class. Ant.* s. v. Horologium. See TIME.

The circumstances connected with the dial of Ahaz (2 Kings xx, 11; Isa. xxxviii, 8), which is perhaps the earliest of which we have any clear mention, entirely concur with the derivation of gnomonics from the Babylonians. Ahaz had formed an alliance with Tiglath-pileser, king of Assyria (2 Kings xvi, 7, 9); he was a man of taste, and was ready to adopt foreign improvements, as appears from his admiration of the altar at Damascus, and his introduction of a copy of it into Jerusalem (2 Kings xvi, 10). "The princes of Babylon sent unto him to inquire of the wonder that was done in the land" (2 Chron. xxxii, 31). Hence the dial also, which was called after his name, was probably an importation from Babylon. Different conjectures have been formed respecting the construction of this instrument. Grotius follows the Rabbins in describing it as "a concave hemisphere, with a globe in the midst, the shadow of which fell on the different lines engraven in the concavity of the hemisphere, these lines being twenty-eight in number." Mr. Taylor (in Calmet's *Dict.*) discovered some representations of ancient dials, one of which was found at Herculaneum, and was probably originally from Egypt, which he conceives to answer, in many respects, to the circumstances of the sacred narrative (see also Kitto, *Pict. Bible*, note on 2 Kings xx, 11). The subjoined figures seem to apply to the description of the dial of Berosus given by Vitruvius (ix, 9), "a half circle hol-

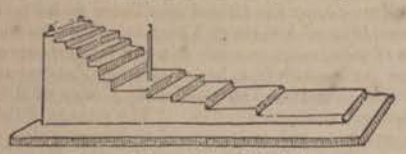


Ancient portable Sun-dials.

lowed into the stone, and the stone cut down to an angle." This kind of sun-dial was portable, and did not require to be constructed on or for a particular spot, to which it was subsequently confined, and, therefore, one ready-made might easily be brought on a camel from Babylon to Ahaz. If the instrument used in this instance were brought from Babylon, we see the reason why the king of Babylon was so peculiarly interested in the event (2 Kings xx, 12). See AHAZ.

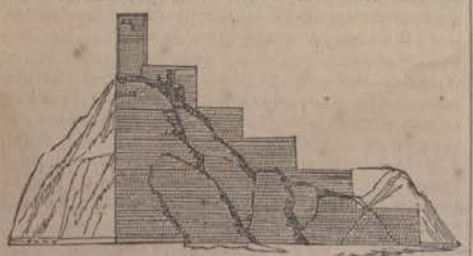
The chief difficulty in the case of the dial of Ahaz is to understand what is meant by the peculiar terms in which it is expressed, מַעֲלוֹת אָחָז, the *degrees* or *steps of Ahaz*. They *may* mean lines or figures on a dial-plate, or on a pavement, or the steps to the palace of Ahaz, or some steps or staircase he had erected else-

where (see Carpzov, *Apparat. Historic. Crit.* Lips. 1748, p. 352, etc.). The Sept. in Isaiah reads *ἀναβαθμοὺς τοῦ οἴκου τοῦ πατρός σου*, "the steps or stairs of the house of thy father." Josephus also says "steps or degrees in his house" (*Ant.* x, 2, 1). The Chaldee renders the passage in Kings, אֶבֶן שַׁעֲתָא, "hour-stone," and gives the same meaning to "the *stairs*" (2 Kings ix, 13), and renders Isa. xxxviii, 8, by בְּצוּרַת אֶבֶן שַׁעֲתָא, "on the shadow of the stone of hours." Symmachus most certainly understood a sun-dial; *στρέψω τὴν σκιὰν τῶν γραμμῶν ἡ κατέβη ἐν ὡρολογίῳ Ἄχαζ*, "I will cause to return the shadow of the degrees which (shadow) is gone down on the dial of Ahaz:" and so Jerome renders it *Horologium*. M. von Gumpach's opinion (*Zeitrechnung der Babylonier*, Heidelb. 1852, p. 25) is that it was an accurate and scientific apparatus, indicating the half hours by the coincidence of the shadow of the upright pole or gnomon with the edge of the several "degrees" or steps, somewhat in the manner of the subjoined figure. Mr.



Supposed Form of the Dial of Ahaz.

Layard is favorable to the conjecture of Von Gumpach that it was a present to Ahaz from Tiglath-pileser; and he compares it with the presumed form of the tower of Belus, which may have been constructed in part for astronomical purposes (*Nin. and Bab.* p. 424 sq.). On the



Eastern Face of the Birs Nimroud, with proposed Restoration.

whole, however, the dial of Ahaz seems to have been a distinct contrivance rather than any part of a house. It would also seem probable, from the circumstances, that it was of such a size, and so placed, that Hezekiah, now convalescent (Isa. xxxviii, 21, 22), but not perfectly recovered, could witness the miracle from his chamber or pavilion. May it not have been situate "in the middle court" mentioned 2 Kings xx, 4? The cut given below presents a dial discovered in Hin-

Indian Sun-dial.

dostan, near Delhi, the ancient capital of the Mogul empire, whose construction would well suit the circumstances recorded of the dial of Ahaz. It seems to have answered the double purpose of an observatory and a dial—a rectangled hexangle, whose hypothenuse is a staircase, apparently parallel to the axis of the earth, and bisects a zone or coping of a wall, which wall connects the two terminating towers right and left. The coping itself is of a circular form, and accurately graduated to mark, by the shadow of the gnomon above, the sun's progress before and after noon; for when the sun is in the zenith, he shines directly on the staircase, and the shadow falls beyond the coping. A *flat surface on the top of the staircase*, and a gnomon, fitted the building for the purpose of an observatory. According to *the known laws of refraction*, a cloud or body of air of different density from the common atmosphere, interposed between the gnomon and the coping of the dial-plate below, would, if the cloud were denser than the atmosphere, cause the shadow to recede from the perpendicular height of the staircase, and, of course, to reascend the steps on the coping, by which it had before noon gone down; and if the cloud were rarer, a contrary effect would take place (see bishop Stock's *Transl. of Isaiah*, Bath, 1803, p. 109). Such a building might also be called "a house." It agrees also with Adam Clarke's supposition that "the *stairs*" were really "*a dial*," and probably this very dial on which, as being in the most public place, or rather on the *platform* on the top of which they set Jehu, while they proclaimed him king by sound of trumpet" (*Commentary* at 2 Kings ix, 13). Bishop Stock's speculation that the retrogression of the shadow *might* be effected by refraction is supported by a natural phenomenon of the kind on record. On the 27th of March, 1703, P. Romauld, prior of the cloister of Metz, made the observation that, owing to such a refraction of the solar rays in the higher regions of the atmosphere, in connection with the appearance of a cloud, the shadow on his dial deviated an hour and a half (Rosenmüller). The phenomenon on the dial of Ahaz, however, was doubtless of a miraculous nature, even should such a *medium* of the miracle be admitted: nothing less than a divine communication could have enabled Isaiah to predict its occurrence at that time and place; besides, he gave the king his own choice whether the shadow should advance or retire ten degrees. There seems, however, to be no necessity for seeking *any* medium for this miracle, and certainly no necessity for supposing any actual interference with the revolution of the earth, or the position of the sun. In the more distinct and ample account of it in 2 Kings, it is simply said that the Lord, at the prayer of Isaiah, brought the *shadow* ten degrees backward. Adopting the present state of the text in the parallel passage, Isa. xxxviii, 8, it is observable that what is called the sun in one part of the verse is called the shadow in the other. It is certainly as philosophical to speak of the sun returning, as it is of his setting and rising. Thus the miracle, from all the accounts of it, might consist only of the retrogression of the shadow ten degrees, by a simple act of Almighty power, without any medium, or, at most, by that of refracting those rays only which fell upon the dial. It is not said that any time was lost to the inhabitants of the world at large; it was not even observed by the astronomers of Babylon, for the deputation came to inquire concerning the wonder that was done in the *land*. It was temporary, local, and confined to the observation of Hezekiah and his court, being designed chiefly for the satisfaction of that monarch. It is remarkable that no instrument for keeping time is mentioned in the Scripture before the dial of Ahaz (about B.C. 700); nor does it appear that the Jews generally, even after this period, divided their day into hours. The dial of Ahaz was probably an object only of curious recreation, or served at most to regulate the occupations of the palace. Mr. Bosanquet, in a curious paper read before the Asiatic Society, endeavors to make out a synchronism between the reigns of Hezekiah and the Assyrian kings by means of the astronomical event in question. He

shows that upon such steps as appear to have been used for exhibiting the sun's meridional altitude, any very large partial eclipse on the northern limb of the sun, occurring about ten days from the winter solstice, near the hour of noon, would produce the effect described in the instance under consideration; and he calculates that such an eclipse actually took place Jan. 11, B.C. 689, which he accordingly fixes upon as the date of the Scriptural incident (*Jour. Sac. Lit.* Oct. 1854, p. 217, 218). This, however, does not tally with the Hebrew chronology, nor is it sufficiently confirmed by other savans to be entitled to reception. See CHRONOLOGY.

See Calmet, *La rétrogradation du soleil à l'horologe d'Achaz* (in his *Dissertations* [in *Commentaire*], ii, 796); Martini, *Von den Sonnenuhren der Alten* (Lips. 1777), p. 36; Goguet, *Untersuchungen*. iii, 85; Velthuysen, *Beyträge* (ed. Cramer, Kilon, 1777), p. 16 sq.; Sahm, *De regressu solis tempore Hiskiæ* (1689, 1696); Geret, *De sole tempore Hiskiæ retrogrado* (1673); Heisse, *Sciatericum Achas* (Jena, 1680); Hopkins, *Plumb-line Papers* (Auburn, 1862), ch. ii. See HEZEKIAH.

Diamond occurs in the Auth. Vers. as the translation of two Heb. words. See GEM.

1. יַהֲלֹם (*yahalom'*, so called from *beating*, with allusion to its hardness), a precious gem, placed sixth in the breastplate of the high-priest, with the name of Naphtali carved on it (Exod. xxviii, 18; xxxix, 11), and mentioned by Ezekiel (xxviii, 13) among the precious stones of the king of Tyre. The Sept. and Vulg. understand by it the *jasper*; several of the ancient versions render it by *onyx*, which is not improbable; still others by *adamant*, which is less likely. There is much reason to doubt whether the diamond was known in the time of Moses (see below). Our translation "diamond" is derived from Aben Ezra, and is defended by Braun (*Vest. Sacerd.* ii, 13). Kalisch (on *Exod.* p. 536) says "perhaps emerald." See ONYX.

2. שָׁמִיר (*shamir'*, a sharp *point*; hence often a *brier*), a precious stone, named in Jer. xvii, 1; Ezek. iii, 9; Zech. vii, 12. The Sept. in Jeremiah, and the Vulg. in all the passages, take it for the *diamond*. The signification of the word (from שָׁמַר, to *pierce*) countenances this interpretation, the diamond being, for its hardness, used in perforating and cutting other minerals. Indeed, this use of the *shamir* is distinctly alluded to in the passage in Jeremiah, where the *stylus* pointed with it is distinguished from one of iron (comp. Pliny, *Hist. Nat.* xxxvii, 15). The two other passages also favor this view by using it figuratively to express the hardness and obduracy of the Israelites. Our version has "diamond" in Jer. xvii, 1, and "adamant" in the other texts. Bochart, however (*Hieroz.* iii, 843 sq.), rejects the usual explanation, and, comparing the word *shamir* with the Greek σμῆρις or σμύρις, conceives it to mean "*emery*." This is a calcined iron mixed with siliceous earth, occurring in livid scales of such hardness that in ancient times, as at present, it was used for polishing and engraving precious stones, diamonds excepted (Hoffmann, *Mineral.* i, 561 sq.). Bohlen suggests an Indian origin of the word, and compares *asmira*, *stone which eats*, spoken of gems, iron, etc. from their hardness. Rosenmüller is in favor of the diamond in his *Scholia*, but in his *Alterthumskunde* he takes up Bochart's notion, and urges that if the Hebrews had been acquainted with the diamond, and the manner of working it, we should doubtless have found it among the stones of the high-priest's breastplate; and that, as the *shamir* was not one of the stones thus employed, therefore it was not the diamond. But to this it may be replied that it was perhaps not used because it could not be engraved on, or was possibly not introduced until a later period. The argument drawn from the rarity of the word in the Old Testament is of little weight, and there is no necessity for seeking an Oriental origin of the word σμῆρις, or ground for considering it identical with *shamir*, as it may easily be traced from the Greek itself (see Passow, s. v.; Eichhorn, *De Gemmis Sculpt. Hebr.*). For an account of the diamond of the ancients, see Moore's *Ancient Mineralogy*, p. 143–145. See ADAMANT.

The diamond is the hardest and most valuable of the precious stones, and for many ages was considered indestructible by fire or any other means; modern chemistry, however, has proved that at a heat rather below that required to melt silver it is gradually dissipated or burned. It is, in fact, nothing but pure *carbon*, but in a more highly crystallized state than coal. In former times, all the diamonds that were known were brought from different parts of India, particularly from the famous mine of Golconda, near Hyderabad, the present capital of the Deccan, in Hindostan; the islands of Molucca and Borneo have also produced many valuable stones. The diamond mines of Golconda are now so far exhausted as to be considered not worth the expense of working, and the diamonds which are brought to Europe come chiefly from Brazil. They are always found in an alluvial soil, generally gravel, resting on granite, and not imbedded in any other substance, but appear like small pebbles, with the surface flattened in many parts. See *Penny Cyclopædia*, s. v.

Dian'a. The *Artemis* of the Greeks (Ἄρτεμις, Acts xix, 24), and Diana of the Romans, is a goddess known under various modifications and with almost incompatible attributes. According to the Homeric accounts and Hesiod, she was the daughter of Jupiter and Latona, born at the same time with Apollo at Delos. As the tutelary divinity of Ephesus, in which character alone she concerns us here, she was undoubtedly a representative of the same power presiding over conception and birth which was adored in Palestine under the name of ASHTORETH. She is therefore related to all the cognate deities of that Asiatic Juno-Venus, and partakes, at least, of their connection with the *moon*. Creuzer has combined a number of testimonies in order to show how her worship was introduced into Ephesus from the coasts of the Black Sea, and endeavors to point out the several Medo-Persian, Egyptian, Libyan, Scythian, and Cretan elements of which she is compounded (*Symbolik*, ii, 115 sq.). The Arabic version of the Acts renders Artemis, in the chapter cited, by *Az-Zuharat*, which is the Arabic name for the planet Venus. From certain Ephesian coins which represent her seated upon her favorite deer, and in other rustic positions, it appears that she was identical with the virgin huntress of the earlier mythology, the grosser feature of her worship being apparently borrowed from association with the

Ephesian Medals of Diana.

voluptuous religions of the East. Guhl, indeed (*Ephesiaca*, p. 78–86), endeavors in almost all points to identify her with the true Greek goddess. In some respects there was doubtless a fusion of the two. Diana was the goddess of rivers, of pools, and of harbors, and these conditions are satisfied by the situation of the sanctuary at Ephesus. Coressus, one of the hills on which the city stood, is connected by Stephanus Byzantius with κόρη, "maid." We may also refer to the popular notion that, when the temple was burnt on the night of Alexander's birth, the calamity occurred because the goddess was absent in the character of Lucina. But the true Ephesian Diana is represent-

ed in a form entirely alien from Greek art (see Jerome, *Præfat. ad Ephes.* p. 539, ed. Ver.). Guhl indeed supposes this mode of representation to have reference simply to the fountains over which the goddess presided, conceiving the multiplication of breasts to be similar to the multiplication of eyes in Argus or of heads in Typhœus. But the correct view is undoubtedly that which treats this peculiar form as a symbol of the productive and nutritive powers of nature. This is the form under which the Ephesian Diana, so called for distinction, was always represented, wherever worshipped; and the worship extended to many places, such as Samos, Mitylene, Perga, Hierapolis, and Gortyna, to mention those only which occur in the N. T. or the Apocrypha. Josephus mentions a very rich fane of hers at Elymais in Persia (*Ant.* xii, 9, 1). Her most noted temple was at Ephesus. Here also, as in the temple of Apollo at Daphne, were the privileges of asylum. This is indicated on some of the coins of Ephesus (Akerman, in *Trans. of the Numismatic Soc.* 1841); and we find an interesting proof of the continuance of these privileges in imperial times in Tacit. *Ann.* iii, 61 (Strabo, xiv, 641; Pausan. vii, 2; Cicero, *Verr.* ii, 33). The temple had a large revenue from endowments of various kinds. It was also the public treasury of the city, and was regarded as the safest bank for private individuals. See EPHESUS.

Her temple at Ephesus was one of the wonders of the world, but its great glory was the *διοπετὲς ἄγαλμα*, "the image which fell down from Jupiter" (Acts xix, 35). Images claiming so lofty an origin were to be found in other cities besides Ephesus. There was a similar one at the temple of the Tauric Diana, and another of Minerva, called the Palladium, at Troy. At Rome, too, was the sacred ancile or shield of Mars, which Numa pretended had fallen from heaven, and it was jealously guarded in consequence. The early images of Diana are supposed to have been simply black conical stones, and afford another reason for the semi-conical figure of the Ephesian Diana. They may have been *aerolites*, similar to the one which existed in the temple of the Sun at Baalbec, or the famous *black stone* in the Kaaba at Mecca. Her original Ephesian image, said to have fallen from heaven, was probably very rude, and, to judge from its representation on ancient coins, little more than a head with a shapeless trunk, supported by a staff on each side. There is some dispute as to the material of which her image was made. Most authorities say it was of ebony, the black color being, as Creuzer thinks, symbolical. Pliny relates that Mucianus, who had seen it, affirms that it was of the wood of the vine, and that it was so old that it had survived seven restorations of the temple (*Hist. Nat.* xvi, 79). According to Xenophon, it was of gold (*Anab.* v, 3). The later image with the full development of attributes, of which we give a representation below, is, as Creuzer says, a Pantheon of Asiatic and Egyptian deities. Even in it, however, we see how little influence Greek art had in modifying its antique rudeness. It still is more like a mummy than a Greek statue. Some of the most significant attributes in this figure are—the turreted head, like that of Cybele; the nimbus behind it representing the moon; the zodiacal signs of the bull, the twins, and the crab on her bosom; below them two garlands, one of flowers and the other of acorns; the numerous breasts; the lions, stags, and cows in various parts; the bees and flowers on the sides; and others described in Millin's *Galerie Mythol.* i, 26. See SHRINE.

Ephesian Coin with Diana's Temple.

Image of the Ephesian Diana.

Of this heaven-descended image the great city Ephesus was a "worshipper," *νεωκόρος*, literally a "temple-sweeper," a title which was assumed by many cities as a mark of high distinction. There were, however, a class of men particularly called *νεωκόροι* (Xenoph. *Anab.* v, 3, 6), who were persons of rank and consideration, and to whom was assigned the duty of offering sacrifices on behalf of the emperor. Her priests were called Megabyzi, and were eunuchs (Strabo, xiv, 641). They were restricted to a severe diet, and prohibited from entering any private house; they must have been a wealthy body, for they sent a statue of gold to Artemidorus, who pleaded their cause at Rome, and rescued their property out of the hands of the farmers of the public revenues, who had seized upon them. Once in the year was there a public festival held in honor of the goddess in the city of Ephesus, and to this festival all the Ionians who could do so made a point of repairing with their wives and children, bringing with them not only costly offerings to Diana, but also rich presents for the priests. No arms were allowed to be worn in the precincts of her temple. No bloody sacrifices were offered. The symbol of this divinity was a bee (Aristoph. *Ran.* 1273), and her high-priest bore the name of king (*ἐσσήν*). Her worship was said to have been established at Ephesus by the Amazons (Pausan. ii, 7, 4; viii, 12, 1). See

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6[' -62> .>1 '6' =62 .)' ? .. 126- ' 86.' D1-2' 6,' % *D- 62' 0*' <6 ; *6.' 2' 1/0' 6., /*% ,*-' *2^ ,*- 25',)*' 1? 2>62' 1-0*-' D*' 86.' 2' SNK' .*2,' 6.' 6' ? .. 126- ',1',)*') / == 2*' ./620.% 2' SN ')*' 8*2,' ,1') 26' 8)*-*')*' /6D1-*0' 6.' 6' ? .. 126-E 7 2' .*+*-6/ =-1+ 2>*.% 2' >12.*_;*2>*' 1 ') .' [*6/)*' D60' 1 ,*2' ,1' .; *-' -1?' =*-.*>;, 12' 620' 26// ' 86.' 9 //*0' D ' ,)*',)-18 25' 1 ' 6' .,12*' 1+% S S% h\ *' 8-1,*' 6' 2; ? D*-' 1 ' 81-9.' 2',)*') 2*.*' /625; 65*' ,)*' ?1.,' >*/*D-6,*0' 1 '8) >)' .' 6' >6,*>) .?' I) = 1' =;)/ .)%C *0' 2' S ' 620' 2' ?62 '.; D.*_;*2,' *0 , 12.X% : *' .' A6/.1',)*' 6; ,)1-' 1 '6') 2*.*C =62 .)' 0 >, 126-T ' 8) >)' >12,6 2.' S ') 2*.*')6-6>,*-.% ' : 1* *-' ; " ' ? 'L + ' S

6[' *0-1 '6' =62 .)' ? .. 126- ' 86.' D1-2' 6,' ; = 126' 2*6-' (1/*01' 2' S% : *' *2,*-*0',)*' 1-0*-' 1 ',)*' B*. ; ,.' 2' SS' 620' 86.' 2' PK' 12*' 1 ',)*' -., 1?62' 6,)1/ >' ? .. 126- *.' 8)1' 8*-*' .*2,',1' <*L ^ >1% : *' ,8 >*' 8*2,',1' 1?*' 6.' 6' 0*/*56,*' 1 ') .' 1-^ 0*-' 620' 0 *0' 6.' =-* *>,' 1 ',)*' B*. ; ,.' 1-',)*' =-1+ 2>*' 1 ' < *L >1' 2',)*' > , ' 1 ' < *L >1' B62% K 4 N% : *' 8-1,*' " ' % ' ' ' '"' D 'M -1?' R ',1' S X' 620' 6* ' ' K'D ! =' ' ' ; 'M 2,8 *-=' S Q+1X% ' : 1*^ *-' ; " ' ? 'L + ' %

D0 2' 0 ' ' %' % ' 6' 21,*0' D D/ 15-6=)*-' 86.' D1-2' 6,' 6/>;,,6' 2' S% : *' 86.' *0 ;>6,*0' 6,' ,% B1)2 .' 1//*5*' 6?D- 05*' 620' .,; 0 *0' /68 ' D ; ,' 6 ,*-86-0.' >)625*0') .' + *8 . ' 620' 86.' 1-06 2*0' 2' Q % : *' ,)*2' D*>6?*' =-*6>)*-' 1 ' (*2 .12 .' >)6=*/' 12012T 6/.1' 1 ' -1?=,12' >)6=*/' 620' # ; *D*>' 620' ,[-1 ' >)6=*/% 2' QKN)*' D*>6?*' + >6-' 1 ' L2 25' 620' -*>,1-' 1 ' ,% < 6- .' - 62.,12*' _;6-*' 2' QK % : *' 0 _' 0' 2' Q Q% : .' =- 2> =6/' 81-9.' 6->' & ' 9 ' " ' ? +' ' ' ' " ' "' ' & 9 ' ' ' ; ' ' ' # ' ; 9 ' ? +' ; ' ' ? +' - ' " ' ? +' @ 9 " ' ' " ' '@ " 'M *20% QK ,)*' 0% K' +1/.1' Q+1X% ; ' ' ; += 'M 120% Q K'-1 6/' Q+1X% -" ' ' 'M 120% QK 'Q+1X% $ 9 ' ' ' 'M 120% QK Q+1X% *A,>%C' 6-/ 25' ' ; " '.% +% % 6 "' ' .% +% o D/6)% **' ' ! 6 ; 6' M : *D-*8 ' # * ' -1; 20

+-6/ 1 ') .' 8- , 25.')6+*' D**2',-62./6,*0' 2,1'1,)*-' /625;65*.I' 12*' *+*2' 2,1') 2*.*%' I 2' 6' .> *2, >' =1 2,'1 '+ *8 ') .' 8- , 25.' 6-*' 1 '21' 5-*6,'+6/;*%

>9* 'B1) 2' < %' 6' -*.D ,*- 62' ? 2 .,*-' 86.' D1?' 2' 1-9' .,- >,' % %' *>' S' QR% ,*-' 1+*->1? 25' ?62 ' 0 >;/, *. ')*' >1?=/*,*0') .' ,)*1^ /15 >6/ .,;0 *. ' 86.'/ >*2.*0' 2' Q ' 620' D*>6?*' ? 2^ .,*-' 1 '&) ,*' +*-') ;->) ' 2*6-' & 6.) 25,12' 6+ .' 1;2, ' 20% &)*2' 1-06 2*0' 2' Q ')*' A1 2*0',)*' 6/*?' -*.D ,*- '620' 0*+1,*0'?;>)' , ?*' 6.' 6'+1/;2^ ,6- ' ? .. 126- ' ,1' 0*., , ;,*' =/6>*.% 2' Q R')*' -*^ ?1+*0',1' *L 25,12' >1,,' 1;2, ' .;==/ *0',)*' >) ;->)' 1 ' 4-6)6?' 620' 86.' 2.,6//*0' 1+*-' .56)' 620' *L^ 25,12% : *' .;D.*_;*2,/ ' + . ,*0',)*' +6//* ' 1 ',)*' & 6D6.)' 620',)*' >*2,-6/ =6-,' 1 ' 20 626 ' 8)*-*')*' 1-^ 562 [*0',)-*' >) ;->)*.% -1?' QN ') .' /6D1-.' 8*-*' >12 2*0' 8 ,)' / ,,/*' *L>*=, 12',1',)*' .56)' >) ;->) ' 8) >)') .')*6/,)' 1D/ 5*0') ?',1'-*. 52' 2' Q ' 8)*2')*' D*>6?*' 62' 65*2,' 1-' ,)*' ?*- >62' (-6>,' 1> *, %% : *' 0 *0' 1+% K Q R' : *' =;D/ .)*0' & ' # ' ' " ' ' " " ' 'M QKQX' 620' & ' $ ' (' 600-*..*0',1') .' - *20.% ' =-65;*' & 1' +'

>9* '& // 6? ' 6' -*.D ,*- 62' ? 2 .,*-' 86.' D1?' *>% S ' 2' 1-9' 1;2, ' % % : .'=6-*2,.' .112' 6 ,*-' -*?1+*0',1' *2,;>9 ' 8)*-*')*' 5-*8',0' ?62)110% : *' 1D,6 2*0'62' *0;>6, 12' 8 ,)' ? ;>)' .*/ 0' 0*2 6/' 620' 2' Q K' 86.' / >*2.*0',1'=-*6>)% : *' /6^ D1-*0' 1;-,**2' *6-.' 8 ,)',)*' >) ;->)*.' 1 ' 6/*?' 620' *,)62 ' % ' 620',)*2'-*?1+*0',1' & 6.) 25,12' 6^ 6 *,,*' 1;2, ') 1' 620' .112' 6 ,*-' ,1' /11? 25' D;-5') 1' 8)*-*')*' -*?6 2*0' 1-, ' *6-.% : 1' 0 *0' 2' *>*?D*-' Q % ' & /.12' '# !'& = ' Q4 '=% K%

>9 2.' (' ' 6' 0 .,25; .)*0' =-*6>)*-' 1 ' ,)*' <*,)10 .,' = .>1=6/) ;->) ' 86.' D1-6' 2' 12012' S% : *' .,;0' 0*' 6,' ,12' 1//*5*!' *? 5-6,*0',1' ?*- >6' D* 1-*',)*' *+1/;, 12!' D*>6?*' 6' <*,)10 .,' 2' !' =-*6>)*0' *L,*2. +*/ ' 2' -5 2 6' 620' 1-,)' 6-1/ 26' -1?' ', /' QK' 8)*2')*' /1>6,*0'D;,'>12, 2;*0') . ? 2 .,*- 6/ /6D1-.' 0 / 5*2,/ ' 2' -5 2 6% .)1=' .' D;-' ?*,') ?',)*-*' 2' Q '8)*2' >9 2.' -6?*0' 6' .;D.>-=, 12' =6=*-' 1-' 6',*? 26-E7' 12',)*' =/62' 1 '& *.^ /* .' 25.8110' >)11/',)*' -.,' =-1A*>,' 1 '6' / ,*-6-' 2.,.;, 12' 6?125' ?*- >62' <*,)10 ..% ,'-*.;/,*0' 2' 19*.D;- I 1//*5*% ',)*' >/1.*' 1',)*' 86-' .D;-' 20;>*0') ?',1'51',1' *8' 1-9'8)*-*')*',119')6-5*' V'B1)2C.,-**,');->)',)*' -.,' ?6-- *0' =-*6>)*-' 8)1' 1>>;=*0',.'=6-.1265*% /6D1-.' 8*-*' .;>>*.. ;/ 2' 56,)*- 25',15*,)*-',)*' -65?*2,.' 1',)*');->)' .*-.^ 1;./ 'D-19*2'D ',)*'-*>*2,'86-' >9 2.' 86.')*-1',)*' -.,' ?*- >62' =-*6>)*-',1' -*>* +*' D .)1=' 19*'620' 6==-1+*' & *./* .' .>)*?*' 1',)*' 1-562 [6, 12' 1',)*' 0*21? 26, 12% :*')60' ' ?=1-,62,' ' 2',)6,' 81-9% 2' Q ')*',-6+*//*0' *-, *' ->;, ' 6% :1' 86.' -*6==1 2,*0',1' *8' 1-9' 2' QS' Q ' QQ% 2' QR')*' 86.' .,6, 12*0' 2') /60*/=) 6'620',)*-*' D*C' 56272*' 1',)*' 5-*6,*.,' 2.,;, 12.'1' ?*- >62' <*,)^ 10 .?' ,.' ' 119' 12>*-2TJ',)*-*' 6/.1')*' 0 *0' 2',)*' ?*?1-6D/*' 1;,D-*69' 1',)*' *//18' *+*-' 2' RQ% :*' 86.' 12*' 1',)*' .1;20*.,' ? 20.' 620' 6D/*.,' =-*6>)*-.' 1'*6-/ '<*,)10 .?'6'5110'.>)1/6-' 2' 25/ .)' 6, 2' 4-**9' :*D-*8'620'?6,)*?6, >.' 62' 2 ;*2, 6/>1;2^ .*/1-' 620' 6' ? 5), '=-*6>)*-% ' ,*+*2. .' # ' ' " ' "!' 6% ! " " ' +1/% ' ' 620' + '=6.. ?' 9 ' ' ' R%

>9 2.12' ; ., 2' 6' 125-*56, 126/ ? 2 .^ ,*-' 86.' D1-6' 6,' ?)*-.,' <6..%' *D% ' R % :*' 5-60;6,*0' 6,' 6-,?1;,)' Q NT' .,;0 *0',)*1/15 ' 6,' - 2>*,12T' 86.' 60? ,,*0',1',)*' ? 2 .,-' *D% K Q R' 620',-6+*//*0'.1;,)' 1-') .')*6/,)% :*' *6?*' 1-,)' 2' QIKK' 620' D*>6?*' 65*2,' 1-' =)*-.,' 1//*5*' 620(86.' +*-.' * > *2,' 620' .;>>*.. ;/' ' *. 0*.' D* 25' /6-5*^ / ' .;>>*.. ;/ 2' -6 . 25',)*' >)6-,' ;20' 1 '] ' 8) >)' 1' =*-?62*2,' =-1.=*-, ',1' ,)*' >1//*5*' 620']N ' 1-' 5*2*-6/ =;-=1.*.')*' *L^ *-,*0' 6.' ? ;>)' 2 /;*2>*' 6.' 62 ' 1',)*-' ?62' 2' 1D,6 2 25' 6')6-,*-' 1-',)*' >1//*5*J'M =-65;*X% 2' QKS')*' .,6-,^ *0',)*' 6, 126/ -*6>)*-J' 2' *8' 1-9' 620' 86.' ,.' *0 ,1-' ;2, /' QNQ% 2' Q ')*' D*562' 8- , 25' -*/ 5 1;.' 6-, >/*.' 1-' ,)*' .*>;/6-' =-*..' 620' >12, 2;*0' 6,' ,) .' ;.* ;/ ,6.9' ;2, /' ,)*' *20' 1 ') .' / *' ;5% Q R% ' ' =-65;*' & ' ' S %

>9 2.12' B126,)62' %<%' 6' -*.D ,*- 62' ? 2 .,*-' 620' -*. 0*2,'1' - 2>*,12' 1//*5*' 86.' D1?' 6,' :6, */0' <6.. ' =-/ KIK' 4QQ' 620' 5-60;6,*0' 6,' 6/*' S% ,*-' D* 25' *2565*0' 1-' .1?*', ?*' 2',)*' .,;0 '1',)*1/15 ')*' 86.'/ >*2.*0'620'1-06 2*0' 2' R% : .' */0' 1' /6D1-' *?D-6>*0' / [6D*,),182' 6)86 ' &*., <0' 122*>, >;,' 6-?.' =-25 */0' 620')6,^)6?' B% 2' ')*' A1 2*0',)*') /60*/=) 6' -*.^ D ,*- '8)*-*')*' >12, 2;*0',1' *L*-> .*') .' ? 2 .,-' 1-'2*6-/ ' 1-, ' *6-.% 2',)*' 5-*6,' &) ,* */0 62'-*^ + +6/)*' .,110';=' -?/ ' 2'0* *2>*' 1 ',)*' 5*2; 2*2*..' 1',)*' 81-9' 620' 12' 12*' 1>>6. 12' 6,'/*6..' &) ,* */0' .' 9218 2',1')6+*' =-*6>)*0' 2') .' =6-.)',1' 62' ? ?*2.*' >125-*56, 12% , // ')*')60' 21' . ?=6,) ' 8 ,)',)*' =-*+6 / 25' 626, >6/ ,*20*2> *.' 1',)*', ?*' 620' ?62^ *.,*0',)*' ;, ?1.,'>6;, 12' 2' 0 .>- ? 26, 25' D*,8**2' 6' ,?*' 620' 6/.*' -*/ 5 1;.' *L=*- *2>*% : *' =;D/ .)*0' 6' ,-6>,'D*6- 25' 12',) .' .;DA*>,' 8- ,,*2' 8 ,)' 5-*6,' + 51-' 620'0 .>- ? 26, 12% .*-',)*' 0 + . 12' 1',)*' -*.) C' ,*- 62');->)' 2' ' 2,1',)*' 210.' 1' *8' 1-9' 620')/60*/=) 6' *6>)' . 210' 86.' 2,*2,' 12' ?69 25' =-1+ . 12',1',-6 2' ;=' 1;25' ?*2' 1-' ,)*' ? 2 .,- % >9 2.12' 86.',)*' 6>9218/*05*0I/*60*-' 1',)*' 210' 1' *8' 1-9' 6.')*')60' D**2' 1',)*' 1/0' 210' 1') /^ 60*/=) 6' D* 1-*',)*' .*=6-6, 12' 620')*' .';==1.*0',1')6+*')60' 6'=- ?6- ' 2 /;*2>*' 2' 1- 5 26, 25',)*' 1/^ /*5*' 1' *8' B*-.* % ')6-,*-' 1-' 6' >1//*5*')6+ 25' D**2' 1D,6 2*0' -1?',)*' 6>, 25' 51+*-21-' 1',)*' >1/12A7 ,)*' 2.,,;, 12' 8)>)',119',)*' 26?*' 1' 6..6;' : 6// ' 8*2,' 2,1' 1=*-6, 12' 8 ,)' B126,)62' >9 2.12' 6.' ,.' =-*. 0*2,' ,)1;5)' 2',69 25' ;=12') . /' ,)' 2*8' 1 >*')*' 0 0' 21,'-*/ 2_; .)' 62' 1') .' 0;, *.' 6.' 6'=6.C7 ,1-% ,' 0 0' 21,'>1? ?*2>*' ,.' 1=*-6, 12.', // S' 620') .' 0*6,)' 1>>;--*0' 12',)*' ,)' 1' >,1D*-' % : .' =;D/ >6, 12.' 2>/;0*' &' ' ' ' ' ' 9 ' M K XT' @ ' $ ' ' " ' 5 " ' M NKXT' @ ' ' ' ' ' ' " 9 ' @ " ' *,>% M XT' &' ' % ' ' ? (' % ' ? ' M KXT' 5 ' '5 ' "' ' N 9 ' ' ' " ' ' ' ' M XT' &' N ' ' ? (' ' ' ? ' M SXT' &' ' N 9 ' *,>% M QXT' 620' .*+*-6/ 0*,6>)*0' .*-?12.% ' ' =-65;*' & ' ' %

>9 2.12' *6-0' 62' 25/ .)' & *./* 62' ? 2^ .,*-' 86.' D1-2' 6,' (1=.)6?' *+12.) -*' 1+% S Q% : *' -*>* +*0' 6' >6-* ;/ ,-6 2 25' -1?' 6' 8*//C*0;>6,*0' 6,)*-' 620' 2' '8*2,',1' - .,1/' 8)*-*')*' .112' A1 2^ *0' 6' <*,)10 .,' .1>*, % :*' *2,*-*0' L 1-0' 6.' >1?^ ?12*-' 1' ,% 0?;20' : 6// 2' R' =6..*0' % % 2' QK' 620' % <% 2' Q % 2' QN)*' 86.' 1-06 2*0' 2' ,)*');->)' 1' 25/620' 620' D*>6?*' >;-6,*' ,1' *--1C' 2*,'M_% +%' 6,')1-*)6?% 2' QS')*' 8*2,',1' 1 01H' 6.'=6.,1-' 1' 12*' 1' <-% & *./* .' .1>*, *.' 620' >12, 2^ ;*0',1'-*. 0*',)*-*' 2*>)6-5*' 1'+6- 1;.' .1>*, *.' 0;-^ 25',)*' -*.,' 1')' .' / *% ' *' 0*0' <6' Q K' :*' 86.' 6' ?62' 1'5-*6,'/*6-2 25'620' *.=*> 6// '62' *L>*/^ /*2,'/ 25;..% : .'-*.*6->)*.' 2',)*' *6-/ '8-, 25.' 1')-.,62, ' 8*-*' +*-' ,)1-1;5)% :*' 86.' 6' ;.* ;/ 620' D*/1+*0' =6.,1-' 62' 2, ?6,*' -*20' 1',)*' &*./* .' 620' 6'.1-,'1' 2,*-?*0 6,*' / 29' D*,8**2',)*');->)' 1' 25/620' 620' & *./* 62' <*,)10 .?% ' ? ,)' # ' ' ' ' " ' I T' B6>9.12' "# ' ; 9 %" :' ,*+*2.' # ' ' " ' ' N %

>9.12' ' 62' *? 2*2,' >1,>)' 0 + 2*7' 86.' D1-2' 6,' 4/6.518' 2' QN' 620' *0';>6,*0' 6,',)*' $2 +* a' . ,' 1' 0 2D;-5)' 2' 8) >)')*' 6 ,*-86-0.' D**0?*' =-1^ *..1-' 1') /1.1=) % : 6+ 25' D**2' 6==1 2,*0' ? 2 .^ ,*-' 1' -+ 2*' 2' S Q')*' D*>6?*' 6' +*- '=1=;/6-'=-*6>)^ *-% 2' S N')*' D*>6?*' =-1 *..1-' 1' + 2 , ' 2',)*

= /*-' *2,*-,6 2*O% ,'/*25,)'6'2*8' *0 , 12'1 ' 6/?*,' 86.' ;20*-,69*2'D ' <-%)6-/*.' (6 /1- ' 620' 6==*6-*0' % 2' R ' 2' 1;-' 620' 2' /6,*-' *0 , 12.' 2' / +*' _;6-,1' +1/; ?*.% ( ) .' 86.' 6' +*- ' *>>*2,- >' =*- 1-?62>*' >1?=1.*0',) ; .d ,81' +1/; ?*.' >12. .,*0' 1 ' ' 9 ' 1 ' 6/?*,' 12*' +1/; ?*' 1 '*25-6+ 25. ' 620' ,81' +1/; ?*.' 1 ' ` -65?*2,.%I' ()*.*' -65?*2,.' >12,6 2^ *0'6' .=- 29/ 25'1 ' ; .* ;/ ?6,,*-' 0-6+ -2' -1?') .,1- *.' 620',-6+*/.'D ;',)-*'' 1 ;-,).' 1 ',) *' 8)1/*' >12. .,' . 25;/6-/ ' 8 /0' 620' 62> ;/ .=*>;/6, 12.' -*.=*>, 25' ? ,)1/15 ' *,)21/15 ' 26,;-6/) .,1- ' 62, _; , *.' 620' .;20- ' 1,)*-' ?6,,*-.' 620' 6-*' -*=/*,*' 8 ,)' ;2^ .1;20'/*6-2 25'1 ';-65*1;.' *, ?1/15 *. ' 620',) *' 656I' - *.' 1 '62';20 .> =/ 2*0' 2,*//*>,% 6/?*,' ,) ;.',-62. I' ' 1-?*0' 620' >12,6 2 25'6.' ? ;>)'1 ',) *' *0 ,1-'6.' 1 ',) *' ' 1- 5 26/ 6;,)1-')6.' 2' ,.' ;-2' 1-?*0' ,) *' D6. .' 1 ' 2*6-/ ' 6//' ,) *' D/ >6/ 0 >, 126- *,' 8) >)')6+*' . 2>*' 6==*6-*0 ' 2>/20 25'6' +*- ' =6 2.,69 25' 0 5*.',1 ',) *' ?1-*' ;. * ;/ =6-,.' 1 ' (6 /1- ' ?6,,*-' 2>1-=1-6,*0'8 ,)' ,) *'0 >, 126- ' ;20*-' 12*' 6/=)6D*,' ,) *' 8)1/*' 6D- 05*0' 2,1' 12*' +1/; ?*' -1 6/' Q+1' 8) >)' 6==*6-*0' 2' QNK% () .' 81-9' 86.' 2',) *' .6?*' '-*=-10;>*0' 2' 1.,12' ;20*-',) *' . ;=*-+ . 12' 1 ' -% 1D 2.12 8)1' ?60*' 01,2*' *8' D;',+6/;6D/*' 600 , 12.',1'=6-, >;/6-'6-, >/*.I' M ,,1X% 6/?*,.' 182' 0 >, 126- ' .' .. // 6' .,6206-0' 81-9' 8 ,)' 1?62' 6,)1/ >.' 620'6' ?10 *0'*0 , 12'1 ' ,' .' 2>1-=1-6,*0' 2,1',) *' *L,*2. +*' .*- *.' 1 ' ' = ' " ' /6,*/ ' =;D/ .)*0'D ',) *' DDS' < 52*' 6,' 6- .%3 ,' 2*+*-' 86.'0'=-1 1;20'81-9')18 *+*-' 620')6.' 218' .1' 6-' 6//*2' D*) 20',) *' =-15-*..' 1 ' D/ >6/ .> *2>*' 6.',1' D*' 1 ' / ,,/*' ;.*' ,1' ,) *' .,;0*2,' D* 120' ?*-*' ,*L,;6/ =;-=1.*.% 3 MK%X' /,)1;5)',) *' 81-9' 1 ' 6/?*,' 86.' ,) *' ?1.,' /*6-2*0' 620' =-6>, >6// ' ;.* ;/ 1 ' 6// . ? /6-' =-10;>^ , 12.',) 6,') 60') ,) *-,1'6==*6-*0' *,*,) *' =6-, 6/ .,6O' =1 2,' 1 ',) *' 6;,)1-' -*20*-*0' ,' ;2.;,*0',1',) *' *2^ /6-5*0' /*?620./ 1 ',) *' =-*.*2,' 65*' 8) >)' 8 ,)' ,) *' .;=*- > 6/ , ' 620' 862,' 1 ' =/62' 2' /6,*-' 81-9. ')60' D-1;5),'=*- 1-?62>*.' 1 ',) .'9 20' 2,1'.1?0'0 .-*=;,*' 620' ,' 86.' -*.*-+*0' 1-' 2' 4% & 2*-' M %+%X' 6' /*6-2*0',)*1/15 62'1 ' *=.>',1'-*.,1-*' ,)*?',1',)*-' 1-?*-' >-*0 ,' D ') .' ; + ' = '" M > =[% 7K K'+1/.%Q+1X'1 '8) >)'6'.*>120'620' ?=-1+*0'*0 ^ , 12'86.' =;D/ .)*0' 2' QNNCNQ'620'6',) -0' ., // ;-,)*-' *2/6-5*0' 2' Q Q% ( ) .' .'6'8)1// '1- 5 26/81-9' *L^ *>;,*0' 2',) *' ?1.,' >6-* ;/ 620'.>)1/6-/ ' ?622*-' 620' 2*6-/ '*L)6;., +*'6/,)1;5)' 2'6'+*- '>120*2.*0' 1-?' 1 ',) *' >/6.. >6/ 620'*6-/ *-' ?10*-2' //;.,-6, 12.' 1 ' DC' / >6/ ,1= >.% ,' .'6'?6.,*-/ '=*- 1-?62>*' 1 ' ,.'9 20' 620')6.'D**2'1 ' *- '5-*6,'.*-+ >*' 2',) *'>1?=/6, 12'1 ',) *'=-*.*2,' >/1=6*0 6% '( ) *'.=)*-*' 1 '& 2*- .'81-9' .')18*+*-'26--18/ '0-682'D* 25'0*. 52*0'6/,15*,) *-' 1-' .,;0*2,.% ()*>-, >6/,-*6,?*2,' 2' ,' .'1'6'+*- ' ;2*_;6/ >)6-6>,*-' 620'?6= '1',) *' .;DA*>,.'*L6? 2*0' 2' ,.'=65*.'*.=*> 6// ' 2',) *'0*=6-,?*2,'1'26,;-6/) .^ ,1- ')6+*/ ,,/*' -*/6, 12',1',) *' D/*%J% ? /6-'=;D/ ^ >6, 12.'D '+6- 1;.'1,)*-'8-,*-.')6+*'D**2'=-10;>*0'12' ,) *' 12, 2*2,'1 ' ;-1=*' D;',) * ' >6221,' D*' -*56-0^ *0'6*'*L) D , 25'*_;6/ >/6 ?.',1'.> *2, >'>-, > .?'1-' 8*/C>12. 0*-*0' 6--625*?*2,% *+*-6/ 1 ',) *.*' 8 // D*' 21, >*0'D*/18* % MN%X' '5-*6,'60+62>*' 12'6//=-*0*>*..1-.' >12.,,;,^ 25' ,' ?6 ' D*' .6 0 ' 6' 2*8' *-6' 2',) *') .,1- ' 1 ',) *' .;DA*>,' .' ?6-9*0' D ',) *' 6==*6-62>*' M 0 2D% Q 'K +1/.%Q+1X'1 ',) *' % ' '; ' 1' *0^ ,*0' D ' 81) 2' ,,1 ' % %' M_%'+%X' >) * / ' -1?',) *' >12,- D;, 12.' 1 '1- 5 26/6-, >/*.' D ' 1-, ' 8-,*-.' 2^ >/;0 25' ?62 ' 1 ',) *' ?1.,' *? 2*2',) *'1/15 62.' 620' D/ >6/ .>)1/6-.' 1 ' -1,*.,62, . ?' 2' 4-*6,' - ,6 2' 4*-?62 ' 620' ?*- >6' 6' 0;=/ >6,*' *0 , 12' 86.' 6/.1' ..;*0' 2',) .' >1;2,- ' M %' %' Q KX%' ( ) .' 81-9' 21,' 12/ ' >1+*-.' 6' /6-5*-' -625*' 1 ',1= >.' >122*>,*0' 8 ,)' ,) *' D/*' 2' ,.' 6->)[*1/15 '620' 2,-10;>, 12 'D ;,'6/.1')620/*.' *6>)' .;DA*>,' 8 ,)' 6' -*.)2*..' 620'6D / , ' =-*^ + 1;./ ' ;26,,*?=,*0% 2',) *' D 15-6=) ' 1 ' D/ >6/ >)6-6>,*-.'6'0*=6-,?*2,'?1../ '1>>;=*0'D ',) *'*0 ,1-' / 9*' ?10*?') .,1- % ( ) *' 5*15-6=) '620') .,1- ' 1 ' ,) *' D/*' 6->' ;206?*2,6// ' 2+*., 56,*0'62*8% ( ) *' 0*,6 /.' 1 ' D/ >6/ >-, > .?'6-*' 5 +*2' 8 ,)' >/*6-2*..' 6>>;-6> ' 620' >12. 0*-6D/*' >1= 1;.2*..% 1-',) *' /-.>M620'8*' ?6 ' 6/?1..' .6 ',) *' 12/ X', ?*',) *' 0 >;/^ ,*.' 1 ',) *' 26,;-6/) .,1- ' 1 ',) *' D/*' 6-*') *-*' + 5^ 1-1;./ ' 5-6==/*0' 8 ,)' D ' =*-.12.' M -% 1 /*' 2' ,) *' 0*=6-,?*2,' 1 ' - *2,6/ D1,62 ' 620' 1/% % : 6? /,12' ? ,)' 2' ,) 6,' 1 ' D/ >6/ [11/15E X' >1?=*,*2,' 2' ?10^ *-2' .> *2>*' ,1',)-18' / 5),' ;=12',) *?% - *2,6/ >;.^ ,1?.' 6-*' 0 / 5*2,/ ' 620' >6-* ;// ' ' 620' 1/0' *--1-.' .>- =;/1;./ ' 8**0*0' 1;,' ' ,1/*-6D/ ' >1?^ =/*,*' + *8' 1 ',) *' / ,*-6,;-*' 1 '*6>)' .)DA>>,' ./'6/.1' ;.;^ 6// ' 5 +*2% 2' .)1-,' 62' *6-2*.., ' / D*-6/ ' 620' A;0 ^ > 1;.' .>)1/6-.) =' .' D-1;5),',1' D*6-' ;=12' *+*- ' ,1= >' M8 ,)' D;,' *8' *L>*=, 12.X',)6,'6-*' 6==-1=- 6,*',1',) *' .>1=*' 1 '.;>)'6' 81-9% ,')6.' D**2',) *' D6. .' 1 '6'/6-5*' 2;?D*-' 1 ' ?=1-,62,' D/ >6/ 6-,>/*.' 2' ,) .' >/1^ =6*0 6% ( ) *' 12/ ' .*- 1;.' 0-6 8 D6>9' ;=12', .' 5*2*-6/ +6/;*' .' 6',*20*2> ',1'=-1/ L '620' 2' .1?*' >6.*.',1' 6' .=*>;/6, +*' +* 2',15*,/ *-' 8 ,)' ,) *' 6/?1..' 2*+ ,6D/*' >12.*_;*2>*.' 1 '6' ? ;/, =/ > , ' 1 '6;,)1-.' /*60 25',1' 1? . . 12.' 2' .1?*' >6.*.' 620' 0 .>-*=62>*.' 2' 1,)*-.% ( ) *' *0 , _2' 1 ' Q S'6/,)1;5)' =-1 *.. 25',1' D*' >6-*^ ;// ' -*+ .*0J' D ' -% ;-5*. . ' 6/,15*,)*-' 6 /*0' ,1' -*?*0 ' ,) *.*' 0* *>,.7' D* 25' =- 2,*0' -1?' ,) *' .6?*' .,*-*1, =*'=/6,*.' 8 ,)' ,) *' >)625*' 1 '6' *8' =65*.' 620' 62' ;2 ?=1-,62,' .*2,*2>*') *-*' 620',) *-*' +*- ' ?62 ' 1 ',) *' ?1.,'=6/=6D/*' *--1-.' D* 25' /* ,' ;2>1-->>,>0% ' -*6// ' 2*8' 620' 5-*6,/ ' 6;5?*2,*0' *0 , 12') 6.' 218' M 0 2D% QSK g'+1/.%-1 6/Q+1X' D**2'>6-- *0',)-1;5)' ,) *' =-*..' D ' -%B% ' /*L620*-' 8 ,)' ,) *' 6 0'%1' 6' 2;?D*-' 1 '.>)1/6-.' 8) >)' 8) /*' .;D.,62, 6// ' 6' -*^ =- 2,'1 '?62 ' 1 ',) *' 1/0' 6-, >/*.') 6./6-5*' 600 , 12.'1 ' 2*8' 12*.' *.=*> 6// ' ,) *' %" '1 '*? 2*2,' D/ ^ >6/ 8-,*-.' ,) ;.' ?1-*' ;// ' -*6/ [25',) *' .=*> 6/ , ,/*' 1 ',) *' 81-9% ()*' 6-, >/*.' 12' D/ >6/ 5*15-6=) '620' >-, > .?' 6-*/ 6/.1' D-1;5),' 0182',1',) *' =-*.*2,' .%,6,*' 1 ' 2+*., 56, 12% M %X' ()*' 12/ '-*?6 2 25' 81-9' 8) >)' 1-' 1- 5 26/ , ' 620' -*.*6->)' 0*.*-+*.' ,1' D*' ?*2, 12*0' 2' >1?=6- .12' 8 ,)',) 7' 1-*51 25' .',) *' ' ' '" '; 'M 120' Q4 C ' N' +1/.%' Q+1X' *0 ,*0C D ' & ?' ?' ,) ' % %' 1 ',) *' $2 +*-. , ' 1 ' 12012' 620' >12. .,25' / 9*',) *' =-*>*0 25' =' 6-, >/*.' =-*=6-*0' 6 -*.)' D ' A C,)-*** ?2*2,' 25/ .)' 620' ?*- >62'.>)1/6-.' 6/,)1;5)',) *' 26?*.' 6==*20*0',1',) *' .*+*-6/6-, >/*.' 6-*' 21,'6/8 6 .' ,)1.*' 1 '=*-.12.' .1' 8*// 92182',1' D*' =-1 > *2,.' 2',) *' ,1= >.' 6.. 52*0',) *?% ()*' 81-9' .' 1 '6'+*- ' *%/6D1-6,*' 620'/*6-2*0' >)6-6>,*-' 620')6.' D**2' =*>;/ 6-/ ' 6+6 /6^ D/*' 2',) *' %=-*=6-6, 121 1',) *' =-*.*2,' >/1=A*0 6' -1?' ,)1.*' -*/6, 25',1' 26, ;-6/ .> *2>*' 6-*' D ' 21' ?*62.' .1' .6, . 6>,1- ()*' 6-, >/*.' 6-*' 8 ,)'6'+*- ' *8' *L>*=^ , 12. ' ,*-.*' 620' >1?=6>,' 8 ,)' 6',*20*2> ')18*+*-' ,1' *L=62. 12' 6.',) *' 81-9' 60+62>*.% ,' >12,6 2.' 62' ? ?*2.*' D10 ' 1 '+*- '+6/;6D/*' 2 1-?6, 12',1%6'/6-5*' 0*5-*** 2*8' 620' 1-',) *' ?1.,'=6-,' 8*// 0 5*.,*0' 620' 60?-6D/ ' . ;==/*?*2,.',) *' .,1>9'6>>;?;/6,*0'DEJ=-*^ + 1;.' * /1-,' 2',) *' .6?*' / 9*',) *' =-*>*0 25',' ,' >)6-6>,*- [*0' D '6' / D*-6/ ,12*' 1 ',)*1/15 >6/ .*2, ^ ?*2,% M %X' ()*' % '; ' ' 'D ' *+% % 6 -C' D6 -2 ' %7%' 8 ,)' 2;?*-1;.' >160A;,1-.' M 0 2D% QS ' ._%' K+1/.% ?=*- 6/ Q+1X' .' 1 '6' ?1-*' AX1=;/6-'>)6-6>^ ,*-' 620' 21,' .1' *L,*2. +*' 2' ,.' 5*2*-6/ -625*' 6.',)1.*' 26?*0' 6D1+*% ,' .')18*+*-'*2, -*/ ' *+625*/ >6/ 2' .*2, ?*2,% ,.' >;,. '6'2;?D*-'1 '8) >)')6+*' D**2' D1-^ -18*0' 2',) .' % 1' 6-*' =6-, >;/6-/ ' 2*% ,

, >. ') ; ->)' : .,1- ' ->). *1/15 ' *,>% D ; , ' 1 ' >1 ; -. *' 2' 6' D- 5 ' 620' . ; ? ?6- ' 8 6 % ,' 0-6 8 . ' /6-5*/ ' -1 ?' ,) *' 6 % ' % + ' M 8) >)' D*/125. ', 1' ,)*' .6 ?*' = ; D/ .) *-.X ' D ; , ' 6' 5-*6, ' 0*6/' 1 ' +6/ ; 6D/*' 620' -*^ >*2, ' ?6, , *-')6. ' D**2' 600*0' D ' -% c6M *% % ' & % % ' & ' " "" ' ' M. L,)' *0 , 12 ' 12012 ' Q K ' Q+1 ?*- >62' *0 , 12 ') /60*/=) 6 ' Q Q+1X% I' ( ) . ' .' 6' >1 ? = /6, 12' 2, *20*0' *.=*> 6// ' , 1' . *.' 1-,) ' 1-' ? * ? D*-.' 1 ' ,) *') ; ->) ' 1 ' 25/620 ' ,) *' ?1-*' ? =1-, 62, ' 01>, - 2*.' 1 ' ,) *') ; ->) ' 620' ,) *' ; 206 ? *2, 6/ + *- , *.' 1 '1 ; -' -*/ 5 12%J' .' 62' 1- 5 26/ 6 ; ,) 1- , ' , ' .' 1 ' / , , /*' +6/ ; *% /I% : 119' 601=, *0' M620' 6>9218/*05*0' , AA*' 601=, 12' 1 X' ,) *' , , /*' 1 ' -% , 6 ; 2^ , 12 .' " "' ' 1' D ; , ') *' 6/. 1' 601=, *0 J' 8 ,) ^ 1 ; , '6>9218/*05 ? *2, ' 1 '62 '9 20 ' ? 1-*' ,) 62' , '=65*. ' 1 ' ,) *' ? 6, , *-' 1 ' ,) 6, ' *L>*//*2, ' 81-9 $ . . ' ' ' ' " ' " "' M T % QNR ' K ? 1X' 620 ' 2' *2/6-5*0' 1-? ' & ' 6 ' ' 1' ' M *8' 1-9 ' QS ' Q+1X' , -*6, .' 1 ' ,) *') . , 1- ' - . ; 6/ ' 81-.) = ' 0 . > =/ 2 *' > *-*? 12 *. ' 620' ; .65*. ' 1 ' ,) *') ; ->) ' -1 ?' ,) *' =1 2, ' 1 ' + *8' 1 ' ,) *' -1, *. , 62, ' = .>1=6/) ; ->) % ( ) . ' 81-9' . ' >6-* ; /' . >) 1/6-/ ' 620' -*/ 6D/*' 8 ,) 2' , .' .=) *-*% , ' 86. '/6-5*/ ' ' ; . *0' D ' : 119' M. *** 6D1+*X% > . ' : 3 ' -" ' " " 1 ' -+ ' ' 1' ' MQO' *0 , 12 ' 120% Q RX ' 6 ? . ', 1' 5 +*' 6' =/6 2' 620' . ? =/*' *L=/626, 12' 1 ' ,) *1/15 >6/ 620' *>>/*. 6. , ^ >6/ , *-? . ' 8 ,) 1 ; , ' *2, *- 25' 2, 1' >12, -1+*-. TJ' 620' , ' 6>>1 ? =/ .) *. ' , .' 6 ?' 60 ? -6D/ % 2' , *-. *2*. . ' 620' >/*6-2*. . ' 1 ' . , 6, *? *2, ') . ' / , , /*' D119' . ' 6/ ? 1. , ' 8 ,) ^ 1 ; , '6' - +6/ 6 ? 125' D - * ' 0 > , 126 - *. % , ' . ' 8 - , , *2' 1-' ,) *') ; ->) ' 1 ' 25/620 ' D ; , ' , . ' =1 2, ' 1 ' + *8' . ' ,) 6, ' 1 ' ,) *' . 1C>6//*0' ? 10*-6, *' = . >1=6/ 62. % % - ' 6 =6 % ' '% " ' -" = ' ') " 1' ' N (' ' ' % = " ' -" ' ' ? " ' " " '+12' -% : *-[15 ' 1-0% -1 % 0% ( ) *1/1- p' 2' -/625*2' M41,) 6 ' Q CSS Q' +1/. % 620' N' . ; ==/* ? *2, 6- ' +1/. % ' 8 ,)' 2^ 0*L' +1/ ; ? *' 600 , 126/X% ( ) . ' 5-*6, ' 81-9' =-1 *. . *. ' , 1' , -*6, ' 1 ' 6// ? =1-, 62, ' . ; DA*>, . ' 2' ,) *' *2, -*' -625*' 1 ' -1, *. , 62, ' ,) *1/15 >6/ .> *2>*' 2' 12*' 6/=) 6D*, % 2' .> *2, >' ., -; >, ; -* ' 6. ' 8 *// 6. ' 2' *L, *2, ' 1 ' /*6-2 25 ' ,) . ' >/1=6*0 6' 6-' . ; -=6. . *. ' 6// 1,) *-. ' 2' ,) *' .6 ?* */0% , . ' 5-*6, *. ' 6 ; /, ' . ' 862, ' 1 ' >6-* ; /* 0 , 1- 6/ . ; 7' -+ . 12 1' *6>) ' 87, *-' . **?. ' , 1') 6+*' D**2' 6//18*0' , 1' , -*6, ') . ' . ; DA*>, ' 6. ') *' =/*6. *0 ' 620' , 1' // 12*' =65*' 1-' , *2 ' 8 ,) 1 ; , ' . ; > *2, ' -* *-*2>*' , 1' ,) *' >1?^ =6-6, +*' ?=1-, 62>*' 1 ' ,) *' . ; DA*>, . ' 0 .>; . . *0% , . ' 0* > *2> *. ' 2' 25/ .) ' 620' ? *- >62' , 1= >. ' 6-*' +*- ' ? 6-9*0 1' D ; , ' 8 ,) ' 6// 0-68 D6>9. ' ,) *' 5 26 + 1' % ' . ' 6' 5-*6, ' , -*6. ; - ' 1 ' ,) *1/15 >6/ 620') . , 1- >6/ . > *2>*' 620' ? ; . , ') 1/0' , . ' =/6>*' 1-' ? 62 ' *6-. ' 6. ' . ; >) % ' >120*2. *0' , -62. /6, 12' 1 ' ,) *' 81-9' 86. ' >1?^ ? *2>*0' 2' Q S' D ' ,) *' *+I' B% : % % ' 1? D*-5*-' % % ' 6. . , *0' D ' 0 . , 25 ; .) *0' ,) *1/15 62. ' 1 ' +6- 1 ; , ' 0*^ 21? 26, 12. % $2 1-, ; 26, *' ' ,) *' =2D/96, 12' 86. ' . ; . ^ =*20*0' 6, ' ,) *' K,) ' 2 ; ? D*-' M6-, >/*' B1. 6) X% ' D- * ' ( ) *1/15 >6/ 620' D/ >6/ >, 126-A7' 8) >) ' , 1' * ? D-6>*' 2' K +1/. % ,) *' 8) 1/*' */0' 1 ' ,) *1/15 ' 86. ' D*562' 2' 4 *-? 62 ' 6, ' ,) *' D*5 22 25' 1 ' QSQ I -" = + ' 2 != !' /D*- */0 ' QSQX% ( ) *' 26 ? *. ' 1 ' ,) *' *0 , 1-' 620' >12, - D ; , 1-. ' 6-*' 21, ' 5 +*2% 2' , . ' , *2^ 0*2> ' , '=-1 ? . *. ' , 1' D*' *2, -*/ ' 1DA*>, +*% 2' -62>*' 6' >1 ? = *20 1 ; . ' $2 +*-. 6/ >, 126- ' 1 ' >>/*. 6. , >6/ > *2>*J' I ' ' N ' $ '6 21 4 1' (1 ; -. ' QSQX' 2' K' +1/. % ') 6. ' D**2' =; D/ .) *0' D ' 6DD*' 4/6 -*' 8*// 92182' D ' 6' 2 ; ? D*-' 1 ' *L*5*, >6/ 81-9. % *. 0*. ' ,) *' 6D1+*' ,) *-*' 6-*' 2 ; ? *-1 ; . ') 620CD119. ' 12' . =*> 6/ , 1= >. ' 6--625*0' 2' 6/=) 6D*, >6/ ' 1-0*-' . ; >) ' 6. ' ;) - ? 622 ' # " "' ' " " ' 5 N 1' = ') = " " ' M : 6// *' QKSCKR ' ' +1/. % Q+1X' *5*/ ' # " "' ' " # "=+ + ' &2' " ' M QNSCNQ ' ' +1/. ' Q+1X' 1*- 25 ' ' ' " ' ' -" ' ' " ' M *-/ 2 ' QN CN ' ' +1/. % Q+1X' 1*- 25 ' ' ' + ') / 25 ' M *-/ 2 ' QN ' +1X' .-5 *-' ' ' ' -+ ' M*%O% D ' 41 ; . C .*, ' 6- . ' Q S' +1/. % Q+1X' *8>1 ? D ' "% ' ' ' M *8' 1-9 ' Q Q+1X' B12*. ' " ' ; 9 %" ' M 120% QKR K ? 1X' B6 ? *. ' 12' % 3 ! ' '5 9 ' ; %" ' M 120% Q N K ? 1X' : 119 ' 6 9 ' ; %" ' M 120% Q SC Q K Q' +1/. % K ? 1X' 9 % ' '5 ' ' ' M4/6. 518 ' QSK Q+1X C ' < 6-, 52 ' ' ' '& 4 ' " ' QS '/6-5*' Q+1X%) *' $DDS < 52*') 6. ' = ; D/ .) *0' ,) -*' .*- *. ' 1 ' ,) *' 6 % ' - " 1 4 ' >12, 6 2 25' S ' +1/ ; ? *. ' 620' =-1 *.. 25' , 1' , -*6, ' 1 ' 6// . ; DA*>, . ' 8 ,) 2' ,) *' -625*' 1 ' ,) *1/15 >6/ / , *-6, ; -*% * 8' 1 ' ,) *? ' 6L*' 1 ' . > *2, >' +6/ ; * ' 620' ,) *' 8) 1/*' .*- *. ' . '=*-) 6=. ' ,) *' /*6. , ' ? =1-, 62, ' 620' ; . * ; / 1 ' < 5) * .' 5-*6, ' ; 20*-, 6^ 9 25. % 0 *-1, ' # ' 6' -*2>) ' 8 - , *-' 620' 2 0*/ =) 0' /1.1=) *-' 86. ' D1-2' >, % N ' 6, ' 625-*. ' 2') 6 ? ^ =652*' 8) *-*') . ' 6,) *-' 86. ' 6' > ; , /*-% : *' 86. ' *0 ; ^ >6, *0' 1-' ,) *') ; ->) ' 6, ' ,) *' B*. ; , .' 1// *5*' 1 ' 62^ 5-*. , T D ; , ' 0*>/ 2 25' , 1' , 69*' 1-0*-*') *' . ; 0 *0' /68 ' .112' 6D62012*0' ,) 6, ' = ; -. ; , ' 620' 0*+1, *0') ? . */ ' , 1' / , *-6, ; -*% , *-' . *2' *6-. ' 1 ' 1D. > ; -*' 0- ; 05*- ') *' D*>6 ? *' 12*' 1 ' ,) *' ? 1. , ' 6 ? 1 ; . ' 6 ? 125' ,) 1. *' / , *-6- ' 620' . > *2, >' ? *2' 8) 1. *' 6, , 6>9. ' 12' ,) *' *. , 6D/ .) *0' 1-^ 0*-' 1 ' ,) 25. ' -*/ 5 1 ; . ' 620' *>>/*. 6. , >6/ 6. ' 8 */ 6. ' =1^ / , >6/ ' 6>, *0' ' =18*- ; // ' 2' =-*> = , 6, 25' ,) *' -*2>) ' *+1/ ; , 12% 0*-1, ' =-1A*>, *0' ,) *' 6 % 1' ' 5 1' $ 1' &' ' ' ' # $ ' 8) >) ' 86. ' 0*. 52*0' 21, ' ? *-*/ ' , 1' . ; =*-. *0*' ,) *' ? = *- *>, ' 0 >, 126- *. ' 1 ') 6 ? D*-. ' 620' 1,) *-. ' ,) *2' 2' ; . *' D ; , ' , 1' , *6>) ' 12' *+*- ' 1>>6. 12' 8) >) ' >1 ; /0' 60 ? , ' ,) *' . *6>) 25' ,) *' .1> 6/ 620' 2 0*-*1 ' 0 1>. - 2*. ' 8) >) ' 8*-*') *0' D ' ,) *' & (, *-.% 2' ,) *' >1 ; -. *' 1 ' , ' 620' 6 ^ , *-86-0. ' 0*-1, ' 8-1, *' . *+*-6/ 0 06>, >' , -*6, . *. ' 2^ 0*>*2, ' 620' --*/ 5 1 ; . ' 21+*/. ' 620' , 81' . *2, ? *2, 6/ >1 ? *0 *. ' 620') . ' = ; D/ .) *0' >1--*. = 120*2>*' *. = *> 6/^ / ' 8 ,) ' 1/, 6 -*' 620' 4- ? ? / ' ,) -18 . ' ? ; >) ' / 5) , ' 12' ,) *' 5/11 ? ' = >, ; -*' 8) >) ' -*2>) ' .1> *, ' 620' ? 1-6/ . ' ,) *2' =-*. *2, *0GJ' : *' 0 *0' 6, ' 6- . ' B ; / ' N Q ' ( ) *' 5-*6, ' =*>; / 6- , ' 1 ' 0*-1, ' / ') . ' *2> >/1=6*0 >' 9218/*05*' 620') . ' +*-. 6, / , ' 2' >1 ? =-*) *20 25' 6' +6^ - *, ' 1 ' . ; DA*>, . % *. ' >- , >6/ ,) 62' 1/, 6 -*' 620' /*. ' =) /> .1=) >6/ ,) 62' 1 ; . . *6 ; ') *' *L>**0*0' D1,) ' 6. ' 6' =-6>, >6/ , *6>) *-% ; , ' 2' ; 2D*/ * ') *' 22) 6== / ' 60^ +62>*0' 6-,) *-' ,) 62' * ,) *-') . ' , *? =*-' /6>9*0' ? 1-6/ *6-2*. , 2*. . ' 2' /6, *-' / *' D1' 86. ' 62' 6,) * . , % ' 5-18 ,) ' 1 ' ; 2D*/ * ' ? 6 ' D*' , -6>*0' 2') ? d 6, ' -. ,) *' &6. ' 6' 01 ; D, *- ' 2*L, ') *' D*>6 ? *' 6' 0* . , '/6. , / ' 62' 6,) *^ . , % 2' ,) *' -. , ' . , 65*') *' 12/ ' , -62. /6, *0' 25/ .) ' 81-9. ' 620' *+*2' >120*? 2*0' . 1 ? *' 1 ' ,) *' 25/ .) ' 0*^ . , % ' . ' 6' 5-*6, ' , -*6. ; - ' 1 ' ,) *1/15 >6/ 620') . , 1- >6/ . > *2>*' 620' ? ; . , ') 1/0' , . ' =/6>*' 1-' ? 62 ' *6-. ' 6. ' . ; >) % ' >120*2. *0' , -62. /6, 12' 1 ' ,) *' 81-9' 86. ' >1?^ ? *2>*0' 2' Q S' D ' ,) *' *+I' B% : % % ' 1? D*-5*-' % % ' 6. . , *0' D ' 0 . , 25 ; .) *0' ,) *1/15 62. ' 1 ' +6- 1 ; , ' 0*^ 21? 26, 12. % $2 1-, ; 26, *' ' ,) *' =2D/96, 12' 86. ' . ; . ^ =*20*0' 6, ' ,) *' K,) ' 2 ; ? D*-' M6-, >/*' B1. 6) X% ' D- * ' ( ) *1/15 >6/ 620' D/ >6/ >, 126-A7' 8) >) ' , 1' * ? D-6>*' 2' K +1/. % ,) *' 8) 1/*' */0' 1 ' ,) *1/15 ' 86. ' D*562' 2' 4 *-? 62 ' 6, ' ,) *' D*5 22 25' 1 ' QSQ I -" = + ' 2 != !' /D*- */0 ' QSQX% ( ) *' 26 ? *. ' 1 ' ,) *' *0 , 1-' 620' >12, - D ; , 1-. ' 6-*' 21, ' 5 +*2% 2' , . ' , *2^ 0*2> ' , '=-1 ? . *. ' , 1' D*' *2, -*/ ' 1DA*>, +*% 2' -62>*' 6' >1 ? = *20 1 ; . ' $2 +*-. 6/ >, 126- ' 1 ' >>/*. 6. , >6/ > *2>*J' I ' ' N ' $ '6 21 4 1' (1 ; -. ' QSQX' 2' K' +1/. % ') 6. ' D**2' =; D/ .) *0' D ' 6DD*' 4/6 -*' 8*// 92182' D ' 6' 2 ; ? D*-' 1 ' *L*5*, >6/ 81-9. % *. 0*. ' ,) *' 6D1+*' ,) *-*' 6-*' 2 ; ? *-1 ; . ') 620CD119. ' 12' . =*> 6/ , 1= >. ' 6--625*0' 2' 6/=) 6D*, >6/ 1-0*-' . ; >) ' 6. ' ;) - ? 622 ' # " "' ' " " ' 5 N 1' = ') = " " ' M : 6// *' QKSCKR ' ' +1/. % Q+1X' *5*/ ' # " "' ' " # "=+ + ' &2' " ' M QNSCNQ ' ' +1/. ' Q+1X' 1*- 25 ' ' ' " ' ' -" ' ' " ' M *-/ 2 ' QN CN ' ' +1/. % Q+1X' 1*- 25 ' ' ' + ') / 25 ' M *-/ 2 ' QN ' +1X' .-5 *-' ' ' ' -+ ' M*%O% D ' 41 ; . C .*, ' 6- . ' Q S' +1/. % Q+1X' *8>1 ? D ' "% ' ' ' M *8' 1-9 ' Q Q+1X' B12*. ' " ' ; 9 %" ' M 120% QKR K ? 1X' B6 ? *. ' 12' % 3 ! ' '5 9 ' ; %" ' M 120% Q N K ? 1X' : 119 ' 6 9 ' ; %" ' M 120% Q SC Q K Q' +1/. % K ? 1X' 9 % ' '5 ' ' ' M4/6. 518 ' QSK Q+1X C ' < 6-, 52 ' ' ' '& 4 ' " ' QS '/6-5*' Q+1X%) *' $DDS < 52*') 6. ' = ; D/ .) *0' ,) -*' .*- *. ' 1 ' ,) *' 6 % ' - " 1 4 ' >12, 6 2 25' S ' +1/ ; ? *. ' 620' =-1 *.. 25' , 1' , -*6, ' 1 ' 6// . ; DA*>, . ' 8 ,) 2' ,) *' -625*' 1 ' ,) *1/15 >6/ / , *-6, ; -*% , *-' . *2' *6-. ' 1 ' 1D. > ; -*' 0- ; 05*- ') *' D*>6 ? *' 12*' 1 ' ,) *' ? 1. , ' 6 ? 1 ; . ' 6 ? 125' ,) 1. *' / , *-6- ' 620' . > *2, >' ? *2' 8) 1. *' 6, , 6>9. ' 12' ,) *' *. , 6D/ .) *0' 1-^ 0*-' 1 ' ,) 25. ' -*/ 5 1 ; . ' 620' *>>/*. 6. , >6/ 6. ' 8 */ 6. ' =1^ / , >6/ ' 6>, *0' ' =18*- ; // ' 2' =-*> = , 6, 25' ,) *' -*2>) ' *+1/ ; , 12% 0*-1, ' =-1A*>, *0' ,) *' 6 % 1' ' 5 1' $ 1' &' ' ' ' # $ ' 8) >) ' 86. ' 0*. 52*0' 21, ' ? *-*/ ' , 1' . ; =*-. *0*' ,) *' ? = *- *>, ' 0 >, 126- *. ' 1 ') 6 ? D*-. ' 620' 1,) *-. ' ,) *2' 2' ; . *' D ; , ' , 1' , *6>) ' 12' *+*- ' 1>>6. 12' 8) >) ' >1 ; /0' 60 ? , ' ,) *' . *6>) 25' ,) *' .1> 6/ 620' 2 0*-*1 ' 0 1>. - 2*. ' 8) >) ' 8*-*') *0' D ' ,) *' & (, *-.% 2' ,) *' >1 ; -. *' 1 ' , ' 620' 6 ^ , *-86-0. ' 0*-1, ' 8-1, *' . *+*-6/ 0 06>, >' , -*6, . *. ' 2^ 0*>*2, ' 620' --*/ 5 1 ; . ' 21+*/. ' 620' , 81' . *2, ? *2, 6/ >1 ? *0 *. ' 620') . ' = ; D/ .) *0' >1--*. = 120*2>*' *. = *> 6/^ / ' 8 ,) ' 1/, 6 -*' 620' 4- ? ? / ' ,) -18 . ' ? ; >) ' / 5) , ' 12' ,) *' 5/11 ? ' = >, ; -*' 8) >) ' -*2>) ' .1> *, ' 620' ? 1-6/ . ' ,) *2' =-*. *2, *0GJ' : *' 0 *0' 6, ' 6- . ' B ; / ' N Q ' ( ) *' 5-*6, '

ings. Soul was absorbed in body; the inner world in the outer—a tendency fostered by physics. It was the view of things taken by the scientific mind, and lacks the poetical and feeling elements of nature—a true type of the cold and mechanical age which produced it. Diderot's atheism is a still further development of his unbelief. It is expressed in few of his writings, and presents no subject of interest to us, save that it seeks to invalidate the arguments for the being of a God, drawn from final causes. It has been well observed that the lesson to be derived from him is that the mechanical view of the world is essentially atheistic; that whosoever will admit no means of discovering God but common logic, cannot find him. Diderot's unbelief may be considered to embody that which resulted from the abuse at once of erudition, physical science, and the sensational theory in metaphysics" (Farrar, *Critical History of Free Thought*, lect. v). A collection of his principal works was published by his disciple Naigeon, in 15 vols. 8vo, 1798, and reprinted since in 22 vols. 8vo, Paris, 1821, with a life of the author by Naigeon himself, which, however, is rather a dissertation on Diderot's writings and opinions than a real biography. Supplementary to the above edition of Diderot's works are *Correspondance philos. et critique de Grimm et Diderot* (Paris, 1829, in 15 vols.), and the *Mémoires, Correspondance, et Ouvrages inédits de Diderot* (Paris, 1830, 4 vols). See also Rosenkranz, *Diderot's Leben und Werke* (1866, 2 vols.); Carlyle, *Miscel. Works*, vol. iv; Rich, *Dictionary of Biography; Engl. Cyclopædia;* Vinet, *French Literature;* Hoefer, *Nouv. Biog. Générale*, xiv, 80 sq.

Didier, or **Géry** (in Latin DESIDERIUS), bishop of Cahors, was born at Albi in 595. He was of a noble family in Aquitania, and was educated at the court of king Clotaire II, who appointed him treasurer of the crown. Dagobert, the son and successor of Clotaire, gave to Didier, in addition to his office of treasurer, that of governor of Marseilles. In 629, when his brother Rusticus, bishop of Cahors, was assassinated, Didier was chosen his successor. As bishop he became very rich, and made himself popular by a judicious use of his wealth. Didier is a popular saint in Southern France under the name of Géry. His works have been lost; only sixteen *epistles*, addressed to prominent persons of his time, as the kings Dagobert and Sigebert III, are still extant. These epistles have been published by Canisius (*Antiquæ Lectiones*, tom. v), in Migne, *Patrologia Lat.* vol. lxxxvii, and by Bouquet, *Collection des Historiens de France*, tom. iv.—Hoefer, *Biog. Générale*, xiv, 102.

Didier, ST., archbishop of Vienne, was born at Autun, and became bishop of Vienne in 596. As he gave instruction in belles-lettres and ancient literature, he was denounced to Gregory the Great as teaching his pupils pagan literature. Didier found it easy to justify himself; but, having reproved queen Brunehild for her conduct, this princess convoked a synod at Chalons sur Saone and in 603 Didier was deposed and exiled to an island in the river Rhone. Four years after he was restored to his see, but as he did not cease to censure the queen, and as he endeavored to withdraw the young king Thierry from the influence of his grandmother, Brunehild had him waylaid and assassinated in a village called Prisciniacum, on the bank of the Chalarone (subsequently called St. Didier de Chalarone), on May 23, 608. On Feb. 11, 1620, the body of Didier was transferred to St. Peter and Paul's church at Vienne. Several other churches claim to possess some relics of Didier, who is commemorated by the Church of Rome as a saint on Feb. 11 and May 23. Lives of Didier have been published by Mombrice and Chifflet.—Hoefer, *Biog. Générale*, xiv, 101.

Didrachm (Greek δίδραχμον, Lat. *didrachma*—a *double drachma*, "tribute," Matt. xvii, 24), a silver coin equal to two Attic drachmæ, and also to the Jewish half shekel (Joseph. *Ant.* iii, 8, 2). It was therefore equivalent to about 1*s.* 4*d.* sterling, or 30 cents. See DRAM; STATER. By the law every Jew was required to pay half a shekel to the Temple (Exod. xxx, 13 sq.), and this amount is represented by the didrachma in Matt. xvii, 24, where it is used for the "tribute-money" demanded of Christ (compare Josephus, *Ant.* xviii, 9, 1). The Septuagint everywhere renders the "shekel" of the Old Testament by *didrachma;* but as

Roman Didrachm with Greek Inscription.

the Attic drachma was equal to only half a shekel, it seems from this probable that the drachma of Alexandria was equal to two Attic drachmæ, or one of Ægina. See Frentz, *De didrachmis a Christo solutis* (Viteb. 1737); Schmidt, *id.* (Argent. 1701; Lips. 1757; also in his *Dispp.* p. 796–863); Leisner, *Illustratio* loci Matt. (Fridericopol. 1794); Paulus, *Erwerbungsmittel des Stater* (in his *Theol. Journ.* 1795, p. 859–73, 931–45). See TRIBUTE.

Did'ymus (Δίδυμος, the *Twin*), a surname (John xi, 16) of the apostle THOMAS (q. v.).

Didymus of Alexandria (called *the Blind*) was born at Alexandria about A.D. 311, and unfortunately lost his sight in the fourth or fifth year of his age; yet he arrived at great proficiency, it is said, in philosophy, rhetoric, mathematics, music, and divinity (Socrates, *Eccl. Hist.* iv, 25). He became master of the catechetical school of Alexandria, where his fame drew to him "numbers from distant parts to see him only;" and among his disciples were St. Jerome, Rufinus, Palladius, Evagrius, and Isidore. Anthony, the chief of the Recluses, visited him; and seeing him blind, said, "Let it nothing move you, O Didymus, that your bodily eyes are lost, for you are deprived only of the same kind of eyes as serve the basest insects for vision; but rather rejoice that you possess those with which angels are seen, and God himself is discerned." He died at Alexandria A.D. 396. He opposed the Arian doctrine, but seems to have embraced certain of the views of Origen, which caused him to be condemned at the fifth General Council of Constantinople. He was a voluminous writer, but most of his works are lost; there is a list of them in Jerome, *De Vir. Illust.* and in Fabricius, *Bibliotheca Græca*, ix, 269 sq. (ed. Harles). Those that are preserved are (1.) *De spiritu Sancto* (of the Holy Spirit), of which Jerome made a Latin version, which is preserved among his works. The Greek original is lost. It is given in Gallandii *Bibliotheca Patrum*, vol. vi; in Migne, *Patrologia Græca*, xxxix; and in separate editions, Cologne, 1531, 8vo; and (better) Helmstadt, 1614, 8vo. The book teaches that the Holy Spirit is not a mere name or property, but a real existence "in union with the Father and the Son, and different from all created things;" that it is the cause of wisdom, knowledge, and sanctification; and (Luke xi, 13) "that it is the fulness of the gifts of God; and all divine benefits subsist through it, since whatever gift God's grace bestows flows down from this fountain;" that it is *unbounded*, therefore no creature (Mark xiii, 11); that it is not of the nature

1 '625*/.' 1-',)* '6-*' 21,' N ')1/ T',)6,' ,' .' 21,' 6' > T*6,;-*' 1-' ?*2 .' .= - ,.' 0-*' .6 0',1' D*' //*0' 8 ,)' , I620' 21' ? 20'>62' D*' //*0' 8 ,)' 6' >-*6,;-*' T 21-' .' ,' 6' _;6/ , ' 1-',)*' 81-9 25' 1 '62' 67*2,' .' 6,,- D; I' ,*0' ,1' ,T',)6,' ,' *L ..,' 8 ,/7' 620' 6.' 410' 620' .' .1' >6//*0' >,.' + ' N' T' 620',)6,' ,' 8 ,)',)*' 6,)*-' 620' ,)*' 12' 1-?.' 12*' *..*2, 6/ 410)*60' 2' 6' (- 2 , ' 1 ' =*-.12.' *6>)' >6=6D/*' 1 '0 ., 2>,' >, 12' 2',)*' .6?*' , ?*' 620'=/6>*T 620',)6,',)*' : 1/ ' = - ,' .' 1',)*' '8 ,)',)*' 6,)*-' 620',)*' 12' D*>6; .*',)* ')6+*' ,)*' .6?*' 1=*-6, 12' *,>%' MK%X ; ' 6% ' 'M L=1. , 12' 1 ',)*' 6,)1/ >' = .^ ,/*.X' 5 +*2' 2' < 52*' ' ? !' +1/% LLL L' 620' 2' 1,)*-' >1//*>, 12.a' MN%X' ' + 1' 1' 8) >)',)*' 1- 5 26/ 4-**9' .'5 +*2' 2' 62 .' !' 2C' 4!' 'K 'M>1?=6-*' 6.265*.' 21,*.' 2') .' *0% 1' 62 .C' ; .XT' 6/.1' 2' 1?D* .' & ' 7 !' +1/% ' 620' 2' < 52*' 1' ? !' L L L L M %X' ' ' - ' D-' ,-*.'M (=' (=,671>XE' 8) >)' 86.' /125'/1.,' D ; ,' 86.' 1 ; 20' D ' B1)%' /1 .' < 256-*// ' 620' = ; D/ .)*0' D ') ?' 6,' 1/1526' SR' 1/%' ,' .' 5 +*2' M4-**9' 620' 6, 2X' 2' < 52*' +1/% LLL L' 8)*-*' 6/.1' 6-*' .*+*-6/ -65?*2,.' 1 ',)*' 1? ?*2,6-*.' 1 ' 0 ? ; .' 12' +6- 1 ; .' =6-,.' 1 ' >- =,;-*% **' ,)*' 21, >*.' 2' < 52*' !' ? ! LLL L' ' . _%T 6D- > ; .' ; " ' ? !' L 'KSR' ._%T 6+*' # ' 1' 6221' N T * // *-' &' =' '$ "1' +1/% + ' >)% L L' M 6- .' QS XC' >)-1*>9) ') " " " 1' + ' ' ._%T 4 ;*- >9*' ' ' ; " '& =' :' >)6/ ' # ' ! " ' " ' " " ' ' g S T 6-02*-' + 1' + ' N T ; = 2 ' 6 ' 1' ' NT /6-9*' $ ' '$ ' (=' 1' 'NR T ;>9*' ' ' 'M 41,% NKRXT' /[15' 1' g K'M -* D ; -5' QSS Q+1X

0 ? ; .' 7@4 # : '4 6D- */ '6' - *20' 620' >1^ 81-9*-' 1' ;,)*-' 86.' D1-2' 6,' B16>) ?.,)6/' 2' 1)*^ ? 6' 2' Q % : *' .,; 0 *0' 6,' -65 ; *' 620' & ,,*2D*-5' A1 2*0',)*' ;5 ;., 2 62.' 2' K' 620' D*>6?*' =- *.' 2' N% : *' 86.' 6?125',)*' -.',1' *?D-6>*',)*' =- 2> ^ =/*.' 1',)*' * 1-?6, 12' 620' 2' K' >6 ; .*0' =- +6,*' ?6..*.',1',)*-' 6D1/ .)*0' 2',)*' ;5 ;., 2 62' >12+*2,' 1' & ,,*2D*-5' 6.' 8*// 6.' ,)*' =-6>, >*' 1' D*55 25' 620' .;D., , ;,*0' 2',)* -' .,*60',)6,' 1' =-*6>) 25' 12',*L,.' ,69*2' -1?' >- =,;-*% : *' 6 ,*-86-0.' .*+*-*0') .' >122*>, 12' 8 ,)',)*' >12+*2,. ' 620' *2565*0' 2' 6-/C' .,66,'D >-; .60*' 656 2.,' /*6-2 25' D ; ,' .; D.*_ ; *2,/ ' 6>^ 9218/*05*0') .' *--1-' 12' ,) .' =1 2,% : *' /* ' & ,,*2^ D*-5') 18*+*-' 620' 8*2,' 6.' =6.,1-',1B $D*2' 620' (1-C' 56 ; % : *' 86.' 0*=1.*0' 2' R' D ' <1- ,[' 1 ' 6L12 ' 1-' .' 1==1. , 12' ,1',)*' * =[5' 2,*- ?' M_%+%X' 620' 0 *0' 2' -*, -*?*2,' 2' Q% **' *>9*201- ' ' ' " :' (*?*') " "' ' ' ' ?' 8 ' ' ' M *=. >' N ' ,1XT : *-[15' D =6 # % ' 'NQ T /62>9' ? " " ' !% !' -" ' +' K N' ._%

* (*2D6>) *-' (' 6' ? 2 .,*-' 1' ,)*' 4*-?62' * 1-?*0') ;->) ' 86.' D1?' 2*6-' < /,12' 1-,) ; ?D*-/620' 1 ; 2, ' 6%' *>*?D*-' Q Q K% : *' .=*2,') .' 1 ; ,)' 12' 6' 6-?' 620' 2' 6' .68C? // 620' >/1,)' 6>,1- % : *' = ; - . ; *0') .' =-*=6-6,1- ' . ; ; 0 *.' 2' ,)*' < /,12' >60*? '620' . ; ; 0 *0',)*1/15 ' 2',)*' ( )*1^ /15 >6/ *? 26- '1',)*' 4*-?62' * 1-?*0')2->)',)*2' 6,' 6-/ ./*' 6% : *' 86.' / >*2. *0' 620' 1-06 2*0' 2' QKQ' 620' 86.' =6.,1-' . ; >>*.. +*/ ' 2')6-=.D ; -5' >)6-5*' <0%' < *->*-.D ; -5' 6%' & 110.,1>9' 6%' 620' : 6-?1^ 2 ' ; ,/*-' 1 ; 2, ' 6% 2',) .'/6.,'>)6-5*')*' 0*+1,*0' 1') .' , ?*' 1',*6>) 25% : *' 0 *0' *D% Q K%' &) /*' 6,' & 110.,1>9')*' = ; D/ .)*0' 6' . ?6// 81-9' *2, ^ ,/*0' -" ' $ % ' ' ' ' ; % ' ' ' $% + !' ,' & 110.,1>9' 6%')*' 86.' >1?=*//*0',1' .,620' 6' ,- 6/ 2' >1 ; -,' 1-' 62' 6//*5*0' + 1/6, 12' 1 '/68' 2' *L=-*.. 25' >*-,6 2' .*2, ?*2,.' 12',)*' . ; DA*>,'1 ' ./6+*- ' 2' 62' 60^ 0-*..' 12' >1/12 [6, 12% : *' 86.')18*+*-' 6>_ ; ,,*0' D ; ,' .112' 6 ,*-'/* ',)*' .,6,% : *'=-*6>)*0' 2' 4*-?62' 620' 25/ .)' 620' 86.' 6' 86-?C)*6-,*0' 620' [*6/1 ; .' ? 2 .,*-%

=; D-0*9 ' '8 ' 86.' D1?' 6,' 1>)1/,' 2' & *.,=)6/ 6' B62 ; 6- ' ,)' RQ' 2' Q ')*' *2,*-*0',)*' -; .. 62' ? / , 6' 620' 6 ,*-' Q Q .,; 0 *0',)*1/15 '6,' 620.) ; , ' < 6 *2>*' 620' < ; 2.,*-% : *' 86.' >12.*>-6,*0'=- *.,' 2' QKN' D ; ,' -*?6 2*0' 8 ,)' D .)1=' 6 /*-' M_%+%X' 6.' .*>-*,6- '6,' *5*2.D ; -5% 2' QN')*' 86.' ?60*' 0*62' 620' 2' QN' =-*D*206 7 1',)*' >6,)*0-6/% : *' 6 ,*-86-0.' 6>,*0' 6.' *= .>1=6/ + >6-' 5*2*-6/ -1?' Q K',1' Q '86.' >-*6,*0' D6-12' 2' Q ' 620' */*>,*0'=- 2>*' D .)1=' 1 ' -*./6 ; % 2' Q Q')*' 86.' .*2,',1',)*' 6-/ 6?*2,1' 6,' 629 1-,% 2' ,)*' 51+*-2^ D*,8***2',)*' -; .. 62' 51+*-2?*2,' 620',)*' *5 ./6, ; -*' 8)>)'-* ; .*0',1',)*' 1-?*-',)*'- 5),'1 '/*+ 25',6L*.' *=*2D-1>9' + 51-1 ; ./ ' .; ==1-,*0',)*' 51+*-2?*2, ' 620' ..; *0' 6' =6.,1-6/ '8) >)' D ' 1-0*-' 1',)*' 51+*-2^ ?*2, ' 86.' = ; D/ .)*0' 2' 6// ,)*' 1 > 6/ =6=*-.% : *' 86.' ?60*' >6-0 26/ 2' Q '620' 0 *0' B62%' K ' Q N' 6, ' B1)622 .D*-5' 2' ; .,- 62' /*. 6% 2' Q ')*' 1; 20^ *0',)*' < */>) 1-' ; 20' 1 ' /1- 2.' 1-',)*' .; ==1-, ' 1 '=11-' >)6=/6 2.' 2' I)*' ; .,- 62' =6-,' 1 ',)*' 0 1>*.*' 1 ' -*./6 ; % : *' 86.' 6' ?10*-6,*' 6= .,' 620' / 9*' ?1.,' 1',)*' .>)11/ 1 ' 6 /*-' *6-2*.,' 2' = *, '620') ; ->)' -*^ 1-?.% **' f : .' =- 2> =6/ 81-9.' 6-*' ? 1' " ' ; 'M *5*2.D*-5' QKS T KO' *0% ; /[D% QSK8S T 6 ' ' !* ' ? ' !' $:' '# "' $ 1' M *5*2.D' KO' *0% QN Xa' ' VOC' " '$ 2 ' "' '620' .*+*-6/ .*-?*2.%' 'D 15-6=) '1 ' *=*2D-1>9' 86.' = ; D/ .)*0' D ') .' .; >^ >*..1-' 2',)*' .**' 1 ' -*./6 ; 'D .)1=' 1*-.,*-7' 2' Q R%' 'C *-*-' N = & + ' .%+%

*.' D.1/ ; , .?.% 2** 1',)*' 26?*.' 1' 4110' - 06 % ()*', ,/*' 1- 5 26,*0' 8 ,)',)*' >;.,1?I' 1' 6D^ .1/+ 25' =*2 ,*2,.' -1?' *>>/*. 6., >6/ =*26/, *.' 12',)6, 06 %' 7 ?D-1. ; .' 6% !' NNT *5*/'# '" !'& =' " ' 'N S%

.' 2-; ?',)*' 6, 2' 26?*' 1-' '4 " L #' M_%+ X%

*.' 1*26*' 1? 2 >6*' 1-' ; >) 6- .,' 6*' 12*' 1',)*' 0*. 526, 12.' 1' < 6 ; 20 ' ( ) ; -.06 ' M_%+%X% ,' 86.' 0 ., 25 ; .)*0' D ',)*' >*/*D-6, 12' 1',)*' 1-0 .' ; ==,*-% **' (? $ #' 0' $ #!

.' 1? 2 > ; .' M+' %) G8',)' 62> *2,' 26?*' 1',)*' 1-0 .' 6 '8) >)' 86.' 6/.1' >6//*0' ; 206 ' ' *.=*> 6// ' 8)*2' 2' 600-*.. 25',)*')*6,)*2' ,' 86.' 2*>*..6- ' ,1' 0 ., 25 ; .)' ,)*' Y ! ; - 25',)*' *6-/ '65*.' ,' 86.' 2*+*-' >6//*0',)*' 6DD6,)' ,)6,' 81-0' D* 25' >12 2*0',1',)*' .*+*2,)' 06 '1',)*' 8**9' 8/ >)' >12, 2 ; *0',1' D*' 1D.*-+*0' D ',)*' B*8. '620' 2' =6-,' 6/.1' 1-' 6' .)1-,' , ?*' ' D ' .1?*' 1',)*' >12+*-,.' ,1')- ., 62^ , %' 25)6?', !' 6 !')9% LL ')% ' g T 1/*^ ?62'& ' " ')% LL ' g K%

.' -6',)*' 6?1 ; .' 6, 2' A ; 05?*2,') ?2' 1' ,)*' N,)' 1-' ,)' >*2, ; - '8) >)' 2' ,.' -*>* +*0' 1? ' -*60.' 6.' 1//18.a

*.' -**7 0 *.' / 6 1/+*.' .*>/ ; ?' 2' 6+ /2' (*..*' 6+ 0' >?2' D //6%

7# ; 6 ; , ; .' ,-*?1-'*.,' ; , ; ?. # ; 6201 A ; 0*L' *.,'+*' ; 2 = ; 2>,6' .,- >,*' 0)*' ; . . ; -; .H (; D6' ? 2 ?' .=6-5*2.' *12 ; ?' *-' ==; />-6 -*5 12 ; ? 15*,' 1?2*.' 62,*',)-12 ; ?% <1-.' . ; =*D ; *.' 26, ; -2 #2 ?' .*-' .,-5*' ; >-*6 ; -6 B ; 0 >62, '-*.=12. ; -6%

3' D*-' .>- = .6 ; '=-1 *-*, ; -% 2' ; 1' ,1, ; ?' >12, 2*, ; - $20*' ?, 10 ; .' A ; 0 >*, ; -% B ; 0*L' *-51' . ; ?' .*0*D , # 0 2 0' /6, *' ; 6==6-*D , /' 2 ; /, ; ?' -*?62*D .% #2 0' .2?' ? .*6, ; 2>' 0 >, ; -2. #' ; *-2' =6, -12 ; ?' -156, 2-' ; . I #' ; ; ?' + L' B ; . , ; .' . ' , ' .*>; -' ; . ' *L' .-*?*20?' ?6A*..6, . #' ; ' .6/+6-01.' 1/+6.' 5-6, . 6/+6' ?*' 12.' = *, 6, 6%

>1-06-'7*.;'= >' Y
#;10' .;?'7 ; .6',;**- c>
' ?'=*-06.' / 6'0 *%
#?*->2.' ?*'.*0 .,' 6..2.
0? . ,' >-;>*'=6..;.a
(62,;.'/6D1-'212' . .';>6..;.%
B;..*'A;0*L'2/, 12 .%
12; ?' 6>' -*? .. 12 .
2,*'0 *?'-6, 12 .%' 7
25*? .>1',62_;6?'-*:,
;/=' 2 D*'+';,,;.' ?*2.a
;==/ >62,G'=6->*' *;.%
#;' <6- 6?'6D.1/+ .,
,'/6,-1 1?'*L6 0.,.'7
<)'_;1_;*'.=*?'0*0 .,%7
-*>*.' ?*?'212' . ;2,'0 52?
0' .,' D12' 6>'D*2 5 7*
'=-*22/>-*?*-' 52*%
2,*-'1+*,'/1>;?'=-**7,6
,2D')>'/ ' ?*' * .*.,-6
,6,;*2. ' 2' =6-,*'0*L,-1%
12 ;.6, .'-66/*0 >, . 7
/6?? .' 6>- D;.'600 >, . ' I
1>6' ?*'>;?'D*2*0 >, .%
-1' .;==/*.'*,'6>>/ 2 .%
1-'>12.- .,;?',;6, '>; X
4*-*'>;-6?'?*G' 2 .%
\ 6>- ?1.6'0 *.' / 6
#;6'-*.;.7*,'*L' 6+ //6'
B20 >220;.')1?1'-*;.T
: ; >'* 51' =6->*' *';.%
'B.;' 1? 2*
126'*'.'-*_;/*?/ ?*2%h

( ) .' .',)*',*L,'1',)*' :1?62' < ..6/% ( )*'/6..',. L'
/ 2*.' 8*'>12. 0*-'6.'62'600 , 12'D '621,)*-')620' -1?'
1/0*-') ?2.' 2'=;D/>';.*% 62 *'/ I-" V'" !'
' NX'5 +*.',81'1,)*-' 1-?6?'12*'>12. 0*-6D/ ' /12^
5*-' -1?'6'?6-D/*' ./6D' 2',)*' -62> .>62'>) ;->)' 6,'
< 62,;6'M -.,' =;D/.)*0' D ' <1)2 9*' 8)1' 8,)1;;'
5110'-*6.12'>12. 0*-.' ,',)*' 1- 5 26/' 1-?X'620'>1?^
?*2> 25

4 15 ,6':., $ 3'62 -16' 0*/.'
0'_; 0'-*6=120* *'+*/.'
)-.,1'+*2,;-1'0*'>11/.%

% 2 % ' ()*') ?2' .' +6- 1;./A7' >6//*0' '
' 1' ' ' % ' ' ' 1'
1'620' .' ;.*0' 2',)*' 6, 2');->)'12',)*'06 ' 1 '
// 1;/.'M 1+%'KX' 2'?6..*.' 1-',)*'0*60'620'12' ;^
2*-6/.1/*?2, *.% ,' .'6'A;05?*2,') ?2'D6.*0';=12'
,)*'=-1=)*, >'0*.>- =, 12'1',)*'5-*6,'06 ' 1 ',)*' 1-0'
2'U*=)% ' '6>>1-0 25',1',)*',-62./6, 12'1',)*' ;/^
56,*a'@ ' 9 ' ' ' " 2 ' ' '
' ' ' % ' ' ' '
' ' ' ' 2 $' ' ' ' '
% ' ' ' ' % ' ' " !(1' ()*'
-.,' 81-0./ 1 ',) .' =6..65*' ;-2 .)*0',)*' D*5 22 25'
620',)*',)*?*'1',)*'=1*?% ()*'1,)*-' >- =,;-*'=6.^
.65*.' 8)>)',)*' 6;,)1-')60' 2'+*8'6-*' .6% > ' KS'
L*+ ' N' L>+ ' N' *,>% M)*2>*' ' ' .' 2,-10;>*0' 2'
,)*',) -0' / 2*' 1',)*' -.,' .,62[6' 6.',)*' >- =,;-*'
=-1=)*,'1',),6,'06 X' K *,% ' C 'M ' ()*'06 ' 1 ',)*'
1-0' 8 // >1?*' 6.' 6',) * ' 2',)*' 2 5), J' *,>% ' 7)*2>*'
2' .1?*' +*-. 12.' .' . ;D., ,;,*0' 1-' 1' 620'
,)*'0*.>- =, 12.' 8)>)')- .,') ?.*/'5 +*.' 0/7,)*'5*2^
*-6/A;05?*2,'M<6,,' LL +'620'LL+X% ;',)*' D /
.'6/.1' ?*2, 12*0'6.',)*' -*=-*.*2,6, +*' 1',)*';2>12^
.>1;.' =-1=)*>*.' 1')*6,)*2 .?' 8 ,)' 6//;. 12',1',)*'
D // 2*' 1-6>/*' 1',)*' 0*.,-;>, 12' 1',)*' 81-/0'>1?^
?*2> 25' >'4 ' ' % 2 11 ( ) .' 6=1> 7 C
=)6/*6,;-*',)1;5)'.1?*8)6,'-*=;5262,',1' -1,*.,62,'
,6.,*'620')*2>*'1? ,,*0'1,'6/,*-*0' 2'?62 ' -1,*.,62,'
+*-. 12.' 1',)*' =1*?' .' 2' =*- *>,'9**= 25' 8 ,)' ,)*'
=6,- ., >'620'.>)1/6., >';.*'1',)*' D // 2*'1-6>/*.',)*'
,)' >/15;*'1' -5 /'620'1,)*-')*6,)*2',*., ?12*.'1'
,)*'.6?*'9 20' 1-'6=1/15*, >';-=1.*.% ,' .' 2,*20*0'
,1'5 +*',)*'0*6'1',)*'A;05?*2,'1',)*'81-/0'6';2 +*-^
.6/>)6-6>,*-' 1;20*0' 2',)*'*L=*>,6, 12.'1'4*2, /*.'
B*8.'620') ,., 62.'620' 20 >6,*0'D ',)*/ 5),'1'-*6^
.12'6.' 8*// 6.',)*'+1 >*' 1'-*+*/6, 12% ()*'2 *0 A*+6/
=6 2,*-.' / 9*8 .*' =/6>*',)*' D / 6/125. 0*' 1',)*'
=-1=)*,.'1' .-6*/% ()*'=1*?' -.,'0*.>- D*.',)*'A;05^

?*2,'6.'6'>*-,6 2' 6>,'8 ,)' ,.' 6>>1?=62 25',*--1-.'
,)*2'5 +*.'*L=-*.. 12',1',)*'.*2.*'1'5; /,'620'0 .?6 '
620'*20.'8 ,)' 6'=-6AF*-' 1-' ?*-> ' 8)>)' =-1?=,*0'
)-.,',1'0*' 1-'=11-'. 22*-.'620',1' 1 5 *',)*'=*2^
,*2,',) *%
3
% " ' 'N % '7()*' ' - ' .' ;2 +*-^
.6// '6>9218/*05*0',1'D*',)*'.;D/ ?*.,'=-10;>, 12'1'
.6>-*0' 6, 2'=1*,- '620',)*'5-620*.,'A;05?*2,') ?2'
1'6//, ?*.'620',125;*.% 62 */>-" !'" ! '=%
/'A;.,/'.,' /*.' ,' Y' ' ' ' '% A'
' ' 2 ' ') % GE '% =
!/* ,' 81;/0'D*' 0 >;/, J' .6 .' 1/*.' ,1'
20' 2',)*'8)1/*' -625*' 1 '/,*-6,;-*'6'=-10;>, 12',1'
8)>)'6'=-1 1;20*-' 2.*-*.,'6,,6>)*.',)62',1',)6,'?65^
2 >*2,'>62, >/*'1',)*'<00/*' 5*.',)*' ' ' % A'
' 6, 2') ?2.',' ',)*'D*.,'9218 2'620',)*'6>9218/^
*05*0'?6.,*-= *>*%J' (/*'4*-?62.'>6// ,',)*') ?2'1'
5 62,.'I? " 8!' 2'. ?=/>, '620' 6,)' ,'
;// '*_;6/.'62'1/0*-'6212 ?1;.' 6, 2'A;05?*2,') ?2'
1',)*'-.*+*2,)'1-'* 5),)'>*2,;- '>1?*?*2> 25' &%% A'
" ' % ' ' ' ' 8)/*' 2'/ -'>' *-+1-'
'620'* *>,'6.' 8*// 6.' 2'?6A*.,'620',*--1-' ,' 6-',;-^
=6..*.',620'6/',)*'2;?*-1;.' ? ,6, 12.'1'/6,*-',?*.%
,',.620.'.1/ ,6-'620'6/12*' 2',.'5/1-A7620'8 //=-1D^
6D/'2*+*-'D*'.;-=6..*0% ',' .',-;/' 6',) 25'1'D*6;^
,',)6,'.'6'A1 ' 1-*+*-%J' ?125'=1*,>'5*?.' ',
,)*'06?120% ,'D-*6,)*.' 20**0',)*'?*0 6*+6/.= -,'
1'/*56/..,>'-6,)*-',)62'1'A1A1;.'*+625*/>6/=*, '
D;,'1,)*-8 .*',.'_;,*' -**' -1?'*+*- '1DA*>, 126D/*'
6,;-'1' 1?62.?'8)>)'>6221,'D*'.6 0'1',)*',81'
6?1;.'$ " ' 'M,)*' ' '620',)*'-*^
>*2,/'0 .>1+*-*0' ' % 8!', 2>,;-*0'6.',)*.*'
6-*'8,)'<6-1/6,- % ,'-*=-*.*2,.'.6/+6, 12'6.'62'6>,'
1',)*' -**'5-6>*'1')-.,'4 ' ' ' !'
:*2>*',.'.6.'?;>)'60?-*0'D ' -1,*.,62,.'6.'D ' 1^
?62' 6,)1/>.% ()*'.*>-*,'1' ,.'D*6;, '620'=1+-*-'
/*.' -.,' 2',)*' 2,*2., '1')-.,62' **/25' 8,)'
8)>)' ,.'5-*6',)*?*' .')620/*0% ()*'=1*,' **/.'6.'
62'68 ;/620'1+*-=18*-25'-*6/, ',)*'>1?25'A;05^
?*2,'1',)*' _;>9'620',)*'0*60')*'>*6-.',)*',-;?=*,'
1',)*'6->)625*/.1;20 25',)-1;5)',)*'1=*2' .*=;/^
>)-*'!')*'.**',)*',;?;/,'620',*--1-';)1'0*+1-;-25'
6?*.'620' 26/8-*>9'1',)*' ;2+*-.*',)*'B;05*'
.*6,*0'2',*-- >'?6A*.,'12',)*',)-12*'8,)',)*'1=*2'
D119'1',)*'0**0.'1'65*.'0+0 25',)*'5110'-1?',)*'
>62'-*60',8,)1;,'.69 25'620'_;+*-25'8,)'*?1^
,12% ,'.'=-*5262,'8,)'/*'620'D-25.';.'6>*',1'
6>*'8,)',)*'68 ;/.>*2*.'1',)*'A;05?*2,'06 % ' ,'
.'*/*>,->6// '>)6-5*0'620'>12,6>,'.'2.,62,/'1/^
/18*0'D'6'.)1>9'620'.;00*-25'J' ()*'.*>120'>/*^
?*2,'1',..'=18*-'/*.'2',)*'2?,6D/*'1-?'8)>)'
>1?2620.',)*'60?-6, 12'1'*+*-'?62'1',6.,*%
&)6,*+*-',)*-*' .'1'052, '?6A*.,'620'?*/10'
2',)*'1/0' 1?62',125:*'.')*-*'D-1;5),'1;,'620'>12^
>*2,-6,*0'6.'2'21'1,)*-'=1*?')*6,)*2'1-')-.,62'
620'?60*'.;D.*-+*2,',1',)*'12*'5-620'0*6'1',)*'
=1*?% ,'D'121?6,1=1*,>'620'*>)1*.'6.'8*// 6.');^
?62'/625;65*'>62'01',)*'.-?'620'+(6,)'620'86/^
25'1',)*'A;05?*2,'06 % +*-'81-0'.1;20./9*',)*'
.1/*?2'=*6/1'62'1-562'1-'/9*',)*'.-;?=*,'1',)*'
6->)625*/.;?? 12 25',)*'0*60',1'*+*-/6., 25'D/..'1-'
,1'*+*-/6., 25'81*I' ()*'.,6,*/'?*,-*'.)*'.-=/*'
-)?*',)*'./*/*>, 12'1',)*'+18*/.'2'.,-9 25'606=,6^
,12',1',)*'.*2.*'620'**/25')*5),*2'620'>1?=/*,*'
,)*'*>,';=12',)*'*6-'620',)*')*6-,'1',)*')*6-*-%
()*?;.>'1',)*'+18*/6..1262>*.'620'>12.1262>*.'
%5%,)*'01;D/*',*'2',)*'KO'620',)' .,62[6.'ID($'
' .' $'.**8?.X' ,)*
'620',*'2',)*'Q0'.,62[6'M.12;?' " X T

56-0',6=;D/ >';.*'D;,'fA") >)' .112' 1;20 ,6'86 '12'6>^ >1;2,'1 ',.' 2,-2.>' *L>*//*2> ' 2,1',)*');->)' .*-^ + >*' .2>*',)*0**=*.',.;DA*>, + , ' 2'/ -><1*,- '.',)*' D*.,'9 20' 1 'DA*>, + , f' ,' >*-,6 2/ '86.' 2' =;D/ >' ;.*6/-*60 ' 2',)*' ,)' >*2,;- ' 2' ,6/ '620'5-60;6/^ / '=6..*0' 2,1',)*');->)' .*-+ >*' 1 '1,)*-' >1;2,-.*-^ .>6,,*- 25'6/125' ,.',-6>9' II,)*/;? 21;.' 11,=- 2,.'1 ' ,.' >,1- 1;.'=-15-*.'6.',)*' .;D0;*-'1 ')*6-,.%J %' - ' 1'=1*?'>)6.'.1'1 ,*2'>)6//*25201' :%&%' **>)*-.'`` / ?1;,)' 1//*>, 12'1 ' : ?2.' 620'0*0*0',)*' .9 //'1',)*' D*.',-62./6,1-.' 620' ? ,6^ ,1-.%')*' ;2;.;6// '/6-5*' 2;?D*-' 1 ',-62./6, 12.' =-1+*.',)6,'212*'>1?*.';=',1',)*' 1- 5 26/%' ,.'?;.>' ?6A*., '620'5-620*;-'>62'12/ 'D*' ?=*-*>,/ '-*=-1^ 0;>*0' 2' ?10*?'/625;65*.% ,.' 6==6-*2,' 6-,/*..^ 2*..'620', ?=/>, ' 20>6,*',)6,' ,'>62'D*',;-2*0'-*60CI' ,)*' *+% -%&% % // 6?. ' 6' 6=, ..'>/*-5 ?62'1 ' / ' 2,1'621,)*-'/625;65*'D;',.'.*>-*,'=18*-' -* ;.*.' *8' 1-9'8)>)' 6==*6-*0' 8 ,)' 6' +6/;6D/*' 21,*' 12' ,1'D*',);.',-62. *--*0 J' ()*' 4*-?62.')6+*' 5*2*-6/^ ' ' ' 2') .' 'KO'*0 ,% % % Q '=%QQC' / '.;>>**0*0'D*,,*-',)62',)*' 25/.)'18 25',1',)*' R % ()*'6;,)1-'9 20/ '>12.*2,.',1' ,.';.*')*-*'8 ,)' /6-5*-'2;?D*-'1'01;D/*' -) ?*.' 2',)*' 4*-?62'/62^ 8' *8')>)625*.'620',)*' ?10*.',-*?6-9% ,.' ?=*-^ 5;65*% ;.'.1?*' 25/.)',-62./6, 12.'6-*'60? -6D/*% *>, 12.'6-*'*L>;.6D/ '12/ '-1?',.')6+ 25'=-*>*0*0' X-% .>1'2'6'?1215-6=)'12',)*' ' 1' % % Q ',)*'?1-*' 2.)*0'-*20*-25'1'? '-*20' -% D-6)6?' >1;2,*0' 1-, C1;-'+*-.12.'?1../'4*-?62',1'8)>)' 1/*.'1' *8 6-9' %B%J 1/*.'1' *8-6.'6')=) .>62'6,' *86-9' *8'B*-.* '8)1'=-*^ ,)-*' *6-.' 6,*-86-0.')*' 600*0' .*+*2,**2' ?1-*% % * '()2%(-X$c16' 5 +*2' D ' 62 */' ' X% ' ()*-*' ?;.,'D*' 6,'/*6.',) -, ' 25/.)'+*-.12.'8)>)' 4*-?62' +*-.12.'8*' ?6 ' ?*2,12',)1.*' 1 ' % &% -%' .>1'0 0'21,'9218% ()*-*' .'6'4-**9'+*-.12'D ' (12' >)/*5*/ I ' - ' ' - ' ' . 8' ;2.*2' : /02*-'6' ? .. 126- '1',)*');->)'1' 25/620'M! ' I- ' '. 1' ' - ' 4-6;*2X' 26==' M,81' & ' . 1' ' '" " 1'620' ' - 1' ' - ' ' " 81' */0' I. ' ' . ' " ') ' .HX' 62 */' M,81a' - ' 2'. 1' ' - ' ' @ ' 620' ' ' '$ ' % " E' (1*.,-;=' I. 2 ' + 1' " ! ' - 8' 25. */0' I& ' ' . 1'* ' " " (81'B% % 625*' I ' - ' ' . ' ' - E' >)6 'M,81' 2') .' ' " ') " ' 1-' Q Q'=% NQQ' ._%a' & ' ' - ' ' . * '620'& ' ' - ' _ ' . (8' 6/.1' : *-0*-' -%+12' <* *-' % 1//*2' & *..*2D*-5' : 6-?. ' ;- 25', *-% 2* 4*-?62' *>9*'8-1,1',8*/+*'+*-. 12.% ()*D*.,' 25^ /.)',-62./6,1-.' 1',)*') ?2' 6-*' >)6-0' -6.)68' M) .'+*-. 12' .',)*' 1/0*.,'?60*' S S'-*?6-96D/*' 1-' .,-*25,)'D;,'0 *- 25' -1?',)*'?*6.;-*' 1',)*' 1- 5 2^ 6/'1(B# (' " ' ' " ' " ' ' $ ' ((8:',)*' 6-/'1' 1.>1?? 12'M '-" ' ' ' ' " ' " ' (18' -' & 6/,*-' >1,,' M12/ '6'=6-,'1' ,'D;,'60? -6D/ '012*d ' -" ' ' ' ,' " " ' ((8:' <6>6;/6E7W QKS' " ' ' " ' P8:' 6->)D .)1=' (-*2>)'M 4' " ' ' " ' -*J '6I+*- '>/1.*',-62./6, 12',)1;5)' 21,' 2',)*'01;D/*-)A22*'1',)*'1- 5 26/XT' *62' :*2- ' / 1-0' M Q ' ' ' ' " ' ' P8:' <-.%)6-/*.' M 2' ()*' 1 >*' 1')-.,62' *' 2' 125 J' QS ' U1' " ' ' " ' " ' P8E' :*2- ' < //.' M 1 V ' " ' "1' ' P8:' =*.' 6-5*2,' ' ' ' ' " ' ' % P8:' % 6.86//I117 "=' ' ' ' ' ' "P8:' .%& // 6?.T' 1D*-,' 6^ + 0.12'M 1' ' "h' " ' ' ' " P8' & % 4% L' I11-" ' ' ' "T % ' " ' (1:')6-/*.' 1>98*// I11' ' ' "h' "' ' P8:' B% :% D-6)6//I11' ' ' "' ' P' 2',)*' " 9 ' 5 ' 1-'B62% QSQ'=% SRXT' & %B%% -12.' 1' ' ' "h' L' ' ' P'601=,*0' 2',)*' : ?26/' 1,*0JXT' & ' %& // 6?.' 1' ' ' "h' " ' ' P8:' 086-0' /1..12'M >-7 ' "h' ' ' " '1 (J8:' -- .,;.' % *2*0>,'M,81' ' ' ' "h' " ' ' P' 620' B' ' ' " "' ' " ! XT' 4*2% B1)2' % L' *2*0>,% ;',)*' =6/?'6?125' ,-62./6,1-.' D*/125.',1'62' ?*->62'/6 ?62' D-6)6?' 1/*.'6'=) .>62'6,' *86-9' *8'B*-.* '8)1'=-*^ =6-*0'21'/*..',)62',) -,**2'0 ., 2>,'+*-. 12.'6//'5110' 2'I ,)*-'86 '. L'1'8)>)'6-*' 2',)*',-1>)6>'?*6.;-*'620' 01;D/*-) ?*'1',)*'1- 5 26/T +*'/9*' 2'-) ,)?'D;,' 2'. 25/*'-) ?*T 12*' 2' 6?D>',-=/*,. '/9*' 1.>1?^ ?12.T',)*'/6.,' 2'_;6,.6 2.'/9*' -6.)68.'+*-. 12% ()*' -.,',81'6==*6-*0'6212 ?1;./' 2',)*') +' ' '& ' Q '620'6'=6-,'1'12*' 1;20' ,.'86' 2,1' <-.% ,18*.' B2>/*' (1? .' 6D 2 J',)*' 1,)*-' 201' :%&%' **>)*-.''`` / ?1;,)' 1//*>, 12'1' : ?2.' 620' (;2*.%J ()* ' 6-*' 218' 6// =;D/.)*0',15*,)*-' 8 ,)' 62' 2,-10;>, 12'620' 6' =)1,15-6=)' =>,;-*' 1' <>)6*/ 25*/1.' 6?1;.' 6.,A;05?*2,% ',)1' ?62',-62./6, 12.'8*'.*/*>,' 2'>12>/;.12'12*'8)>)' .'/*..'92182',)62',)0*.*-+*.',1'D*'-1?',)*'=*2'1' ,)*'*+% -%&% % // 6?.' 6' 6=, ..'>/*-5 ?62'1' *8' 1-9'8)>)' 6==*6-*0' 8 ,)' 6' +6/;6D/*' 21,*' 12' ' ' ' 2') .' 'KO'*0 ,% % % Q '=%QQC' R % ()*'6;,)1-'9 20/ '>12.*2,.',1' ,.';.*')*-*'8 ,)' 6' *8')>)625*.'620',)*' ?10*.',-*?6-9% ,.' ?=*-^ *>, 12.'6-*'*L>;.6D/ '12/ '-1?',.')6+ 25'=-*>*0*0' ,)*'?1-*' 2.)*0'-*20*-25'1'? '-*20' -% D-6)6?' 1/*.'1' *86-9' %B%J % 6 I1'8-6,)G',)6,'M%6'0.?6 =5T .',)*'.**-.'1'1/0'8*-*'.6 25 I //',)*'81-/0'2'6.)*.'/6 25%% K'&/6,',)*'*6-G'620'8)6,',)*'.;69 25G &)*2',)*'B;05*')'.86 .,69 25 ,-*>,*.',.*6->)'2'6//,)25.'?69 25% Q'&)*2',)*',-;?='8 ,)'D/6.,'6..1;20 25 ()-1;5)',)*',1?D.'1*6-.,)'-*.1;20 25 0.'6// .,620',)*',)-12*',;--1;20 25% % *6,)'620' 6,;-*'6//65)6.,'6-* &)/*',)*'0*60'-.*' 6.,'620'6..*- 2.8*-25',1',)* -'B;05*'620'<6B,*-% % 1-,)' .'D-1;5),',)*'-*>1-0'.1/*?2T **'1*-8-.'2'*6>)'0-*60'>1/;?2 &,)'?62.'0**0.',)* 11 2.,/6 '+1/;?*% % 18!',)*' 1+*-* 52'B;05*'.'*6,*OT //'/125') 0'.'/1:0'-*=*6,*0T 3' 6;5),'*.>6=*.',)*'A;05?*2,'?*,*0% %)G' 8)6,'=/*6'.)6// 'D*'=/*60 25H &)1'1-'?*')1'2,*->*0 25 &)*2',)*'A;.,'?62')*/=' .'2**0 25H %)',)1;' 25'1'68 ;/.=/*201- ,'6/+6,12' -**',)*' *20*- 4-6>*',1'?*'6// 5-6>1;.'-*20*-% % B*.;.' 1-0'? '=/*6'/*,',).')* < 2*',)*'81*',)6,'D-1;5),'-*?')/7.: **T 2',)6,'06 '1-0'8/;()1,'?..'?*H % &*6-/ V1-'?*()1,'=1;5),*..T 2',)*'>-1.'?'.1;/()1'D1;5),*..T 1.*'21,'6// 1-'8)>)'()1;'8-1;5),*..G % *25*62>*'1-0',)*2',)*'()'?.. 12T 1-'1'.2'5-62,'-**-*?.. 12 -*,)6,'06 '1'2_;..12% K% 18' 2'.)6?*D*.1-*'()**'5-162 25T /;.)*.'0**='?'.2'6-*'182 25a :*6-'' 1-0'?'.;==/62,'?162 25G Q% :*-'1'1/0',)6,'.22*0'1-5 + 25 20',)1'0 25',)*'-*>* + 25 ()1;',1'?*',11')1=*'6-,'5 + 25% % 2'?'=-6*-',)1;5)'.2'0.>*-2 25 *,'5110'1-0'2'51102*..',;-2 25 6+*'?*'-1?',)*'*20/*..'?2/25G % %'<0'()'.)**=')*'?'=/6>*'5 +*2T 6-',)*'516,'-1?'?*')*'0-+*2a ',6,')'-5),)620',1')*6+*2% % &)*2',)*'>;-.*0'6-*'>12 1;20*0' &,)'0*+1;-25'/6?*',--1;20*0' % &,)',)1'D/*.,'D*'?'26?*'.1;20*0% % 18'.'D*5'6.'.;==/62,'D*20 25T &,)'>2.)*0')*6-,'?'/*'1-,)'.=*20 25T 1-0'D*'2'5)'?*'2'?'*20 25G Q%)',)6,'06 G',)6,'06'1'8**= 25G &)*2'2'0;.'21'/125*-./**= 25 <62',1'410'2'5;/'.'51 25' 1' 1-0'D*',)*2'()'?*->'.)18 25G % ' 4% % %<1)2 9*')" = ' =' " ' $ ' ' " -,% ' :*,' ' I; ' / ' + + + 'D ' ,-6/.;20' QK '=% C XT' 4%& % 29'-" ' ' ' 2' -.>)' ;20'4-;D*-.'6 %!'.*>% ' 0% L+ ' =' C T' % 4%

Q '\M,1',/ .' ? ; . ,' D*' 600*0' 62' 6==*20 L',1',)*' .6 ?*' 6 ; ,) 1- .' ? 1215-6=)' 12',)*' $ " ' 1' *-/ 2' Q N' 8)*-*')*' 21, >*.' '600 , 126/ ,-62./6, 12.' 1',)*' ' XT' : ' 62 */' -" ' # ' M =.' Q ' ' - ' 2' : *-[15 .' -" 2'6 1+ %!' M Q X' ' NQ ' QQQ' MD- * XT' D-6)6?' 1/*.' # ' ' ' " ' 9 'N 1' "' " %" ' 'M ' ,)' *0' QSSX' 1?=6-*' 6/.1',)*' 6212 ?1; .' =; D/ >6, 12' -" ' ' # ' ' " ' " '" M ' NO' *0' QS '=' CR X' 8)*-*'.*+*2' 25/ .)',-62./6, 12.' 1',)*' ' -' '5 +*2' + [' ,)1.*' 1' 4*2' L',81' 1' 1/*.' 1.>1? ?12' -6.)68' -12.' 620' /1..12'

, /*.' ; ? 2; ?', % ' ' " 81' 62 62> *2,' 26?*' 1-',)*' = =)62 T' D6=, .?' D* 25' 5*2^ *-6// ' >6//*0' M*' 620' " ' 620' 1 ,) .' 06 ' D* 25',)*' .; ==1.*0' 06 '1 '1; -' 6+ 1; - .' D6=^ , . ? ' 86.' ., /*0' ,)*' 06 '1 '/ 5),.' 1-' //; ? 26, 12' 1-' D6=, . .?%J' .,*- ; .' ?6.*2; .'># ' + ' '@ ') ! ' > ,*0' D ' 25)6?X' .6 .' & *' >*/*D-6,*' ,)*' 26, + , ' D*>6; .*' 6,',) .', ?*' 410' ?62 *.,*0') .' 0 + 2 , ',1' ; .' 2',)*' /*.)% & 1' >*/*D-6,*',)*' *6.,' 1 '/ 5), ' D*>6; .*' D ',)*-*? .. 12'1 ' ;-'. 2.' 2' D6=, . ? ' 8*' 6-*' D-1; 5), ' 6.' ,' 8*-*' 1; ,' 1 ',)*' 06-9'=- .12' 1 '1; -' 1-?*-'/ *',1' 6'/ *' 1 '/ 5),' 620' + -, ; *%J ' 25)6?', '6 'D9% FF '>)% + 'g %

*,' M227d ' " "E' -*20*-*0' 6//18 62>* J' K' 25.' FF ' N T' + >, ; 6/. J' B*-% L/ ' T' 0 22*- J' -1+% d ' X' 6' L*0' =1-, 12' 1-' ' 1 '06 / ' 110' MB*-%/ ' N X% ()*' 110' 1 ' 6.,*-2' 26, 12.')6.' D**2' 2' 6// 65*.' / 5),' 620' . ?=/*% .' >1?=6-*0' 8 ,)' 1 ; -' 182')6D ,. ' ,2*' >) * '=1 2,.' 1 '>12, -6. ; '6-*' ,)*' . ?6// 6?1; 2, '1 '62 ?6/ 110' >12. ; ?*0' ,)*' +6- *, '1 '6-, ^ >/*.' ; .*0' 6.' 6>>1?=62 ?*2, .' ,1' D-*60' ,)*' . ; D. , . ; % , 12' 1 ' ? /9' 2' +6- 1; .' 1-?.' 1-' 1; -' / _ ; 1-. ' 620' ,)*' >1?D 26, 12' 1 ' P+)6, ' 8*' .)1; /0' 0**?')*, *-15*2*1; .' */*?*2.' 2' ,)*' .6?*' 0 .)' 1-' ,)*' .6?*' ?*6/% ()*' >) * '=1 2, '1 '65-**?*2, ' .' ,)*' /6-5*' >12. ; ?=, 12' 1 ' D-*60 ' ,)*' ?=1-,62>*' 1 '8) >)' 2' ,)*' * *.' 1 ' ,)*' : *^ D-*8' .' ,*., *0' D ' ,)*' ; .*' 1 ' ,)*', *-?' " ' M1- 5 2^ 6// 1 '110' 1 '62 '9 20' .=*> >6// ' 1-' D-*60' 6.' 8*// 6.' D ' ,)*' *L=-*.. 12' .,6 '1 ' D-*60' J' M *+' LL+ ' KST .6 ' >+' ST' [*9% +' ST' L +' NX% ?=/*-' =-*=6^ -6, 12.' 1 ' >1?' 8*-*')18*+*-' >1? ?12' .1?*, ?*.' ,)*' -*.)' 5-**2' *6-.' 8*-*' *6,*2' 2' 6' 26, ; -6/ .,6,*' M6' >; .,1?' =-6>, .*0' 2' 6/*., 2*' M 1D 2.12 .' 5 " ' ' RNX' ,)*') ; .9.' D* 25' -; DD*0' 1 ' D ',)*')620' M *+% LL ' T' *; ,% LL, ' K T' K' 25.' +' KT' < 6,, ' L ' T' ; 9*+' X' ?1-*' -* _ ; *2, / ')18*+*-',)*' 5-6 2. ' 6 ,*-' D* 25' >6-* ; // ' = >9*0' 8*-*' -16.,*0' 2' 6' =62' 1+*-' 6' -*' M *+% ' X' 620' *6,*2' 6.' =6->)*0' >1-2 J' 2' 8) >)' 1-?' ,' 86.' 62' 1-0 26- '6-, >/*' 1 '0 *, '=6-^ , > ; /6-/ '6?125' /6D1-*-.' 1-' 1,)*-.' 8)1')60' 21,',)*' ?*62.' 1 '0-*.. 25' 110' M *+% LL ' T' ; .)' ' T' ' 6?% L+ ' T' LL+' QT' K' 6?% L+ ' KQX T',) .' =-6>^ , >*' .' ., // +*-A!' ; . ; 6/' 2',)*' 6., M>1?=% 62*' 'K T' 1D 2.12' 5 0' ' N XI% 1?*, ?*.' ,)*' 5-6 2' 86.' D-; .*0' M/ 9*',)*' 4-**9' % ' / 2 ' L+ ' X' 2' 8)>)' .,6,*' ,' 86.',*-?*0'*.,)*-' M *=,% Sh *Ia-0' % D*6,*2 J *+' ' SX' 1-' M _ ; /% ? ?% T' ; ,)% *-.' >1? J' K' 6? ' L+ ' RT' >1?=% -1+% LL+ ' KKX' 620' ,)*2' 0- *0' 2' ,)*' .; 2T' ,' 86.' *6,*2' *,)*-' ? L*0' 8,)' 1 / M *+% ' X' 1-' ?60*' 2,1' 6' .1 ,' >69*' 26?*0' M % '01; 5) J' ; ?% L+ K T' *)% L' N T' [*9% L/ +' N X% ()*' :*D-*8.' ; .*0' 6' 5-*6, '+6- *, '1 '6-, >/*.' MB1) 2' LL ' X' ,1' 5 +*' 6' -*/^ .)',1' D-*60% 1?*, ?*.' .6/,' 86.' .1' ; .*0' MB1D' + ' SX' 6.' 8*' /*6-2' -1?',)*' =6..65*' A; .' , ; 1, *0' .1?*, ?*.' ,)*' D-*60' 86.' 0 B=*0' 2,1',)*' .1; -' 8 2*' M % ' + 2^ *56-JX' 8)>)' ,)*' /6D1-*-.' 0-629' M ; ,)' /' XT' 1-' 8)*2' ?*6,' 86.' *6,*2' 2,1',)*' 5-6+ '8)>)' 86.' *^ ,)*-' .*-+*0' ; =' .*=6-6,*/A7 1-',)*=; -=1.*' 6.' D ' 4 0*12' MB; 05% + ' RX' 1-' =/6>*0' 2',)*' ? 00/*' 1',)*' ?*6,C0 .)' 6.' 012*' D ',)*' -6D.' M ; -> 9) 6-0, '@ ' 'SNX' 8)1.* =-6>, >*' 1 '0 == 25' D-*60' 2' ,)*' D-1,)' 1-' ?*/,*0' 6, ' 1 ',)*' 62 ?6/ . ,-125/ ' //; . ,-6,*. ',)*' -* *-*2>*',1',)*' .1=' 2' B1)2' L 'KS' . % ()*' ?10*-2' 5 =, 62.' .*6.12' ,)*-' D-*60' 8,)' 6' .6; >*' >1?=1.*0' I1' +6- 1; .' ., ? ; ^ /62,, ' . ; >)' 6.' .; ,X' ? 2, '. *.6?*' 620' >) >9=*6.' M 62*' ' Q X% M()*' /6,*-' B*8.' 26?*0',) .' .6; >* \< .)26 ' "' ' Qha' ,' >12. ., *0' 1 ' + 2*56-' 6/^ ?120. ' 620' .= >*',) >9*2*0' 8 ,)' /1; -% ,' 86.' ; .*0' 6,',)*' >*/*D-6, 12' 1',)*' 6..1+*-' Q "' L' h% ()*' - 62.' 12',)*' 1,)*-' D620' ; .*' 6' ? L, ; -*' 1 '.6+1- ' 620' .6/,' 1-',)*' .6?*' =; -=1.*' M ; . .*// ' ' RNX' <)*-*' ,)*' 6D1+*C?*2, 12*0' 6>>*..1- *.' 8*-*' 862, 25' -; ' +*5*, 6D/*. ' .)' 1-')12* ' 86.' ; .*0% 2' .)1-, ' ,' ?6 ' D*' .6 0',)6, '6//,)*' 6-, >/*.' 1 ' 110' 8)>)' 8*' 6-*' 6D1 ; , ,1' ?*2, 12' 8*-*' ?6 2/ ' + *8*0' 6.' . ; D1-0 26, *.', 1',)*' .,6=/*' >1? ?10, ' 1 ' D-*60% ()*' +6- 1; .' 9 20.' 1 ' D-*60' 620' >69*.' 6-*' 0*.>- D*0' ; 20*-' ,)*')*60' 1 ' 8 g g ! < /9' 620' ,.' =-*=6-6, 12.')1/0' 6' >12. = >; 1; .' =/6>*' 2' 6., *-2' 0 *,' 6.' 6 1-0 25' . ; D. ,62, 6/ 21; - .) ?*2, T' .1= *, ?*.' ,' 86.' =-10; >*0' 2' 6' -*.)' .,6, *' MN72' 4*2% L+ ' QX' D; ,' ?1-*' 5*2*-6// ' 2' ,)*' 1-?' 1 ',)*' ?10^ *-2' 2" ' % *' .1; -' ? /9' M /BB7 : ' % % ' D; ,, *- J' 4*2% L+ ' QT' B; 05% + ' K T' K' 6?% L+ ' KRX% ()*' /6, ,*-' .' ; 2 +*-.6// ' ; .*0' D ' ,)*' *01; 2. ' 21, ' 12/ ' 6.' ,)*' -' 1-0 26-E!' D*+*-65*' M ; -> 9) 6-0, ' 7 ' ' K X' D; ,' ? L^ *0' 8 ,)' /1; -' ? *6, ' 620' *+*' .6/60' M ; ->9) 6-0, ' ' Q' SNT' ; . .*// ' & %% ' ' QX% ,' .' >12., 62, / ' 1 *-*0' ,1',-6+*//*-.' 620' 2' .1?*' =6-,. ' 1 ' -6D 6' ,' .' 0**?*0' .>6206/1; .' ,1',69*' 62 ' ?12*' 2' -*, ; -2' 1-' ,' M ; ->9^)6-0, ' & ' ' K X% 1-' 6' >*-, 6 2' .*6.12' 1 ',)*' *6-' " ' ?69*.' ; =' 6' 5-*6, ' =6-, ' 1 ',)*' 110' 1 ',)*' =11-' 2' -6' M ; . .*// ' R' 8!' ; , , *-' M -1+% LLL ' NNX' 620' +6- 1; .' 1-?.' 1 ' >165 ; /6, *0' ? /9' 1 ',)*' >12. .,* *2> ' 1 ',)*' ?10*?' D +' MB1D' d ' T' 6?% L+ ' QT' K' 6?% L+ ' KRX' 8*-*' 6/.1' ; .*0% **' 8$ g ' 'g f A -; ,' M % +% X' 86.' 621,)*-' .1; ->*' 1 '. ; D.), *2>*d 5.' .,620' -.,' 2' =1 2,' 1 ' ?=1-, 62>*' T ,)*' *6-/ ' .1-,.' O*C' .>%- D*0' 6.',)*' .; ?*-' -; ,J' Mh777' ?1.' + ' ' KX' 6)0' ,)*' -.,' - =*' -; ,J' M (AB/K6 : 1. % L T' < >% + ' X' 8*-*' *.,**?*0' 6' 5-*6, ' /; L; -E ' 620' 8*-*' *6, *2' 6.' -*.)' -; ,' D; ,)* ' 8*-*' 5*2*-6//E' 70- *0' 620' =-*..*0' 2,1' >69*.' . ? /6-',1',)*' 06, *C>69*.' 1 ',)*' -6D 62.' M ; ->9) 6-0, ' & ' ' X' 2' 8) >)' 1-?',)* ' 8*-*' ,*-?*0' I* 0 $ ' % % '>69*.' 1 ' 5. J' ' 6?% LL+ ' QT' LLL ' KT')-12% L ' X' 620' 1>>6. 126// ' . ?=/' MK 6?% L+ ' T' % % .; ? ?*-' -; ,JX% 4-6=*.' 8*-*' 5*2*-6// '*6, *2' 2' 6' 0- *0' .,6, *' 6.' -6 . 2.' M = Na ' ; /5% ' ' % ' ' 6?% LL+' QT' LLL ' KT' K' 6?% L+ ' T' ' D-12% L ' X' D; ,' .1?*^ , ?*.' 6.' D* 1-*' =-*..*0' 2,1' >69*.' 26?*0' MK 6?% + ' RT' ')-12% L+ ' NT' 62, ' ' T' : 1. % ' X' ; 20*-.,110' D ' ,)*' *=, ' 6.' 6' .1-,' 1 ' >69*' O ' ' - G '620' D ',)*' % 6.' 6' ' /6512' 1 '8 2*% J' 69*0' -; ,' 1-?.' 6' =6-,' 1 ',)*' 06 /A7' 110' 1 ',)*' -6^ D 62.' 620' .' =6-, >; /6-/ '606=, *0',1',)*' 862, ' 1 ', -6+^ *//*-.' T 0 ..1/+*0' 2' 86, *-' ,' 6 1-0.' 6' .8 **; 620' -*^ -*.) 25' 0- 29' M *D;)-' & '=' T' + ' QX' 620' >1/1-' 1+% LL+' X',)62' 6.' 62' 6-, >/*' 1 ' 110% 6, *.' 6-*' 21, 21, >*0' 2' >-=, ; -*' ; 2/*..' 8*' 6>>*=, ' ,)*' -*20*- 25' 1 ' 2',)*' *=, % MK' 6?% GX3' 6.' k1U%) T' ,' >62')6-0/ ' D*' 01; D, *0')18*+*-',)6, ' 8)*-*',)*' =6/?C, -**' /1; - .)*0' 6.' 2',)*' 2* 5)D1-)110' 1 ' B*- >)1' ,.' -; ,' 86.' >12. ; ?*0T' 2' B1*/' K' ,' .' -*>912*0' 6?125' 1,)^ *-',-**.' +6/; 6D/*' 1-',)*-; % ()*' =1?*5-626, *C ,-**' .' 6/.1' 21, >*0' D ' B1*/T' ,' */0.' 6' /; .> 1; .' -; , ' -1?' 8)>)' 6' .=*> *.' 1' 8 2*' 86.' *L=-*..*0' M 62, ' + ' KT' : 65% ' RX% <*/12.' 8*-*' 5-182' 2' 77 =, ' M ; ?% X' D; ,' 21, ' 2' 6/*., 2*% ()*' ?; /D*-- ' .

;201;D,*0/ ' ?*2, 12*0' 2' ;9*' L+ ' ' ;20*-',)*' 26?*'
) :',)*' : *D-*8' ! aN' .1',-62./6,*0'MK' 6?%
' KNT' ')-12% L + ' X' .'-6,/ *-' 01;D, ;/T',)*' ;/5%
,69*.' ',,1' ?*62'TP*;-.% ()*'), * ' M % ' . >C'
>?1-* J' ;9*' L L ' X'0 *-.' -1?',)*' ,-**' /6.,' ?*2^
, 12*0'T ,' 86.',)*' 5 =, 62' 5' 8)>)' 6D1;20*0' 2'
6/*., 2*' M ' 25.' L ' K X' 620' 86.' ? ;>)' +6/;*0' 1-'
,.' -; ,' M ')-12% LL+ ' KQT' ?1.' + ' X% **' =C'
D T 'g 'g 4 'g + L
g 6F ?*>40 >>g F < >!

'+*5*,6D/*.'M_%+%X' 8*')6+*' ?1.,' -*_;*2,'21, >*'1 '
/*2, /.' M4*2% F F 'N T' K 6?% L+ 'KQT' LL ' T' [*9'
+ ' RX' 8)>)' 6-*' ., // /6-5*/ ' ; . *0' D ',)*' *01; 2.' 2'
,-6+*// 25' M ;->9)6-0, ' & ' ' S XT' D*62.' MK' 6?%
L+ ' KQT' [*9% + ' RX' 8)>)' ., ' 1-?' 6' 6+1- ,*' 0 .)'
2' 5 =,' 620' -6D 6' 1-' D-*69 6.,' D1 /*0' 2' 86,*-' 620'
D6,*2' 8 ,)' D;,,*-' 620' =*==*-T -1?' K 6?% L+ ' KQ' ,'
? 5),' D*' 2 *--*0' ,)6,' D*62.' 620' 1,)*-' 9 20.' 1 '=;/.*'
8*-*' -16.,*0' 6.' D6-/* ' 86.' D;,',)*' .*>120' 2'
,)6,'+*-.*' .' =-1D6D/ ' 2,*-=1/6,*0' 21,' 6==*6- 25' 2'
,)*' *=,% ' 620' *+*2' ' ,' 8*-*' 21,' .1',)*' -* *-*2>*',1/'
% ' 2',)*' % % ' 6.' 1 ' ' 2',)*' ;/5% ' .' 8)1// '
;286--62,*0T'>;>;?D*-.'M ;?% L ' T' .6% 'QT' 6-%
+ ' T' >1?=% K' 25.' + 'NR' 8)*-=' 8 /0' 51;-0. ' ><>,C'
' '8*-*' = >9*0' 2' ? .,69*' 1-' >;>;?D*-.XT
/**9. ' 12 12. ' 620' 56-/ >9 ' 8)>)' 8*-*' 620' ., // 6-*' 1 '
% 6' .;=*- 1-' _;6/ , ' 2' 5 =,' M ;?% L ' T' >1?=% /C
9 2.12 ' & !' 6 % ' 'N T' 62*' ' KN XT' /*,,;>*' 1 '
8)>)' ,)*' 8 /0' .=*> *.' ' .' 0*2, *0'
8 ,)',)*' 4-**9')% 'D ' / 2 'MLL 'S X' 620' 1-?*0'
6>>1-0 25',1',)*' *=, ' 620',)*' ;/5% ',)*' D ,,*-'
)*-D.J' M \I/ :/ X*6,*2' 8 ,)',)*' =6.>)6/ /6?D' M L10%
' L 'QT' ;?% L ' XT' *20 +*'8)>)' .'., // 8*// 92182'
2',)*' 6.,'M ;..*//' ' R X' ?6 ')6+*' D**2' 2>/;0*0'
;20*-',)*' .6?*' >/6..% 2' 600 , 12',1',)*' 6D1+*' 8*'
)6+*' 21, >*' 1 '>*-,6 2')*-D.J' M ? 2P,' K' 25.' + '
NRX' *6,*2' 2', ?*.'1 '.>6-> , ' 8)>)' 8*-*' ?6//18.' 6>^
>1-0 25',1',)*' - 6>' 620' -6D >'+*-. 12. 'D;,'6>>1-0^
25',1',)*' (6/? ;0 '6'+*5*,6D/*'-*.*?D/ 25',)*' '
' 1 ' 226?.T 620' 656 2' 1 '.*6C=;-./62*' M2 *HT
O =' % % ?6//D8.JX' 620' D-11?C-11,' M `6 2 XT'
% % A;2 =*- J' B1D' LLL ' +X' 6.' *6,*2' D ',)*' =11-'
2', ?*' 1 ' 6? 2*' ;2/*..',)*' /6,,*-' 8*-*' 56,)*-*0' 6.'
;*% 2' 2. = 0' =/62,' =-1D6D/ '=;-./62*T ;.*0' 2'.6/^
60' 6==*6-.',1' D*'-* *--*0',1' 2' B1D' + ' S' ;20*-',)*' *L^
=-*.. 12' M % % 8),*' 1 ' *55JX% ()*
;.;6/ ?*,)10' 1 ' *6, 25' +*5*,6D/*.' 86.' 2',)*' 1-?'
1 '=1,,65*' M(,B ' *=,% ,'< E !'% 1'? '
dd ' KRT' K 25.' + ' NQT' : 65 ' ' KT' 6' ?*6/ 8)1// '
1 ' +*5*,6D/*.' 86.' 0**?*0' +*- ' =11-' 6-*' -1+% L+ '
T' 62% ' KT' 1?% L + ' KX% ()*' ?10*-2' -6D 62.'
>12.;?*' D;,' *8' +*5*,6D/*.T -60 .)*.' 620' /**9.' 6->'
?1.', 2',.*' 620' 6-*' *6,*2'-68' 8 ,)' D-*60' M ;->9)6-0, '
& 1' SX% **' 8 g $ $ g & g
& $ g) g) g < !
()*' .= >*.' 1-' >120 ?*2,.' 92182',1',)*' : *D-*8.'
8*-*'2;?*-1;.T >;? ? 2' M .6% LL+ 'K T' <6,,' LL
KNX' 0 // M<6,,' LL 'KN' 62 .* J' % %X' >1- 620*-'
M L10% L+ 'N T' ; ?% L ' X' ? 2,'M<6,,' LL 'KNX'-;*'
M ;9*' L ' KX' ?;.,6-0' M<6,,' L 'N T' L+ 'K X' 620'
.6/,' MB1D' + 'SX' 8)>)' .'-*>912*0' 6?125' ,)*'=- 2> ^
=6/',) 25.' 1-',)*' 8)1/*' ;.*' 1 ' ?62 .'/ *J' M >>/;.%
LLL L ' KSX% ;,,' M= .,6>) 1.X' 620' 6/?120.' M4*2%
L/ ' X 8*-*' 6/.1';.*0' 6.' " ',1',)*' 6==*,,*% **'
'g 'g 'g $ 'g 'g
$ g * $ g / !
2'600 , 12',1',)*.*' >/6..*.' 8>')6+*',1' 21, >*' .1?*'
1,)*-' ?=1-,62,' 6- T>/*.' 1 ' 110a' 2',)1' -.,' =/6>*'
)12* '8)*,)*-',)1'26,;-6/'=-10;>,'1 ',)*' D*'*' M ' 6?%
L + 'K T' <6,,' ' X' 8)>)' 6D1;20.' 2' ?1..',=6-,.' 1 '
-6D 6' M ;->9)6-0, ' & 1' % X' 1-',)*' 1,)*-' 26,,^
-6/ 620' 6-,)* 6/=-10;>, 12.' 2>/;0*0';20*-',)6,')*6>'
.=> 6// ',)*' '1 ',)*' - 62.' 620' -6D 62.' % *%
5-6=*CA;>*' D1 /*0' 0182',1',)*' .,6,*' 1 ',)*' :1?62' =
(1' 8)>)' .' ., // *L,*2. +*/ ';.*0' 2',)*' 6.,'
M ;..*// ' 'QKXT',)*/6,,*-' .' .;==1.*0',1' D*'-* *--*0',1'
2' 4*2% L/ ' '620' [*9% LL+ ' % ()*' ?=1-,62>*'
1 ')12* '6.' 6' .;D.,.;,*' 1-' .;56-' .' 1D+ 1;.T ', 86.'
D1,)' ;.*0' 2'>*-,6 2'9 20.' 1 '>69*' M,)1;5)'=-1) D ,*0'
2',)*' >6.*' 1 ' ?*6,' 1 *- 25.% *+% ' X' 6.' 2',)*'
=6.,-*2,/ 'D ',)*' .6>-*0' 8-,.*-.' 6.' *L=-*..+*' 1',)*'
- >)2*..' 1 ',)*' =-1? .*0' /620' D;,' 6/.1' D ',)*' 4-**9'
=1*,.' M>1?=% 6// ?*# ' 'D ' QT' : 1-2*, f LL '
SQX% (11' ?;>)')12* ' 86.' 0**?*0' ;28)1/*.1?*'
M -1+% dd 'K X% & ,)' -*56-0' .1' 1 /' ,'01*.' 21,' 6=^
=*6-',1')6+*' D**2' ;.*0',1',)*' *L,*2,' 8*' ? 5),')6+*'
62, > =6,*0T',)*' ?10*-2' -6D.' 12/ '*?=/1 ' ' 2' - ^
25' .)*' M ;->9)6-0, ' & 1' ' X' D;,' 1-' 6// 1,)*-'
=;-=1.*.' D;,,*-' .' .;D.,.;,*0% 6?125',)*' : *D-*8.' '
86.' 0**?*0' 62' *L=*2. +*'/;L; 'M -1+% LL ' X',1'
D=' -*.*-+*0' 1-' *., +*' 1>>6. 12.' M T)-12% L ' XT' ,'
86.' >) * / ' ;.*0' 2' >*-,6 2' 9 20.' 1 ' >69*' M *+% ' '
._ %T ' 25.' L+ ' KX% / 620')12* J' 6-*' ?*2^
,12*0' 2' >12A;2>,12' 8 ,)' D-*60' 2' [*9% L+ ' N R%
()*' - 62.' *.=*> 6// ' ,)*' B*8.' *6,' 1 / 620')12* '
I 8 ? L*0',15*,)*-' M ;..*//' 'Q X% 55.' 6-*' 21,'
1 ,*2' 21, >*0' D;,' 8*-*' +* 0*2,/ '92182' 6.' 6-,>/*.' 1 '
110' M .6% d' T' / L ' T' ;9*' L ' KX' 620' 6-*' -*>912^
0' D 'B-1?*' I '6% %"!' ' ' SX' 6?125',)*' 0*/^
>6>*.' 1 ',)*',6D/*% **' % #' T < !
()*' - *2,6/.')6+*' D**2' 6,'6//', ?*.' .=6- 25' 2',)*'
$ ' 1 '62 ?6/' 110T 21,' 12/ '01*.',)*' *L>*..+*',)*6,'
1 ',)*' >/ ?6,*'-*20*-',D1,)' ;28)1/*.1?*',1' *6,' ?;>)'
?*6,' M *D;)-' ' % ' =% SX' 620' *L=*2. +*' -1?'
,)*' 2*>*..,E7 1 ' ? ?*0 6,*/ '>12.;? 25' 6' 8)1/*' 62 ^
?6/' D;,' D* 120',) .',)*' -,;6/ -*5;/6, 12.' 1',)*' <1^
.6 >' /68' 2' 62> *2, '6.' 1 ',)*' 1-62' 2' ?10*-2', ?*.'
)6+*',*20*0',1',)*' .6?*' -*.;/,% ,')6.' D**2' 2 *--*0'
-1?' 4*2% L 'N ',)6,' 62 ?6/ 110' 86.' 21,'=*-? ,,*0'
D* 1-*',)*' /110T D;,',)*' 21, >*.' 1 ',)*' /1>9 1 ' D*/
M4*2% +'KX' 620' 1 ',)*')*-0.' 1 'B6D6/ M4*2% +'K X' 6.'
8*// 6.',)1' 0 ., 2>, 12' D*, 8**2' >/*62' 620' ;2>/*62' 62 ^
?6/.' M4*2% + 'KX' 6+1-',)*' 1==1.,*' 1= 2 12T 620',)*'
=*-? .. 12' 2' 4*2% L 'N' ?6 'D*')*/0',1' D*' 12/ '6' ?1-*'
L=/ >,'0>/6-6, 12' 1 '6'>120 , 12' ?=/ *0' 2',)*' 5-62,'
1 ';2 +*-.6/ 01? 2 12' =-*+ 1;./ '5 +*2' M4*2% ' KQX%
()*'=-1) D , 12',)*2' *L=-*..*0' 656 2.,'>12.;? 25',)*'
D/110' 1 '62 ' 62 ?6/ M4*2% L ' X' 86.' ?1-*' // '0*^
+*/1=*0' 2',)*' *+ , >6/ /68' 620' *2 1->*0' D ',)*'=*2^
6/, '1 '0*6,)' M *+% ' T' + 'KST' L L 'KST' *;,% L '
ST' ' 6?% L + 'NK' .,%T [*9% L/ +' ' X' 12',)*'
5-1;20' 6.' .,6,*0' 2' *+% L+ ' '620' *;,% L 'KN'
,)6,',)*' D/110' >12,6 2*0',)*'=- 2> =/*' 1 '/ *' 620' 6.'
.;>)' 86.',1' D*' 1 *-*0' 12',)*' 6/,6-T =-1D6D/ ',)*-*'
86.' 62' 600 , 126/ -*6.12' 2',)*')*6,)*2' =-6>, >*' 1 '
>12.;? 25' D/110' 2',)* .' -' .6>- >*.' M .6% L+ ' T' [*9%
LLL 'K X% ()*' =-1) D , 12' 6==/ *0' ,1' .,-625*-.' 6.'
8*// 6.' .-6*/ ,*.' 620',1' *+*- '9 20' 1 'D*6.,' 1-' 18/
M *+% + 'KST' L+ ' K NX% 1' .,-125' 86.',)*' **/^
25' 1 ',)*' B*8.' 12',) .'=1 2,',)6,',)*' 4*2,/*' >12+*-,.'
,1')-., 62 , ' 8*-*' /6 0' ;20*-' . ? /6-' -*.,- >, 12.'
M >,.' F 'K 'KRT' LL 'K X% .'6' 2*>*..6- '0*0;>, 12'
-1?',)*' 6D1+*' =- 2> =/*' 6// 62 ?6/.' 8) >)')60' 0 *0'
6' 26,;-6/ 0*6,)' M /7 HP *;,% L + 'K X' 1-')60' D**2',1-2'
D 'D*6.,.' M2 :U L10% LL N X 8*-*>' 6/.1'=-1) D ,*0'
M *+% L+ ' T' >1?=% [*9% +' X' 620',1' D*',)-182'
,1',)*' 015.' M L10% LL 'N Xa',) .' =-1) D , 12' 0 0' 21,'
*L,*20',1' .,-625*-.' M *;,% L + 'K X% 2 '=*-.12' 2^
- 25 25',) .'-;/*' 86.')*/0';2>/*62';2, /',)*'*+*2 25'
620' 86.' 1D/ 5*0',1' 86.)') .' >/1,)*.' M *+% L+ ' X%
2',)*' % (%,)*.*' >6.*.' 6-*' 0*.>- D*0';20*-',)*',*-?'
--)- 'M >,.' d 'K X'6==/ 25' 21,' 12/ ',1' 8)6,' 86.

%

' M6.' 2' % %X'D ; ',,1' 62 ' 62 ?6/ -1?' 8) >)' ,)*' D/110' 86.' 21,' -*5 ;/6-/ ' =1 ;-*0' 1-,)% ? /6-' =-1) D , 12.' 6-*' >12,6 2*0' 2',)*' 1-62' M ' T' + ' T' L+ '/ /*X ',)*'-* . ;/,'1 '8) >)' .',)6,'6,',)*'=-*.*2,'06 ' ,)*' -6D 62.' *6,'21' ?*6,'*L>*=,'8)6,')6.' D**2'D1 ;5/ ,' 6,',)*' .)6?D/*.% *-,6 2' =1-, 12.' 1 ',)*' 6,'1 '.6>- ^ >*.' 8*-*' 6/.1' 1-D 00*2' 'R X'6.' D* 25' .*,' 6=6-,' 1-',)*' 6/,6-' M *+% ' ST' + 'K T' >1?=% ' 6?% ' S ._% ' K')-12% + ' Xa' ,'.)1;/0' D*' 1D.*-+*0',)6,' ,)*',*-?' 2' *)% + ' ',-62./6,*0' 1' .' 21,' D ;,' b,)*' 6,, '= *>*.' 1 '?*6,'0*/ >6> *.% 2 600 , 12',1',)*' 6D1+*')- ., 62.' 8*-*' 1-D 00*2',1' *6,' ,)*' /*.)'1 '62 ?6/. '=1-, 12.' 1 '8) >)') 60'D**2' 1 *-*0' ,1' 01/.' I 1 GE[g - 8'8)*,)*-' 6,'=- +6,*' *6.,.' 1-' 6.' D1;5),' 2',)*' ?6-9*,'M >,.' L+ 'KRT' LL ' K T' ' 1-% + ' ' ._%X% // D*6.,.' 620' D -0.' >/6..*0' 6.' ;2>/*62' M *+% L ' ' ._ ' 1 *;,% L + ' ._%X' 8*-*' 6/.1'=-1) D ,*0' M.*>' ' T' 8 3' T' 620' 2' 600 , 12',1',)*.*' 5*2*-^ 6/ =-*>*=,.',)*-*' 86.' 6' .=*> 6/ =-1) D , 12' 656 2.,' .**,) 25' 6' 9 0' 2') .' ?1,)*- .' ? /9J'M L10' LL ' RT' LLL + ' KS' *;,% L + 'K X' 8) >)') 6.' D**2' +6- ^ 1;./ ' ;20*-.,110' D ' (6/? ;0 >6/ 8-.,*-. ' 6.' 6' 5*2*-6/ =-1) D , 12' 656 2.',)*' A1 2,' ;.*' 1 ' ?*6,' 620' ? /9' M< .)26' " 2 '>6=% Q'g XT' D ' < >)6*/ .' > '5 " 1' + 'K X'6.' =-1) D , 25',)*' ;.*' 1 ' 6,' 1-' ? /9 ' 2' >1?' 2*-^ =6- .12' 8 ,)' 1 /' 2' >119 25' T' D ' ;,)*-' 620' 6/+ 2' 6. =-1) D , 25',)*' ./6;5),*-' 1 ' 1;25' 62 ?6/. T' 620' D ' 1>)6-,' 620' 1,)*-.' 6.' 0 .>1;2,*262> 25' >-;*/,E' 2' 62 ' 86 % ()*.*' 2,*-=-*,6, 12. ')18*+*-' 6// 6 / 2' *.^ ,6D/ .) 25' 62 '>122*>, 12' D*,8**2',)*' =-*>*=,' 620',)*I' 1 *- 25' 1 ',)*' -.,C -; ,.' 6.' ?=/ *0' 2',)*',)-**' =6.^ .65*.' _;1,*0% <1-*' =-1D6D/ ' ,')6.'-* *-*2>*',1' >*-^ ,6 2')*6,)*2' ;.65*.' 6,',)*-')6-+*.,' *.,+6/.' M<6 C ?12 0*.' 7 +! ' QT' =*2>*-' ' ,' # ! 5 !'=% N ' ._%Xa',)*-*' .' 6'-*?6-96D/*'600 , 12' 2',)*' 6?6-,62'+*-. 12' 620' 2' .1?*' >1=*.' 1 ',)*' *=,' 2' *;,% L + 'K '8) >)' .;==1-,.',) .'+ *8 T' 15 %' *' -1;-1 IOF M c' -- O ' 1M=c,' ' * ' ' 1' g I% (6Y>>,\N M>1?=% 21D*/' ' 2' L10' LL ' RX% ()*' :*D-*8.' ;-,)*-' 6D.,6 2*0' -1?' *6, 25',)*' . 2*8' 1',)*')=' MB/0 B/ 4*2% LLL 'NKX' 2' ?*?1-' 1' ',)*' .,-;55/*' D*,8**2' B6>1D' 620',)*' 625*/ M>1?=' +*- K X' ()*' *=,%',)*' ;/5%' 620',)*' % ' 2,*-=-*',)*' 1' O ' 81-0' + '" 1',)*' .)- 29 25' 1-' D*^ 2;?D 25' 1',)*' ?;.>/*' M1' % :' ' :' 8) >)' .)-629JXa' B1.*=);.' M7O K 'KX' ?1-*' >1-^ -*>,/ '*L=/6 2.' ,'6.' ,)*' D-160' 2*-+*J'M-1' % ' ' - O X T' 620',)*-*' '/ ,,/*' 01;D,',)6,',)*' 2*-+*')*'-*^ *-.',1' .',)*' ' " '8) >)' 6,,6 2.' ,.'5-*6,^ *.,',) >92*.',)*') =% ()*-*' .' 21' ;-,)*-' -* *-^ *2>*',1',) .' >;.,1?' 2',)*' D/*T D;',)*' (6/?;0 .,.' I " 2 1'+ X'*2 1->*0' ,.' 1D.*-+62>*' D '=*26/, *.% *** ! $20*-',)*.*' -*.,- >, 12.',)*' :*D-*8.' 8*-*' =*-? ,^ ,*0',)*' -**' ;.*' 1 '62 ?6/ 110' 5*2*-6// ' .=*69 25' ,)*' '12/ '6+6 /*0',)*?.*/+*.' 1 ' ,' 2',)*' *L*-> .*' 1')1.=,6/ ,' M4*2% L+ ' X' 1-'6,' *., +6/.' 1 '6'-*/ 5 1 ;.' M L10% L 'QX' =;D/ >' M ' 25.' 'RT' ')-12% L ' X' 1-'=- +6,*' >)6-6>,*-' M4*2% LL+ ' T' ;9*' L+ 'KNX' ; 86.' 12/ ' 2' -1A76/)1;.*)1/0.',)6,',)*-*' 86.' 6' 06 / '>12.;?=, 12' 1 ' ?*6,' M ' 25.' + 'KNT' *)% + ' QX% ()*;.*' 1 '?*6,' .'-*.*-+*0' 1-'. ? /6-'1>>6. 12.'6?125' ,)*' *01; 2.' M ;->9)6-0, .' 7 1' 'SNd' ()*' 62 ^ ?6/.' 9 //*0' 1-' ?*6,' 8*-*' '>6/+*.' M4*2% L+ ' T' ? 6?% LL+ 'K T' ?1.' + ' X' 8) >)' 6-*' 6-,)*-' 0*^ .>- D*0'D ',)*',*-?' 6// 25' 1 ;9*' L+ KN 620 (,-;--1 <6,, LL T' K 6?'+ NT' ' 25.' 'R' ._% ' % ' 6,'>6,,/*JX T' /6?D.' MK' 6?% L ' T' ?1.' + ' XT' 1L*2' 21,' 6D1+*',)-**' *6-.' 1' 651' M ' 25.' 'RT' -1+% L+ ' T' .6% LL ' NT' <6,, LL ' X' 8) >)' 8*-*' * ,)*-' .,6//C *0' *=,% ')O)-, 8'1-',69*2', =' -1?',)*'=6.,;-*.' M I H'X' f $ % ' ' :' 25.' + 'KNX' 9 0.' M4*2% LL+ ' RT' B;05% + ' RT' 6?% L+ 'K XT')6-,.' ?*D;>9.' 620' 6//18C0**-' M ' 25.' + 'KNX' 8) >)' 6-*' 6/.1' D-1;5),

2,1' >/1.*' >122*>, 12' 8 ,)' 1-0 26- ' >6,,/*' 2' *;,% L + ' ' 6.' ,)1;5)')1/0 25' 62' 2,*-?*0 6,*' =/6>*' D*^ ,8**2',6?1' 620' 8 /0' 62 ?6/.' D -0.' 1 '+6- 1;.' 9 20.' ;,)% *-% 18/.TJ' *)% + ' QT' ,)*' *=, ')18*+*-' 5 +*.' 6.',)1;5)',)*' -*60 25' 8*-* 6I IXI XT' _;6 / 2' >*-,6 2'=6-,.' 1 ' -6D 6' M L10% L+ ' NT' ;?% L 'NKXT' =1;/,- 'Mu`3 K HH' 7' 25.' + 'KNT' ;20*-.,110' 5*2*-6// ' D ',)*' *A,% (* ' $% , ' ? ' D ' ?>) ' 620',)*

0*-' ,)*' 5*2*-6/'%,*-?' 1 ' " + ' 1-' ' ' M *+%' L R T' ; ? %+ NT' B ; 05%' L ' ' X' ' 20**0 ',)*' /6,^ ,*-' 01*.' 21,' .1 ?*, ?*.' 2>/ ; 0*' ,)*' 1-?*-' M ; ?%' LL+ ' X' ()*.*' 8*-*' -*.*-+*0' 1-' ,)*' 8*6/,) ' 1-' 1-' *., +*' 1>>6. 12.' ,)*' =11-' >12. ; ?*0' 6' .1 ; -' 8 2*' M % H + 2*56-TJ' ; ,)' ' T' < 6 ,, ' LL+ ' QX' >6/^ >; /6, *0' ,1' _ ; *2>)',) -., 'D ; ,' 21, ' 65-**6D/*' ,1',) *' ,6 ., *' M -1+%' d ' KS X% ' ? ,) ' .%+% 110% **' 8 ! * ,' I 1' 0 6 ' 4*2262' 5 " 81',)*' 6..*?D/ ' 1 ',)*' .,6,*.' 1 ' 4*-?62 % ()*' *,' .)6-*0' 8 ,)' ,)*' *?=*-0-' ,)*' - 5),.' 1 ' .1+*-.* 52, E ' *L>*=,' 2' 6' *8' g6.*.' -*.*-+*0' ,1',)*' *?=*-1-% ,' >12. .,*0' 1 ',)-**' >1//*5*.' ' '*/*>,1-.. ' =- 2>*. ' 620' -**' > , *.% (1' D*' +6/ 0 ' 6' -*.1/ ; , 12')60',1' D*' 601=,*0' D ' 6//' ,)*' ,)-**' >1//*5*. ' 620' ,1' D*' .62>, 12*0' D ' ,)*' *?=*-1-% 2' 6' =6-, >; /6-' >1//*5*' 6' ?6A1- , ' 1 ' +1,*.' 86.' 2' ?1.' >6.*.' . ; > *2, ' D ; ,'-*/ 5 1 ; .' _ ; *., 12.' 1-?*0' 62' *L^ >*=, 12% **' /$ ' ' $ ' 620' /$ ' > f ()*' */*>,1-' 1 ' <6 2[' 6.' 6->)^ >)62>*//1-' 1 ',)*' *?=-*' 86.' 0 -*>,1-' 1 ',)*' *,% ()*' 1//18 25' / .' M,69*2' -1?' ;>9' -" ' ' 1' 620' -1?' 6--6-' 6 ' ' (8 2>/ ; 0*.',)*>) * ' *,.')*/0' 2' -* *-*2>*',1',)*' 6 6 -.' 1 ',)*' * 1-?6, 12% -" ' ' ' ' 1 1' 2' K ' 2' 8) >)' /*L620*-' ,)*'=1=*.' 2 ; 2> 1 ')6+ 25'>)6-5*0' ;,)*-' 8 ,)')*-*. ' ,)*' 0 ; 9*' 1 ' 6L12 '.6 0',)6,' ;,)*-' 1 ; 5),',1' D*')16-0% () .',)*' *?=*-1-' 5-62, *0 ' 620' .*2,') ?' 6' =' .. ' =-1+ 0^ *0')*' 81 ; /0' 21,' =-*6>)' 12',)*' A1 ; -2* % 2' ;,)*- .' 6-- +6/' 6,' & 1-?. ')*' =-1, *.,*0',)6,')*' 81 ; /0' 21,' -*^ >62,' ; 2/*.',)*' 81 ; /0' .)18') ?') .*--1-.' -1?',)*' & 1-0' 1 ' 410' 6/12*% : *' 86.' >12.*_ ; *2,/ ' 1-0*-*0' 686 ' -1?' 71-?. ' 620 ' D ' 62' *0 >,' 1 ',)*' KS,)' 1 ' <6 ')*' 86.' 1 ; ,/68*0% K% -" ' @ ' ' ' '7 1' 2' KN' 8)*2' -62^ >. ') *-*56, ' 0-62',)*' L,) .' 2 ; 2> 1 ' 0*?620*0' ,)*' *L*>; , 12' 1 ' *1',)*' (*2,) .' D ; // ' 620' 1 ')6-/*.' ,)*' ,) .' *0 >, ' =; D/ .)*0' 6,' & 1-?. ' 656 2.' ; ,)*-% ,' 86.' 62.8*-*0',)6,' ,' 86.' 2*>*. .6- ' ,1' >6// ' 6' >1 ; 2> / 2' 4*-?62 ',1' .6, . ',)*' 26, 12' -*.=*>, 25' ,.' 5- *+^ 62>*.' 8) >)' 8*-*' -*0 ; >*0' ,1' 12*') ; 20-*0' 6-, >/*. ' .1?*' 1 ' 8) >)' .,-; >9' 6, ',)*' =1=*.' 6 ; ,)1- , ' 620' ,)*' 0 .> =/ 2*' 1 ',)*' 1?62') ; ->)d ,)*' 600*0' ,)6, ' 2' ,)*' 2, *- ?',)*' ; ,)862' .)1 ; /0' D*' >1?? 620*0' 21, ' ,1' 8-, *' 656 2.',)*' 1?62 .,, % //' ,)*.*' ,) 25.' 8*-*' D-1 ; 5), ' 2, 1',)*' 1-?' 1 ' 62' *0 >, ' 620' =; D/ .)*0' 2',)*' *?=*-1-.' 26?*% N% -" ' @ ' ' ' '$% ')*/0' 2' KS%)6-/*.' % ' D* 25' 2' =6 2 ' 26?*0') .' D-1,)*-' 6->)0 ; 9*' *-^ 0 2620 ', 1' =1-*. 0*' 1+*-',) 6, ' 6..*?D/ ' 8)*-*',)*) 0 ; 9*' 1 ' 6L12 ' 620',)*' /6205-6+*' 1 ' : *..*' 0*?620*0' 6, ' -.,' 6' -**' *L*-> .*' 1 ',)*' ;,)*-62' -*/ 5 12' .1',)6, ,)*' ;,)*-62.' =-*6>)*0',)*-*' =; D/ >/ ' 656 2.', 1=*- ' 620',)*' .*-+62,.' 1 ',)*' ;,)*-62' =- 2>*.')60',)*.*' +* `/*,,*-.' % ' <% ' *?D-1 0*-*0' 12',)*-' ./**+*.' M' N ' ' ' ' '*6 8',1' .)18' =; D/ >/ ' ,)6, ,)*' 81 ; /0' 1//18' 21,) 25' D ; ,' ,)*' =; -*' & 1-0' 1 ' 410% ()*' 6->)0 ; 9*' 21,' 06- 25', 1' 1==1.*',)*' *1 ; -.*.' =-1* =1.*0',81',) 25.d ,)*' -.,' >12>*-2 25', *' 1= .)' -*^ / 5 12' 8) >)' 86.', 1' D*' 1D.*-+*0' 2' ?6 2,6 2 25',)*' *0 >, ' 1 ' & 1-?. T' 620',)*' .*>120' >12>*-2 25',)*')*/=' 0*?620*0' D ' 1 ; . ' 9 25' 1 ' : ; 256- ' 656 2.',)*' (; -9.% ()*' ;,)*-62.' =-*+6 / 25' 6D1 ; ,' ,)*' -.,' ,' 86.' 0*>-**0' ,)6,' ,)*' *?=*-1-' .)1 ; /0' D1' 0*. -*0',1' >6// 6' 5*2*-6/' >1 ; 2> / 2' 4*-?62 ' 8 ,) 2' 6' *6-T' 620',)6, ' 2',)*' ?*62', ?*' *+*- ' 12** 86.', 1')6+*' / D*-, ' 1 ' >12.> *2>*% &) /.',) * ' 8*-*' 0*/ D*-6, 25' 2' +6 2' 6D1 ; ',)*' .*>120' 9 25' 1 ; .' 86.' 0* *6,*0' 620' 9 //*0' 2',)*' D6,,/*' 1 ' <1)6*[% % -" ' $ ' ' '$% ' 86.')*/0' 2' KR% ,' 86.' 0*>-**0' 656 2.',) *' ;,)*-62.',) 6, ' 8)*-*+*-' ,)*' *0 >, ' 1 ' & 1-?.' 86.' -*>* +*0' ,' .)1 ; /0' 21,' D*' /68 ; / 1-' 62 ' 12*' ,1' >)625*') .' 1= 2 12.' T D ; ,' 2',)*' >1 ; ?' ,- *.' 8)*-*' ,)*' 2*8' -*/ 5 12' M6.',)*' ', *-?*0' ,' 86.' -*>* +*0' ,' .)1 ; /0' D1' /68 ; / ,1' >12, 2 ; *' 2', / /' ,)*' 2*L, ' >1 ; 2> / ' ',)*' 1/0' -*/ 5 12' >1 ; /0' 21,' D*' -*C*.,6D^ / .)*0',)*-*' 8 ,)1 ; ,' .*0 , 12% *+*-,)*/*.. ',)*' ?6..' 86.' 21,', 1' D*' 6D1/ .)*0',)*-*' 620' 21' 1?62 .,' 7+6.' 6//18*0',1',; -2' ;,)*-62T ,)*' 6>-6?*2,6- 62.' P,*-g' ,1' D*' D62 .)*0' 1 ; ' 1 ',)*' *?=-*' 620',)*' 26D6=, ,., ' =; ' ,1' 0*6,)T 620'=-*6>)*-.' .)1 ; /0' 218)*-*' =-*6>)' 656 2.',)*') ; ->)' 1 ' 1?*% L' ; ,)*-62' =- 2>*.' 26?*/ ' ',)*' */*>,1-' 1 ' 6L12 ',)*' ?6-_ ; .' 1 ' -62C 0*2D ; -5C 6 -*; ,)' ,)*' ,81' 0 ; 9*.' 1 ' ; 2*D ; -5 ',)*' /6205-6+*' 1 ' : *..*' 620',)*' =- 2>*' 1 ' 2)6/, ' 8 ,)',)*' 0*=; , *.' 1 ' 1 ; -,**2' ?=*- 6/, 182. ' =-1, *.,*0 ' 2' 8-, ^ 25', 81' 06 .' 6 ,*-' 2',)*' 6..*?D/ ' 656 2.',) .' 0*^ >-**' 8) >)',)*' ' 81 ; /0' 21,' 1D*' ', /7 25' >12,-6- ', 1' ,)*' 41.=*/T 620' 6==*6/*0',1' 6' 5*2*-6/' 1-' 26, 126/ >1 ; 2> / ',1',)*' *?=*-1-' 620',1' 62 ' 1,)*-' ; 2=-*A ; 0 >*0' A ; 05*% -, P?',) .' .1/*?2'=-1,*.,6, 12' 0 ?*',)*' 6?1 ; ' 26?*' 1 ' -1,*.,62,. '%8) >)',)*' ;,)*-62.' .112' 601=,^ *0'T 620' .; D.*_ ; *2,/ ' ,)*' 6/+ 2 ... ' 620' 1,)*-' *^ 1-?*0' >) ; ->)*.% ()*' '6/.1'=-1,*.,*0' 656 2.', >12,- D^ ; , 25' 62 ,) 25', 186-0.',)*' 86-' 656 2.',) ' -1?',)*' 6 ,*-',)*' *L*-> .*' 1 ',)*' -' -*/ 5 12' 86.' -*** 2' 6//' 4*-^ ?62 % ()*' 2*L, ' *6-',)*' *?=*-1-')*/0',)*' *, ' 1 ' ; 5. D ; -5% S% -" ' 1 ' ' '& " 1 !1' >6//*0' 2',)*' *6-' N ' D ')6-/*.' % ',1'-*; 2 ,*',)*' =- 2>*.' 6D1 ; ' .1?*' ?6,, *-.' 1 ' -*/ 5 12' 620',1' A1 2',)*2C 6//' ,15*,)*-' 656 2.',)*' (; -9.% ()*' */*>,1-' 1 ' 6L12 ' 1//18*0' D ' ?62 ' =- 2>*.' =-*.*2,*0',)*' >12 *.. 12' 1 ' ; 5. D ; -5% ()*' >12 *-*2>*' 6D1 ; ' ?6,, *-.' 1 ' 6 ,)' 620' 0 .> =/ 2*' D* 25' >12>/ ; 0*0' ,)*' *?=*-1-' *20*0',)*' 0 *, ' D ' 6' 0*>-**' ,)6, ' 21,) 25' .)1 ; /0' D*' 6/, *-*0' 2',)*' 01>, -.' 2*' 620' >*-?62' 1 ' ,)*') ; ->)' 1 ' 1?*' , //' 6' >1 ; 2> / .)1 ; /0' 1-0*-' , ' 1,)^ *-8 .*% % -" ' @ ' ' ' '5 ' 2' ' 1-' ; 2 , 25',)*' -1, *., 62, .' , 1',)*') ; ->)' 1 ' 1?*% ()*' =1=*.' /*5^ 6, *')6+ 25' 6/, *-*0' ,)*' , 8*2, C, 81' 6-, >/*.' 0-68 2' ; =' D ' ,)*' -1, *., 62, ' 0 + 2*. ' ,)*' *?=*-1-' =-1=1.*0', 1' >)11.*' .1?*' /*6-2*0' 0 + 2*.' 8)1' ? 5), ' 65-**' =*6>*6^ D/ ' 12',)*' 6-, >/*. ' 620' D* 25' 0*. -*0' D ' ,)*' 0 *, ' 1' >)11.*',)*?I) ?.*/ ')*' 26?*0',)-**' 6= .,. ' 26?*/ ' B ; / ; .' /; 5 ; .' B1)2' 4-1==*-; .' 620' B1)2' >9 ; .' 620' ,)-**' -1, *., 62, .' 26?*/ ') / =' <*/62>,)12' <6-, 2' ; >*-' 620' B1)2' ..,1- ; ,% ,*-' 62' *6, ? ^ 26, 12' 620' 0 .=; , 6, 12' 1 ' 6' ?12,) ',)1.*' 0 + 2*.' >1 ; /0' 21, ' 65-**' 12' ?1-*',)62' +*' 1-' . L' 6-, >/*. ' 8)*-*' 2' ,)*' 0 *, ' ., //' 1 ; 20' .1?*' 0 >; /, *.% ()*' *?=*-1-' ,1', *-? 26, *',)*.*' >12, -1+*-. *. ' 1-0*-*0' D ' 62' *0 >, ' ,)6, ',)*' 0*> . 12' 1 ',)*.*' 6-, >/*.' .)1 ; /0' D*' -* *--*0', 1' 6' 5*2*-6/' >1 ; 2> / ' 1-', 1',)*' 2*L, ' 0 *, ' * 5), **2' ?12,) . ' 6 ,*-' 620' ,)6, ' 2',)*' ?*62', ?*' ',)*' -1, *., 62, .') 1 ; /0' 9**=' D ' =6, *2, ' ,1' -*, 6 2',)*' -' -*/ 5 12' 21, 8 ,) . , 620 25' ,)*' *0 >, % Q% -" ' $ ' ' ' '5 ' 86.')*/0' 2' Sd' 212*' 1 ',)*' -1, *., 62, ' >12 *0*-6, *' =- 2>*.' 6==*6-*0% ,' 86.',)*-* 1-*' .112' 0*>-**0' D ' 6' =/ ; -6/ , ' 1 ' +1, *.',) 6, ',)*' 1 ; 2> / 1 ' (-*2, ' .)1 ; /0' D*' 1//18*0% ()*' -1, *., 62, ' 0*=; , *.' 1==1.*0' 620',) .' >6 ; .*0' 6' 86-' 656 2.',)*?%

,)*' *?=*-1-' 0*?620*0' ,)6,' ,)*' ?6265*?*2,' 1 ' ,) .' 606 -' .)1;/0' ;*' /* ,' ,1') ?' 620' ,' 7+6.' 0 -*>,*0' ,)6,' *+*- '12*' .)1;/0'>12 1-?',1',)*' 0*> . 12' 1 ',)6,'>1;2^ > /%

%' -"' -" ' ' ' '& ' 86.')*/0' 2' Q' 8)*2' ,)*' >1?? .. 12*-.' 6==1 2,*0' ,1' *L6? 2*' .1?*' ?*?1 -.' 6D1;,' 6' >12 *.. 12' 1 ' 6 ,)' 21,' 65-** 25' ,1^ 5*,)*-' ,)*' *?=*-1-' 26?*0' ,)-**' 0 2*. ' 8)1' 0-*8' ;='.)*' =/62' 1 ',)*' 6?1;.' ' **' ? !

%' -"' '@ "' ' ' '& ' 86.')*/0' 2' %' ()*'*?=*-1-' >1?=/6 2*0',)6,',)*' 2,*- ?' 86.' 21,' 1D^ .*-+*0' 620' 0*?620*0',)6,' 6// .)1;/0' .;D? ,' ,1',)*' >1;2> /' 8)>)',)* ' 8*-** 51 25',1' -*2*8' 6,' (-*2,d' D;',)*' 0*=:,.*.' 1 '0;9*' : 6;- >** 1 ' 6L12 '=-1,*.,*0' 7,)6,',)*.5' -' ?6.,*-' D60' 65-**0',1' .;D? ,',1',)*' >1;2^ > / 12' >120 , 12',)6,',)*' 0 + 2*.' 1 ',)*' 12 *.. 12' 1 ' ;5.D;-5' 21,' 12/ ' .)1;/0' D*')*6-0',)*-*' D;,' .)1;/0' +1,*' 6/.1' / 9*',)*' 1? .)' D .)1=. '620',)6,',)*' =1=*' .)1;/0' 21,'=-*. 0*1' D;,' D '=/;-6/ , ' 1 '+1,*. ' .;D? .^ . 12',1',)*' >1;2> / 86.' 65-**0';=12%

K%' -"' '@ "' ' ' '& ' 86.')*/0' 2' C' ,',) .' 0 *',)*' */ 5 1;.' *6>*' 1 ' ;5.D;-5J' &6.' >12>/;0*0' 8)>)' -*5;/6,*0',)*' > + / -*/6, 12.' 1 ',)* 3' +625*/ >6/.'MD ' 8)>)',*-?' 12/ ',)*' ;,)*-62.' 8*-*' ;20*-.,110X% >>1-0 25',1',) .' 65-**?*2,' 21' .,6,*' 1 ',)*' 4*-?62' *?= -*' 86.',1' D*' 0 .,;-D*0' 12' 6>>1;2,' 1 ',.' -*/ 5 1;.'>12^ ,-1+*-. *.' 8*-*',1' D*' >1?=-1?/5*0' D ')- ., 62' 6? ^ >6D/*' 620' =*6>*6D/*' ?*62.1' ,)*' = .>1=6/' A;- .0 >^ , 12' 86.' .;.=*20*0' 8 ,)' -*56-0',1',)*' 6 ,)' 620' -*/ 5^ 1;.' 81-.) =' 1 ' +625*/ >6/.1' -**' ?5-6, 12' 12' 6>^ >1;2,' 1 ' -*/ 5 12' 86.' 5;6-62,**0% ( ) .' 65-**?*),' 86.',1' >12, 2;*' *+*2' '6' -*/ 5 1;.' -*;2 121.)1;/0' 21,' D*' * *>,*0%

N%' -"' ' -" ' ' ' '5 2 ' 86.')*/0' 2' ' ()*' 6..*?D/ ' 0*?620*0' 6' >12 *-*2>*' D*,8**2' .1?*' 6?1;.' 01>,1-.' 1 'D1,)' =6-, *.d ,) .' >12 *-*2>*')*/0' 6,' & 1-?.' D*,8**2',8*/+*' 6= ,,.' 620' 62' *_;6/ 2;?^ D*-' 1 ' ;,)*-62. ' 86.' .112' 0 ..1/+*0%

,- >)%' (' ' ' 6' /*6-2*0' ;,)*-62' ,)*1/15 62' 86.' D1?' 6,' ;,[D6>)' 4*-?62 ' B62%' R' S K%' : *' D*>6?*' =-1 *..1-' 1 ' 4-**9' 620') .,1-' 6,' 4 *..*2' 8)*-*')*' 0 *0' B;2*' K ' SSR% ?125') .' 2;?*-1;.' 8-, 25.' 6-*' ' ' ' a ' ; ' # ' $T; ' '5 ' M4 *..*2' SSN Q+1%I ' & 4 =' ' ; ' M4 *..*2' S ' 1/!8 $T & 4 ') ' - .' ' ' "=-" " '? =' D* ' 7!' - 'M -629 ' SQ ' 1/%X% ' 7 : 1* *-' 7 ' ; ' ?"2 ' L + ' S%

*,- >)' ' * ' 1-' * ' .1' >6//*0' -1?') .' 26, +*' =/6>*' 2' & *.,=)6/ 6' .;;0 *0',)*1/15 ' 620' D*^ >6?*' =-*D*206- ' 1 ' 122' 2' NS % 2' N ')*' 8*2,' ,1' + 5212 ' 8)*-*' =1=*' 4-*51- ' d ' ?60*') ?') .' .*>-*,6- ' I$ % '&% X' 620' 8)*2',)6,' =1=*' -*?1+*0') .' .**',1' 1?*' *,- >)' 6>>1?=62 *0') ?' 620' 1D,6 2*0' 1 >*' 6.' =6=6/ =-1,)121,6- ' 620' 6DD-*+ C' 6,1-% 2' NR ' M1-' NRSX 12 6>*' d' 1 *-*0') ?',)*' D .)1=- >' 1 ' & *-0*2 ' D;,')*' 86.' 21,' 6D/*' ,1' 5*,' =1.^ .*.. 12' 1 ',)*' .**' 8)>)' 86.')*/0' D ' 6' 21? 2**' 1 ',)*' 62, C=1=*% C 2' ')*' 6,,*20*0',)*' 1;2>/' 1 ' 12^ .,62>*' 620' 0 *0' 6D1;,' % ' ' ' ' M: 6-0,' 2 % ' ' ' M: 6-0,' ' ' ' ' !' X `T ' ' " ' # # 'M QX M ;-*?D*-5' NK' 1/ 1X' 620'-*=;D/ .)*0' 6 ^ ,*-86-0.' 8 ,)',)*' 600 , 12' 1 ',)*' 1;-' D119.' 1 ') ' 1' 1 ' 8)>)',)*' " + ' 1-?.' 6' =6-,' M 6.*/' S SST' ;-*?D% RKT' ,-6.D;-5' S Q' 620' S RX% ()*' /6,,*-' *0 , 12.' D*6-',)*' ,/*' -" ' 7 " ' % ' ' N ' -" !7 ' 86.' =;,' 2' ,)*' 20*L% **' 6D- > ;.' ; ! ! ! ' ' ! +1/% %T *-*-' 2 2 " 1' .% + %T : *-[15' 5 26 + % ' ' NQQ%

*,- >)' 1-' *,*- >) 'F ' IN ' -" ' 1-' -" 81' 876.' D1-2' 2' S' 6,' ;-*?D*-5% :*' .,;090',' 6,' & ,,*2D*-5' 8)*-*')*' 6,,-6>,*0',)*' 6,,*2^ , 12' 1 ' ;,)*-' 620' D*>6?*') .' 6?62;*2. .' 620' >1?^ =62 12% ;,)*-',119') ?',1',)*' >12 *-*2>*.' 1 ' <6-^ D;-5' M KRX' 1D;-5' 620',)*' ?=*-6/ *,' 1 ' ;5.^ D;-5' M N X% :*' 6 ,*-86-0.' D*>6?*' 6.. .,62,' =-1^ *..1-' 2',)*',)*1/15 >6/ 6>;/, '6,' (,,*2D*-5' 620' 2' N '-*,;-2*0',1' ;-*?D*-5' 8)*-*')*' D*>6?*' =-*6>)^ *-'6,' ,% *D6/0;. .'>);->)' 8)>)'=1. , 12')*' -*,6 2*0' 21,8 ,).,620 25',)*' 1 *-' 1 '=-1 *..1-.) =.' 2',)*' ;2 ^ +*-. ,*.' 1 ' & ,,*2D*-5' 620' * =. >' ;2, /) .' 0*6,)' <6->)' K R% -1?' N ',1' R')*' 86.' 2' 6>, +*' >1--*.=120*2>*' 8 ,)' ;,)*-' <*/62>,)12' 620',)*1,)*-' /*60*-.' 1 ' -1,*.,62, .?% :*' 86.' ?1-*' -60 >6// ' ,)*-62' ,)62' <*/62>,)12% *,- > ')60' 6/.1' .1?*' *- '0.>;.. 12.' 8 ,)' . 620*-' 12' ,)*' .;DA** ' 1 '6D^ .1/;, 12% ;- 25',)/6,,*-' =6-' 1 ') .' / *')*' 86./ .1-*/ '6 / >,*0' D ',)*' .,6,*' 1 ',)*');->)' D* 25' *+*2' .;.=*20*0' 1-' 6' 8)/*' 2' 12' 6>>1;2,' 1 ' D .' 2^ 0*=*20*2>*' 1 ' *L=-*.. 12% *. 0*.' *0 , 25' 620' =;D^ / .) 25',-62./6, 12.' 1 '6' 2;?D*-' 1 ',)*' 81-9./' 1 ' ;^ ,)*-' 620' <*/62>,)12')*' 8-1,*' 6' 2;?D*-' 1 ' .*-?12.' 62' 6 ' " ' " ' ' % %" ' " .:' & ' " ' ' ' ' ' ' M NC SNR' /6..' *0% X% 2' Q' 8)/*' //')*' 8-1,*' 6' . .,*^ ?6, >*L=1. , 12' 1 ',)*' D119' 1 ',)*'=-1=)*,' .6 6)' 620' >12,*?=/6,*0' 01 25',)*' .6?*' 1-',)*' 1,)*-'=-1=)*,.' D;,' 86.' =-*+*2,*0' D ' 0*6,)% ()*' 6% " 1' ' 7 ' ' !'5 % ' M NRX' 5*2*-6// ' 6.>- D*0',1') ?' 86.' 8- ,,*2' D ' . 620*-% *,- >)' 6/.1' >1?=1.*0' .* *-6/) ?2.% **' 2',)*' % ' 5 1' * 1',)*' >1--*.=120*2>*' D*,8**2' <*/62>,)12' -;>5*-' 620' *,- >)' M N C RX' ,-'1D*/' 7 "=' " ' N!' !' ' !'$ " ' N!' " ' M ;-6D*-5' KX' : *-[15' 5 =6 + % ' ' NQR% *;' 0*' 1;.' M %') 3' 86,' D1?' 6,' /*.C' .25*2' =-/ R' 8)*-*') .' 6,)*-' 62 */0*' *-' 6/6D1-*0' 2',)*' ? 2.,-' K' *=-.')6+ 25' =-*+ 1;./' .=*2,' KK *6-.' 6.' ? 2 .,*-' 1 ',)*' * 1-?*0');->)' 2' -;..*/.% 7;.' 86.' 6' 62' *6-/ ' 65*' 0*+1,*0',1',)*' .*-+ >*' 1 ',)*');->)' 620' =/6>*0' ;20*-.)*' >6-*' 1 ').';2>/*' 62 */ 1/12;.'-*5*2,' 1 ',)*' &6//112' 1/^ /*5*' 6,' * 0*2' 6' >1?=*,*2,' 620' [*6/1;.' =.,-;>,1-' 2' ,)*1/15A+' : *-*')*' ?60*' 5-*6,'=-1 > *2>' 2').',)*^ 1/15 >6/ ,;0*.% &)/.,' *,'6' >620 06,7*' 86.')*6-0' 2' U*6/620' D '=-2>*' <62->*' 8)1' 1 *-*0') ?',)*' =1. , 12' 1 '>1;-,C=-*6>)*-' 8)>)')*' 0*>/ 2*0% 2' S N)*' D*>6?*' =-*6>)*-',1',)*' & 6//112' >);->)' 2' < 00*/C' D;-5' 620' 2' S ')*' 86.' 7//*0',1',)*' * 1-?*0');->)' 2' / *.. 25*2' 8)*-*')*' =-*6>)*0' 21,' 12/ ' 2' ;,>)' D;,' 6/.1' 2' -*2>)' 620' 25/ .)% 2' S R')*' 86.' >6//^ *0',1' D*' =6.,1-' 1 ',)*' * 1-?*0' >);->)' 2' * 0*2% &) /.,')*-*')*' 0*>/ 2*0',)*' =-1 *..1-.) =' 1 ',)*1/1^ 5 ' 1 *-*0')?' 2',)*' 2*8/ C 1;20*0' $2 +*-.,' 1 ' $,-*>),' : 60') .' / *' D**2' .=6-*0',)*' .6?*' =1. , 12' 2',)*' $2 +*-.,' 1 ' * 0*2' 81;/0')6+*' D**2',*20*-*0') ?% : *' 0 *0' *>*?D*-' KK' S K% *' *:' 86.' 6' ?62' 1 '*? 2*2,' 5 ,.' 620' 6,,6 2?*2,.' 620' *2A1E *0' ,)*' *.,**?' 1 '?62 '1 ') .' ?1.,'*L>*//*2,' >12,*?=1-6^ -*.% : .' 6,,*2, 12' 86.' .=*> 6// '0*+1,*0',1',)*' -^ *2,6/ /625;65*.% ()*' -;,.' 1 ') .' .,;0 ' 2',)6,' 0 -*>^ , 12' 8*-*d % ' ? ' # 'M *A7C' 0*2' SKS' ,1X' ? ' - ' # $ 1' ' + ' M * 0*2' SKQ7 ,1X' 5 ' ' M * 0*2' SNR' ,1X% ()*.*' 8*-*' 6//' 8-,,*2' 2' 6, 2% : .' - *2,6/.,;0 *.' 8*-*' ?60*' .;D.*-+ *2,',1',)*' */;> 06, 12' 1 'C,)*' : 1/ ' >- =,;-*.% 2' SK ')*' =;D/ .)*0' 6,' * 0*2') .' &% % ' + ' $ ' 'C $!' %!' ; "!1D !' $ ' 1' 1 " '$ ' ' 1' ' ' ' ? ' ' ' ' .' 620' 2' SN ') .' & ' ' ' ' '4 '6 1' '4 ' '$ ' % 1'& 1'6 '6 'N 1' !'6 ' ' ; / ' (1' ' ' ' ' D ' !' 2',) .' 81-9')*' 0 .>;..*0' 8,)' 5-*6,' ?=6-, 6/ ,' 620' 6>>;-6> ',)*' +6/;*' 1',)*.*' 0 ^ *-*2,',-62./6, 12.% -, >6/' 620' *L7*, >6/' 81-9.' 12' ,)*' >,.' 1',)*' =1./*.' 12',)*' =.,/*.' 1',)*' 1?62.' *,>% .;>>**0*0% 2' ,)*.*' ,)*' +6- 1;.' ,-62./6, 12.

8*-*' 6/.1' >1?=6-*0% //' / .' *L*5*,/>6/' 620' >- , >6/' 81-9.' 8*-*' 26// ' *0 ,*0' D I'=-1 *..1-' * 0*>9*-.'620' =;D/ .)*0' 2' 1/ 1' 2' SRN' *2, ,/*0' '$ ' ' & ' ' '4 ' 'N!' ' %- 1' I' **' 6 /*' 1 1' .% + %T ?12 ' # ' 4 1' I' (% ')6=% N%

56? .,. ' 6' ,*-?' 62> *2,/ ' ;.*0' ,1' 0*. 526,*' =*-.12.' ' ' 6 ,*-' D6=, . ?' ,)1;5)' /*56// ' 620' .;>>*.. +*/ ',1' ,81' 8 +*. ' 12*' 6 ,*-' ,)*' 0*6,)' 1 ' ,)*' 1,)*-% ()*' <12,62 .,.' ZT120*?2*0' 6// .*>120' ?6-- 677.' 6.' ;2/68 ;/T D;,' 6/,)1;5)',) .' 1= 2 12' 0 0' 1,' =-*+6 / 5*2*-6// ' ,' 86.' ,)*' >1?2'12' =-6>, >*' ,1' -* ;.*' 1-0 26, 12',1' ?*2' 8)1')60' D**2',8 >*' ?6-- *0% (*-,; / 62' M0*' I' >)6=' L X' >120*?2*0' .*>120' ?6-- 65*.' *+*2' 2' /6 ?*2T' 620' ?D-1.*' B*-1?*' = =)62 ;.' 620' 1,)*-.' 6..;?*0' ,)6,',)*' 2A;2>, 12' 1 ',)*' 6=1../*' ' (?% ' K' 2' 8) >)')*' 0 -*>,.' ,)6,' 6' D .)1=' ?;.,'D*',)*');.D620' 1 '12*' 8 *' 1-D60*' 62' *>'I' >/*. 6.,>',1' ?6-- ' ,8 >*%)- .1.,1?' ()*101-*,' 620' 1,)*-.' 56+*' 6' >12,-6- ' 1= 2 12' 620' 2,*-=-*,*0' ,)*' 6=1../* ./625;65*' 1 '=1/ 56? .,. '0-' .;>)' 6.' 8*-*' ?6-- *0' ,1' ?62 ' 8 +*.' 6,',)*' .6?*' , ?*' 620' .;>)' 6.')60' >6;.*/*../ ' =;,' 686 ' ,)* -' 8 +*.' 620C ?6-- *0' 1,)*-.'6 ,*-'0 +1-> 25',)*' 1-?*-' I ;?*-1;.' 2..62>*.')6+*' D**2'600;>*0',Q'=-1+*',)6,'.*>120' ?6-- 65*.' 8*-*' 21,' 62' ?=*0 ?*2,',1' 1-0 26, 12' >% 5% (*-,;$ 62' I ' ' 'L X'60? ,.',)6,',)*-*' 8*-*' D .)1=.' 8)1')60' D**2',8 >*' ?6-- *0% ' 25)6?' ,]K6 f D9% + ')>%' 'g C %

5D ' ' 1 ' 86.' D1?' 2' S N' ,)-*' *6-.' D* 1-*') .' 6,)*-' -' +*-6-0' 5D ' 86.' *L*^ >;,*0' 1-') .' .)6-*' 2' ,)*' 4;2=180*-' /1,% : *' 86.' D-1;5),' ;=' 2#,)*' -1,*-.,62,' 6 ,)' 620' 2' S Q 86.' *2,*-*0' 6,' 4/1;>*..*-' : 6// ' L 1-0 ' 8)*-*')*' 56 2*0' 6' 8120*- ;/ 26?*' 1-' 6D / , '620' .>)1/6-.)=% ' ' '

a feast (*Ant.* i, 21, 2). The object for which this narrative is introduced into the book of Genesis probably is partly to explain the allusion in Gen. xlix, 5–7, and partly to exhibit the consequences of any association on the part of the Hebrews with the heathens about them. Ewald (*Gesch. Isr.* i, 40) arbitrarily assumes an actual fusion of the nomad Israelites with the aborigines of Shechem, on the ground that the daughters of the patriarchs are generally noticed with an ethnological view. It appears from Gen. xlvi, 15 that Dinah continued unmarried in the patriarch's family, and accompanied him into Egypt.—Kitto, s. v.; Smith, s. v. See JACOB.

Di'naïte (Chald. *Dinaye'*, דִּינָיֵא, of unknown, but probably Median origin, used as a plur.; Sept. Δειναῖοι; Vulg. *Dinæi*), one of the foreign tribes colonized by the Assyrian general Asnapper in place of the deported Samaritans, and who afterwards joined in the opposition to the efforts of the returned Jews in rebuilding their city (Ezra iv, 9). Junius (*Comm.* in loc.), without any authority, identifies them with the people "known to geographers by the name *Dennaní*;" but there is only a *Denna* mentioned by ancient writers, and that an obscure town in Africa (Pliny, *Hist. Nat.* vi, 35). Schulthess (*Paradies*, p. 363) vaguely conjectures *Daritis*, the most southerly province of Media Major (Δαρεῖτις χώρα, Ptolemy, vi, 2, 6; Pliny, vi, 25; comp. Mannert, V, ii, 159), or *Dera* in Susiana (Δῆρα, Ptolemy, vi, 3, 5). See DURA. Ewald (*Gesch. d. Volkes Israel*, iii, 375) suggests the Median city *Deinaber*.

Dinant, or **Dinanto**, DAVID OF. See DAVID OF DINANTO.

Dine (אֲכַל, *akal'*, Gen. xliii, 16; elsewhere to

Ancient Egyptian Dinner-party.

a, f, n, r. Tables with various dishes, *c*, *k*, *i*, *m*.—*b*, *p*. Figs.—*d*, *e*, and *q*, *s*. Baskets of grapes.—1, 2, and 8 are raising the covers; 3 is taking a wing from a goose; 4 holds a joint of meat, *g*; 5 and 7 are eating fish, *k*, *o*; 6 is about to drink water from an earthen vessel.—*l* is the *fyál* or *rapháura*.

Modern Oriental State Dinner.

'*>-J' 1-' 0 * + 1 ; - % ' ;9*' N 'B1)2'LL '
K X' 'M2-,2d' " "(1' -1+L+' ' */.*^
8)*-*' 6//1 8 62>* K' 25.' LL+' N ' + >,;6/. J
B*-L/ ' '0 *, J'B*-/ ' N '6=, --1-' <6,,' LL ' '
;9*' L 'NQ' L + ' KX ()*.*' : *D',*-?.' 6-*' 21,' *L^
=-*.. +*' 1 '62A7=6-, >;/6-' ?*6/' 6/,)1;5)' 2',)*' =6.^
.65*' -.,' > ,*0' ,)*' 2112' ?*6/ .' -* *- *0' ,1 ()*
4-**9',*-? .'MD1,)'9 20-*0',1' - =,'>;-C/ X'-*/6 *' =-1=*-^
/ ' ,1' ,)*' ?1-2 25' ?*6/' ,69*2' 1- 5 26// ' 6,' . ;2- 7'
M:1?*-' !' LL +' K ' , !' L+ 'KX' 2'/6,*-', ?*. ',)*'
D-*69 6.,V;2> '(O!% 1',69*2'6D1;',)*' ? 00/*'
1 ',)*' 1-*2112'1-'*+*2'.1'/6,*'6.'2112' ,)*' =- 2> =6/
?*6/ D* 25' ,)*' --N, 1' -*20*-*0' .;==*-J' M_' +%X'
,69*2'/6,*-' 2',)*' 6 ,*-2112' 1-' *6-/ ' 2',)*' *+*2 25'
 **' !

,'6==*6-.',)6,',' ,86.',)*'>;.,1?' 2' 5 =,' 2'5-*6,'
6? / *.',1'0 2*6,'2112'620' 1-',) .'=;-=1.*',)*'?*6,'
86.' ./6;5),*-*0' 12',)*' =-*? .*.' 12/ 'A;.,' D* 1-*' ,'
86.'(*_; -*0' 1-'>119 25'M4*2'L/ ' SX' 8)>)' .',, //
,)*'>;.,1?' 2',)*' 6.,' 12' 6>>1;2,'1 ',)*')*6,' 1',)*'
>/ ?6,*' ,' .'=-1D6D/*')1 +*+*-',)6,',)*' 5 =, 62.'
/ 9*' 1,)*-' 2)6D ,62,.' 1 ',)*' 6.,' 1.'6/.1',)*' 4-**9.'
620' 1?62.',119'12/ '6'./ 5),'0 22*-'6D1;',) .', ?*'
,)*'=- 2> =6/ ?*6/D* 25'6,'. L'1-'.*+*2' 2',)*'*+*2 25'
 6.,' 6,'6'/6,*-'-'=*- 10'6?125',)*'B*8.' 8*-*' 6/86 .'
6==1 2,*0'6,'.;==*-C, ?*' 1-',)*'D;-2 25')*6,'1 '2112'
0 ? 2 .)*0',)*' 6==*, ,*' 1-' 110'620' .;==-*..*0',)*'
0 .=1. , 12',1')**- ;/2*..' M< 6-9' + ' K ' ;9*' L + '
K 'B1)2' L /' KX '>12. 0*-6D/*' _;62, , '1 '?*6,'
86.' .*-+*0';='6,',)*.*' -*=6.,. '6.' .'-+ 0*2,' -1?',)*'
.>;/=,;-*. '8)>)' .'., //',)*'>;.,1?'1' 6.,*-2'/6, 12. '
8)1.*' / '1-' *6.,' .' -*?6-96D/*' 1-',)*' ;2.=6-^
25'=-1 ;. 12'1 '+ 620.' '5-*6,'+6- *, '1 '+*5*,6^
D/*.'86.'6/.1'-*_; -*0'12'6// 1>>6. 12.'620'8)*2'0 2^
25' 2'=- +6,*'0 .)*.' 1 ',)6,'9 20'.**?',1')6+*'D**2'
2'5-*6,*-'-*_;*.',)62'A1 2,.' *+*2'6,',)*',7/*.'1 ',)*'
- >)' ()*'.6D/*.' 6.' 6,' 6' 1?62'-*=6..,7'8*-*' 1>>6^
. 126// 'D-1;5),' 2'620'-*?1+*0'8 ,)',)*'0 .)*.' 12'
,)*?'.1?*, ?*.'*6>)'A1 2,'86.'.*-+*0';=' .*=6-6,*/ '
620',)*' -;, '0*=1. ,*0' 2'6' =/6,*' 1-',-*2>)*-' .;>^
>**0*0',)*' ?*6,' 6,',)*' >/1.*' 1 ',)*' 0 22*-' ()*'
 5 =, 62.'/ 9*',)*' B*8.' 8*-*' =6-, >;/6-/ ' 120' 1 '
 5.'620'5-6=*.' -*.)'06,*.'8)*2' 2'.*6.12'620' 2'
6'0- *0' .,6,*' 6,' 1,)*-' =*- 10.' 1 ',)*' *6-' 8*-*' 6/.1'
D-1;5),',1',6D/*'6.' 8*// 6.'6'=-*.*-+*' 1 ',)*' -;, ', ., //
>1?*12' 2' 5A7=,'620' -6D 6'M& /9 2.12'& !'6 %J
' '._%'6D- 05?%X' **'8 M$!

2)7D6)'M:*D' ' " " "(' =*-)6=.' "=
" 1' '1,)*-8 .*' ":' *=,%I O 7AP6VN6' ;/5'
' " 8'62' 01?, .)'> , ',)*'>6= ,6/M620'=-1D6D/'
D -,)=/6>*X'1 '9 25' */6'M4*2' LLL+ 'NKT' ')-1;'
 NX' ;.*D ;.' 620'B*-1?*'I, !'.' +' 6+6VNO'
 6?26D6X'?*2, 12'6'+ //65*'6 'M 6AV+.6'B*-1?*'
' 8'*5),'?/*.' -1?' -*1=1/.'1-' -'1'<16D'
MB*-1?*' 12',)*' -160',1' ?12JX'620'621,)*-'12'
<1;2,' *1-'.*+*2' ?$*.' -1?' .D;.'M:*.)D12XT'D;,'
2*,)*-'1',)*.*')6.'>/6 ?',1'D*',)*' 2)6D6)'1' >- =^
,;-*' %B1.*=)'2') .' - 'M12')-12' 'N'
0'& /9 2.X' 20.'6'. 52 >62>' 2',)*'26?*' ,*-'
0*2, 25' 6/66?',)*'.12'1 ' *1-' 8 ,)' 6D62',)*'
 - 62')1'600.' ' 20',)*'26?*'1 ') .'>6= ,6/'>, '86.'
 2)6D6)' 1-',' ' 'M- 7B(7- X') ?'6.'6'=-*.^
2,%J' ()'26?*' .' 21,' ;2>1?12'6?125',)*')*')*C'
?,>'-6>*.' ,1/*? 'M+' 'K X'?*2, 12.'6'6 '
I& 1 1'2' 6/? -*2*' - 6'6 ,*-86-0.'6'D .)1=.'
.**'620'6>>1-0 25',1'U1. ?;.'M 'K X',)*-*'86.'6' 1C'
 'I& IC *8'2' 6D /12 6' ()*'=/6>*' 2'_;*.,12'
86.'01;D,/*..'12*'1',)*'=*,, '/1>6/,*.'1'<1;2,' *-'
=1.. D/'6,' ' " 1'6'/ ,,/*' % '1' 7 -6'M ?,) ./ .,'
2' 1D 2.12 .'5 " 1' ' ==%'=%' '620'%' %P8!

; ?%' **'0 $!

22*-%' **' !

2,*-' &$ ' ' 6' 4*-?62',)*1/1^
5 62'86.'D1?'6,' 1-26'2' 6L12 ' *D%'KR' S '
:*' .,;0 *0',)*1/15 '6,' * =. >' 620'12'/*6+ 25',)*
;2 +*-. , '86.')>)6-5*0'8 ,)',)*'*0;>6, 12'1 ',)*' 12'
1 ')>)6?D*-/6 2' 1//2 ,[% 2' Q ')*'D*>6?*'=6.,1-'1 '
 ,':>)*-'2*6-' 1-26'620'2' R '0 -*>,1-'1 ',)*',*6>)^
-.' .? 26- '6,' - *0- >).,60,'2*6-' -*.0*2%' :*'
86.'6 ,*-86-0.'. ;>>*.. +*/ '=6.,1-'6,' 41-2 ,[' 2B%Q '
.>)11/ 2.=*>,1-' 2' Q S'620' 26// '=-1 *..1-'1 ',)*^
1/15 '6,' 12 5.D*-5' 2' QKK%' :*' 0 *0'6,',)*'/6,,*-'
=/6>*' <6 'KR QN %' :*' 8-1,*'/6-5*/ '12'>6,*>)*,>.'
-*/ 5 1;.' *0;>6, 12'620'1,)*-'=-6>, >6/ .;D*>,. '6//' 2'
,)*' 2,*-*.,'1 ' 6, 126/ .?%' 2') .'D119.' 1-'>) /0-*2'
 2,*-'1=*2.',)* -'* *.'6.',1',)*' ?=*- *>,'21, 12.'1 '
,)*-' 6,)*-.' 6.',1' 410' ? -6>/*.' *,>%' :*' 5 +*.'
,*6>)*-.'0 -*>, 12.')18',1'>120;>',)*?.*/+*./*+*-/ '
 2'.;>)'?6,,*-.'620'6 ,*-86-0.' 2'65-**?*2,'8 ,)',)*'
=- 2> =/*.')*'-*>1?*?*20.')*/*6 .'0182'=/62.'1 '>6,*^
>) . 25' 1-'*L6?=/*',)*-*' 6-*',1'D*',81'86 .'1 '
>6,*>) . 25'6D1;,'B126)a' 12*'D* 1-*' 62'6;0 *2>*' 21,'
.; > *2,/ '*2/ 5),*2*0'620'8)*-*' 6// -*?6 2.' 2' ,.'
1/0'.,6,*' 621,)*-' 1-'=/6>*.' 8)>)')6+*' ?1-*' / 5),%'
 2',)*'=-1=)*> *.'>12>*-2 25',)*'<*.. 6)'6'01;D/*'*L^
=/626, 12'.'5 +*2' 1-',)*'.6?*'-*6.12% 2*'.',)*'1/0'
1-,)101L'86 '620',)*'1,)*-'6' ?1-*'=-1D6D/*'2*1/15C'
>6/=/62% '>/*+*-',*6>)*-'.',1')11.*' 1-') ?.*/ T'
6'0 ;// 12*' ?6 '6.9',)*'=6- .)'>/*-5 ?62')18' 6-')*'
?6 '51%J' : .'>1//*>,*0'81-9.')6+*'D**2'=;D/ .)*0'
D '& /)*/?';20*-',)*', ,/*'6 " ' + 'M k C'
Q K'+1/.%XT') + + ' " 'M Q C S'+1/.%XT'
 " ' + ' M Q C ' R' +1/.%XT' & " '
 + 'M Q C ' '+1/.%X%' :*'=;D/ .)*0'62'6;,1D 15^
-6=)'I% (' 1 ' 'N ' ' " ' *2C'
.,60,' QKRX%' 6)2 .'? ' 1'>)%' 'g
ST' *-*-'2 1 + '.%+%T' :*-[15'5 26 '
+"%!' 'NR T':;-.,'# ' '5 1'>)%+ %
 1>.*.6-*6%' **' / / ' !

1>*.62' =.>1=6> ',)6,'..,*?'1 ' =.>1^
=6>' 2'8)>)',)*'D.)1=')6.'A;- .0>, 12'12/ '1+*-'6'
>*-,6 2' ;?D*-'1 '=6-.)*.'1-'1+*-'6'>*-,6-'0 .,->,'
1 '>1;2,- '>6//*0'6' !' **'8 ' /'T'>/ / L
 #g !

= 1>*.*'I)* 1' 81',)*',*--,1-6/'
> ->;',1'6'D.)1=.' '8)*-*',)* =.>1^
=6>' .' 'M_%+%X%
%'5 ' ' %'()*'1-5 2'1',)*'0 1>*.62'
0 +. 12'.',1'D*',-6>*0',1',)*'62> D2,'0 +. 12'1 ',)*'
/6,*-' 1?62'*?=-*%' ()*',*-?' '.';.*0'D' >^
-1'>6 ' 'Q'X',1'0. 526,*',)*'0 .,->,'1 '6'51+^
*-21-.'A2-.0>, 12% 12.,62, 2*0 + 0*0',)*'*?= -*'
 2,1'N'/6-5*-'0 +. 12.'>6//*0'0 1>*.*.'8)>)'8*-*'
656 2'0 + 0*0' 2,1' K '% !' ()*'0 1>*.*.'8*-*'
51+*-2*0'D '+ >6-.'1-'=-* *>,.%' ()*'>+/ 0 1>*.62'
0 +. 12'2',)*'06 .'1 ' ->60 ;.'620' : 121- ;.'MD*5 2^
2 25'1',)*' ,)'>*2,;- X'86.6.'1//18.á %' '
'% ' ' S' +*'0 1>*.*.'8*-*'.;DA*>,'
) .'A;- .0>, 12'26?*/ ',)*' - *2,6/0 1>*.*'=-1=C'7
*-/ '.1'>6//*0'K',)*'0 1>*.*'1 ' 5 =,'N',)*'0 1>*.*'
1 ' .6' ',)*'0 1>*.*'1 ' 12,;.' ',)*'0 1>*.*'1 '
()-6>*%' %' ' '% '2 S'12/ '
,81'0 1>*.*.'8*-*'>1?? ,,*0',1') .'.;=*- 2,*20*2>*'
26?*/ ' ',)*'0 1M7.*'1 '<6>*012 6'K',)*'0 1>*.*'1 '
 6> 6%' %' ' ' S' ,)-**'0 1^
>*.*.'8*-*'.;DA*>,',1',)*'A;- .0>, 12'1',) .'51+*-21-'
26?*/ 7' ',)*'0 1>*.*'1 ' ,6/ 'K',)*'0 1>*.*'1 '// ^
- 6'T N',)*'0 1>*.*'1 ' - >6%' %' ' '
? S')*')60',)*'>1?2620'1 ',)-**'0 1>*.*.'
26?*/ ' ',)*'0 1>*.*'1 ' =6 2' K' ,)*'0 1>*.*'1 '
46;/T N',)*'0 1>*.*'1 ' - ,6 2% ()*'0 1>*.*'1 ' - ,^
6 2'2>/;0*0' ,*'=-1+ 2>*.')6?*/ ' '<6L ?6' .*.6C'
<**2. .T' K' 6/*2, 6' Q' - ,622 6' - ?6' ' - ,62^
2 6' *>;206' ' /6+ 6' .*.6-**2. .%' -',);.a

' /'8 ! 7d 2' 'F '
! 1* !' (
%'<6L ?6' **.6-**2. .' %*%'6,' -.,'
6// -1?',)*'()6?*.' ,1',)*'21-.),'P')1-6>2?'M 1-)/%'
 * ?'D1-0*-.%%%

M,*2012X%

6-/*1/; ?'M ,1-/*12X%

% ;/*2, 6'D* 120',)*' *,.'86$M% D1-6> ?0' %

M 25)6?', !'6 V0'D9% L'>)% '8)*-*',)*' .;DA*>,' 6'+*-.' ;// ',-*6,*0%X' %

K%% 6 '' ! ' ' 1?*' .;==1.*',)*'0 + . 12'1'6'>);->)' 2,1'0 1>*.*.',1'D*',)*'26,;-6/>12.*^ _;*2>*'1',)*' 2., ,;, 12'1',)*'1 >*'1'D.)1=' 620',)6,' ,)*-._'1',)*'. .,*?'1'0 1>*.62'0 + . 12'1'6'>);->)' .',1'D*' 1;20' 2',)*' *8'(*.,6?*2,% ;',).' .' *+^ 0*2,/ '6'? ..,69*% 2',)*', ?*.'1',)*'6=1../*.'6'0 1^ >*.*'620'6'>);->)'6==*6-',1')6+*'D***2',)*'.6?*T',)*-*' 86.',)*-* 1-*'21'0 + . 12'1'62 '>);->)' 2,1'0 1>*.*.% ',' D*'.6 0',)6,'" ');->)' %*T',)*' 6,)1/>');->)' 86.',);' 0 + 0*0',). .',11'.'6'? ..,69%' &)6,' .'0 ^ + 0*0' ?;.,')6+*' -.,'*L .,*0'6.'6'] " ! 18',)*' 6,)1/>');->)'2*+*-'*L..*0'6.'6' " "'%*'6.'12*' >1?=/*,*' >1?7?;2, '12' *6-,)' -1?' ,)*', ?*' ,)6,')- ., 62, '=6..*0',)*'D1;20.'1'B*-;.6/*?% ()*2>*^ 1-86-0',)*-*' 86.' 21,' 1'D;,' '1' -*.)' >);->)*.J'M 0*2' " " 1 ' ' 1'.%+%X% ^ ,*-',)*'1-0*-'1'D.)1=.')60' ;// '*.,6D/.)*0',..*/' 620',)*'.,6,*')60'D*>1?*')- ., 627',)*');->)',119')*-'?10*/1'*>>/*. 6., >6/,*-- ,1-6/0 + . 12' -1?',)6,' 1',)*'.,6,*% D1;',)*'/6,,*-'*20'1',)*' 1;-,)'>*2C' ,;-A',)*');->)'6==*6-.',1')6+*'D**2'0 + 0*0' 2'6' . ? /6-'?622*-'8,)',)*'*?=-*')6+ 25'62'*L6->)'1-' =6,-6->)' 2'*6>)'1',)*',) -,**2'5-*6,'0 1>*.*.'620'6' ?*,-1=1/,62'1-'=- ?6,*' 2'*+*- '=-1+ 2>*% ()*'/*..^ *-'0 1>*.*';.*0'6.',)*'81-0'.'218'2>/;0*0',)*'*=.^ >1=6/>,'.,*/'620'6//',)6'-*5 12'-1;20'6D1;,'.'8,)' .' 2;?*-1;.'>125-*56, 12.';20*-',)*'D.)1=.'A;-.^ 0>, 12T)*2>*',' 86.'>6//*0',)*'D.)1=.' /1) 1' 8)>)' 2',.'1-5 26/6==/>6, 12'?*62,',)*'D.)1=.' 8)1/0*.*',)1;5)',)*'81-0'=6-.)'1-'6'. 25/*'>12^ 5-*56, 12')6.'/18*0'-1?',' 2'/6,*-'06 .% '6'/6,*-' =*-10',)*'81-0'0 1>*.*'86.',-62. *--*0',1',)*'D.)1=.' */0'1'A;-.0>, 12'620',)*'81-0'% " '>1+*-*0' ,)6,'1',)*'62>*2,'0 1>*.*%

2' 25/620';=',1',)*',8*/,)'>*2,;-'D.)1=:'8*-*' /6 0',1'*L*->.*',)*'-';2>, 12.'8,)2'6'>*-,6 2'5*1^ 5-6=)>6/,*--,1-'>6//*0'6'% "T',)*'81-0' 86.'.*/01?';.*0'21-'86.',6,'6//3*?=/1*0'2' 25^ /620'8,)'6;,)1-,'-1?',)*'=1=*.';2,/ % % NQ' >; ' '@ !'6 !'@ ' 1%K '=% KKNX% ()*');->)'1' 25/620'218'2>/;0*.',8*2, C*5),'0 1^ >*.*.'M2>/;0 25',)*',81'6->)D.)1=-.XT,)6,'1'-*^ /620',8*/+*% 2',)*'$2,*0' ,6,*.'6'0 1>*.*' .'6',*-^ -,1-';20*-',)*'A;-.0>, 12'1'6'.25/*'D.)1=' 1',)*' -1,*.,62,' =.>1=6/1-' 1?62`);->)'8),)*-'>1?^ =-*)*20 25'12*'1-'?1-*'.,6,*.'1',)*'$2 12'1-'12/' =6-,'1'6'.,6,*% *8'0 1>*.*.'>62'D*'1-?*0'2',)*' -1,*.,62,' =.>1=6/);->)'8,)',)*'>12.*2,'1',)*' D.)1=',)*'1>*.62' 12+*2,12'620',)*'4*2*-6/ 12^ +*2,12% ()*-*'8*-*'2',)*'$2,*0' ,6,*.'2' QS' ,) -,C1;-'01>*.*.'1',)*' -1,*.,62,' =.>1=6/);->)' 620'1-,C1;-'01>*.*.'1',)*'1?62' 6,)1/>');->)% 2' QS0',)*'=1=*'2'6>>1-062>*'18,)',)*'=-1=1..,12' ?60*'D',)*' *>120' /*26-' 0/?>/1' 6/,?1-*J' *.,6D/.)*0'2 2*'2*8'01>*.*.',)*-*D'2>-*6.25',)*' ,1,6/2;?D*-'1'1?62' 6,)1/>'01>*.*.',1' ,C,)-**% *' 25)6?', !'6 !'D119'L'>)6=' T /.12' % '? ' '" (' " "'>)6='L +T :119' " '" ' '.%+%T *--6-.' % '; 9 " 1'.% %T // 1,,' ' ' '5 'D119' '>)6='LT :119*-'6 ' 1 *'D119'+ 'g QT *5*/'# "' '&'2 " ' +'N Q%

1>/*.62'1-' 1>/*,62': $ ' 4' ;.' $ $ ' $3' 1?62'*?=*-1-'86.'D1-2' 6D1;,' % %K 'M1,)*-.'.6'K X'2*6-'6/126'2' 6/^ ?6,6% -1?',)*'26?*'1')..'?#,)*-' 1>/*6')*'86.' >6//*0' 10*.'8)>)')*'6,*-86-0.'?60*' 1>/*,62;.% :*'*2,*-*0',)*'6-? '620'-1.*' -1?',)*-629.',1')5)' 1. , 12% 1>/*.A62'>1?7?620*0',)*')1;.*)1/0'1-'?^ =*-6/D10 C5;6-0.'8)*2' 1;25' ;?*-62;.','),)*'.12 1'6-;.'86.'.*>-*,/'=;',1'0*6,)'D'=*-')'.'6C'1 ,)*-C 2C/68'8)/*',-6+*// 25' 2'6'>/1.*'/,,*-'12'6>^ >1;2,'1'//2*..'12',)*'-*,;-2'1',)*'6-?'-1?'*-.6% ()*'0*6,)'1'; ?*-62;.'D*25'0.>1+*-*0'6,*-'.*+^ *-6/06 .'D',)*'.1/0*-.'2*6-' 6/>)*012',)*'6--*.,^ *0' =*-'620'=-1>/6?*0' 1>/*.62'*?=*-1-'8)1'60^ 0^*..25',)*'.1/0*-.' -1?')'.',-D;26/' 2',)*'>6?=' =-1,*.,*0')'.' 221>*2>*'1',)*'0*6,)'1' ;?*-62;.'620',)*2';=D-6 0 25' =*-' 1-',)*'>-?*'=/;25*0')' 81-0' 2,1')'.'D10 % ()*'2*8'*?=*-1-'1D.*-+*0',1'6' -*20',)6,')*')60'218'9 //*0',)*'D16-J'6//;0 25',1' 6'=-*0>,12'?60*',1')?'DE'6' -;0*..'2'46;/',)6,')*'.)1;/0'?1;2,',)*',)-12*'6.'.112'W.')*')60'9 //*0' ,)*'8 /0'D16-'M 6,% &%8 8! :*'D*>6?*'*?=*-1-' *=,% 'KQ'620'2'KQS'>D1.*'<6L ?2 62;.'6.'D.'>1/^ /*65;*'2',)*'*?=-*'M6.' ;5;.,;.XT 2'KRK')*'600*0' 46/*-.;.'6.' 6*.6-'8)/*'<6L ?2 62;.')1.*' 12^ .,62, 2.')/1-;.' ()*'*?=-*'86.'=6->*//*0'1;'6?125' ,)*?'620',)*',)*1-A'1',)*'. .,*?'86.',)6,',)*' 1;25^ *-'?*2'6.' 6*.6-.'.)1/ /0'D*',-6 2*0',1'-;/*'620'.)1;/0' .;>>**0'2',?*',1',)*' ;2>, 12.'1' ;5;.,;.% 2,*-^ 26/*=*6>*'86.'.*>;-*0' 1-' *6-.'D' ,)'.'6--625*?*2,%

1 2'1' 1>/*.62% M -,.)'7/;.*;?% >,;6/.[*%X

()*'-* 52'1' 1>/*.62'86.' 2'?62'-*.=*>,.'6'21D/*' 620'.;>>*.. ;/12*'D;',.'5/1-'86.'.,6 2*0'D',)*' ,*-- D/*'=*-.*>;,12'1',)*')-.,62.'8)>)')*'6;,)1-^ [*0' ()*'*6-/*-'=6-,'1'D.'-*52'86.'6+1-6D/*',1' ,)*')-.,62.'620',' 866',)-1;5)',)*'8*692*..'620' .;=*-.,,12'1',)*'=-2>*'-6,)*-',)62')'.'8>9*02*..' ,)6,')'.'26?*'.'218'2.>-D*0'12',)1',6D/*,.'1'2 6^ ?'6.',)*'?1.,%.6+65*'6?125'=*-.*>;,1-.% 46/*-.;' -*=-*.*2,*0',1')?',)6,',)*'=*-?62*2>*'1',)*'162' 2.,,;,12.'86.'2>1?=6,D/*'8,)',)*'=-*+6/*2>*'1')-.,62,'8)>)'.)1;/0',)*-*1-*'D*'*L,-=6,*0' 1>/*.62'=-1=1.*0',)*'.;DA*>,',1'6'.1-,'S'>1;2>/' >1?=1.*0'1'.1?*'*2 2*2,7?/,6-'620'A;0>6/%1 ^ >*-.' ()*'6..*2,*0',1',)*'1=2 12'1'46/*-;.T D;' ,)*'*?=*-1-'.,/*)*.,6,*0';2,/,)*'?*6.;-*'86.'.62>^ ,12*0'620'.62>, *0'D',)*'1-6>/*'1'.)*'<*/*.62' =1//1% ()*'*?=*-1-'56+*'6',6-0''>12.*2,',1',)*' >1?7?*2>*?*2,'1'6'=/62' 2,1'8)>)')*'6==*6-.',1')6+*'*2.*-*0'8,)',)*'?1..'>12.0*-6,*'>6/?2*..' ,)1;5)',' .'6/.1',-;*',)6,'0;-25'.'=-15-*..'.1?*'2^ >0*2,.'1>>;--*0'8)>)'*2/..*0')'.=6..12.'2',)*' >6;.*'620'*+*2'.1'2/6?*0',)*?',)6,'2',)*')*5),' 1')'.?602*..')*'>*-,6 2GE!'=-1=1.*0'21,)25'/*.,'),62' ,)*'*L,*-?26,12'1',)*')-.,62'26?*% ()*'2/;^ *2>*'1',)*' 6*.6-'46/*-.;'8)1'86.'62'6.'1-51,*2% 8)6,.1*+*-'?1,+*'D'62';2? ,56,*0'0*,*.,6,12'1' ,)*'81-.)==*-.'1')-.,'620'8)1',)-.,*0'1-',)*'-' 0*.,-;>,12'86.'=-1D6D/',)*'?1.,'=18*-;/1',)1.*' >-;?.,62>*.% '1?62'6,)1/>'0 1>*.*.',1' ,C,)-**% *' 25)6?', !'6 !'D119'L'>)6=' T /.12' % '? ' '" (' " "'>)6='L +T :119' " '" ' '.%+%T *--6-.' % '; 9 " 1'.% %T // 1,,' ' ' '5 'D119' '>)6='LT :119*-'6 ' 1 *'D119'+ 'g QT *5*/'# "' '&'2 " ' +'N Q%

1>/*.62'1-' 1>/*,62': $ ' 4' ;.' $ $ ' $3' 1?62'*?=*-1-'86.'D1-2' 6D1;,' % %K 'M1,)*-.'.6'K X'2*6-'6/126'2' 6/^ ?6,6% -1?',)*'26?*'1')..'?#,)*-' 1>/*6')*'86.' >6//*0' 10*.'8)>)')*'6,*-86-0.'?60*' 1>/*,62;.% :*'*2,*-*0',)*'6-? '620'-1.*' -1?',)*-629.',1')5)' 1. , 12% 1>/*.A62'>1?7?620*0',)*')1;.*)1/0'1-'?^ =*-6/D10 C5;6-0.'8)*2' 1;25' ;?*-62;.','),)*'.12 1'6-;.'86.'.*>-*,/'=;',1'0*6,)'D'=*-')'.'6C'1 ,)*-C 2C/68'8)/*',-6+*// 25' 2'6'>/1.*'/,,*-'12'6>^ >1;2,'1'//2*..'12',)*'-*,;-2'1',)*'6-?'-1?'*-.6% ()*'0*6,)'1'; ?*-62;.'D*25'0.>1+*-*0'6,*-'.*+^ *-6/06 .'D',)*'.1/0*-.'2*6-' 6/>)*012',)*'6--*.,^ *0' =*-'620'=-1>/6?*0' 1>/*.62'*?=*-1-'8)1'60^ 0^*..25',)*'.1/0*-.' -1?')'.',-D;26/' 2',)*'>6?=' =-1,*.,*0')'.' 221>*2>*'1',)*'0*6,)'1' ;?*-62;.'620',)*2';=D-6 0 25' =*-' 1-',)*'>-?*'=/;25*0')' 81-0' 2,1')'.'D10 % ()*'2*8'*?=*-1-'1D.*-+*0',1'6' -*20',)6,')*')60'218'9 //*0',)*'D16-J'6//;0 25',1' 6'=-*0>,12'?60*',1')?'DE'6' -;0*..'2'46;/',)6,')*'.)1;/0'?1;2,',)*',)-12*'6.'.112'W.')*')60'9 //*0' ,)*'8 /0'D16-'M 6,% &%8 8! :*'D*>6?*'*?=*-1-' *=,% 'KQ'620'2'KQS'>D1.*'<6L ?2 62;.'6.'D.'>1/^ /*65;*'2',)*'*?=-*'M6.' ;5;.,;.XT 2'KRK')*'600*0' 46/*-.;.'6.' 6*.6-'8)/*'<6L ?2 62;.')1.*' 12^ .,62, 2.')/1-;.' ()*'*?=-*'86.'=6->*//*0'1;'6?125' ,)*?'620',)*',)*1-A'1',)*'. .,*?'86.',)6,',)*' 1;25^ *-'?*2'6.' 6*.6-.'.)1/ /0'D*',-6 2*0',1'-;/*'620'.)1;/0' .;>>**0'2',?*',1',)*' ;2>, 12.'1' ;5;.,;.% 2,*-^ 26/*=*6>*'86.'.*>;-*0' 1-' *6-.'D' ,)'.'6--625*?*2,%

, 25; .)*0 ' ( )*' .; D.,62>*' 1 ',)*' !8)1/* .*- *.' .',) .' .*' ; .*D ; . ' 2 ! 6 ! D9 '+ ()*' .6>-*0 D119.' 1 ',)*')- ., 62.' 8*-*' .1;5),' 1-' 620 D ; -2*0 0*6),' 86.',)*' =;2 .)?*2,' 1 '6// 8)1 6..*?D/*0 .*>-*,/ ' 1-' -*/ 5 1; .' 81-.) =! 7=- .12?*2,' ./6+*- ' 620 2 62> ' 8*-*' 2 />,*0 12',)*' 0 52 ,6- *.' 620 =-*. 0*2,.' 1 ',)*' >) ;->)*.! *+*- ' 6-,' 620 ?*,)10 86.' *2&1 2*0 1-',)*' >12+*-. 12 1 ',)*' D*/ *+*-. ' 620 6?12 5 ,)1.*' ?*,)10.' 8*-*' +6- 1; .' 0*.>- =, 12.' 1 ',1-,;-*' .1?*' 1 ',)*?' 6^ ,6/ ; - 25 ,)*' =-*>*0 25 2 2*, ' *6-.',) *') ;-*,')60 6+6 /*0 ,..*/ ' 1 ',)*' >12.*2,' 1-' >122 +62>*' 1 ',)*' > + / 51+*-2?*2,',1' *-*>,';2;?*-1;.'-*/ 5 1;.' *0 >*.' 620 ,1' =;->)6.*!.1?*' /620*0 =-1=*-, ()*.*' D; /0^ 25.' 8*-*' 218 0*?1/ .)*0 620 ,)*' =-1=*-, ' ;20*-8*2,' ,)*' ; .;6/ =-1>*..' 1 '>12 .>6, 12 ' ?1-*' 0*5-60 25' D ;,' /*..' * *>,;6/ ?*6.;-*' 6,,*20*0 ,)*.*!)- ., 62.' 8*-*' *L>/;0*0 -1?'6// =;D/ >')121-.' 620 1 >*.' 620 *+*2 -*?1+*0 8 ,)1;,',)*' =6/*' 1 ',)*' /68.' 620 ,)*' =-1,*>, 12 1 'A;., >*! / 6D/*' ,1' 6// 6>>;.6, 12.' 620 2^ + , 25',)*?' D ',)*' -'60+*-. , ',)* '8*-*' 0*=- +*0 1 ' *+*- ' 1-?' 1 '/*56/ -*0-*..' ;>)' 8*-*' ,)*' =*26/, *.' >12,6 2*0 2',)1.*' *0 >,.! 620 ,)1;5)' ,')*',-;*',)G, 2 .1?*' 1 ',)*' 8*.,*-2' =-1+ 2>*.' 1 ',)*' *?= -*' 6.' 2 46;/' 620 =*-)6=.' - ,6 2 ',)* -' 6.=*-. , ' 86.' .1?*C 8D6>' .1 ,*2*0 D ' ,)*' >)6-6>,*-' 620 2 /;*2>*' 1 ',)*' 6N.6-' 12.,62, ; . ' 8*' 6-*' 21,' 6//18*0',1' D*/ *+*' ,)6, ,)*' -' *L*>; , 12 ' *+*2 ,)*-*' 86.' 5*2*-6// ' 2*5/*>,*0 620 8*')6+*' ,11' ?;>)' -*6.12',1' D*' 6..;-*0',)6, ' 86. >120;>,*0 8 ,)' +*- ' .;D.*-+ *2,' [*6/ ,)-1;5)1;',)*' -*.' 1 ',)*' =-*! 2' =-1>*..' 1 ', ?*',)*.;* -25.' 1 ',)*')- ., 62.' 8*-*' =6-, 6//'*+ 6,*0 D ',)*' + >^ ,1- *.' 1 ' 12.,62, 2*' D ;',)* '0 0 21,' 26// ',*? C 26,*', //) .' 6>>*.. 12J M&600 25,12' " "' # 1 >D +X 2',)*' 6;,;?2' 1 'N 1>/*. 62 86.',)*' ,69*2 8 ,)' 62 //2*..' 8) >)' 6 *>,*0) ?' 1-' ?62 ' ?12,).' 620 2' N ')*' 6D0 >6,*0 2 6+1-' 1 '46/*- ;.' 620 -*^ , -*0',1' 6/126' 2' 6/?6, 6' 8)*-*')*' / +*0 _;*,/' 620 5-*6,/ '-*.=*>,*0 ;2, /' B;/ 'N N' &)*2')*' 0 *0 *** 6 ! "%! +% ; .*D ;.' ! D9 + ! 4 DD12' ' ! '@ ' '" '5 '6 % ' >)' L <1.)*?'# ! ' .% ** + $!

106, 'B*62' > ! & 3'62' *?2*2,'0 ^ + 2*' 1 ',)*' * 1-?*0);->)'86.' D1?' 2' 4*2*+6 2' 4'1 '6'21D/*' ,6/62' ?/' -1?' ;>>6 : .'=-15^ -*..' 2' /*6-2 25'86.' .1' -6= 0',)6,' *[6'=-1>;-*0') ?' ,)*' =-1 *..1-.) =' 1 ' : *D *8' 2',)*' $2 +*-. , '1 '4*^ 2*+6' 8)*2')*' 86.' D ;',,8*2, C12*' 2' S Q)*' D*^ >6?*' =6.,1-' 1-' =6- .)' ? 2 .,*-' 620 2',)*' 1//18 25' *6-' =-1 *..1-' 1 ',)*1/15A ' &) /*',-6+*// 25' 2',6/ ')*' D*>6?*' 6>_;6 2,*0 8 ,)' 6,)*-' 6-=' 620) .' - *20' 6,)*-' ;/5*2[1 '620',)*-*' 6==*6-.',1')6+*' D*^2' .1?*' ,6/9' 620 >1--*.=120*2>*' D*,8**2',)*?' 6D1;,'6,,*?=,^ 25' 6' -*/ 5 1;.'-* 1-?' 2' ,6) 7D;' 6-= .'>6;, 12' 620 ?6,;-*'A;05?*2,'>)*>9*0',)*' +*-1-1',)*'1,)*-',81 106, '6 ,*-86-0.',-62./6,*0' 2,1' -*2>)' 620' =;D/ .)^ *0' 6,' 4*2*+6' 6-= .' # ' '" ' ' '- !' : *' 86.' .*2,' D ',)*' >/*-5 '1' 4*2*+6' 12' .*+*-6/' ? .^ . 12.' -.,',1',)*' * 1-?*0 >;->)*.' 2' -62>*' 620' 6 ^ ,*-86-0.',1' ,)1.*' 1 ' : 1//620 8)*-*')*' 6,,*20*0',)*' 210' 1 ' 1-',M S QC RX'620',)*' 86.' 12*' 1 ',)*' 0 + 2*.' 6==1 2,*0',1' 0-68' ;=',)*' 6>,.' 1 ',)6,' 6..*?D/ ' :*' =;D/ .)*0' 62' ,6/ 62',-62./6, 12' 1 ',)*' D/*' 2' S ' 8)>)',)1;5)'=6-6=)-6., >' .' . //*>12. 0*-*0' 12*' 1 ',)*' D*..' 2' ,)6,'/625;65*' 620' 6 ,*-86-0.' 6' -*2>)',-62./6, 12' 8 ,)'D- * '21,*.' 8)>)' 86.' 21,' >1?=/*,*0' ,// S '620' .' 21,' +*- ' 8*// 012*' :*' 8-1,*' 6/.1' & ' ' ; " '\4*2*+6' S ' 1/X' 8)>)' 8*-*' ,-62./6,*0' 2,1' 25/.)' 620' =;D/ .)*0' 2' 12012' 2' S Q WN0' *0' S X' 620' +6- 1; .',)*1/15 >6/ 620' >12,-1^ +*-. 6/ 81-9. ' 6?125',)*?' ' 6 ' + ' M S RXT ' '* 1 '$ '5 ' '" 6 ' 5 ' M SKQXT ' ' 6 ' M SK XT ' ' & " ' M SK X *2*D *-' # ' ' ?A - '5 +*.' 6' >6,6/15;*' 1 ' 106, .' 81-9. : *' 0 *0' 6,' 4*2*+6' 2' S R **' : 1* *-' 7 ! ' ! ?+ 2' L + ' KN ' 620' -*7/*-*=>*.',)*-*

106, ' 1? 2 >1 ' 62' ,6/ 62' .>)1/6-' 620' 6-Z >).*1/15 .,' 86.' D1-2' 6,' 6=/*.' NS' 620' 0*+1,*0') ?^ .*/ ' *.=*> 6// ' ,1' *>>/*. 6., >6/ .,;0 *. : *' .' ?*2^ , 12*0')*-*' 12' 6>>1;2,'1 ') .' X*' " '? ' 4 ' 4 ' ? ' # ' 'D ' 1' % ' " ' ' 9 ' % ' ' ' M *6=1/ ' S T *0,*0' 8 ,)' 6' =-* 6>*' D ' 1DD 2' 120 Q N' .?Q+1X ()*' 81-9' .**9.',1' =-1+*',)6,')- .,' 620' ,)*' 6=1../*.' .=19*' 12/' 2' 4-**9' 620' ?60*' ;.*' 12/' 1 ',)*' 4-**9'+*-. 12' 1 ',)*' >- =,;-*. *' & !'; 9 '5 % ' ' N 101-;. ' D .)1=' 1 ' (6-.;.' .' ;==1.*0',1')6+*' D**2' D1-2' 6,' 2, 1>)' ,*-' D* 25' 1-06 2*0' =- *.',)*-*' 620' 2,-;.,*0' 8 ,)',)*' >6-*' 1 ',.');->)' 0;- 25' ,)*' D62.)?*2,' 1 '<*/*.;.' ,.')*60',)1;5)' 12/' 2' =- *.,.' 1-0*-.')*' 6>,*0' .1=-;0*2,/ '620' >1;-65*1;./ ' 6.',1' ?6 2,6 2' 1-,)101L ' 2',)*' .**' ,*-',)*'-*,;-2' 1 '<*/*, ;.')*' 86.' 1-06 2*0' D .)1=' 1 '(6-.;.' % N Q 1'5-*6,'86.') .' 6?*',)6,')*' &6.'>)1.*2',1',69*'>6-*' 1 '7 ,)*' 2,*-*.,.' 1 ',)*' 6.,*-2' >);->)*.'6,',)*' 1;2>/1' 12.,62, 21=/*' % NQ ()*' 06,*' 1 ') .' 076,)' .'21,' 6>>;-6,*/ '92182'D;,' ,'?;.,')6+*' D**2' D* 1-*' % NR 12*' 1 ') .' 81-9.')6+*' >1?*' 0182' ,1' ;.*L>*=,' 2' -65?*2,.'1 '*9,-6>,.'=-*.*-+*0' D ')1, ;.'620' 1,)^ *-.' : *' 86.') 5)/ '*.,**?*0' D ' ,*)' 5-*6/)*' 5-1?') .' 182' 620' 6 ,*-', ?*. '620') .' 8-, 25.'?;>)'>1?7?*20*0' ()*101-*' 1 '<1=.;*., 6'8)1' 86.' 62' 60+1>6,*' 1 ' *.C ,1- 62 .?' 86.') .' =;=/'620',)*' .>)1/6-' 86.' .;==1.*0' ,1') 6+*' ?D D*0') .')*-*. '-1?') .'?6.,*-')- .1.^ ,1?' 86.' 6/.1' 12*' 1 ') .' =;=/.' +*2',)*' 6?*' 620' 1-,)101L ' 1 ' ,')- .1.,1?' >1;/0' 21,' 6+6/) .' 1-^ -*5-*,,*0 '6.')*' 86.',)*' -.',)6,'D*562',1',)-18' 6. 0*' 6//*51- ' 2',)*' 2,*-=-*,6, 12' 1 ' >- =,;-*' -1?',)*' >6,6,15;*' 1 ') .' 81-9.' ?*2, 1)*0' D ' ; 06.' M 2' +1>' ' !(8' ?1.,'1 ',)*?' 6==*6-',1')6+*' D**2' *L=/626^ , 12.' 1 ' >- =,;-*' 1-' >12,-1+*-. 6/,-6>,.')1, ;.')6.' =-*.*-+*0' > ! KKN' =' SSK ? ;>)' 1 ') .' 6-5;?*2,' ,69*2' 1;,' 1 '6',-*6, .*' 12' @ .' 620' D*0A*.;' M ..*C 262 ; ! , ! ,1?' =' NRX' 2') .' >6,6/15;*' 1 ' -6> *>>/*. 6., >6/ 8-,*-. ' ?*2, 12.' S ' D119.' 1 ' 101,;, ,)6,',)*' -62.' D;-2*0' 620' 5 +*.',)*',/*.' 1 '* 5),' 1 ',)*?' : .',*., ?12 '1 ')1, ;.' 620') .' 6-5;?*2,..' 6 .' ,6. ?1 6% ! ? 8' 8*-*' >/1.*' 620' 8*// 6--625*0' *L^ =-*..*0' 2' /625;65*' 1 ',)*' 5-*6,*.,' . ?=/>, 'M 1>-6^ ,*.' # ! 6 ! >)6=' + ' ()>101-*,' # ! 6 ! + ' K X ,*' ,)*' / .,' 1 ') .' 8-, 25.' 2' 7D-> ;.' ; " ' ? ' M*0 : 6-/*.X' L' K CKQK' 6/.1' *1' //6, ;. ' ' -" $' 1 L + ' 6=;0' 25 <6 ' ; "! 7 ! ! + N ' 6/.1' 5 +*2' 2' < 52*' ' ? ' LLL ' C SK ' 8)*-*' -65?*2,.' 1 ',)*' >1?^ ?*2,6- *.' 1 ' 101-;.' 12',)*' *2,6,*;>)' 620' .6/?.' 6-* 5 +*2' 2' 4-**9' 620' 6, 2 *? .>)' M 2' : -[15 .' 5 J6 + % ' X 5 +*.' 62' 6>>1;2,' 1 ',)*' 01>^ ,- 26/ =1. , 12' 1 ' 101-;.' <)>)' 8*' >120*2.*' 6.' 1/^ /18 101-;.' 0 *0' 21,' 12/' 2',)*' 101-' 1 '.62>, , ' D;.' 8 ,)' 6')5)' -*=;,6, 12' 1-' 1-,)101L ' ()*' *.C ,1- 62' >12,-1+*-. 7 ,*-').' 0*6,)' -1DD*0') ?' 1 ',).' -*=;,6, 12 1?*' 1 ').' 8-, 25.' 656 2.,' =1/ ; 26-C, .?' 2+1/+*',)*' =- 2> =/*.' 1 ',)*' /6,*-' >.,1- 62 .?' 3 *' 5 ,)*' --% ' ' 620',)*' -*6, .* = % ' - ' % - , ' M) 1, ; ! ! KX' 1 ',)*' 1-?*-' 1 ' -) >)',)*-*' 6-*' -65?*2,.' 2' <6- ;.' < *->6,1-' M*O ; / ' =N R' ..X' 620' *12, ;.' [62C , 2 ;.' M 62 .;.' ! ' & 44 ' *0 6.265*' ' R' .X' : *-*' 101-;.' ,69>.',)*' 12' 1 ' 410',81 1/0' + [,)*' 3 151.' 1 ' 410' 620',)*' 12' 1 ' 6+ 0 ' 1 ' 8)1?',)*' /6,^ ,*-' 21,',)*' 1-?*-' 86.' >12>* +*0' D ' <6- ',)-1;5)' ,)*' : 1/ ' = - ,' ()*',,A ..*- '1',)*' 2>6-,26, 12' >12^ . ..,' 2',)*' 6..;?=, 12' 1 '6' =*- *>,') ;?62 ,' D ',)*' 151.' ()*' -*/6, 12' 1 ',)*' ,81' 26,;-*.' .',)*' 2^ 08*// 25' 1',)*' 151.' 2',)*' ?62' B*..;.' 6.') .',*?=/*' 1-' 1;,86-0' 2+*.,.;-*' ()-1;5)',) .' -*/6, 12') *' 12' 1 ' 6+ 0' .' >6//*0',)*' 12' 1 ' 410',)1;5)' 21,' 2' ,)*' =-1=*-' 620' *L>/;.+*' .*2.*' ()' .' + *8 ' ?69 25

,)*’ ;2 12’ 1 ’,)*’ ,81’ 26,;-*.’ 62’ *L,*-26/’ 620’ ?1-6/’ D;,’,)* ’01’21,’>6..’686 ’,)* -’1 .=- 25% ()* ’)6+*’
-6,)*-’,)62’ .;D.,62, 6/ ;2 12’26,;-6// ’/*0’6 ,*-’ *.C’ ,)*’ *L ., 25’ /68 . ’ 620’ *L>*/ ,)*’ /68 .’ D ’,)* -’/ +*.%
,1- 62 . ?’ 6-1.*’,1’,)*’ >12>/;. 12’ ,)6,’ 101-;.’ 620’ /*.)’D;,’,)* ’01’21,’/ +*’ 6 ,*-’,)*’ /*.)% ()* ’/ +*’ ()* ’ 1D* ’
,)*’.>)11/ 1 ’ 2, 1>)’)60’D**2’ ,.’ =-*>;-.1-.’,1’ .6 7’ ;=12’ *6-,)’D;,’6-*’ >, [*2.’1 ’)*6+*2% ()* ’ 1D* ’ ()* ’ 1D* ’
,)*’ /*6..% *>’,)*’6-, >/*’1 ’ *? .>)’ 2’ : *-[15’5 =’ ()* ’/1+*’ 6// ’ 620’ 6-*’ =*-.*>;,*0’D ’ 6//% ()* ’ 6-*’ ()* ’ 6-*’
6 2 %f %>%T 620’>1?=6-*’ 6-02*-’ + 1’ +’N S’ ;2921820’ ’,)* ’ 6-*’ >120*?2*0% ()* ’ 6-*’
._%T * // *-’ #2 ’? 1’ ’ =’ 9 //*0’ 620’ ?60*’ 6/ +*% ()* ’ 6-*’ =;-*’ 620’ ?69*’
% ’ ’ QS . .%M*O% 1 ’ 6- .’ QSN CS XT 4 *.*/*-’ +!’ 2/62 ’ - >)% ()* ’ /6>9%6//’,) 25.’ 620’ 2’ 6//,) 25.’
# ’+1/%’ ’g X\:’ 1-2*-’ ’ ’ " ’M 0 2D’ 6D1;20% ()* ’ 6-*’ -*=-16>)*.% ()* ’ 6-*’ >6/; ?2 6,*0’ 620’ 6-*’ A;., *O%
,-62./%X’=*-% ’*=1>)’ ’>)6=% % =-16>)*.% ()* ’ 6-*’ >6/; ?2 6,*0’ 620’ 6-*’ A;., *O%
152*,;.’ ,) *’ = ., >’ ,1’ 62’ 6212 ?1;.’ ()* ’6-*’>;-.*0’620’,)* ’D/*..% ()* ’-*>* +*’.>1-2’
4-**9’/*,,*-’,1’62’ 2_; - 25’)*6,)*2’1’.1?*’0 ., 2>^ 620’,)* ’5 +*’)121-% ()* ’01’5110’620’6D*=;2C’
, 12’D ’,)*’26?*’1’ 152*,;.’ 2’+20>6, 12’1’)-.^ 7*0’6.’*+ /C01*-.% &)*2’=;2 .)*0’,)* ’-*A1>*’6.’
, 62’, 620’12*’1’,)*’?1.,’=-*> 1;.’-*?6 2.’1’)-.^ D* 25’?60*’6/ +*% ’,)*’B*8.’,)* ’6-*’6,,6>9*0’6.’
, 62’62, _; , ’*_;6/’D1,)’ 2’?6,,*-’620’.,/*’,1’,)*’ 6/ *2.’620’D ’,)*’ 4-**9.’=*-.*>;,*0T 620’,)*>6;.*’
D*.,’620’.;=*-1-’,1’?1.,’1’,)*’8-, 25.’1’,)*’6=1.^ 1’,)*’*2? ,A7,)*’-’*2*?*.’>6221,’,*//% 2’.)1-,’
,1/>’ 6,)*-.’620’*6-/ ’6=1/15 .,.% 8)6,),*’.1;/.’ 2’,)*’D10A’,)*’)-., 62.’6-*’2’,)*’
% ’ ’;’>12. .,.’ 1’,8*/+*’M1-’-6,)*-’,*2X’ 81-/0% ()*)*’ *2?>)6=,*-.% ’1=*2.’8 ,)’62’600-*..’,1’ 152*,;.’
8)1’.’0*.>-D*0’6’*L>**0 25/’0*. -1;.’,1’/*6-2’,)* ’ ’ ’

' 2>1?=-*)*2. D/ ' .',)*'*,*-26/ 5*2*-6, 12'1 ')- .,' -1?',)*' 6,)*-%' 6../ ',)6,',) .' 86.') .' >12.,62,' 1= 2 12' 8) >)') *' 6/86 .')*/0' *+*- 8)*-*' =-*6>)*0' 620'=-1 *..*0') *' 6 -?.' 2',)*.*' 81-0.á ' ') 6+*' 8- ,^ ,*2 ' 01' 8- ,*' >12 *..'D*/ '*+*' 620'=-*6>)',) 6,')- .,' .' >1C*,*-26/ 8 ,)',)*' 6,)*-',)*' 12/ CD*51,,*2' 12' 620C& 1-0' 1 ',)*' 6,)*-%' *,' 620 ;.' D-6[*2') .' 1-*)*60 ' 620' D16.,' ., // ,) 6,',)*' 5-*6,' 12 . ;.' /C *L620- 2 ;.' 86.' 1 ' - ; . .' ? 20%!' ,' 86.' 6,',)*' >/1.*' 1 ' 12 . ;,.' / *' ,) 6,',)*'.*>120' >1;2> / 86.' >12^ +19*0' 6,' 2, 1>)',1' >120*?2' ,)*')-*. ' 1 ' 6;/ 1 ' 6?1.6,6 ' 620',1',)*' 6,)*-.' 1 ',)*' >1;2> / 12 . ;.' .*2,' 62' *= .,/*' 2' 8) >)') *' 6..*-.. ' 6>>1-0 25',1' D .)^ 1=' ;// ',)*',-;*' 0 + 2 , '1',)*' 12' 1 ' 410% **' ;C ' .*D ;.' 6 f + ' KR' N ' ' ST' + ' K ' KS' KQ' 620' 6-02*-' 1' C NK' 8)*-*' ?1.,'1',)*' -*?6 2 25' -65?*2,.' 6-*' 21, >*0' 620' ?62 '1',)*?' ,-62./6,*0% : .' -*?6 2.' 6-*I' = ;D/ .)*0' .*=6-6,*/ á ,% ' ' f' & ' 4 ' % 1' 4 -% 620' 6,' M 1-6 * ' RS' 1DX% ()* '6-*' 5 +*2' 6/.1' 2' 46//6? ' ; " ! f' ' Q T' 2' 1 ;,) ' 5 4 ' $ 1' +1/.% ' 620' T 620' 2' < 52>' ' ? 1' L ' KN ' .=*> 6/ 81-9' 12',)*' / *' 620' 8 - , 25.' 1 ' 12 . ;.') 6.' D**2' 8-,,*2' D ' ,,- >)' M 1?62' 6,)1/ >X ' ' ? ' '& ' M -* D ;-5 ' QS X% **' /6-9*' $ f' '$ ' ' ' ST' : *-[15' 5 26 + % 1' ' T 6' ;// 6>>1;2,' 2' * // *-' # ' ? "(' ' ' 4 1' ' NRS' ._%T' : * */*.' 2' 2 + " 1' 'KKK' ._%T 620' < ;-01>9 .' *L>*//*2,' 21,N ,1' <1.)* ?' " "' # 1' D9% ' >*2, ' '=,% ' >)% ' g % ' ,-62./6, 12' 1 ',)*' -*?6 2.I' 1 ' 12 . ;.' , =-1? .*0' 2' ,)*' & =7 ' " 1' 218' = ;D/ .) 25' M QSQX' 6,' 0 2D;-5)%

12 . ;. 'D .)1=' 1 ' 1- 2,)' % % ' 1 '8)1?' / ,,/*' 218' .' 92182' 6==*6-.',1')6+*' D**2' 2' >12. 0*-C % 6D/*' -*=;,*' 2',)*' 06 .' 1 ' ;.*D ;.' 1-' * 5),' % ' 8) >)')*')60' 8 - ,,*2á ',1',)*' :' K',1' ,)*' & " :' N',1',)*' D*/ '*+*-.' 1 ' 7 1',)*' >6= ,6/ 1 ' ,) 2 6T ',1',)*');->)' 6,' ? '620' ,)*' 1,)*-'>);->)*.' 1 ' -*,*T ',1',)*');->)' 2'& ? ',15*,)*-' 8 ,)',)1.*',)-1;5)1;,' 12,;.T S',1',)*' ? .' ',1',)*' 5 .' 620'Q',1' " %" 1'62' *? 2*2,')- ., 62' ?6,-12% ()*.*' 6-*' 6// /1.,'*L>*=,' 6' *8' -65?*2,.' =-*.*-+*0'D ' ;.*D ;.' !'6 ' +' KN' 6-0' 'K % **' *L,-6>,.' -1?',)*.*' -65?*2,.' 2' 6-02*-.' + ' M*O% == .X' ' ' _% ()*' @ 1' '6-*' 5 +*2' 2' 46//620 ' ; " !' ' 'S '620' 2' 1; '5 4 '$ ' M L12' Q X' ' SN ._% ** 6D- > ;.' ; " ' ? 1' + ' QT' L ' M*O% : 6-/*.X T * // *-' # ' ? !' !' ' ' M 6- .' QS X' ' S %

12 . ;. 'D .)1=' 1 ' 1?*' 86.' 6,' -.,'6' =-*.D ^ ,*-' 1 ',)*');->)' 1 ' 1?>i' 620' 6 ,*-86-0.' 12' ,)*' ?6-,A(01?' 1 ' L,;.' ' M ;.*D ;.' # '6 f+ ' K X' 86.' >)1.*2' D .)1=' 1 ',)6,',** % % KR' 8)>)')*')*/0' 6D1;',*2' =6-.% : *' 0 *0' % % KSR% 12 . ;.' /*L620- 2 ;.' M % +%X' 86.' 6>>;.*0' D* 1-*' 12 . ;.' 1' 1?*' 1 '*--1-' 6.',1',)*' =*-.12' 1 ')- .',2') ./*,,*-,1' ? ?12 ;.' 620' ;=)-621-' 620' 6' . 210' 86.' >6//*0' D ',)*' D .)1=' 1 ' 1?*',1->12. 0*-',)*' ?6,,*-' 620' 62' *L=/626, 12' 86.' ?60*' D ',)*' D .)1=' 1 ' /*L6)0- 6% ()*' 12/ ' -65?*2,' 8*')6+*' 1 ',)*' 8 - , 25.' 1 ' 12 ^ . ;.' 1?62;.' -*/6,*,',1',) .' ?6,,*-' ,' .' 6' /*,,*-',1' ,)*' - >62' D .)1=.' 1 ' 8)>)' ,)626. ;.' =-*.*-+*.' 6' /6-5*' =6-,' 2') .' ' ' ' f' $ f' 7 f' >% KS' >1?=6-*' 6/.1') .' ' '$ ' ' #1' >% N% ,' .' 5 +*2' 6/.1' 2' < 51*' ! # ',1?% +% **' :* */*' =' " " 1' 'KKK' 1?*-' ' ' ' ' ' " ' 0 2D% ,-62./% ' QK ._%

12 . ;.' L 5 ;.' ,' M ,)*' / ,,/*JX' 6' > ,) 62' D ' D -,)' M. L,)' >*2,;-A X' .,;0 *0' 6,' 1?*' 8)*-*')*' D*>6?*' 6' ?129' 620' 56 2*0') 5)'-*=;,*' D ') .' 9218/^ *05*' 1 ' >- =,;-*' 620' 1 ',)*' 4-**9' /625;65*% 6.C . 101-;.' 8)1' 86.' 2, ?6,*' 8 ,)') ? ' 8-1,*') .' =62*^ 5 - >' 2') .' 2 f' ' f' >)% LL % :* 86.' 6' +*)*?*2,' 620' ;2.>-;=;/1;.' ';=)1/0*-' 1 ',)*

.**' 1 ' 1?*T)*' .' .;.=*>,*0',1')6+*' D**2' 5;/, '*+*2' 1 ' 1-5*-' 2' ,.' .;==1-,T)*' -.,';=;D/ .)*0' 620'+*-' =-1D6D/ ' ',)*' 6212.' 1 ',)*' 1;2> / 1 ' 6-0 >6' 620' >1//*>,*0',)*' =6=6/ 0*>-*,6/.' -1?' -> ;.' ,1' 2C 6.,6. ;.' J M4*00*.' - ' ' R' > ,*0' 2' /6-9*7 $ ' '$ ' ' ' N % ()*.*' 8*-*' =;D/ .)*0' 8 ,)') .' ' ' ?60*' 6,',)*' -*_;*.' 1 ' ,*=)*2' D .)1=' 1 ' 6/12*' 8)>)' >12,6 2.' ,)*' ' -.,' &% ' 'M_ '+%X',)1' 6212.' 1 ' >*' 12.,62, 21^ =/*')6/>*012' 6-0 >6' 620' NQ 1 ' ->6' M*O% B;.,*/C' ;.' 6- .' SKQ' Q+1T 6/.1' 5 +*2' 2' ; "!' D !' 9 f' R X% :*' 6/.1' 8(1,*' 6' 2;?D*-' 1 ',-62./6, 12.' 3 -1?' 4-**9' 8-,*-.% ;') .' 6?*' -*-.,.' M620'A;.,/ X' ;=12') .' " ' 2' 8) >)')*' 2,-10;>*0',)*' 26?*' 1 ')- .,' 6.',)*' .,6-, 25C=1 2,' 1 ' >1?=;.6, 12' 620' 56+*' D -.,)',1' 1;-' ')- ., 62' *-6 !' 9218 2' 6/.1' 6.' ,)*' 12 . 62' .*-6%!' ,' 86.' 6' 5-*6,',)1;5),' 1 ' ,)*' `/ ,,/*' ?129' M8)*.,)*-' .1' >6//*0' -1?') .') ;?/^ ,' 1-' -1?CD .' .?6//.,6,;-*' .' ;2921 82X',1' + *8')- .,' 6.',)*',;-2 25 =1 2,' 1 ',)*' 65*.' 620',1% 2,-1^ 0;>*',) .'+ *8' 2,1' *A2121 15X!' M >)6 '# ' ' + f' " "' ' g S X% 12 .;.' / +*0',1' 6D1;' % % % : .' 8 - , 25.' 6-*' 5 +*2' 2' < 52*' f' !' +1/% L+ % **' ;0 2 *' $ % !'6 !& 4!' I '._%T >)-1>9)' L+ ' T 6+*' # !' ! M4*2*+6' K X' 'NNNT * // *-' # !' ? ' ' 9 ' M 6-.' QSKX' L ' KNT 620' 6-,.% 'T ') 'g ' #!

12 . ;.',)*' 6-,) ;. 62' M>6//*0' 6/.1' 12+7% f 1 ' >9*/' -1?') .' D -,)=/6>*' 1-' 12A7.% 1 ' **8 .' 1-' *;8 .' -1?') .' 6?//AC26?*X' 86.' D1-2' 6,' >9*/' 2*6-' *5*' */5 ;?' 2' NT .,;0 *0' 6,' 1/152*' 620' 8-1,*' 2') .' K ,)' *6-' 6',-*6, .*' ' ' f' ' K' MD* 1-*' 8) >)' 65*',)*' 6-,);.62' -;/*' 81;/0' 21,' 60?,') ?X')*' *2,*-*0',)*' ?126.,*-' 1 ' 1*-?220' 2' 4;*/0*-.' 8)*-*')*-*?6 2*0' Q *6-.',//) .' 0*6,)' 2' ' :' /*' 86.' .=*2,' 2'0 / 5*2,'.,;0 '620' 2' .*/ C 21-, >6, 12' 1 ',)*' .,-> ,*.,' 9 20% : .' 6?*' 6.' 6' .>)1/6-'56+*') ?'5-*6,' 2 ;*2>*' D1,)' 8 ,) 2' 620' 8 ,)^ 1;',)*' ?126.,*-E7' 620' 1D,6 2*0') ?',)*',/*' 1 ' ' 9 '6 f' :*' 8-1,*' -6= 0/ '620' +1/;? 21;./ T 1+*-' '81-9.' 6-*' 6.>- D*0',1') ?' 6?125' 8) >)' 6-*' >1?7*2,6-*.' 12' 12 .;.' -*1=% ()1?6.' _;26.' *.*-' 1?D6-0' *,>% D ;',)*' ?1.,' ?=1-,62,' =*-)6=.' 6 ,' 1-' ' $ f!' $ % ! ' 6' >1?^ ?*2,6-' 12',)*' 8)1/*' D/*' K ' +1/. T 620' 6/.1' +1/.% 1/% 1/152*' .6 0',1' D*' >6-* ;// ' >1?=/*0' -1?' ,)*' 6,)*-.' 620' *>>/*. 6.,>6/ 8 -,*-.% **' 6D- > ;.' ; " ' f' +1/% +T 6+*' # !' f' M4*2*+% K X' 6==*20 L % QT' & *,[*-' !($< E ') " = + ' ' 4ST >)-1>9)') + " " 'LLL +I ' '._%

12 .;.' I& ' K' <6>>% + ' T' L + ' NN' 6>>);.T!' 2' >/6.. >6/ 8 -,*-.' .1?*, ?*.' & 8 ED ' 3 1 ';2>*-,6 2' 0*- +6, 12X' 6/.1' >6//*0' 8 ' $ ' M 6\> 1 ' ! , 1>' " ' ' :' 6 ,*-',)*' , ?*' 1 ' : *-101,;.X' 86.' =-1=*-/ ',)*' 510' 1 ' 8 2*% :*' .' -*=-*.*2,*0' 6.' D* 25',)*' .12' 1 'B ;=,*-' 620' >?*/*% 2' : 1?*-')*' 6==*6-.' . ?=/ ' 6.',)*' -*2[*0!' 510' > !' + ' NKX' 620' *,' 6'A1 ',1' ?1-,6/.J MVV% L + ' NK XT D ;' 2' /6,*-. ?*.',)*' ?1.,'+6- *0' 6,- D ;,*.' 8*-*' >*2,-*0' 2') ?' 6.',)*' .1 ;->*' 1 ',)*' /;L ;- 62,' *-, / , ' 1 '26,;-*' 620' ,)*' 510' 1 '> + / [6, 12' 5/602*.. ' 620' 2.= -6, 12% ()*' 6.,*-2' 8620*- 25.' 1 ' 12A7.;.'6-*' 87!/92182' M ,-6^ D1' d ' '=% SQ X') ;',)* ' 01' 21,' .**?',1')6+*' /* ,' 62 ' .=*> 6/ ,-6>*' 2' 6/*.,2*' M I*;>1?=% ;>62' ' $ ' ' =% QQS' *0% *2*0% X% : .' 81-.) = ')18^ *+*-' 86.' 5-*1,/ ' 210 *0' D ' ,)*' 2>1-=1-6, 12' S I' 6.,*-2' */*?*2,.' 620' 6..;?*0',)*',81 1/0' 1-?' 1 ' 8 /0' 1-5 *.' 620' ? .,>' - ,*.% **' #% f (1' ,)*' B*8.' 12 .;.' 81;/0' 2*>*..6-/A7' 6==*6' 6.',)*' *?D10 ?*2,' 1 '=6562 .?' 2' ,.' ?1.,' ?6,*- 6/.)6=*' .62>, 12 25',)*' ?1.,' ,;?;/,;1;.' =6.. 12.' 620' ,)*' 81-.,' *L>*..*.% ();.' (6>,;.' I1# f+' X'-*A*>,.',)*' ,-60, 12',)6,',)*' B*8.' 381-.) ==*0' 6>>);.' > % :' >1?=6-*' /;,6->)' ' f' +' SX' 12',)*'

I 4 4 ' ' 81' ,)1;5)')*' 2,>-C' =-*,. ,)*'0 *-*2>*',1',)*'D'0 .>-*0 ,%' ()*' >12.>1;.^ 2*. .' 1 ',)*' ;206?*2,6/1==1. , 12'1 ',)*' 410'1 ' .-6*/ 620' 12 .;.' *L=/6 2.' ,)*' =;2 .)= *2,' 8) >)' ,1/*C' ?.*;.') /1=6,1-' 2 / >,*0'12',)*'B*8 .'MN' <6>>% 'KRX' 'D-620 25',)*?' 8 ,)',)*' + 7C/*6'1 ' 12 .;.J'M,) .' =/62,' D* 25'.6>-*0',1') ? ' /;.6->/7'" !' ', 'N T' + 0'@ *' S X',)1;5)' 12 .;.' ?6 ')6+*'D**2' ,)*'=6,-12'510'1',)*' ,1/*? *.'M4- ?7'12',)*' !(8! ',?;.,')6+*'D**2' -1?' ,)*' .6?*'>-> ;?.,62>*',)6, >621-' .' .6 0',1')6+*',)-*6,*2*0',1'*-*>,'6',*?=/*' NT 1' 12 .;.' ;=12',)*' .,*' 1',)*' (*?=/*' 6,'B*-;.6^ /*?'MK' <6>>% L +' NNX% ' ?,)' .% +% **' >1/6 ' ' ' ' 4 ' ; " ' M 2' 4-121+ ' -" ' + XT' <1-,[' " ' '" ' ? !' '5 !' 25% -=% NT' ? ,)' ' ' ' !' " !'.% +% 12 .;.' 1?=% 8 '$

1= ,7.' I - * 'D ' ,)6,' *// 0182' -1?'B;=,*-JX'62'*=,)*,'6==/*0',1',)*' 5-*6,'?65*' 1' 626'6,' =)*.;.'M >,.'L L'N X% ,' .'6==/*0' 2' ,)*' .6?*' 86 'D')*6,)*2' 8-,*-.'M*% 5% o 'B 1C : *-10 62% ' T' >1?=6-*' /;,6->)'7 1' NT' ;-=% %+!'QSCQQT'.**' & *,.,* 2' ; 21/ 2'/1>%X% **' !

1.>1-2,) ;.' M c1Z-Z>1A 71>' ;/5% ' 1' 8'1>>;-.' 2'K'<6>>% L 'K '6.',)*'26?*'1'6'4-*>1C */*;>0'?12,)% 26.?;>)'6.' ' 'M 17X'.',)*'26?*' 1'6'8*//C92182'<6>*012 62'?12,)'M,)*' -..,'1',)*' *6-X'8) >)'B1.*=);.'I& !' 'N'NX'.6 .'>1--*.=120.' 8,)',)*'B*8 .)' " 1',)*'26?*')6.'D**2'-*^ 56-0*0'M.**' & *?.01- ' ' ' !'=% NKX'6.'6'>1-^ -;=,12'M,)-1;5)',)*' 1-?' ,11 1;=1*X 1-',)6,'?12,)' M >6/5*-'6 !'- %!' 'R X'620'D'1,)*-.'6.'62' 2,*->6/6- '?12,)'MD;,'.**' 0*/*-' " !' 'NRRX' **' '!

1.>1-6.'I$) % 8(" %'1 : *-?1=1/.'*20' 1',)*' ,)'>*2,;- '12*'1',)*'1;-' ,-62'.1/,6- *.' M,)*',)-**' 1,)*-.'D* 25' ?7?12 ;.' ;.*D ;.'620' ;C' ,) ? ;.X'92182'6.' ',)*',6//'D-1,)*-.J'12'6>>1;2,'1' ,)*-'..6,;-*% **'O '8 ' !

1.>1-;.'D.)1='1' /*L620-6'M' X'8)1' .;>^ >**0*0' -/2',)6,'.**' % % % 2*-1-',1')'.' =-*0*>*..1-'2'/*6-2 25')*' *L>*//*0')?' 2'6?D,12' *2*-5 '620'D,,*-2*..% ;, >)*.'M_%+%X',6;5),',)6,' 2'B*.;.')-.,'86.'D;,' ' 1'>1?=1;20*0'1',)*' 0 + 2*' 620')?62'26,;-*.!.1',)6,'S;-' 1-0'86.'21,' =-1=*-/' * ,)*-'410'1-'?62'D;,'6'.1-,'1',)-0'D* 25' D*,8**2',)*',81% :*'86.'0*=1.*0'1-',)*-*. 'D' 6'/1>6/.210'1'D.)1=.'6,' 12.,62, 21=/*';20*-' /6^ + 62' % % Q% 1.>1-;.',119')'.'.0*'/)0' 20;>*0' ()*101.;.' ',1'>6// 6' >1;2>/6,' =)*.;.'M % % RX' 8)>)';20*-',)*'0-*>, 12'1' 1.>1-;.'6>,*0'8 ,)',)*' ?1.,'.6+65*' + 1/*2>*' 656 2.',)*'0*-.' 1'1-,)1^ 01L '620'-*..1-*0' ;, >)*.K()'>1;2>/)6.'.*^ >;-*0',)*' *2+ 6D/*' ,/*' 1',)*' '1DD*-' 1;2>/%J' ()*' 1;-,)'1*>;?*2>6/ 1;2>/1')6/>*012' M % % X' >120*?2*0' 1.>1-;.'620' ;, >)*.'620'*.,6D^ /.)*0',)*'01>,-2*',)6,'2'1;-' 1-0'B*.;.')-.,),)*-*' 6-*',81'=*-*>,'620'0.,2>,'26,;-*.',)*'410)*60'620' ?62)110';2,*0'2' 12*' =*-.12'8,)1;,'?L,;-*' >)625*'1-'>12 ;.12'M.**' ' 'T' ' 4 #3!' ',) .' 1;2>/1')6/>*012' 1.>1-;.'86.'6>^ >;.*0'1'5-1..'+>*.'6.'8*// 6.'1')*-*. '86.'>12^ 0*?2*0'0*=1.>I0'620'D62.)*0',1'4625-6' 6=)/651C 2 6'8)*-*'2',)-**' *6-.'6,*-')*'0 *0% **' 62012' ' ' 1' K T' :* */*' " " 1' KRS._%T' -8 % 16 ! X1 E"'>*2,;- T' >)6 ' # ' ' " ' " ' " "' # ' M(1--* .',-62./%X' ' ' KKT' < /C ?62' ' " ' 'KQSCN S% **' >/' $ ' 1 ' $ ' !

1.>1-;.'62,C=1=*')60'D**2'.*2,'6.'/*56,*'D' =1=*' :1-? .06.',1' 12.,62, 21=/*% :*'86.')>)1.*2' =1=*' >,% KR'M12',)*'0*6,)'1' */L' X'D'6'2;?^ D*-'1'D.)1=.T D;,'6D1;',)*'.6?*',?*' 12 6>*' ' 86.'*/*>,*0'620'.;.,6 2*0'D+' ,)6/6->',)*'41,)' ^ 1.>1-;.'0*0'8,) 2'6'?12,)'1')*/*>,12' 1+% K' KR'620' 12 6>*'*L>1?2;2>6,*0') ?'+*2'6,*-')*0*6,)'0*-.'D' =1=*' 56=*,;.%' 18*-'# ' '" ' % ' 'NK % 1.>;-'M M1Z-F>1T=1,' % *% D "' " ' 6.,1-' 620' 1//;L J' >,.'LL+ ' X',)*',8 2'.12.'1'B;=,*-' D' *06'M:1?*-'# ' T' : 5 2%@ "!' T 6>>1-0^ 25',1':1?*-', f'L 'KR',)*'.12.'1' *06'620'(2C7 06-*;.X% ()*'8*-*>)*/'2+19*0'D',)*'4-**9'620' 1?62'.6/1-.'6.',;,*/6-'0*,*.'1'?6-2*-.'620'6/.1' 81-.)==*0'D'=-1=,6,1-'1 *-25.'M()*1>-,;.' ' LL ' T 6,;//% L+ 'S T ;>62'' !' 'LL+ ' KX%!' 2',)*')*6+*2.',)*'8*-*',8 2'.,6-.'-*56-0*0'6.' 6;.=>1;.'M>1?=% - % ' :1?*-'# 'LLL 'ST' 7/62'N !' ' 'N T' ;>0;?'.0;.J' 101-% >% +' NT' +0'@ #'+' K X% ()*' 8*-*' .1?*,?*.' ,)1;5),',1'6==*6-' 2'6'0*/+*-25' /6?*'6,',)*'?6.,^)*60'0;-25'.,1-?.'M /;,6->)' ' " ' QX% ()*-'?65*'1-?*0',)*' 5;-*C)*60J'1',)*' /*L62^ 0-62'+*..*/M5+25'26?*',1',X'2'8)>)' 6;/.6/*0' -1?'Nd*,6,1'1?*'M >,.'L+ ' X% 1?=6-*' '/' **' >)* *-'' ' !' ' !'=% N K'._%T 2.>)*0'1' ' ' ' ' !' !'M % % XT' :6.*;.' ' ' !'& ' !' % ' !' 'M ->?% SXT()! /' ' ' '& + !'MB*2% N X% 1?=% ' : ' + $.3!

1'2'8,)',)*' 56-*'1',)*' 1.>;-%

1.=1/.% **'0' !

/ ' # ' /'M>6//*0'D' ;5;., 2*'%' 1;2^ >/1' 6/*., 2* J'620'8)>)'B*-1?*' 2'6'/*,,*-',1' ;^ 5;., 2*'>6//.' " 2'$ ' ' % 8; '>1;2^ >/1' 1;-,**2'D.)1=.')*/0'6,' 1.=1/.',)*' 62> *2,' 006' % % ',1',-*6,1'>)6-5*.'1')*-*. 'D-1;5), D':*-1.'D.)1='1' -/*.'620'6[6-;.'1' L'656 2.,' */65;.% */65;.') ?.*/'86.'=-*.*2,'D;,'21,' :*-1.'1-'6[6-;.% ()*-'?*?1-6/86.'-*60'>12,6 2^ 25'?62'=-1=1., 12.'1' */65;.T 6?125',)*?',)6, >)/0-*2'0 25'8,)1;,'D6=, .?'6-*'.6+*0'620'*2A1' *,*-26/'/*'6/,)1;5)',)*'01'21,'*2,*-',)*'9 2"T01?' 1')*6+*2T,)6,',)*'5-6>*'1'410'.'21,'2*>*..6-'1-' ,)1'=*-1-?62>*'1'*6>)'=6-,>;/6-'5110'81-9T,)6, ?62.'-**'8//'8,)',)*'/68'620'41.=*/01>,-2*'.' .;>*2,T,)6,'5-6>*'.'5+*2'6>>1-0 25',1'1;-'?*-,.' 620'0*=*20.';=12'?62.'8//% */65;.'>12*..*0' .1?*1',)*'=-1=1., 12.'6,,-D;,*0',1')?',1'D*'-*6// ').'D;,'D*'0*2*0',)*'.*2.*'8)>)'.'6>>;.*-.'=;7 ;=12',)*?'?62,6,2 25',)6,',)*'8*-*'>6=6D/*'1'D*^ 25';20*-.,110'2'6'.*2.*'65-**6D/*',1'>6,)1/>',-;,)J' M 62012' ' ' K Q% ()*.210'6>^ _;,,*0'*/65;.T D;,'6.' ;5;.,2*'A;.,/'-*?6-9*0' 1',)*'0*>.12',' 86.'21,')*-*.',)6,'86.',)*-*'6>^ _;,,*0'D;,',)*'?62'8)1'0*2*0',)*')*-*. %J' **' >)6 '# ' ' ' M' ' g' QT' :*^ */*' " " ' 'R'._

1,-*=)0 'M ,1-A 7H>F'D = " 8'6'=*-.12' 8)1'.**?.',1')6+*'D**2'12*'1',)*' 6/.*',*6>)*-.'>12T 0*?2*0'D',)1'6=1.,/*'B1)2'2')./,) -0'*=.,/*% % -%R % :*'6==*6-.',1')6+*'D**2'6'=-*.D'*-'1-'0*6T M72'=-1D6D/',)*' 1-?*-% A:*-*;.*0',1'-*>*+*'6' =22*-'/*,,*-'.*2,'D'B1)2',)*-*D'0*>/2 25',1';D^ ?,',1')./0-*>,12.'1-'6>9218/*05*')./6;,)1-, '?1-*1+*-'>->;/6,25'?6/>1;./620*-.'656 2.',)*' 6=1../*'620'*L*->.25'62';20;*'6-D,-6-'620'=*-^ 2>1;.'2/;*2>*'M7 d1(-=8-.;8 7X'2',)*')>);->)I'MN' B1)2'R X% **'& $!' *620*-'.;55*.,.'I 1' ' '- ' ' NX',)6,)*'?6')6+*'D**2'1'62' ;/,-6C 6;/2*'=6-, ',)*'1-*-;22*-'1'<6-> 12'M_%+%X% =)6,)%' **' ./' '!

=/1 ? 6' M 6,%' % 1' 4-**9' O % ' -1?' ; - O ; ' ' ' + 81'6' 26 ? *' 5 +*2',1' 8- , 25.' 1-' 01>; ?*2,.' >12 *-- 25' >*-,6 2')121-.' 1-'=- + /*5*.%' ( )*' 1?62'*?=*-1-.' 8*-*' 2',)*')6D ,'1 '5 + 25' >)6-^ ,*-.' 1-' 0126, 12.' 8 - ,,*2' 12',8 1' /*6+*.' 1-',6D/*,.' 1 ' 8 6 '1-'>1==*-' 1/0*0',15*,)*-1')*2>*' ,)*' 26 ? *' % 9 ' ()*' ,*-?' .' 218' ?1.,/ '6==/ *0',1' 2.,-; ?*2,.' 5 +*2' D ' ;2 +*-. , *.' 620' 1,)*-' /*6-2*0' .1> *, *.' 2' =-11 '1 ',)*')1/0*-')6+ 25' 6,,6 2*0' 6' >*-.6 2' 0*5-**' 1-',1',)*' / >*2.*.')*/0' D '=-1 *.. 126/ =*-.12.',1' =-6>^ , .*' ,)* -' 6-,% ' 6 %!' % 2 1'.%' + 1')6 ? ^ D*-.' 6 % 1'.%' +O

=/1 ? 6, >. ',)*' .> *2>*' 1 '0*> =)*- 25' 62> *2,' 01>; ?*2,.' 620' 0*.>- D 25',)* -' 1- 5 2 '06,*') .,1-A ' ; .*.' *,>%' ,' -.',119' .> *2, >' .)6=*' 2' <6D //12' ' '5 ' ' % ' %SQ % **' ' ' $ ' '& 'M 120% QS X' 'SQR%

==*/' (' ' ' >6//*0' ,)*' " ' ' 1' 86.' D1?' ;5%' ' S N' 6,' -629*2..,* 2' 2*6-' 6-?.,60,' .,;0 *0' 6,',)*' $2 +*-. , '1 '4 *..*2' 620' D*>6?*' =-1 *..1-',)*-%' : .' +62 , '620') .' 0*^ . -*',1' D*' >12. 0*-*0' 6.' 6' -* 1-?*-' 1',)*1/15 J' /*0') ?' 2,1' *L>*..*.' 8) >)' >1.,') ?') .' . ,;6, 12' 620')*' D*>6?*' 6' .1-,'1 '/ ,*-6- '60+*2,;-*-% : *' 86.' 6,' -.,' 6' + 1/*2,' 1==12*2,' 1 ' *, . ?' 6 ,*-86-0.' /*>,;-*0' 12' >) -1?62> ' 620' 6.,-1/15 ' 620' 2' SR ' 6==*6-*0' 2' 6-?.,60,' 2',)*' >)6-6>,*-' 1 '62' 6/>)*? .,'620' *, .,% - +*2' 686 '6.' 62' ?=1..,1-' -1?' 6-?.,60,' 2' ' 620' ' *-/ 2' 2' ' 8*' 20') ?' =-6>, > 25' ?*0 ^ > 2*' 2' : 1//620' 8)*-*' .1?*' >;-*.' =*- 1-?*0' D ' D .' ;2 +*-.6/ ?*0 > 2*J' M ==*/.' 1 /% 56 2*0') ?' 6' 5-*6,'-*=;,6, 12% D/ 5*0',1' /**' 12' 6>>1;2,' 1 '0*D,')*' 8*2,',1' /,126 ' 620' 86.' ?=- .12*0' 6,' 1-2)1/?' -1?' R',1' K % ,*-') ./ D*-6, 12 ')*' 8*2,' 6.' 6' =) . > 62',1' 8*0*2' 2' K 'D ;','/*,',' 2' *>*?D*-' N '12' 6>>1;2,'1 ') .'6,,6>)'656 2.',)*');->)' 620' ,)*' 2.,,;, 12.' 1 ',)*' >1;2,- % : *' 86.' 6 ,*-86-0.' 92182' 2' 2' : *..*' 620',)*')*2 .)'=-1+ 2>*.' 6.' 60*=,' _;6>9 ' 620')*-6/0' 1 ',)*' 2,*- 1-' / 5), J' 8)>)')*' .1;5),' ,1' ;D.,.,;,*' 1-')- .,62 , ' 2',)*1/15 ' ==*/ 6,,6>9*0' 2' =6-, >;/6-',)*' 01>,- 2*' 1 ',)*' 6,12*?*2,'1 ')- .,'620'1 'A;., >6, 12'D ' 6 ,)% *^ 0*?=, 12',69*.' =/6>*',)-1;5)')- .,' 2';.' 8 ,)1;,'*LC' ,*-;6/ ?*62.% ()*-*' .' 21' 625*-' 2' 4 10' 62' 6,12*^ ?*2,' .',)*-* 1-*' 21,' 2*>*..6- % .')- .,' 0 0' 21,' 6..;?*').')';?62 , ' 1;,' 1 ' 6-60 .*' D;,','1;,' 1 ',)*' 8*6/-*2*0' .;D.,62>*' 1 ' 6//*2' ?62 'D*' 86.' ;20*-',)*' 2*>*.. , '12') .' 182' 6>>1;2,' 1 ' 51 25',)-1;5)',)*' 26--18' 56,*' 1 ' .*/ C0*2 6/ ,1' 5/1-AJ' 21,' 2' 1 -' =/6>*' D;,' 1-'1;-' 5110' 0 0')- .,'.*,'62' *L6?=/*' 1 ') .')1/ ' / *% ()*' & 1-0' 1 ' 410' 2') .' + *8 ' .' 21,' 2')- .,' 6/12*% ,' .' 62' ? ?*0 6,*' * /;L' -1?',)*' ?1;,)' 1 ' 410' 8)>)' >1? ?;2 >6,*.' ,.*/ ',1',)*')*6-,.' 1 ' 6// ?*2 '+*+2' 8 ,)1;,',)*' >- =;,;-*.d 2' '?62',)*-*' .'6' 0 + 2*' .**0' 1-'* /;L' 1 ',)*0 + 2*' 26,;-*% ,*-',)*' 6//')18*+*-',)*-*' 86.' 2' ?62',)*' .**0' 1 ',)*' .*-=*2,' 8)>)',1,6// '>12>*6/*0',)*' & 1-0' 1 ' 410' ?^ =/62,*0' 2';.% (1',)*' *20' 1 '68 69*2 25' 620' - =*2^ 25',).'.**0'1 '410',)*'*,*-26/' & 1-0' 1 ' 410' 86.' >1?^ =*//*0',1' 6..;?*' 6'/>' >' D10 ' 2')*6+*2' D ' 8)1.*' ?*62.',)*' /*.)'6..;?*0' 2' <6-E' 86.',25*0' 620' 0*^ *0' 620',)*' .**0' 1',)*'.*-=*2,' 2').' /*.)' 86.' 9 //*0' D 'D .' .; *- 25.' 620' 0*6,)% ()-1;5)' D1),')18*+*-' 6';2 +*-.6/,2>,;-*' 86.' =-*=6-*0',)-1;5)' 8)>)',)*' .**0' 1 ' 410' .' 6869*2*0' 2' ;.' 620' 8*' 6-*' >/1,)*0' 8 ,)' 6' 2*8' /;> >' D10 ' 1-' 1;-' 0* >6, 12% ()' .')18*+*-' 8*' 01' 21,'-*>*+*',)-1;5)'*-,*-26/' ?*62.' 1 ' 5-6>*% 2' ,-;*')- ., 62 , ' 21,) 25',69*.' =/6>*' ?*^ 0 6,*/ 'd ,' .' 410 .' 8 //',1' .=*69' 0 -*>,/ ',1' 1;-')*6-,' D ' 2.= -6, 12' ,' .')- ., .' 8 //',1' D*5 2') .' =-1>*.' 656 2' 2';.' 2' *6>)' 12*' .*=6-6,*/ J' M 1-2*-' ' + J' ' ' '" ' ' " ' 0 2)%,-62./%' 0 +% ' 1/% ' =% N SX% : *' 0 *0' =-/ KS N ' 2' & ,,^ 5*2.,* 2' 6../*% : .' 60)*-*2,.' 8*-*' >6//*0' ==*/ C 62.'>' %% (8' : *' 8-1,*' .*+*-6/) ? 2.' 1 6?125' ,)*?' ,)*' P*2 ,*2, 6/) ? 2' 'L' D 1' "' P($20*-',)*' 26?*' 1 ' " ' ' ')*' 8-1,*' , " ' " 'M SR 8S T % % 1 =' # ' % 'M SRQ8S T @ ' 'M ?.,% Xa ' ' ? /' '6 'D ' " 'M ,1>9)% QK Xa ' ' '5 % ' ' " ' ? " S ' 9 'M62' 6;,1D 15-6=) ' 21' 06,*X% : .' 8 - , 25.' 8*-*' >1//*>,*0' ;20*-',)*, ,/*' 6 ' '/ '@ ' ' ? ' ' ' 'M ?.,*-0% RT' 2*8' >1//*>, 12' N N' +1/.%X ' >9*-?622' " " " 'M * =.% Q XT' :1 ?622' " " 'M 622.,% QNXT' 6)2.' ? ' ' =,% ' + ' N N' ._%T' :*-[15' 5 16 =' + ' ' K%

=, >). ') ;->)'-*5 .,*-.' .1'>6//*0' D*>6;.,*',)* ' 8*-*' 1-5 26// ' ' ' ' ' ' ' > - 8' 8)*-* 2' 6?125',)*' *6-/ ')- ., 62.' 8*-*' -*>1-0*0' ,)*' 26?*.' 1 ' D .)1=.' 620' 1,)*-' D-*.,)-*2' 8)*.,)*-' 0*^ >*6.*0' 1-'/ + 25' 8)1' 8*-*' *2, ,/*0',1')6+*',)*' -' 26?*.' ?*2, 12*0' 2',)*' >*/*D-6, 12' 1 ',)*' ,;-5 ' -1?')6+^ 25'-*20*-*0' 62 '. 526/'.*-+ >*',1',)*');->)% &)*2' 6' ?*?D*-' 1 ',)*');->)' 86.' *L>1?? ;2A*6,*0 ')' 26?*' 86.' *-6.*0' -1?',)*' 0 =, >).% ()*' 6-*'., // 2' ;.*' 2',)*' 4-**9');->)% ()*' % '" 1 '62, _;', '>12. .,*0' 1 ',81',6D/*,.' 1 ' 8110' +1- '1-'1,)*-'.;D..62>*' 8)>)' 1/0*0',15*,)*-' 620' >12,6 2*0' 6' >16, 25' 1 ' 86L' 12',)*' 2,*- 1-% 2' ,) .' 86L' 8*-*' 8 - ,,*2' 6,' -.,'=- +6,*'/*,,*-6% 2',) .' >6.*' ,)*' 0 =, >)' 86.' D1;20' 8 ,)' 6' >1-0' 620' .*6/*0' 8 ,)' 86L% 6,*-',)*' *?=*-1-.' >12.;/.' 620' 1,)*-' ?65 .,-6,*.',1' >*/*D-6,*',)*' -' */*+6, 12',1' 1 >*' .*2,' 0 =, >).',1',)*' -' -*20.' >12,6 2 25' 12',)*' *L,*- 1-' 1',)*',6D/*,.' 62' *25-6+ 25' 1',)*' -'=1-,-6 ,' 1-' 1 '.1?*' > ->; ?.,62>*' >122*>,*0' 8 ,)',)*' -' 1 > 6/=-12 1, 12% ()*' 8*-*' 6/.1' *?=/1 *0' 6.' =;D/ >' -*5 .,*-.% ()*' .6>-*0' 0 =, >).' >12,6 2*0' 12' 12*' . 0*' 26?*.' 1 ',)*' / + 25' 12',)*' *1,)*-' 1 ',)*0*60' 8)>)' 8*-*' -*)*6-.*0' 0;-25' .6>- >*.% &)*2')- ., 62 , ' D*>6?*' ,- ; ?^ =)62,' 0 =, >).' 8*-*' ;.*0',1' >12,6 2' .>;/=,;-*.' 1 '-*^ / 5 1;.' .;DA*>,.' 620' .>*2*.% +*2',)*'=11-*.',-6+*/^ /*-' 1-' = /5- ?';.*0',)*?',1')1/0',)*' ?65*.' 1 '.6>-*0' =*-.12.' D* 1-*' 8)>)')*' D18*0' 2' =-6 *-' .*+*-6/' , ?*,'6' 06 % 2')- .,62' 6-,' 6' 0 =, >)' .' 62' 6/D -C' =6 2, 25' 2',81'= *>*.' 8)>)' ?6 'D*' 1/0*0',15*,)*-' 620' 8)>)' >12,6 2' =6 2, 25.' 12' D1,)' ,)*' 2,*- 1-' 620' *L,*- 1-' .;- 6>*.% ' *5*/' " !=D " " ' & " ' -' 'K RT' =5)6?',' '6 'L' K' S' 620' L+' N T' B6? *.12' # ' ' ' ' '& ' 'K %

-*>,1-' 1=' ' ' 'M1-' % ' =1 (8' 6',/*' 1 ,*2' 5 +*2' 2',)*' 1?62');->)',1',)*' =- *.,'6>, "7'6.'>12 *..1-' 8 ,)'=18*-'1 '6D.1/;, 12%

-*>,1- ' % 6' .*,' 1 '-;/*.' 1-' 81-.) =' 620' 1-0 ^ 26, 12' 0-6 82' ;=',1',69*',)*' =/6>*' 1 ',)*' .;-5 '1-' 119' 1 ' 1?2?12' -6 *-' D ',)*' & *.,? 2.,*-' ..*?^ D/ '1 ' +2*.% ()*' -*>,1-' 86.' -6? *0' 2' S N' -6, *0' D ' 6-/ 6?*2,' B62% Q' S ' 620' 601=,*0' D ' ,)*' >1,,.)' 4*2*-B' ..*?D/ ' 2' S % 2',)*' >,' 1 ' Q ' ,' .' *2, ,/*0' 6' ' ' + ' ' "% '? ' " " ' " ') ' '6 '$ 2' ' ' ' ()*' .6?*' 1-0 262>*' -*=*6/*0',)*' 6>,.' 1 ' 086-0' '620' / [6D*,)' D ' 8)>)',)*' ,;-^ 5 '86.' *.,6D/.)*0' 620' 1-D60*',)*' ;.*' 1 ' ,' 8 ,)' 2' 62 ' >);->)' >)6=*/' 1-'=/6>*' 1 '=;D/ >' 81-.) =' 2' 25^ /620' 1-' & 6/*.' 6==1 2, 25',)*' ;.*' 1 ',-*' -*>,1-' 2' ,.' .,*60% () .' 1-0 262>*' 20**0' 2*+*-'-*>* +*0',)*' -1 6/6..*2,' 620' ,' 86.' 6'/125', ?*' D* 1-*' ,' .;>>**0^ *0' 2' 6D1/.) 25',)*' *.,6D/.)*0' 81-.) =% 2' .1?*' 6=-,.',)*' -*>1;/0' 21,' D*' =-1>;-*0' 2' 1,)*-.' D' 86.'-*A*>,*0' .1?*' ? 2 .,*-.' 81;/0' 21,'-*60' 62 ' 1-?' 1,)*-.'-*60' 12*' 1 ',)*' -' 182% ()*' 6-/ 6?*2,' ,)*-*^ 1-*' 2',)*' *2.; 25'.;? ?*-' >6//*0' 2' 6//',)*' ; + ' ' ' 620' ?=1.*0' 6' 2*' ;=12' .;>)' ? 2 .^ ,*-.' 6.' .)1;/0'-*60' 62 '1,)*-' 1-?',)62',)6,' ?=1.*0' D ',)*' -*>,1-' ()*' =*26/,' 1-' -*60 25',)*' ;-^ 5 '86.'a ' 1-',)*' -.,'1 *2>*'7 ' 1-',)*' .*>120' 620' 6' *6-.' ?=- .12?*2.' 1-',)*' -*>,1-' % 2 ' 12*' 8)1' .)1;/0 62>*' 1 ',)1' -*>,1-' ' %

=-*6>) ' 8- ,* ' 1-' =- 2,' 62 ,) 25' 2' 0*-156, 12' 1 ',)*' -*ZH,1- ' 86.',1' 1- * ,' 21,'/*..',) 62'a_ ' 21-' ?1-*',) 62' c1 ',1',) *' =11-% // 1 +V -* ? 6 2^ 25' 2' =6- .)' >) ; ->) *.' 1-' >) 6=*/.' 8 *-*' 1-0*-*0' M1' D*' >6-- *0',1',) *' >1 ? ? ,,**' 1 ',) *' .*+*-6/ >1 ; 2, *.' 8 ,) 2' 6' ? 12,) ' ,) *-*' ,1' D*' 0 .=1.*0' 1 ' 6.' ,) *' 6-/ 6 ? *2,' .) 1 ; /0' 0 -*>,' M ; .) 8 1-,) ' # !' f'=% + ' 'KR ' > , *,*0' 2' 60 * ' 6 !' % ' . ' +%X% (( ) *' -*>,1- ' =-*.> - D*.' 21' 1-?' 1 '=-6 *-' 21-' ' -*.=12.*.' 12' ,) *' =6-,' 1 ',) *' =*1=/*' *L>*=,' & !' ,' *2A1 2.',) 6,' ,) *' =*1=/*' .) 6// * *2,*-',) *' >) ; ->) *.' -*+^ *-*2,/ ' 620' 2' 6' 5-6+*' 620' D*>1 ? 25' ? 622*-' 8 ,) ^ 1 ; ,' 601-6, 12 ' 1-' D18 25',186-0.' 12*' =/6>*' 1-' 621,) *-' ,) 6,',) *' ? 2 .,*-' .',1' D*5 2' 8 ,)' =-6 *-',1' 8) >)' 6// =-*.*2,' 6-*',1' 5 +*' 0 ;*' 6,,*2, 12 ' 620',1' 6D..6 2' -1 ?' 6// =- +6,*' >12 *-*2>*.' 1-' .6/ ; ,6, 12.' ,) 6,',) *' -*60^ 25' 1 ',) *' >- =,;-*.' 2',) *' >125-*56, 12 ' 8) >)' .' 6' =6-,' 1 ',) *' 81-.) =' 1 ' 410 ' D*' =*- 1-?*0' D ' ,) *' =6.^ ,1-.' 620',*6>) *-.' ,) 6,' 6// ,) *' >6212 >6/ D119.' 1 ',) *' /0' 620' *8' (*.,6 ? *2,' D ;,' 212*' 1 ',) 1.*' >6// *0' 6=1>- =) 6/ ' D*' =; D/ >/ '-*60' 2',) *' + ; /56-',125 ; *' 620' 2',) *' D*7' 6// 18*0',-62 ./6, 12' ,) 6,',) *' =1-, 12',1' D*' -*60' 6,' 12>*' D*' /* ,',1',) *' ? 2 .,*-' D ; ',) 6,' >1 ? 12/ ' 12*' >) 6=,*-' 1 '*6>) ' (*.,6 ? *2,' D*' -*60' 6,' *+*- ' ? **,^ 25' ! ',) 6,' 6// ,) *' >6212 >6/ D119.' D*' -*60' 1+*-' 2' 1-0*-' ,) 6,',) *' =*1=/*' ? 6 'D*',) *' D*,,*-' 6>_ ; 6 2,*0' 8 ,)' ,) *' >- =,;-*.! ',) 6,' 8) *2',) *' ? 2 .,*-' .) 6// A ; 05*' ,' 2*>^ *..6- ' ,1' *L=1 ; 20' 62 ' =6-,' 1 ' 8) 6,' .' -*60 ') *' .' 21,' ,1' D*5 2') .' *L=1. , 12', //,) *' 8) 1/*' >) 6=,*-' 1-' =.6/ ?' D*' *20*0' 620',) 6,' 6 ,*-' -*60 25',) *' >- =,;-*' 620' . 25 25',) *' =.6/ ? ',) *' ? 2 .,*-' 8) 1' =-*6>) *.' .',1') *-' 5 2' 8 ,)' =-6 *-% ,' ,) *2' =-*.>- D*.') *60.' 1-' ,) *' =-6 *-!' *2A1 2.',) 6,',) *' .; DA*>,' 1 ',) *' .*-?12' D*' 6' ,*L,' 1 ' >- =,;-*' 8) >)',*6>) *.' .1 ?*' =- 2> =/*' 1-') *60' 1 '-*/ 5 12 ' 1-' .' 1,) *-8 .*' . ; ,6D/*' ,1' ,) *' 1>>6. 12' 620' -*>1 ? ? *20.' ,) 6,',) *' 2,-10 ;>, 12' ,1' ,) *' ,*L,' D*' D- * ' 620' =*-.= > ; 1 ; . ' 20' 0-68 2' -1 ?' ,) *' 81-0.' 1-' >12,*L,' 1-' -1 ?' .1 ?*' =6-6//*/' =6..65*' 1 ' >- =,;-*% 2' 0 + 0 25',) *' ,*L,' ,) *' ? 2 .,*-' .',1' -*56-0',) *' 1-^ 0*-' 1 ',) *' ? 6,,*-' -6,) *-',) 62',) 6,' 1 ',) *' 81-0.! ') *' .' 21,',1' D ; -0*2',) *' ? *? 1- ' 1 ') .') *6-*-.' 8 ,)',11' ? 62 ' 0 + . 12. ' 21-' =*-=/*L' ,) * -' ; 20*-.,620 25.' 8 ,)' /15^ >6/ =) -6.*.' 620',*-? .' 1 '6 -,! ') *' .' >) *0 ',1' 2. .,' 12' ,) 1.*' 01>,- 2*.' 8) >)' 6-*' =- 2> =6// ' 2,*20*0' 620' ? 1.,' / 9*/ ' ,1' *0 ') .') *6-*-.!) *' .' 21,',1' =-1=1.* 21-' 62. 8 *-' 62 ' ; 22*>*..6- ' 1DA*>, 12. ' D ; ',1' >12 ; ,*' *--1-' 620' .6, . ' ,) *' A ; 05? *2,.' 1 ') . ' 6 ; 0 *2>*!' 620') *' .',1' D*F+*- ' .=6- 25' 2' _ ; 1,6, 12.' -1 ?' *>>/*. 6.^ , >6/ 1-' 1,) *-') ; ? 62' 8 -,*-.' 62> *2,' 1-' ? 10*? ' *,>% ( ) *' -*>,1- ' -*>1 ? ? *20.' ,) *' ; .*' 1 ',) *' 1-0 .' -6 ^ *-' 6.' 6' =*-. *>,' ? 10*/ 1 '0*+1, 12% ,' 170 .' =- +6,*' 1-' /6 ' -=*-.12.',1' 60 ? 2 .,*-' D6=, . ? ' 620' *2A1 2.' ,',1' D*' =*- 1-?*0' 2',) *' 6>*' 1 ',) *' >125-*56, 12% ,' 1-^ 0*-.' ,) 6,',) *' >1 ? ? ; 2 12C,6D/*' 6,',) *' 1-0 .' ; ==*-' D*' .1' >12+*2 *2,/ '=/6>*0',) 6,',) *' >1 ? ? ; 2 >62,.' ? 6 ' . ' 6D1 ; ,' ,% ,'*2A1 2.',) 6,',) *' 6DD6,) ') *' 1D.*-+*0' 8 ,) ',) *' 5-*6,*.' .-,-> ,2*.. ' D1,) ' =' = ; D/ >' 620' =- +6,*' ,) 6,' ? 6-- 65*' D*' .1/*? 2 [*0' D ' 6' /68 ; /? 2 .,*-' 1 ' ,) *' 81-0' 8) 1' .',1' 5 +*' >1 ; 2.*/ ,1' 620' =-6 ' 1-' ,) *' =6-, *.!' ,) 6,' .-*>* +*0' D*' 6/.1' 9*=,!' 620' /6.,/ ',) 6,' 6.' ,' .',) *' 0 ; , ' 1 ')- . , 62.',1' =-6 .*' 410' = ; D/ >/ ',) *' 8) 1/*' >125-*56, 12' A1 2' ,15*.) *-' 2' . 25 25' =.6/ ? .% 2' 62' &%% ' ,' .' *2A1 2*0',) 6,' 6// *., +6/. '+ ; /56-^ / ' >6//*0') 1/ ' 06 .' D*' 6D1/ .) *0' 620',) 6,' 21' 06 ' D*' 1D.*-+*0' *L>*=,',) *' 1-0 .' 06 ! 620',) 6, ' 6.' 21' =/6>*' .' >6=6D/*' 1 ' 62 ') 1/ 2*..' ; 20*-' =-*,*2>*' 1 ' >12.*>-6C - 12' 1-' . ; DA*>,' ,1' =1//; , 12' D ' 62 ' .; =*-., , 12' 1-^ ? *-/ ' *? =/1 *0 ',) *' =/6>*.' 1 ' 81-.) =' 218' ; .*0' D*' , // >12, 2 ; *0%J

( ) .' -*>,1- ' 8) >)' .' ., // =6-,/ ' D ; ,' D ' 21' ? *62.' .,- >,/ ' 60) *-*0',1' D ' -*.D ,*- 62.' 2' ,) *' - , .)' ./620. ' .' 5 +*2' 2' ; // 2' *6/' # ' ' + ' 1' 6==*20 L' + ! .**' 6/.1' 1// *-' " '"# J' ' 6 1' + ' KQ ' 6 % d - % ( ) *' -*.DAO!*- 62') ; ->)' 2' ,) *' $ 2 ,*0' ,6,*.') 6.' 6' 1 ' ' " % ' 2' ,**2' >) 6=,*-.' 8) >)' 86.' 6 ? *20*0' 620' -6, *0' D ' ,) *' 4*2*-6/ ..*? D/ ' 2' QK ' 620' ?6EIC D*' 1 ; 20' 6==*20*0',1' -" ' J' ' ' " ' ' "'M) /60*/=) 6 ' -*.D ^ ,*- 62' 16-O X% % 2',) *' 1? 62' 6,) 1/ >') ; ->)' 62' 622) 6/ ^ -*>,1- ' I1 ' (8' 1-',) *' >/*-5 ' .' =) D/ .) *0 ' 8) >)' 5 +*.' -;/*.' 1 '>*-*? 12 6/ 6>>1-0 25',1',) *' >6/*206-' 1-' ,) *' *6-' 6.' .*,,/*0' D ',) *' D .) 1=' 1 ',) *' 0 1>*.*% ( ) *' ,; 6/ .,.' 2' 25/620') 6+*' ? ,6,*0',) .' 2',) *' -' .1C >6//*0' ' ' & ! -5 * ' 6' ; 2*-6/) ? 2 ' 0*- +*0' -1 ?',) *' 6,% ' 2' 1',) *' -.,' 81-0' 1 ',) *' -.,' 62, =) 12' 2',) *' 1 >*' >6//*0' , ' ' ' 8) >)' .' ' 1' ' ' ' $' ' % ' ,' ' ! ' -1>,*-' ,' ' 1'=6-,' ' >) % + ' g ! 5 ' 5 ' ,DD ' ' ' ' !' & %+ . >6/>*6, ' 1-' 6-* 11,*0' < 129.' 620' : ; 2.' .',) *' 5*2*-> ' 26 ? *' 1 '.*+*-6/ -*/ 5 1 ; .' 1-0*-.' 8) 1.*' ?*? D*-.' 8*6-' 12/ '.6206/.' 1 '/*6,) *-' 8110' 1-' 92 ,, 25C8 1-9% ( ) *' -62> .>62.') 6+*' =6-, >; /6-/ ' D**2' 0*. 526,*0' D ',) 6,' 26 ? *% ( ) *' 0 *-*2,' 1-0*-.' 6-*' % ( ) *' D6-* 11,*0' + ' '$!' & 2 ' 1; 20*0' 6,' (6/6+*-6' D ' >1 ? 620' 1 ') / =' ' 620' 8) >)' 6 ^ ,*-86-0.' .=-*60',)-1; 5) 1 ; ,' -62>*' 620',) *' 6.,' 620' & *.,' 20 *.% K% ( ) *' D6-* 11,*0' ' '$!' & 1' *.,6D/ .) *0' 2' QR' D ' 6' =62 .) ' ? 6 0' 1 ') 121-' -;C 0*2 6' 4- //*' 2',) *' >12+*2,' 1 ',) *' . ,6, 12' 6,' <60^ - 0% N% ( ) *' D6-* 11,*0' ' ' ' 1-',) *' / D*-6^ , 12' 1 ' =- .12*-.' *.,6D/ .) *0' 6,' .1' 620' ? 1-6 26 ' =6 2' 2' S ' D ' *,*-' B1) 2' 1 ' 6=, ..6% % ( ) *' D6-* 11,*0' ' ? 6/*' 620' *? 6/*' MD6-* 11,*0' ? 129.' 1 ',) *' -1..' 6,' + /6X ' 1; 20*0' 2' SK' D ' ( ) *^ -*.6 ' 620' .112' .=-*60' 1+*-',) *' 8) 1/*' 1 ' =6 2' 1-,;^ 56/' -62>*' ,6/ ' 4*-? 62A7' 620' 20 6% ' =6-,' 1 ' ,) *.*' 21,' D*/125 25',1' =6 2' 6-*' >6//*0' 125-*56, 12' 1 ',) *' D6-* 11,*0' ' '$!' 6 ! % ( ) *' D6-*^ 11,*0' - $ ' *.,6D/ .) *0' 6,' 6/' 0*' * "6. ' 2' RS' D ' B1) 2' 6=, .,*' 0*' /6' 12>*=, 12 ,) *-' 0-*..' .' 8) ,*' 8 ,) ' 6'-*0' 1-' D/ ; *' >-1.. ' 620' 6' D-18 2' >/169' 620') 110' 2',) *' >) 1 -',) * ' 8 *6-' 1+*-',) .' 6', 2C>1/1->0' >/169% ( ) .' 1-0*-.' .=-*60' 1+*-' =6 2' -62>*' 4*-^ ? 62 ' 1/620 ' : ; 256-A ' 1) *? 6' 620' ,6/ % S% ( ) *' D6-* 11,*0' 'M / 21-,*.' 1 ',) *' 5 ',' " +' 2' =6 2' < 21-,*.' % $ ' *+625*/ >6/ D-*,) -*2X ' *.^ ,6D/ .) *0' 2' R ' D ' B1) 2' 1 ' 4 ; 606/1 ; =*' 2',) *' =-1+^ 2>*' 1 ' 4-62606% ,*-' ? 62 ' 0 >; /, *.' 8 ,)',) *' =1=*.' *,>% ,) * ' 2' ',119',) *' 26 ? *' 1 ',) *' 5% J' ' ,' 620' *.,6D/ .) *0',8 *'/+*' =-1+ 2>*.' 2' =6 2' 1-,; 56/' 20 6' 620' ? *- >6% ( ) *' 5 9 ' ' '@ 'M/*.' *>1//*,.X ' *.,6D/ .) *0' 2' RK' D ',) *' 1; 2,' 0*' *+*-.' 8) 1' .112' *.,6D/ .) *0' ,8 *'/+*' =-1+ 2>*.' 2' -62>*' /620*-.' 620' 62606% ( ) *' < 21-,*.' 1 '$! ' & '*.,6D/ .) *0' D ') ?' 2' 6,' /6>*2> 6a',) * ' 60) *-*' ,1',) *' .,- > ' -;/*.' 1 ',) *' 26>) 1-*,% ( ) *' 1-0*-.' .' *,'+*- ' 2 ;^ ? *-1 ; .' 2',6/ % R% < 21-,*.' 1 '# J' / ' *.,6D/ .) *0' D ') ?' 2' ') ; ,' . ; ==-*..*0' 2' SK% ' % " 'M.** /$ ' 3!' % < 21^ - ,*.' 1 'D " 1 ' " ' 1; 20*0' D ') ?' 2' QR' 2',) *' *--6' < 1-*26a' 2',) *' S,) ' >2,; - ') 6,' 6.' 1-?6// ' 2>1-=1-6,*0' 2',) *' 1-0*-' 1 ',) *' *5 ; /6-' D.*-+62>*% K% 1>>1/62, ' M 1-0*/ *-.X ' .**' < 21-,*.' 1 ',) *' DC' .1-+62>*% Q% < 21-,*.' + 'M=11-') *-? ,.' */*.C' , 2.X ' *.,6D/ .) *0' 2' KR ' D ' .1 ?*' < 21-,*.' -*,; -2*0' -1 ?' 6' ? .. 12' 2' -? *2 6% ,*-',) *' 0*6,) ' 1 '=1=*' */*., 2' ',) * ' */// 2,1' 0 .5-6>*' 620' 8*-*' 0- +*2',1' 4-**>*' -*,; -2 25' 26// ',1' =; / 6',) * ' 8*-*' =*-.*^ >; ,*0' 6.') *-*. >.' 620' .>) .2 ,) *' 2_ ; . , 12') /62 ' /*0',1' -62>*' 8) 1-*' 8 ,)' (; .>62' 20' -*2>)

< 21- ,*. ',)* ' 1; 20*0',)*' 125-*56, 12' 1 ' 6-D122* ' 620',)*' = - , ; 6/' 125-*56, 12' 1 8) >)' 8*-*' . ; ==-*. . *0' 2' N Q D ',)*' 2_ ; . , 12 ' = 6-, ' 1 ' ,)* ? ' D* 25' = ; ', ,1' 0*6,) ' 620',)*' 1,)*-, ' ?=- .12*0' 1-' / * % ., *-. ' 1 ',)*' N V6 2 6 % * ? 6/*' =8> ?Y% S% V62 .C ' 1 ',)*' , - >, *-' D. *-+62>* ' *. , 6D/ .)*0' 6, ' /D621' 2' S N ' D ' -62> . >6' 1 'B*. ; .' < 6- 6 ' 620' 8)1] *' - ; ' *' 86.' 601=, *0' 2' .1 ?*' , 6/ 62' >12+*2, . % * ? 6/*' 62>)1- , *. ' 1 'D$!' ' &' 1' *. , 6D/ .)*0' 2' S S 6, ' B6' 6 . . 6' D ' >6-0 26/' -62> .' 6-D*- 2 ' 6-*' 1; 20' 12/ ' 2', 6/ % Q% 6-* 11, *0' D-*,)-*2' 620' . . , *-. ' 1 ' ,)*' NO' 1-0*-' '$!@ ' M5/ ' >6/[X ' 2' > / ' 6/^ ? 6, 6 ' . , - 6 ' *, >%T *. , 6D/ .)*0' 2' N ' D ' B6>1D' 1 ' ; 5; D 1 ' 2',)*' >12+*2, ' 1 ' 6' (-1=6% ( )* ' *L, *20*0' -6= 0/ ' D ; ' 8 *-*' 2' S K ' ; 2 , *0', 1',)*' 125-*56, 12' 1 ',)*' NO' 1-0*-' 1 ' 1? D6-0. % R% ; 2. ' 1 ',)*' NO' 1 P' 0*-' 1 ' , ' -62> . ' 1 ',)*' , - >, *-' D. *-+62>*' 2' -62>*' I ' 4Q E' *. , 6D/ .)*0' 2' RN' D ' 2>*2, ' < ; . . 6-, ' 6, ' -62>12+ //*' 620' *2018*0' 8 ,)' ,)*' >12+*2, ' 1 ' *=; . ' 6, ' 6- . ' 2' S % ( )* ' 0*+1, *0',)*? . *//+*. ', 1' ,)*' *-*>, 12' 620' ? 6265* ? *2, ' 1 ') 1. = , 6/. T 6D1/ .)*0' 2' QR',)* ' 8*-*' -*1-562 [*0' D ',)*' 6D) 1' 1 ; 0- 2' 2' Q ' . 62>, 12*0' D ' =1=*' ; . ' ' 620' 2' QNN' 8*-*' 6==1 2, *0', 1',)*' ? . . 12. ' 2',)*' ./620. ' 1 ',)*' 6>)*% K ' # 2 ' 2 ; 2. ' 1 ',)*' NO' 1-0*-' 1 ' , % -62> . ' 1 ; 20^ *0' 2' SNN' 6, ' ? D ; -5' D ' B1) 6226' +62' **- >) ' 8) 1' 3 56+*' ,)*? ' +*- ' - 5 0' - ; /*. ; ! D ' 1) 6226' +62' **- >) ' 6D1/ .)*0' 2' % QR% K % # % ' 1 ',)*' NO' 1-0*-' 1 ' , % -62> . ' M < 2 ? . ' *, >%X ' *. , 6D/ .)*0' 6, ' < 60- 0' 2' 4 ID ' *-2C) 6-0' 1 ' D-*512d ,)* ' 8 *-*' 8 0*/ ' 0 . . *? 26, *0' 2' 1-, ; 56/ ' =6 2 ' 620',)*' *,)*-/620. ' 620',)6+*' D ; ' /6, */ ' 0 . 6==*6-*0% KK% *? 6/*' " ' ' 7 W NO' 1-0*-' 1 ' , % -62> . ' *. , 6D/ .)*0' D ' >1 ; 2, ' >)1/6. ' 1 ' -. 2 ' 620' =1/*, 1' 2' N ' 1-') . ' 182' >)1- . , *-. d 0-*. . ' 5-6E ' 8 ,)' 6' 8) , *' D*/, ' . , -*6? *-' 620' 5-6 ' 7 + *+ /T ,)*' /6, , *-' D/6>9' 12' *6. , 06 . % KN% : *-? , . ' 1 ' 1' 1 ; 20*0' 2' Kd ,)* ' >1 ; 2, 12/ ' 6' *8' 62>)1- , *. ' 6, ' =1/*, 1' 2' $? D- 6% K % : *-? , . ' 1 ' $! D " ' " ' ; % ' *. , 6D/ .)*0' 2',)*' D .)1= -. ' 1 ' <*, [' 6 ? D-6 ' 620' */ /6 ' 2' SN ' D ' < >)6*/ 1 ' 6D 26d ,)* ' . 112' 2 ; ? D*-*0' ' D ; , '0 . 6==*6-7' 2' QR% K ' 4*2*-6// ' 6/ / ,)*' >125-*56, 12. ' 1 ' -*5 ; /6-' & " ' 620' 1 ',)*' ' + ' , ! ' *-*-' . % + ' 6- ; . . *-? 12>)*%

7 * - 2 2 5 ' ' (' MB ? >=, ? >' - % ' (' ' % ' ' 1-% L ' X% ( ) . ' *L=-*. ^ . 12' . ' 218' ; . ; 6// ' ; 20*-. , 110', 1' ? *62' 6') 5)' 6>; /, E ' *2d1 *0' D ' >*-, 6 2' =*-. 12. ' 2',)*' 6=1. , 1/ >' 65*' 1 ' 2^ , ; . , +*/ ' =-1D 25',)*') *6-, ' 620' 0 . , 25 ; .) 25',)*' . *CZ >-*, ' 0 . =1. , 12. ' 1 ' ? *2' M>1 ? =6-*' ' 1-% L + ' KRT ' B1) 2' + ' X% ' , ' 6==*6-. ' , 1') 6+*' D**2' 12*' 1 ',)*' 5 , . ' =*>; / 6-', 1',) 6, ' 65*' 620' 86. ' *. =*> 6// ' 2*>*. . 6- ' 6, ' 6', 2 *' 8)*2',)*' . , 6206-0. ' 1 ' 01>, - 2*' 8*-*' 21, ' 8*// *. , 6D/ .)*0' 1-' 5*2*-6// ' ; 20*-. , 110 ' 620' 8)*2' ? 62 ' 0*>* +*-. ' 8*-*' 6D-160' MK' B1) 2' ' X% ( ) . ' 6>; /, ' 1 ' . ; =*-26, ; -6/ 2. 5), ' . **?. ' , 1') 6+*' D**2' *L*-> . *0' >) * / ' ; =12',) 1. *' 8) 1' >6? *' 1-86-0' 6. ' , *6>) *-. ' 1 ' 1,)* I. ' 620' 8) 1. *' -*6/ 0*. 52. ' , ' 86. ' ? =1-, 62, ',) 6, ' ,) *' 2 62, '>) ; ->) *. ' .) 1 ; /0' 9218 % ; .) *2, >' 2. , 62>*. ') 1 *+*-' 01' 21, ' 6==*6-', 1' .) 18',)*' ? *, / 10' 1 ' , . ' *L^ *-> . *' 6/,) 1 ; 5) ',)*' >6. *. ' 1 ' 262 6. ' 620' 6==) -6' M >, . ' + ' N ' RX ' 1 ' ? 12' < 65 ; . ' M+ ' K X ' 620' 1 ' / C ? 6. ' ML ' RX ' 6-*' >6. *. ' 2' A71 2, % **' & ' - (C $ %

. > = /*' M 6, % % ' ' . >) 1/6-' -1 ?' ' , 1' /*6-2d < 6, , ' L ' K X ' 12*' 8) 1' =-1 *. . *. ' , 1') 6+*' /*6-2*0' >*-, 6 2' =- 2> =/*. ' -1 ?' 621,) *-' 620' ? 6 2, 6 2. ' ,) *? ' 12',) 6, ' 1,) *- . ' 6 ; .) 1 - , % 2',) *' *8' (*. , 6^ ? *2, ' , ' . ' 6==/ *0' =- 2> =6// ' , =',) *' =//18*-. ' 1 ') - . , T . 1 ? *, ? *. ' , 1',) 1. *' 1 'B1) 2',) *' 6=, . , ' < 6, , ' L ' T 620' 1 ',) *') 6- . **. ' < 6, , ' LL ' S% ' . ' : . *0' 2' 6' . =*> 6/ ? 622*-' , 1' =1 2, ' 1 ; ' ,) *' , 8 *//+*' < 6, , ' L ' T L ' T dd' % ' 0 . > =/*' 1 ') - . , ' ? 6 ' 218' D*' 0* /2*0' 6. ' 12*' 8) 1' D*/ *+*. ') . ' 01>, - 2*' -*. . , ' ; =12') . ' .6> - >*' ? D D*. ') . ' . = - , ' 620' ? , 6, *. ') . ' *L6 ? =/*' M 6--6- ' ; $!' ' -+ !' ' !' . % + % X % ( ) *-*' 6-*',) -** .*2. *-' 2' 8) >)' ? *2' 6-*' .1 ? *, ? *. ' >6// *0' ' 0 .0=/>7' 1 '62 ' 1,) *-' =*-. 12d M %X ' -1 ?',) *-. ' . ? =/ ' ? 6 2, 6 2 25' .1 ? *,) 6, ' D*' ? 6 2, 6 2. ' 8 ,) 1 ; ' 62 ' =-1 *.. 12' 1-' =-11 ' 1 ' , ' D* 25' -1 ?') ? % ( ) ; . ; 5 ; . , 2*' 86. ' 6' =-*0*., 26- 62 ' 620' .1' 86. ' < 1) 6 ? ^ ? *0 ' *, ' 21' 12*' . ; ==1. *. ',) 6, ',) *' 12*' 0*- + *0') . ' D*^ / * ' -1 ?',) *' 1,) *-% ', ' .' + *-. ' >1 ? 12') 18 *+*-' , 1' .6 ' 1 ' 621,) *-',) 6, ') *' . ' 62' - 62 ' ,) 626. 62 ' 1> 2C 62 ' *, >% 8) >)', *20. ' , 1' ? ./*60 ' ; 2/*. . ' ' . ' 60 ? ,, *0 ' C 1-' >62' D*' =-1+*0 ' ,) 6, ') *' /*6-2*0') . ' 1= 2 12. ' -1 ?' ,) . ' 1-' ,) 6, ' ? 6. , *-% MK% &) *2' >*-, 6 2' =*-. 12. ' ,) 6, ',) * ') 6+*' % ',) *' + *8. ' 1 ' 621,) *-' 21, ') 18^ *+*-' 12') . ' 6 ; ,) 1- , ' D ; , ' -1 ?') 1/0 25',) *? ', 1' D1' 65-**6D/*I, 1' -*6. 12' 1-', 1' >- =, ; -*' 6 ' ,) *' /6, 12 > ' 620' ? 1. , ' 1,) *-' =) /1. 1=) 6>/ . *>, . ' ,) = ; ,) *-62. ' U ; 25/ 62. ' *, >% MN% X &) *2 ' / 9*' ,) *' 0 . > =/*. ' 1 ' B*^ . ; . ' 620 ' 6. ' , ' . ' . 6 0 ' 1 ' ,) *' ,) 651-*62. ' 620',) *' 60^) *-*2, . ' 1 ' >*-, 6 2' >) ; ->) *. ' ,) *' =-1 *. . ', 1' -*>* +*' ,) *-' . A . , *? ' " ' " ' 1 ',) *' -' ? 6. , *-' 1-') ; ->) ' , 1' 6>_ ; *. >*' 2' 62' ' =. *C0 L , ' 1 - , 1' -*>* +*' 6// ,) 6, ' ,) *') ; ->) ' -*>* +*. % (7*. *',) -**' . *2. *. ' .) 1 ; /0' D*' >6-* ; //E ' 9*=, ' 0 . , 2>, %J7 0*2 ' " " (' ' 9 ' Q % . > = /*. ' 1 ') - . , ' 1-' 6. ' ,) *' =-*' *-', 1' >6// ,) *? . */+*. ' ( )*') ; ->) ' C1 ') - . , J' 6' D10 ' 1 ' 6=^ , . , . ' . 1 ? *, ? *. ' >6// *0' D ',) *' -' 1==12*2, ' ` , 6 ? =D*//C , *. J' 6. . ; ? *0' 6' 0 . , 2>, ' *>>/*. 6. , >6/ 1-562 [6, 12' 6D1 ; ',) *' *6-' QK ' 2' Q Q' ( ) 1 ? 6. ' 6 ? =D*// ? ^ 5-6, *0' -1 ?' -*/620 ' 620' . *, , /*0' 2' & *. , *-2' *22. /^ +62 6' 6. ' 6' ? 2 . , *-' 1 ' ,) *' ' *>*0*-. % J' : *' 86. ' Y>12^ . > *2, 1 ; . ' 60+1>6, *' 1 '-*/ 5 1 ; . ' -* 1-? ' 620' >12, *20*0' 1-' 6' -*. , 1-6, 12' 1 ' ,) *') - . , 62') ; ->) ', 1' 6=1. , 1/ >' =-6>, >*' 620' =-*>*=, % **' / ' O · ! ' 2' Q R') *' 86. ' A1 2*0' D ') . ' . 12' /*L620*-' 8) 1') *6-, / ' . ? =6,) [*0' 8 ,) ') ?' 2') . ' + * 8. ' 1 '-*/ 5 1 ; . ' -* 1-? % **' / ' . ! ( ) *' -. ' =-6>, >6/ ? 1+*? *2, ' 86. ' , 1' 1-?' 6' . ? 6// 6. . 1> 6, 12' 1 ' 0 . > =/*. ' 1-',) *' . =*> 6/ . , ; 0 ' 1 ' ,) *' >- =, ; -*. ' 8 ,) ',) *' =/*05*' ,) 6, ' -*A*>, 25' 6// >-**0. ' 620' >12 *. . 12. ' 1 ' 6 ,) ',) * ' 81 ; /0' . , - >, / ' >12 1-?',) * -'=-6>, >*', 1',) *', *6>) 25. ' 1 ' ,) *' 0 + 2*' & 1-0% ( ) . ' 86. ' 6' =-6>, >6/ . *=6-6, 12' -1 ?' ,) *' * >*01-. J' 620' -*. ; /, *0' 2',) *' 1-56 / [6, 12' 1 ' 6' . ? 6// >125-*56, 12' 2' & 6.) 25, 12' 1; 2, EW 6% ' 9218 2' 6. ' ,) *' -; .) ' ; 2') ; ->) ' *=, % ' Q % ( ) 1 ? 6. ' 6 ? =D*// 86. ' 12*' 1 ',) *' 1- 5 26/ */0*-. ' 1 ',) . ' >12^ 5-*56, 12 ' 620' ; ') . ' .12' /*L620*-' 86. ' -. , ' 1-^ 06 2*0', 1' .) *' ? 2 . , - % ' 86. ' 21, ' /125', // ',) *' _ ; *. ^ , 12' 1 ' D6=, . ? ' *2565*0' .) *' -' 6, , *2, 12 ' 620 ' 6 , *-' 6' ,) 1-1 ; 5) ' 2+*. , 56, 12' 6 ? 125',) *? . */+*. ' .) *' 6,) *-' 620' .12 ' 8 ,)' +*' 1,) *-. ' -*6>) *0' .) *' >12>/ ; . 12',) 6, ' ,) *' >- =, ; -*. ' , 6 ; 5) ',) *' ? ? *-. 12' 1 ' D*/ *+*-. % J' >>1-0 25/ ' 12',) *' K0' 1 ' B ; 2*' Q K ',) *' ' $*-*' ? ^ ? *-. *0' D ' 6' 6=, . ; ' ? 2 . , *-% 2' Q ',) *' ') 60' 27' >-*6. *0', 1' . 1 ? *' / +*' 1-' . L ' >125-*56, 12. ' 8) *2',) *' 6, , 6>) *0',) *? . */+*. ', 1',) *' *0. , 12*' M 6=, . , X' . . 1> 6^ , 12' . , = ; /6, 25') 18 *+*-' 2' ! , (, 25',) 6, ' 21' , *-? . ' 1 ' ; 2 12' 1-' >1 ? ? ; 2 12' 1,) *-',) 62',) *' : 1/ ' >- =, ; -*. ' .) 1 ; /0' D*' -* _ ; . -*0% J' (1' ? 62 ' 1 ',) *' 6=, . , ' =-*6>) ^ *-. ',) . ' ; 2 12' 86. ' 0 . , 6. , * ; /- 12' -1 ?' ,) *' -. , ' 620' , 26// ' -*. . ; /, *0' 2' ,) *' 8 ,) 0-6 8 6/ 1 ',) *' *' >125-*56^ , 12. ' 8) 1' ,) *2' A1 2*0' ,) *' <6) 12 25' M) 1X' . . 1^ > 6, 12 ' 8) >)' ? 1-*' 2*6-/ ' 6>>1-0*0' 8 ,)' ,) *? ' 620' 8) >)' 26// ' D*>6 ? *' ,) 1-1 ; 5) / ' 0*2, *0' 8 ,)' ,) 1' ? 1+*? *2, %

2' QKN /*L620*-' 6 ? =D*// *. , 6D/ .)*0',)=' ') - . ^ , 62' 6=, . , %J' ( ) -1 ; 5) ' ,) . ' ? 12,) / ' 620' . *+*-6/ =; D/ >' 1-6/ 0*D6, *. ' 12' D6=, . ? ' 620' *L, *2. +*' , 1' ; -. ' 1 ' =-*6>) 25') . ' + *8. ' . =-*60' -6= 0/A ' 620' 8 0*/ ' 6 ? 125' ,) *' 6=, . , . % ; ' =*-. 126/ 1==1. , 12' 6, ' /6. ' , 119',) *' 1-?' 1 ' *>>/*. 6. , >6/ 6>, 12 ' 620' 2' QK ',) *' 1+*-' . . 1> 6, 12' 1 ' -5 2 6' 0*>-**0' ,) *' *L>1 ? ? ; 2 >6, 12' -1 ?' 6=, . , ' *//18.) = ' 1 ' 6// 8) 1') *' 0' 620' 60+1>6, *0' ,) 1' + *8. ' 1 ' /*L620*-' 6 ? =D*// ' ( ) . ' 86. ' ,) *' D*^ 5 22 25' 1 ' 6' 5*2*-6/ 6>, 12' 6 ? 125',) *' 6=, . , . T 620' ,) *' * 1-?*-. ' 6. ' ,) * ' 8*-*' >6// *0' 8*-*' >1 ? =*// *0', 1' 6. . 1> 6, *' 2' 6' . *=6-6, *' 1-562 [6, 12 ' 8) >)' -6= 0/E' 2^ >-*6. *0 ' *. =*> 6// ' 2' *2, ; >9 ') 1 ' 20 626 ' // 21 .

< . .1 ; - '620' -5 2 6%) ; ->) *.' 8 *-*' 6/.1' 1-?*0' 2' ,) *' -, . ,)' -1+ 2>*.' 1 ' 1-,)' ?*- >6 ' 2' 25/620 ' & 6/*. ' -*/620 ' 620' ; . ,-6/ 6% ( ) * '6-*' 2>-*6. 25' 2' 6//' ,) *. *' >1 ; 2,- *. ' 620' 2' 25/620' 6-*' -6= 0/ ' D*>1 ?^ 25' 2 ; ? *-1 ; . ' 3 F

/% % ' ! ' ( ) *' .> =/*.' =-1 *. .' ,1' -*A*>,' 6// >-**0.' 620' >12 *.. 12.' 1 ' 6 ,)' 6.' 1 ') ; ^ ?62' 1- 5 2' 620' 0 + . +*' 2' ,) * -' 2 /; *2>*' 620' ,1' ,69 *' ,) *' : 1/ ' >- =, ; -*. ' 620' ,) *. *' 6/12* ' 6. ' ,) *' 12/ ' 6 ; ^ ,) 1 - ,)' 2' 6 ,)' 620' =-6>, >*' D 20 25' ; =12')- . , 62. % ' 6 ,)' 2' ,) *' ,*. , ?12 ' 1 ' 410' 620' 1D*0 *2>*' ,1' ,) *' >1 ? ?620 ? *2,.' 1 ')- . ,' 6-*' ,) *' 12/ ' D120' 1 ' ; 2 12 J' ( ) *' . ; D , /*' .=*>; /6, 12.' 1 ' ,) *1/15 ' 6-*' 21,', 1' D*' 1-> *0' ; =12' ,) *' 6 ,) ' 1-' >12.> *2>*' 1 ')- . , 62. ' 620' D/*' ,) *? *.' 6-*', 1' D*' =-*. *2, *0' 2' D/*', *-? . % 1-' 1DA*>, ^ 25', 1' ? 62 ' 1 ' ,) *' ,*-?.' 1 ' ,) *1/15 ' . ; >)' 6.' ,- 2 ^ , J' *, *-26// ' D*51, , *2 J' 11C*. . *2, 6/ J' 620' >12C . ; D . ,62, 6/ J' ,) * ') 6+*' D***2' D 1 . 2*0' 8 ,)' D* 25' ' $2 , 6- 62. %J' ; ' 12',) . ' . ; DA*>, ' ,) *-*' . ' 218' =*-) 6=. ' 21' -*. =*>, 6D/*' 01 ; D , ' 1 ' ,) * -' *2, -*' 1-,) 1^ 01L %J' ( ) * ' D-*69' ,) *' /16 ' 2' >1 ? ?*? 1-6, 12' 1 ' ,) *' .6 >- >*' 1 ' ,) *' 6+ 1 ; -' *+*- ' -. , ' 06 ' 1 ' ,) *' 8**9% ( ) . ' =-6 >, >*' ,) * ' >12, *20') 6 . ' ,) *' 8 6 --62, ' 1 ' 6 =1. , 1/ >' *L6 ? =/*' 620' . ' ,) *-* 1-*' 1 ' 0 + 2*' 1D/ 56^ , 12% ' , ' . ' >/6 ? *0' ,) 6, ' , ' 8 6. ' ,) *' >) * ' 1DA*>, ' 1 ' ,) *' ? **, 25. ' 1 ' ,) *' -. ') - . , 62. ' 12' ,) *' 1-0 . ' 06 ' 620' , . ' =*>; / 6-' .62>, >6, 12% ( ) * ') 1/0' ,) 6, ' 6 ,) ' 620' -*=*2,62>*' 6-*' ,) *' 0 + 2 / C6==1 2, *0' 62, *>*0*2, . ' , 1' D6=, . ? ' 620' ,) 6, ' , ' . ' ,) *' =- + /*5*' 620' ,) *' 0 ; , ' 1 ' ,) *') - . , 62' ? 2 . , *-' , 1' . 6 ' , 1' 6// 8) 1' D*/ *+*' 620' -*=*2, ' ' *' ? ? *-. *0' *+*- ' 12*' 1 ' 1 ; ' 2' ,) *' ; 7 ? *' 1 ' ,) *' 1-0' B*. ; . ')- . , ' 1-' ,) *' -*? . . 12' 1 ' . -/. ' 620' 1 ; ' .) 6// -*>* +*' ,) *' 5 , ' 1 ' ,) *' : 1/ ' = - , %J' ( ) * ' 6-*' >125-*56 126/ 2' ,) * -' 1-562 [6, 12 ' 620' -*>152 . *' ,) -**' >/6 . .*. ' 1 ' 1 >*-. d ' *0*-. ' =-*. D , *-. ' 1-' D .) ^ 1=. 1' K ' 0*6>12. 1' N ' *+625*/ . , . % ( ) *. *' /6. , ' >12. , ^ , ; , *' ,) *' , 2*-6, 25' ? 2 . , - ' 1-',) *' ? . . 126- *. ' 1 ' ,) *') ; ->) ' 620' 6-*' . ; ==1-, *0' D ' +1/ ; 2, 6-A' >12, - D ; , 12. % ( ) *' .> =/*. ' 6>9218/*05*',) *' 1D/ 56, 12', 1' =-1+ 0*' 1-' ,) *' =-*6>) 25' 1 ' ,) *' 41. =*/ , 1' D*' 1 ' ,) *') 5) *. , '9 20 ' 620' 6-*' +*- ' 6>, +*' 2' *+625*/ >6/ /6D1-% 2' _ ; *. , 12. ' 1 '. =*>; /6, +*' 1= 2 12',) * ' 6//18',) *' 8 0*. , '0 *-*2*>. ' D ; , ' >12, *20' *6-2*. , / ' 1-',) *' ; 2 , ' 1 ' 6' =-6>, >6/ 6>^ 9218/*05? *2, ' $' 12*' 6 ,) ' 12*' 1-0 ' 12*' ? ? *-. 12 ' 12*') 1=*' 12*' D10 ' 12*' .= - , ' 12*' 410' 620' 6,) *-' 1 ' 6//% 2' ,) *' . ; DA*>, . ' 1 ' ,) *' 6,12*? *2, ' ,) *' -*. ; --*>^ , 12 ' 620' ,) *' ; , ; -*' A ; 05? *2, ' ,) * ' D1/0' ,) *' >1 ? ? 12' o 6 ,)' 1 ' *+625*/ >6/) - . , 62. %

% ( ) *' .> =/*.' 6-*' 218' *. , ?6, *0' 6. ' 6D1 ; . ' R 2' 2 ; ? D*-. % ( ) * ' 6-*' 0 . , 25 ; .) *0' 1-', 7P>-' 2, *-*. . ' 2' *0 ; >6, 12' 620') 6+*' 6' /6-5*' 2 ; ? D*-' 1 ' 6>60*? *. ' 620' . *? 26- *. ' 620' . *+*-6/ >1// *5*. ' 1 ') 5) ' . , 620 25% ? 125',) *. *' ,) *' ? 1. , ' =-1 ? 2*2, ' 6-*' *,) 62 ' 1/^ /*5*' 1 ; 20*0' D ' % 6 ? =D*// ' 620' =-*. 0*0' 1+*-' D ') ? ' ; 2, /) . ' 0 *6,) ' *2, ; >9 ' $2 +*-. , ' 620' ,) *' 1-,) C8 *. , *-2') - . , 62' $2 +*-. , ' 6, ' 20 626=1/ . ' ; -*96' 1//*5*' // 21 . ' 620' : -6 ? ' 1//*5*') 1% ( ) * ') 6+*' K ' =*- 10 >6/. ' + [% R' 8**9/ *. ' ' ? 12,) ^ / *. ' 620' ' _ ; 6-, *-/ % ' ,) *. *' ' M ? 12,) / * . X' 6-*' =; D/ .) *0 ' 12*' 2' 4-*6, ' - , 6 2' 620' 12*' 2' 62606 ' 6//' ,) *' -*. , ' 2' ,) *' $2 , *0' , 6, *. % ( ) *' ? 1. , ' -*=-*^ .*2, 6, +*' 1 ' ,) *' /6, , *-' 6-*' ( ) *' < //*22 6/' : 6-D 25*-' M ? 12,) / X' *,) 62 T' <% 6-0 . ' # ; 6-, *-/ ' *L^ 25, 12' %T ( ) *' *+ *8 ' 2> 226, ') 1 ' 620' ( ) *' , 6206-0T /*+*/620 ') 1' M 8**9/ *. X%

! ' % ( ) *' 8- , 25. ' 1 ' /*L620*-' 6? =^ D*// M. **' 6-, %XT K% ( ) *')- . , 62' 6=, . , ' ' +1/. %T NC ( ) *' < //*22 6/' : 6-D 25*-' NQ +1/. d % B*, *-' %=' " N ' L ; (8V2*0M % % K ? 1X' 620' 6-0 . ' 5 ' ' D :' % < >46-+* . ' 1 ' 11 :' S% < // ^ 562 ' @ "' ' 5 :' % 6 ? 6- ' % :' Q% " ' 5 1' B62% Q S' =% Q ' T 9 ' 5 1' Q ' =% QNT & ' ; ! ' 5 % ' KO' .*- *. ' ' R ' KR T ' K

.> =/*.' 1 ' B1) 2% ** ' ' ' ! (' !

.> =/ 2*' M 6, % %2 ' ' 83 ' 6', *- ?' ; . *0' *>>/*. 6. , >6// ' , 1' 0*21, *' ,) *' 6==/ >6, 12 ' 2' ,) *') - ., 62') ; ->) ' 1 ' - ; /*. ' 1-' ,) *' 1-0*-' 620' = ; - , ' 1 ' ,) *' / +*. ' 1 ' , .' ? *? D*-. T 6/. 1' ,) *' D10 ' 1 ' - ; /*. ' 1-' ,) *' 51+*-2? *2, ' 81-.) = ' *, % 1 ' 62 ' =6-, >^ ; /6-') ; ->) ' *26>, *0' D ' , .' 6 ' ; ,) 1- , ' 620' 5*2*-6// ' = ; D/ .) *0' 2' 6' ' 119' 1 ' .> =/ 2*%J

% " "' ' % ! ' M %X ' " '6 ' " "! ( ) *' -. , ' - ; /*' 1 ' 0 .> =/ 2*' 2' ,) *' % (% .' 5 +*2' 2' < 6, , ' L+ ' C d ' < 1-*1+*-' ' ,) 'D-1,) *-' .) 6// , -*. =6. . ' 656 2. , ' ,) **' 51' 620' , *//) ?') . ' 6 ; /, ' D*, 8**2' ,) **' 620') ?' 6/12*d ') *' .) 6//) *6-' ,) **' ,) 1 ; ') 6. , ' 56 2*0' ,) ' D-1,) *-% ; ' ') *' 8 // 21, ') *6-' ,) **' ,) *2' , 69 *' 8 ,)' ,) **' 12*' 1-' , 81' ?1-*' ,) 6, ' 2' ,) *' ?1 ; ,) ' 1 ' , 8S' 1-' ,) -**' 8 , 2*. . *. ' *+*- ' 81-0' ?6 ' D*' *. , 6D/ .) *0% 20' ') *' .) 6// 2*5/*>, ' , 1') *6-' ,) *? ' , */// , ' ; 2, 1' ,) *') ; ->) T D ; , ' ') *' 2*5/*>, ' , 1') *6-' ,) *') ; ->) ' /*, ') ?' D*' ; 2, 1' ,) **' 6. ' 6') *6,) *2' ? 62' 620' 6' = ; D/ >62% J' : *-*' ,) *' 6->' M X' ,) *' -* 1-? 6, 12' 1 ' ,) *' 1 *20*-T 620' ,) 6, ' 6 / 25' MKX' ,) *' =; - >6, 12' 1 ' ,) *') ; ->) % ( ) *' " ' . ' M6X' ,) 6, ' ,) *' 1 *20*0' =*-. 12' , 69 *. ' ,) *' -. , % . , *=' 620' ,) 6, ' 6 / 25' M X' 6' . ? 6//) ; ->) ' >1 ? ? ,, **' 6>, . T 620' 2' >6. *' 1 ' ,) *' -' 6 / ; -*' M>X' ,) *') ; ->) ' . ' >6// *0' 2' 620' ,) *' 1D. , 26, *' 1 *20*-' . ' >; , ' 1 7 -1 ?' *//18.) =%

( ) *' % '0 .> =/ 2*' . ' //; . , -6, *0' D ' ,) *' >6. *' 1 ' ,) *' 2>*. , ; 1 ; . ' =*-. 12' M ' 1-% + ' C X% : *-*' 6 ; / *L>1 ? ? ; 2 >6, *. ' ,) *' 1 *20*-' M X' +*-. -*' N ' . , 6, 25') . ' 3 182' A ; 0VB ? *2, ' >12>*-2 25' ,) *' 1 *2>*' 620' , . ' =*-=*^ , -6, 1-' T MKX' +*-. *' ' . , 6, 25',) 6, ') *' 6>, . ' 2',) *' 26 ? *' 1 ' 1 ; -' 1-0' B*. ; . ') - . , TJ' 620 ' MNX' 6 . . 1> 6, 25' 8 ,)') ? . *' / ' ,) *' 8) 1/*' D10 ' 1 ' ,) *' 1- 2,) 62') ; ->) ' 6>, ^ 25' 6/. 1' 8 ,)' ,) *' =18*-' 1 ' 1 ; -' 1-0' B*. ; . ') - . , %J' M 1 ? =6-*' & *, , *' 620' , 62/*' 2' /1>% T >) 6) / ' &% ' " "' g KKT 1/*? 62 ' &% ' ' 9 ' " "' >) 6=% +X% 2' +0-. *' K') *' ? =/ *. ' ,) 6, ' ,) *' ' A ; 05? *27J' / *. ' 8 ,)' ,) *') ; ->) ' ' 1') 1, ' *' A ; 05*' ,) *' ? ' ,) 6, ' 6-*' 8 ,) 2HJ' : *' *2A1 2. ' . , . *=6-6, 12' -1 ? ' ? ? 1-6/ =-1 *. . 1-. ' 1 ' -*/ 5 12d' +*-. *' ' ; ' 218' ') 6+*' 8 - , *2' ; 2, 1' 1 ; ' 21, ' , 1' 9**=' >1 ? =62 ' ' 62 ' ? 62' ,) 6, ' .' >6// *0' 6' D-1,) *-' D*' 6' 1-2 >6, 1-' 1-' >1+*, 1 ; . ' 1-' 62' 01/6, *-' 1-' 6' -6 *-' 1-' 6' 0- ; 2>6, 0-' 1-' 62C*L, 1-, 12*-d 8 ,)' . , >)' 6' 12*' 21' 21, ' , 1' *6, % I 2' ,) *' >6. *' 1 ' ,) *' 2>*. , ; 1 ; . ' =*-. 12' ,) 1' *L*-> . *' 1 ' 0 .> =/ 2*' D-1 ; 5) , ' =*2 , *2>*T 620' ,) *' 6=1. , /*' MK' 1-% X' *L) 1-, . ' ,) *') ; ->) ' , 1' 1-5 +*' 620' >1? 1-') ? J' 620' -*. , 1-*') ?' , 1' *//18.) =% 2' ,) *' 6=1. , 1/ >6/ 0 .> =/ 2*' D1,) ' 6. ' , 1' 01>, - 2*' ?0' ?1-6/. ' >1 ? =6-*' 6/ : 1' K' ( ) *. . % ' ' T ' (?% ' K T K' B1) 2 ' RC d ' : *' ,) 6, ' 6D 0*,) ' 2' ,) *' 01>, - 2*' 1 ') - . , ') 1' D6,) ' D1,) ' ,) *' 6,) *-' 620' ,) *' 12% ' ,) *-*' >1 ? *' 62 ' ; 2, 1' 1 ; ' 620' D- 25' 21, ' ,) . ' 01>, - 2*' -*>* +*') ?' 21, ' 2, 1' 1 ; -') 1) ; . *' 2*' ,) *-') 0') ?' 410' . =**0' 1-') *' ,) 6, ' D 00*,) ') ?' 410' . =**0' . ' =6-, 69*-' 1 / . ' *+ / 0**0. J' ( ) 1' *L*-> . *' 1 ' 0 .> =/ 2*' M X' D ' -*=-11 ' MKX' D ' >*2. ; -*' MNX' D ' *L>1 ? ? ; 2 >6, 12 ' 86. ' 9*=. ' 2' ,) *') 620. ' 1 ' ,) *') ; ->) ' 6. ' 6' 8) 1/*' M21, ' 1 ' 62 ' . =*^ > 6/ >/6. . ' 1-' 1-0*-' 2' ,) *') ; ->) X' 0 ; - 25' , . ' *6-/ *. ' 620' D*. , ' 65*. % **' 6' . ; ? ? 25' ; =' 1 ' ,) *' *+ 0*2>*' 12' ,) . ' =1 2, ' 2' 1/*? 62 ' &% ' ' ' " "' >) 6=% +% ' ( ) *' =- ? , +*') ; ->) ' 2*+*-' =-*, *720=0', 1' *L*-> . *' 0 .> =/ 2*' ; =12' 62 ' D ; . ' . ; >) ' 6. ' 8*-*' 8 ,) 2') *-' =6/*' 2' ,) *' /6-5*. ' . *2. *' D ' . 1 ? *' 6>, ' 1 ' ,) *' -' 182' =-1 *.. 12' 620' *+*2' ; =12, ,) *. *' .) *' 2*+*-' =-*, *20*0' , 1' *L*-> . *') *-' 0 .> =/ 2*' .1' 6-' 6. ' , 1' >62>*/ 1-' 0 .62^ 2 ; / ,) *-' D6=, . ? % ' ; ' ,) *' 0 .> =/ 2*' 1 ' ,) *') ; ->) ' >12. . , *0' 2' 6' =18*-' , 1' 0*=-+*' ? *2' 1 ' ,) *' D*2* , ' 1 ' *L, *-26/ >1 ? ? ; 2 12' . ; >) ' 6. ' =; D/ >' =-6 *-' -*>* + 25' ,) *' ; >) 6- . , ' 620' 1,) *-' 6>, . ' 1 ' 0 + 2*' 81-.) =% ( ) . ' =18*-' D* 1-*' ,) *' *. , 6D/ .) ? *2, ' 1 ' ,) *') ; ->) ' D ') ; ^ ? 62' /68. ' 86. ' 6' ? *-*' . = - , ; 6/' 6 ; ,) 1- , ' 1 ' 6. ' , % =- 62', *-? . ') ' 6' , . = - , ; 6/' . 81-0 ' 6 *>, 25',) *' .1 ; / 620' 21, ' ,) *' D10 7' M : 119 ' " "' ' ' .% + %X% 2' ,) *' .1C>6// *0' ' % ' 1 ' ,) *' 62> *2, ') ; ->) ' .** ' / !

.' , 1' ,) *' *L*-> . *' 1 ' 0 .> =/ 2*' , . ' . ** ? . 7/*6-' ,) 6, ' ,) *' 6>, 12' 1 ' ,) *' /6 , ' 86. ' -*_ ; . , *' 6. ' /6, *' 6. ' ,) 1' ? 00

0 *' 1 ',) *' ,) -0'>*2,; - ' 2' 6//' 0 .> =/ 26- '=-1>**0 25.' 1 ',) *') ;->)¼ ',) *' D*5 22 25' 1 ',) *' 1 ;-,)' >*2^ ,;- ')18*+*-' ,) .' >6-0 26/ - 5), ',)-1 ;5)' ,) *' 1=*-6^ , 12' 1 '>6; .*.' 8) >)')6+*' D**2' D- *0 ' ?*2, 12*0 '620' 8) >)' ?6 'D1' ?1-*' ;// '.=*> *0')*-*6 ,*-' 86.'5-*6,^ / ' 6D- 05*0 '620' .)1-,/ ' 86.' 8)1// ' /1.,¼ () .' 6>, //;.,-6,*.' ,) *' =-15-*..' 1 ' ,) *' *>>/*. 6., >6/) *-6-^ >) ' &) /*' ,) *' - 5),' 1 ',) *' /6 , ' .' *,' ;20 ..=:,,*0 ' ,) *' =18*-' 1 ',) *' D .)1=' D*5 2.' 6,' -.,' ,1' D*' =6-, 6// ' 6..*-,*0'620' 1>>6. 126// '60? .,*0 ' ,) *' =*1=/*' 1>>;= ^ 25' 6' 2*;,-6/' =1. , 12' D*,8**2' .)D? .. 12' 620' 1=*2')1.,/ , ¼ ;,' -1?'0 . ;.*',1' 0*2 6/' 620' -1?'0*2 6/' 620' ,1' *L, 2>, 12' 1 '2*5/*>,*0' =- + /*5*.' 620' =18*-.' ,) *' 0*.>*2,' .' 26,;-6/' .)1-,' 620' -6= 0¼ -1?' 6D1;',) *' ? 00/*' 1 ',) *' 1;-,)' >*2,;- '6>>1-0 25/ ',) *' D .)1=.' 6..;?*0',) *' >12,-1/ 1 ',) *' 8)1/*' =*26/ ;- .0 >, 12' 1 ',) *' /6 , '1=*2 25' 620' .);,, 25' 6,' =/*6.;-*',) *' 011-.' 1 ',) *');->) ' 2 / >, 25' .*2,*2>*' 1 '*L>1? ? ;2 >6, 12' 620' =-*.>- D 25' 6,',) * -' 0 .>-*, 12',) *' 6;.,*-, *.' 1 '=*262>*' 620' 656 2' 6D.1/+ 25',) *' =*2 ,*2,.' 620' -*^ .,1- 25',) *?' ,1',) *');->)' D ',) * -' 182' 6-D,-6/IE7 =18*-.¼ () *' =*1=/*' 6>>1-0 25/ ' 21' /125*-')6+ 25' 62 '=6-,' 2',) *' ,- 6/' 1 ' 1 *2>*.' >*6.*0',1' 86,>)' 1-' ,) *' =;- , ' 1 ',) *');->) ' >122 +*0' 6,' 1 *2>*. ' 620' >12>*6/*0',) *' 1 *20*-' 21,'>6- 25',1' 2,*- *-*' 8 ,)',) *' =-*-156, +*' 1 ',) *' D .)1=' 2' 8) >)',) * ')60' 21' ;-,) *-' 2,*-*.,¼ () *' .=**0 '620' .60' >1--;=, 12' 1 ',) *');->) ' 86.' D;',) *' 26,;-6/' >12.*_;*2>*' 1 ',) .' /11.*' 620' 6-C D ,-6-A'0 .> =/ 2*¼ 1-' 8 6.',' ,1' D*' 01;D,*0',) 6,',) .' 86.' 12*' * > *2,'>6;.*' 1 ',) 6,' 0*5*2*-6> ' 8/ >)' .;>^ >**0*0I ' M 1/*?62' &% ' ' " "' >)6=' +X¼ ' ( ) .' ,-62. , 12' >)625*0' *..*2, 6// ' ,) *' -*/6, 12.' 1 ',) *' 1 >*-.',1',) *' ?*?D*-.' 1 ',) *' D;->)' 620',) *' >120 , 12.' 1 ');->)' L2*?D*-.D =¼ () *' 1 ^ >*-.' 1 ',) *');->) ' 2.,*60' 1 '-*>* + 25' 6;,) 1-, '620' 1 >*' -1?',) 6,' D10 ' 1-',) * -'.*-+ >*' >/6 ?' 6;,) 1-, ' 620' >1?' .. 12' -1?' 410' 1-',) *' *L*-> .*' 1 ',) *' ;2>, 12.¼ () *' '6-*' 218',) *'-;/* I.' 21,',) *' .*-+62,.' 6.' 6,' ,) *' D*5 22 25',) *' 8*-*' 1 ',) *');->)¼ ' ;2 12' 8 ,)' ,) *');->)' D ' 6' =;D/ >' =-1 *.. 12' .' 6' ,-62.6>, 12' 21,' .1' ?;>)' D*,8**2',) *');->)' 620' ,) *' =-1 *.. 25')- ., 62' 6.' D*,8**2') ?' 620',) *' D .)1=¼ () *' >12,-6>, 25' >1+*262, 25' =6-, *.' 6-*',) *' D.)1=' 620',) *' D*/ *+*-¼ () *' .1+*-* 52' 6;,)1- , '1' ,) *' D;->)' .' ?*-5*0' 620' /1.,' 2' ,) 6,' 1',) *' =- *.,^)110¼ >>/*. 6., >6/ 0 .> =/ 2** 26,;-6// '-*.1/+*.',^ .*/' 2,1' 6' . .,*?' 1 '=*262>*' 60? 2 .,*-*0' D ',) *' =- *.,)110' 2' 8)1?' 6/12** 6;,)1- , ' .'+*.,*0' 1-',) *' =;2 .) ?*2,' 1 '1 *2>*.J' M 1/*?62' & ' " ' %' >)6=' LL X ¼ ' " ' '& ' ' ' " '5 ' " "' ,) *' . .,*?' 1 '% ' % ' 1-',) *' ,-*6,?*2,' 1 ' =*-.12.' >12 *.. 25',) *' . 2' 5-*8' ;=' 2-,1' ;// =-1=1-^ , 12.¼ 5**' + 'g + ' / I' 2' ,) *' 1?62');->) ' 620' 6?125' .1?*' -1,*.,62,' 8- ,^ *-. ',) *' 81-0' 0 .> =/ 2*7' .,620 25' 6/12*' ?=/ *.' 12/ ' =*2 ,*2, 6/' 620' 21,'=;2 , +*' 0 .> =/ 2*¼ ' " ' ' " "!' ()*' *L*->.*' 1 ' =;2 ^ , +*' 0 .> =/ 2*' 2' ,) *' ?10*-2');->)' .' 1;20',1' D*' ?=1.. D/*' 1-' 2*6-/ ' .1' 2' .,6,*' >);->)*.¼ 2' ,) *');->)' 1 ' 25/620' 620',) *' -1,*.,62,',6,*' >);->)*.' 1 ' 12' ,) *' 12, 2*2,' 1 ' ;-1=*' ,' .' 6/?1.,' ;2921828 &) *-*' >, [*2.' 6.' .;>) ' 6-*' % ' ');->)' ?*?^ D*-.',1'=;2 .)',) *');->)' ?*?D*-.',1'6 *>,'6'?62.' >, [*2.) =¼ 3 2' ,) *' 1,) *-') 620' 2' -*** >);->)*.' 8) *,) *-' 2' ;-1=*' 1-' ?*- >6' 0 .> =/ 2** D ' -*=-11 ' >*2.;-*' .;.=*2. 12' 1-' *L>1? ?;2 >6, 12' .' 21,' 12/ ' =1.. D/*');,' .'6>,;6// '=-6>, >*0' +*-.' 5*2*-6// ¼ () *' 1/18^ 25' =6..65*' >12,6 2.' =- 2> =/*.' 12' 8) >)',) *' -**' -1,*.,62,' >);->)*.' 1 '?10*?')- .,*201?' 5*2*-6// ' 6>,' 8 ,)' -*56-0',1' 0 .> =/ 2*¼ ' 410/ '0 .> =/ 2**)6.' *+*-' D**2' -*56-0*0' 6.' 12**' 1 ',) *' 21,*.' 1-' ?6-9.' 1 '6',-;**);->) ' ;-' -1,*.,62,' 1-* 6,)*-.' >)6-5*0',) *');->)' 1 ' 1?** 8 ,)' D* 25' 5-*6,/ '862, 25' 2',) .' 620' .>6->*' 0*.*-+ 25',) *' 26?** 1 ' D;->)'7 '-*6.12' 1 '.;>)' 862,¼ .> =/ 2**-*/6,*.' ,1',) *' /68.' 1 '62 ' .1> *, '620',) *' =*26/, *.' 1 '0 .1D*^ 0 *2>*¼ // 2.,,;., 12.' ? ;.,')6+*' /68.' 2' 1-0*-' ,1' 5110' 51+*-2?*2,¼)- .,.' 9 2501?')6.' ,.' /68.' 620' =*26/, *.¼ <62 '1 ',) *' ?' 8*-*' *L=-*../ '6==1 2,*0' D ')- .,') ?.*/¼ ,) *-.' 2' >12 1-? , '8 ,)',) *' .6?*')6+*' -1?' , ?*',1',, ?*' D**2' 600*0' D ' ,) *');->)¼ (1' 1D* ',) *' =18*-.' 1-06 2*0' 1 '410' 8) *,) *-' > + / 1-' *>>/*. 6., >6/' 8)*2' *L*-> .*0' 6>>1-0 25',1' D .' -*+*6/^ *0' 8 //' .' 6' D1;20*2' 0;,, ¼ < 2 .,*-.' 6,',) *' , ?*' 1 ',) *' -' 1-0 26, 12' =-1? .*' 6 ,) ;/ 1D*0 *2>*' ,1' ,) 1.*' 8) 1' 6-*' =/6>*0' 1+*-',) *? '620' 8) 1' *L*-> .*',) *' -' 6;^ ,) 1- , '6>>1-0 25',1' =-1.>- D*0' -;/*.¼ ' - ;*' -*.=*>,' 6/.1' .' -*_; -*0',1',) * -' 510/ '60?12 , 12.' 620' A;05^ ?*2.¼ () .' 1D*0 *2>*' 620' -*.=*>,' 6-*',1' D*' .)182' 21,' ?*-*/ ',1',) 1.*' 8 ,)' 8)1?' 8*' ?6 '65-*** 2' .*2^ , ?*2,'1-' .A(2=6,) [*' 2',) *1/15 >6/+ *8 .' D;,',1',) 1.*' 6/.1' -1?' 8)1?' 8*' 0 *-' 620',) .' ?6 ') *' 012*' 8 ,)^ 1;,' 62 ' ?=-1=*-' .6>- >*' 1 ')- ., 62' / D*-, '1-' - 5),' 1 '=- +6,*' A;05?*2,¼ .',1',) *' -;/*.' 620' -*5;/6, 12.' 1 ',) *');->) ' 8)*,) *-',) *' 1D.*-+62>*') *' .=*> 6// ' -*_; -*0' D ' -;/*-.' 1-' 21,',) *' ,-;*')- ., 62' 8 //) 1/0') ?.*/ ') 1;20',1' -*20*-',¼ : *' 8 // 21,' .*/*>,',.;>)'1 ',) *?' 6.') *' ?1.,' 6==-1+*.' 1-' 6.' ?1.,' 6>>1-0' 8 ,)') .' 2>*' 410') ?.*/ ' =-* *-- 25' ?*-> ' ,1' &6>- >*' 6/^ /18.' *+*2') .')1/E7 6DD6,)',1')*' + 1/6,*0' .' ,1' ,.' /*,,*-' 620' .6>- >*.' 620' 1 *- 25.',1') *' 8 ,)'00' .1' 6' 8 .*' 0 .>-*, 12')6.' *+*-' D**2' >12>*0*0',1' 410.' ? 2 .,*-.' 2' ,) *' 1D.*-+62>*' 1 ' 2 *- 1-' -;/*.' 1-' 2' -*56-0',1' ,) 25.' D*>1?*' 1D.1/*,*') 6+ 25' 0;*' -* *-^ *2>*' ,1',?*.' =/6>*.' 620' > ->;?.,62>*.¼ &) *-*+*-' .;>)' 0 .>-*, 12')6.' 21,' D**2' 6//18*0' 1-' *L*-> .*0',) *' -*.;/,')6.' D**2',) 6,' ?*2') 6+*' ,.-6 2*0' 6,' ,) *' 526,' 620' .86//18*0',) *' >6?*/')6+*' ,,) *0' ? 2,' 62 .*' 620' >;? ? 2' 620' 2*5/*>,*0',) *' 8* 5), *-' ?6,,*-.' 1 ',) *' /68¼ ,' .)1;/0' 6/86 .') *' -*?*?D*-*0',) 6,' 6.',) *' 6DD6,)' 86.' ?60*' 1-' ?62' 620' 21,' ?62' 1-',) *' 6DD6,)' .1' -;D- >.' 620' >6212.' 8*-*' ?60*' 1-',) *');->)' 620',) *' 21,',) *');->)' 1-',) *?J' M .)1=' <*60*' - ' " " (&J 2' -*.D ,*- 62' >);->)*.' 0 .> =/ 2*' .' L*-> .*0' D ',) *' *.. 12' M ¼ +¼X' 62' 6==*6/' AO25',1',) *' -*.D ,*- ¼ 620',) *2>*',1' A210' 620' 4*2*-6/' ..*?D/ ¼ 2',) *C 1-?' 1 ' 41+*-2?*2,J' 1 ',) *' -*.D ,*- 62');->)C 2',) *' $2 ,*0' ,6,*.' 1 ' ?*- >6' MD119' X',) *' 5*2*-6/' =- 2> =/*.' 1 '0 .> =/ 2*' 6-*' /6 0' 0182' 6.' 1/18.¼ .> =/ 2*' .',) *' L*-> .*' 1 ',) 6,',) 1- , '620',) *' 6=^ =/ >6, 12' 1 ',) 6,'. .,*?' 1 '/68.' 8) >)',) *' 1-0' B*.;.')- .,') 6.' 6==1 2,*0' 2') .');->)¼ ()*' *L*-> .*' 1 '0 .> =/ 2*' .') 5)/ ' ?=1-,62,' 620' 2*>*..6 ¼ ,.' *20.' 6-*',) *' -*?1+6/' 1 '1 *2>*.' ,) *' + 20 >6, 12' 1 ',) *')121-' 1 ')- .,' ,) *' =-1?1, 12' 1 ',) *' =;- ,¼' 620¼ 5*2*-6/' *0 >6, 12' 1 ',) *');->)' 620' 6/.1' ,) *' D*2*^ ,' 1 ',) *' 1 *20*-') ?.*/¼ 2' 1 *2>*' .' 62 ^ ,) 25' 2' ,) *' =- 2> =/*.' 1-' =-6>, >*' 1 ',) *');->)' ?*?^ D*-' 8) >)' .' >12,-6- ',1',) *' 81-0' 1 '410' 1-' 8) >) ' ,' D*' 21,' 2' ,.' 182' 26,;-*' . 2 ;/ ?6 ',*?=,' 1,)*-.' ,1' . 2' 1-' ?6-',) *' -' .= - ,;6/*0 >6, 12¼ 1,)^ 25',) *-* 1-*' 1;5),' ,1' D*' >12. 0*-*0' D ' 62 'A;0 >6^ ,1- '6.' 62' 1 *2>*' 1-' 60? ,,*0' 6.' ?6,,*-' 1 '6>>;.6, 12' 8) >)' >6221,') *' =-1+*0',1' D1' .;>)' -1?' >- =,;-*' 1-' -1?' ,) *' -*5;/6, 12.' 620' =-6>, >*' 1 ',) *');->) ' 1;20*0' 12' >- =,;-*' 620' 8) >)' 01*.' 21,' 2+1/+*',) 1.*' *+ /.' 8) >)' 0 .> =/ 2*' .' 2,*20*0',1' =-*+*2,¼ ()*' *L*-> .*' 1 '0 .> =/ 2*' 2' .;>)' 6' ?622*-' 6.',1' *0 ',) *' D;,' 6/.1' ?;>)' =-;0*2>*' 620' 0 .>-*, 12¼ ,' D*>1?*.' ,) *' -;/*-.' 1 ',) *');->) ' ,) *-* 1-*' 1',1' ,69*' 2,1' + *8' 6// ,) *' > ->;?.,62>*.' 8) _?' 6 '5 +*' 6' 0 *-*2,'>)6-^ 6>,*-',1' >120;>,' 620' -*20*-' ,' ?1-*' 1-' /.' 1 *2.+*' 620' 8) >)' ?6 ' 1 ' >1;-.*' -*_; -*' 6' +*- ' 0 *-*2,' ?10*' 1 '=-1>**0 25' 2' . ?/6-'>6.*.' 6,' 0 *-*2,' ,?*.' 1-',) *' 6,) 2?*2,' 1 ',) *' .6?*' *20¼ // D6=, [*0' =*-.12.' 6-*' ?*?D*-.' 1 ',) *' 4) ;->) ' 6-*' ;20*-' ,'>6-*

=*-)6=.' 12' 6>>1;2,' 1 ' .1?*' >1?=-1? .*' D*,8**2',)*' 1=*.' =- 0*' 620',)*' 9 20 .')121-T D;,' ,' .'-*>1-0*0' 2' 6' 8- .,,*2' =-1>*..' 1 ',)*' >*-*?12 6/% 2' 6>>1;2,' 1 ',)*' 0 .> =/ 2*' ;20*-512*' D ' : *2- ' ' 6 ,*-' ,)*' ? ;-0*-' 1 ' *>9*,' .' 5 +*2' D ' <6,,)*8' 6- .' M C 512 ; . ' ' 5% !D !' L LT' ;' 2 ' L ' $:' 1 /*6; ' # ' ' 6 4 % ' % 1 :'

. * ; .' M6 (\>1*' 6' 4 E' 12*' 1 ',)*' *L*-> .*.' 2' ,)*' 4-*> 62' 5 ?26. 6 ' 8) >)' B6.12 ',)*') 5)C=- *. ,' 2,-10 ;>*0'6?125,)*' B*8 .' 2',)*' , ?*' 1 ' 2, 1>) ; .' = =)62*.' MK' <6>>%' + ' RX' 620' 8) >)')*' 20 ;>*0' *+*2',)*' =- *.,.' ,1' =-6>, .*' MK' <6>>' + ' X% ()*'0 .>;.' 86.' 6' > ->;/6-' =/6,*' 1 ' .,12*' 1-' ?*,6/' ?60*' 1-',)-18 25',1' 6'0 .^ ,62>*' 6.' 62' *L*-> .*' 1 ' .,-*25,)' 620' 0*L^ ,*- , ' M ;> 62 ' & =' " !' K X% ,' 86.' 20**0' 12*' 1 ' ,)*' =- 2> =6/' 5 ?26.,>' *L*-> .*.' 1 ' ,)*' 4-**9.' 620' 86.' =-6>, .*0' 2',)*')*^ -1>' 65*' M : 1?*-.' ' ,;,; ,'>' ;' ' (' M0 .9C,)-18*-X ;',)*' - , .)' < ;.*;?% LLL ' QNR' ._%T ' T' , !' + ¯ KR QQX% 1-' 0*,6 /. ' .**' ? ,) .' ' ' ' !' & 4!' .% M T' <*->;- 6/% ' ' ' ' ' KT' -6; .*' ? 9 !' !' 2 ' ' ' ._% **' & !

. * 6 . *' M=-1=*-/ ' + +(1' +111 X% .^ *6.*.' 6-*' 21,' ;2 -*_;*2,/ '6//;0*0',1' 2',)*' /0' (*.C ,6-20),T D;,' 6.' 21' 0*.>- =, 12' .' 5 +*2' 1 ',)*?' *L^ >*=,' 2' 12*' 1-',81' 2.,62>*.' M.**' D*/18X' ,' .' 1-',)*' ?1.,'=6-,' ?=1.. D/*',1' 0*,*-? 2*' ? ;>)' 8 ,)' >*-,6 2, ' >12>*-2 25',)* -%26,;-*% ' ()* .6?*' 20* 2 ,*2*..' =-*+6 /.',1' 6' +*- ' 5-*6,' 0*5-**' 2',)*' ?*2, 12' 1 '0 .I7 *6.*.' 2',)*' *8' (*.,6?*2,' D;,' *8' 1 ' 8) >)' 6-*' .; ^ > *2,/ ' *L=/ > ,' ,1' 0*2, ',)*?' =-*> ./ ' 8 ,)' ,)*' 0*.>- =, 12.' 1 ' ?10*-2' =6,)1/15 % & ,)' -*.=*>,' ,1' ,) .' .;DA*>,' ,' .'92182',)6',)*-*' 6-*' >*-,6 2' 81-0.' 1 ' 62> *2,' 1- 5 2' 8) >)' 6-*' ;.*0' 2',)*' >- =,;-*.',1' *L^ =-*..' 0 .*6.*.' 1 ' .1?*' 9 20' 1-' 1,)*-T ,' 8 //,)*-* 1-*' D*' 6' =-1? 2*2,' 6,,*?=,' 8 ,)' ;.',1' 6.>*-,6 2' 8)6,',)*' 0 .*6.*.' 6-*' ,)6,' 8*-*' 0*. 52*0',1' D*' *L=-*..*0' D ' ,)1.*' 81-0. ' 8) >)' 8 // D*' 21, >*0' 2',)* -' 6==-1=- ^ 6,*' =/6>*.% **' 6/.1' + ! ()*' 62> *2,.' 8*-*' 6>>;.,1?*0',1' 6,,- D;,*',)*' 1- 5 2' 1 ' 0 .*6.*.' =6-,>;/6-/ ' 1 ',)1.*',)*' *6 26,;-6/*>6;.*.' 1 ' 8) >)' ,)*' 0 0' 21,' ;20*-.,620',1',)*' ? ? *0 6,*' 2,*- *-*2>*' 1 ' ,)*' * ,' M *;,% LL+ ' S T' K' 25.' L L ' N T ') -12' LL ' KC T' .6% LLL L ' RC T' >,.' L ' KNX% : *2>*' 7,)* ' 8*-*' -*_;*2,/ ' 0*21? 26,*0' D ',)*' 62> *2,' 4-**9.' % '1-',)*' 1 ' 410 ' 6' 81-0' 8) >)' .' *?=/1 *0' D ',)*' =)E . > 62' ;9*') ?.*/ IM+ ' K X' 620' 6/.1' 2' < 6-9' +' KR' N % (81' 1 ',)*' =/65;*.' 1 ' 5 =,' 8*-*' 1 ',) .' >)6-6>,*-% >>1-0 25',1' -1.=*-' /= 2;.' > ' ' !' !1 % !(8!1' 0 .*6.*.' =-*+6/*2,' 2' 5 =,' 620' 1,)*-' >1;2,- *.' 1 ' 6 . ? /6-' >/ ?6,*' 8*-*' 1=),)6/? *. ' 1-' 0 .*6.*.' 1 ',)*' * *.T /*=-1. *.' 2 /6?^ ?6, 12.' 1 ',)*' D-6 2 ' =6 2.' 2',)*' A1 2,.' ,)*')*-2 6 ' ,)*' .,12*' 2',)*' 9 02* .' 620' D/600*-' ,)*' =),) . > ')*>, >' =*. /*2, 6/' 620',*-, 62' *+*-.T 8*692*.' 1 ' I,)*' .,1?6>)' 620' 1D.,-;>, 12.' 2',)*' / +*-' 620',)*' .=/**2% ()*' ?1.,' =-*+6/*2,' 0 .*6.*.' 1 ',)*' 6.,' 6,' ,)*' =-*.*2,' 06 ' 6-*' >;,62*1;.' 0 .*6.*.' ?6/ 5262,' *^ +*-.' 0 .*2,*- ' 620' 1=),)6/? 6% ',)*' -.,' 1 ' ,)*.*',A4' ?1.,'-*?6-96D/*' 6-*' /*=-1. '620' */*=)62, ^ 6. .% ()*' /6,,*-' .' ;.;6// ',)1;5),',1')6+*' D**2',)*' 0 .*6.*' 1 ' B1D' M_%+%X% **') / #! (1',)*' .6?* >/6..' 6/.1' D*/125.' ,)*' . 25;/6-' 0 .*6.*' >6//*0',)*' (& %% 1' 1-' /*==1' D;,,12' J' 6' .=*> *.' 1 1' 8) >)' .' >12 2*0',1' /*==1' 65060' 2,6D' 620',)*' + //6^ 5*.' 12',)*' *51;-' 620' 18 >9' M/ ;..*// .' 7 !' 2 2 ' '& %% 1' ' KRRX% ()*' 5 =, 62.' 6-*' .;DA*>,',1' 62' *-;=, 12'1 '-*0' .=1,.' 620'= ?=/*.' 8) >)' >6;.*' 6',-1;/AC' /*.1?*' .?6: 25% ()*' *-;=, 12' -*,;-2.' *+*- ' A *A%-' ,186-0.',)*' *20' 1 'B;2*' 1-' D*5 22 25' 1 'B;/ ' 620' .' 12',)6,' 6>>1;2,' 6,,- D;,*0',1',)*' - . 25' 1 ',)*' /* M 1/2* ' ' KN X% < 6/ 5262,' *+*-.' 6-*' +*- ' -* _;*2,' 620' 1 ',) .' >/6..' .',)*' 5-*6I,' .>1;-5*' 1 ',)*' 6.,',)*' =/65;*' M_%+%X' 8) >)' .;-=6..*.' 6//' 1,)*-.' 2' + -;/*2>*' 620' >12,65 1;.2*..% ()*' 5 =, 62' 1=),)6/? 6' .' =-*+6/*2',)-1;5)1;,' 5 =,'620' -6' 620' .',)*' >6;.*' 1 'D/ 202*.' D* 25' .1' -*_;*2,' 2',)1.*' >1;2,-*.% *** 8 ! ' 2 /6?? 6,1-A70 .*6.*.' 2' 5*2*-6/' -% ;..*// IR! !(8 .6 .' ,/ 6,' 6,' /*==1')*')6.' 21,' 1;20' ,)*?' ?1-*' -*_;*2,' 21-' ?1-*' -6= 0' 2',)*-' >1;-.*' ,)62' 2' 4-*6,' -,26 2% = /*=. ' 620' 0 .*6.*.' 1 ',)*' ? 20' 6-*' >1?? 12/ ' =*,' 8 ,)% <*/62>)1/A!' ?121?6^ 2 6>.' 6-*' -*56-0*0' 6)' .6>-*0' =*-.12.' 2' 5A =, ' 620' 6-*')*/0' 2',)*') 5)*.,' +*2*-6, 12' " ' 6// <1)6? ?*^ 062.% **') $! ()*' .=*-?6, >' .,;*' ?*2, 12*0' 2' *+% L+ ' ' >6221,' -* *-',1' " ' ' 6.')6.' D**2' .;==1.*0' DE' 7< >)6*/.' 620' : *D*2..-* ,' 1-',)*' =*-.12' 8)1' *L^ =1.*0') ?.*/ ',1' 2 *>, 12' 2',)*' +6- 1;.' 86E .' ?*2C' , 12*0' 86.' 12/A' ;2>/*62' ;2, /',)*' *+*2 25' &) >)' .' 6-',11' .)1-,' 6',?*',1' 6//18' 1 ' ,.' D* 25' 6.>*-,6 2*0' 8)*,)*-')*')60' *.>6=*0' >12,65 12' 1-' 21, % ,)*-' ,)*2',)*' /68' 1 '=;- >6, 12')60' 21'-* *-*2>*' 8)6,*+*-',1',)*' >12,65 1;.2*..' 1 ',)*' 0 .*6.*' M8) >)' .')6-0/A7 60? .. D/*X' 1-',)*' 0 .*6.*' 6//;0*0',1' 86.' -*6// ' 21,' >12,65 1;.% **? $! : *[*9 6)' M_%+%X' .; *-*0' 6>>1-0 25',1' 1;-' +*-. 12' -1?' 6' ' MK' 25.' LL ' X% ()*' ,*-?')*-*' ;.*0' !=: (' + " (' ?*62.' / ,*-6// ' :' D;,' 8*')6+*' 21' ?*62.' 1 ' 0*2, 25' ,' 8 ,)' 8)6,' 8*' >6//*0',)*' D1 / 45)' J <

()*' 0 .*6.*' 1 'B*) 1-6?' M_%+%X' .=19*2' 1 ' 2' K')-12' LL ' Q' M>1?=',)*' . ? /6-' >6.*' 1 ' : *-10' >,.' L ' KNX' .'=-1D6D/ '-* *-6D/*',1')-12 >' 0 .*2,*- ' 8) >)' .1?*C % , ?*.' 1>>6. 12.' 62' *L;06, 12' 1 ' D- 2*' -1?',)*' 22*-' >16,.' 1 ',)*' ,*., 2*.% ()*' /; 0' D- 2*',) ; .' *L;0*0' >165;/6,*.' 2,1' 6' >12, 2;1;.',;D;/6-' ?*?D-62*' 1 ',)*' .6?*' .)6=*' 6.',)*' 2,*., 2*' ,.*/ ' 620' 6.' .;>)' .' *L^ =*//*0' ( ) .' 1-?' 1 ',)*' 0 .*6.*') 6.' D**2' 21, >*0' -% 4110';20*-',)*' 26?*' 1 ' " ' " ' I$ ' ' ! ' KQ X% ' =-*> .*/A' . ? /6-' 1-?6, 12' 1 ' 69'*' ?*?D-62*.' 6.',)*A76-*',*-?*0',69*.' =/6>*' 2',)*' 8 20= =*' 2' .*+*-*' >6.*.' 1 '>-1;=% ()*' ?6/60E' 1 ' *D;>)602*[[6-' M_%+%X' 6//;0*0',1' 2' 62% +' NN' 86.' 6' .=*> *.' 1 ' ?*/62>)1/ ' ?121?6^ 2 6' >6//*0' DA' ?*0 >6/' 6;,)1-.' / " % !' 1-' ?1-*' >1?? 12/ ' " % 1' D*>6;.*' ,)*' ,-62. 1-?6, 12' 2,1' 6' 81/ ' 86.',)*' ?1.,' 1-0 26- ' //;. 12% ._; -1/' >12. 0*-.' ,' ,1')6+*' 1- 5 26,*0' 2' ,)*' 62> *2,' >;.,1?' 1 '.6>- > 25' 62 ?6/.% ;,' 8)6,*+*-7* *>,',) .' =-6>^ ,>*' ? 5),')6+*')60' 6.',)*' ,?*',)*' >6.*.'-*>1-0*0' 6-* 20*=*20*2,' 1 '62 ' .;>)' 2 /;*2>*T 620' ,' -*6// '01>.' 21,'.** ?' 2*>*..6- ',1',-6>*',) .' =6-,>;/6-')6//;> 26^ ,12',1' 6' -*?1,*') .,1- >6/ >6;.*' 8)*2' 8*' -*?*?D*-' ,)6,',)*' ?65 26- ',-62. 1-?6, 12.' 2,1' 262 ?6,*' 1/PC A*>,.' .;>)'6.'5/6..' D;,,*-' *,>% 8) >)'6-*' 1 '*+*-A C06'+' 1>>;--*2>*' 6-*'*_;6// ' --*>12> /6D/*' 8 ,)',)-9*' 26,;-6/ 2.,2>,.' 1 ',)*' ?_20% ()*' .6?*' 6;,)1-' <6,*.',)6,' 6' 21D/*?62' 1 ',)*' >1;-,' 1 ' 1; .' d ' 86.' 2',)*')6D ,' 1 ' -*_;*2,/ '=;,, 25') .')*60' 1;,' 1 '6' 8 2018 ' 2' H4 0*.*',1' .6, . ',)*' ;-5*2,' 0*.*-)*')60',1')6-9*' .._; C -1/' ' 1' SKKX% 6/?*,' 2 1-?.';.',)6,',)*' 2;2.' 1 '6' 4*-?62' >12+*2,' 8*-*',-62. 1-?*0' 2,1' >6,.' 620' 8*2,'?*8 25' 1+*-',)*' 8)1/*')1;.*' 6,'6' L*0')1;.' 1 ',)*' 06A C% I 2',)*' >6.*.' 1 '=*-.12.'=1..*..*0' 8 ,)' ;2>/*62'.= -^ ,.' .**' ! 1-' 1,)*-' .=*> >6, 12.' 1 ' 0 .^ *6.*' 2',)*' D/*' .**' 8 'T 8 ' 'T $.' 9 %! 4

< %<? ‘ ‘ 8 #‘ ‘ + #‘) ? / “ ‘) ‘ *,>‘ 2‘ ,D*C ?*,)10.‘=-6>, .*0‘ D ‘,)*‘ 62> *2,‘ 620‘ ?10*?‘ - *2^ ,6/.‘ 1-‘ >1- 25‘ 0 .*6.*.‘ .**‘ % ‘T ‘T + ‘ # ‘*,>‘ %()*‘ 1//18 25‘.=*> 6/‘,-*6, .*.‘*L .,‘ 12‘,)*‘ .;DA*>,a‘ < >)6*/ .‘ ‘D ‘ ‘ “ ‘ 1‘ ‘M41,,‘ T 6/.1‘ 2‘) .‘ $ 1‘ ‘ 1‘ XT‘ 0*-‘ ‘ ‘ ‘ ‘ 7!‘ - ‘M(1/*,‘ SK XT‘ 6-,)1/ 2;. ‘ ‘ ‘ ‘; “ ‘M ‘60‘ <‘ 4R ‘*,>‘XT‘ .>)*2C‘ D6>)‘ $ % ‘ = ‘M 1.,‘ RXT‘ B1-062 i X*‘ ‘ ‘ “ ‘M ‘60‘ ‘ S XT‘ <*60‘ ‘ ‘ M ?.,‘ RT‘ 2‘ 4*-?62‘ * =[‘ XT‘ >),*-‘ a# 1‘ ‘ ‘M4*,, 25‘ XT‘ 212‘ 2 “‘ !‘ “ !‘M * =[‘ R XT‘ 6-/ [‘ ‘ ‘ “ ‘; “ ‘M C‘ ,*D‘ XT‘ &1/ ‘N 1 ‘) D ‘M< 622‘ X‘ **‘ ;-,)*-‘;20*-‘ !

3 .)‘ .,620.‘ 2‘ ,)*‘ ;,) ‘ *-. ‘6.‘.,)*‘ ,-62./6, =2‘ 1‘ ,)*‘ 1//18 25‘ ,*-?.‘ 2‘ ,)*‘ 1- 5 26/‘ >- =,;-*.a‘ K ‘> (%“ 1‘.1?*,) 25‘“ 1‘6‘ ‘0 .)J‘1‘>;-0/*0‘?/9‘ B 05‘ ‘K T 1-‘ D18/J‘1‘86,*-‘B;05‘ +A‘NQX‘=-1D^ 6D/ ‘6‘ /6,‘620‘21,‘+*- ‘0**=‘1-‘/6-5*‘+*..*/1-‘ 1-‘ /;0.T 22D.‘I2 2 “(“‘.1?*,) 25‘,1‘% ‘ 2,1‘6‘ 0 .)J‘ 1-‘*6, 25‘ -1?H K‘ 25.‘LL ‘ NT‘ 2>1--*>,/ ‘ -*20*-*0‘ D1.1?J‘ 2‘ -1+‘L L‘K T LL+ ‘ ‘ 2‘0*C‘T= 25‘D .‘)620‘ 2‘,D*‘ .6?*‘ 0 .)‘ 8 ,)‘ 1;-‘ 1-Z786.‘ .>- D 25‘,)*‘ ./1,) ;/ 5/;,,12X‘=-1D6D/ ‘6‘% 1‘ 6.7 ,)*‘ 9 20-*0‘,*-?.‘MF/:D7‘ =62 J‘K‘)-12‘LLL+‘ NT >-;.* J‘7‘ 25.‘ ‘K X‘. 52 ‘ 2‘ 5*2*-6/T D;‘,)*‘ ?1.‘;.;6/‘,*-?‘.‘ I* “(‘.1?*,) 25 1 %E‘.=19*2‘1‘,)*‘ ./+*-‘ 0 .)*.J‘1‘,)*‘ (6D*-26>/*‘ M L10‘ dd ‘KRT‘ LLL+ ‘ ST‘ ;?‘+‘ ‘T -*20*-*0‘6‘ >)6-5*-J‘ 2‘ ;?‘+ X‘,-62./6,*0‘D‘,)*‘ *=,‘-=8C‘ E ‘ 8) >)‘ .‘,)*‘,*-?‘-*20*-*0‘ 0 .)J‘ 2‘ <6,,‘ 7L+ ‘KNT‘ <6-9‘L+‘K ‘ ()*.*‘/6.,‘,*-?.‘65-*-*‘8 ,)‘ ,)*‘ 1-?‘1‘,)*‘ 5 =, 62‘0 .)‘6.‘ 1;20‘12‘,)*‘?12;^ ?*2,.‘ ()*‘0 .)*.‘)6+*‘ >1+*-.‘620‘,)*‘?622*-‘ 2‘ 8) >)‘,)* ‘6-*‘>6-- *0‘D‘,)*‘.*-+62,.‘,1‘,)*‘,6D/*‘12‘ ,)*‘-*+*-,*0‘)620‘.‘,)*‘?10*‘., //‘;.*0‘D C 6.,*-2‘ .*-+62,.‘ ()*‘1,)*-‘,*-?.‘=-1D6D/ ‘-*=-*.*2,‘0 *-C

2> *;,‘ 5 =, 62‘ 22*-0 .D‘

2,‘ 1-?.‘1‘0 .).‘.;>)‘6.‘6-*‘218‘ 2‘ ;.*‘6?125‘,)*‘ 6.,*-2‘26, 12.‘ **‘ $ 4 ‘! ()*‘. ,*.‘1‘.;>)

< 10*?‘ - *2,6/ .)*6‘

62> *2,‘,182.‘6.‘ 8*-*‘D; /,‘ 1‘.22C0- *0‘D- >9.‘6-*‘ ;.;6// ‘>1+*-*0‘8 ,)‘D-19*2‘=1,..)*-0.‘.1?*‘1‘,)*?‘ /6-5*‘*21;5)‘,1‘20 >6,*‘,)*‘1-?‘1‘,)*‘2, -*‘+*../1‘ ()*.*‘6-*‘-*?6-96D/ ‘. ? /6-‘,1‘,)1.*‘ 2‘?10*?‘;.*‘ 620‘6-*‘ 1-‘,)*‘?1.,‘=6-,‘?60*‘1‘I6-6,)*-‘>16-.*‘ *6-,)*286-*‘>1+*-*0‘8 ,)‘6‘>1?=6>,‘620‘.,-125‘5/6[*‘ 8 ,)‘D- 5),‘>1/1-.‘?1../‘5-**2‘D/;*‘1-‘ */18‘ .)*.‘620‘1,)*-‘+*..*/.‘1‘>1==*-‘>16-.*/‘D;,‘,)>9^ / ‘, 22*0‘6-*‘.18‘?;>)‘;.*0‘2‘,)*‘6.,‘);,‘ 6-‘ ,) .‘?6‘)6+*‘D**2‘62> *2,/‘,)*‘>6.*‘81‘)6+*‘21, ,)*‘?*62.‘1‘9218 25‘ **‘ $/‘8 ‘ 8 9

$ ‘T + ‘T + ‘ ‘T ‘ *,>‘ ;?*-1;.‘ D-12[*‘ 0 .)*.‘)6+*‘ /6,*/‘ D**2‘ 0 .>1+*-*0‘D‘ 6 6-0‘ 620‘1,)*?‘ 2‘,)*‘ .. - 62‘ ?1;20.‘ .1?*‘ *2, -*‘ 620‘ 1,)*-.‘ 2‘ -65?*2,.‘8) >)‘ .)18‘6‘) 5)‘0*5-**‘1‘*/*^ 562>*‘ 620‘ .9 // M 6 6-0‘ =‘ ‘ ‘ =‘ ‘ .‘%X‘ 2‘62> *2,‘ 577=,‘620‘6/.1‘ 2‘B;0 *6‘5;*..‘6,‘,)*‘ ,6^ D/*‘)620/*0‘,)* -‘ 110‘8 ,)‘ ,)*‘ 25*-.‘D;,‘.=112.‘8*-*‘ ;.*0‘ 1-‘.1;=‘1-‘1,)*-‘/ _; 0‘ 110‘8)*2‘ -*_; -*0‘M& /C‘ 1 1& !6 % !‘ Q KO‘ 2> *2,‘ =. - 62‘ .)‘1‘ D-12[*‘ *0‘X‘ ()*‘.6?*‘.‘,)*‘>6.*‘ =*-.12‘D-*69.‘1 ‘6‘.?6// =*>*‘1‘D-*60‘0=.‘ ,‘ 2‘,)*‘ 0 .)‘620‘,)*2‘>12+* .‘ ,‘,1‘) .‘?1;,)‘,15*,)*-‘8 ,)‘ 6‘.?6// =1-, 12‘1‘,)*‘?*6,‘1‘1,)*-‘>12,*2,.‘1‘,)*‘ 0 .)‘ (1‘= >9‘1;,‘6‘0*/>6,*‘?1-.*/620‘)620‘,‘,1‘6‘ - *20‘.‘*.,**?*0‘6‘>1?=/?*2,‘620‘,1‘-* ;.*‘.;>)‘ 62‘1 *- 25‘.‘>12,-6- ‘,1‘5110‘?622*-.‘ B;06.‘0 =^ T= 25‘D .‘)620‘2‘,D*‘.6?*‘0 .)‘8 ,)‘1;-‘ 1-Z786.‘ .)18 25‘ *.=*> 6/ - *20/ 2*..‘ 620‘ 2, ?6> ‘ M 62*‘ !‘6 % ‘ ‘ RNT)6-0 2‘N ‘ + ‘ N‘ T *D;)-‘ , ‘ ‘N& !‘=‘ SX‘ **‘ 8 ‘T ‘ !

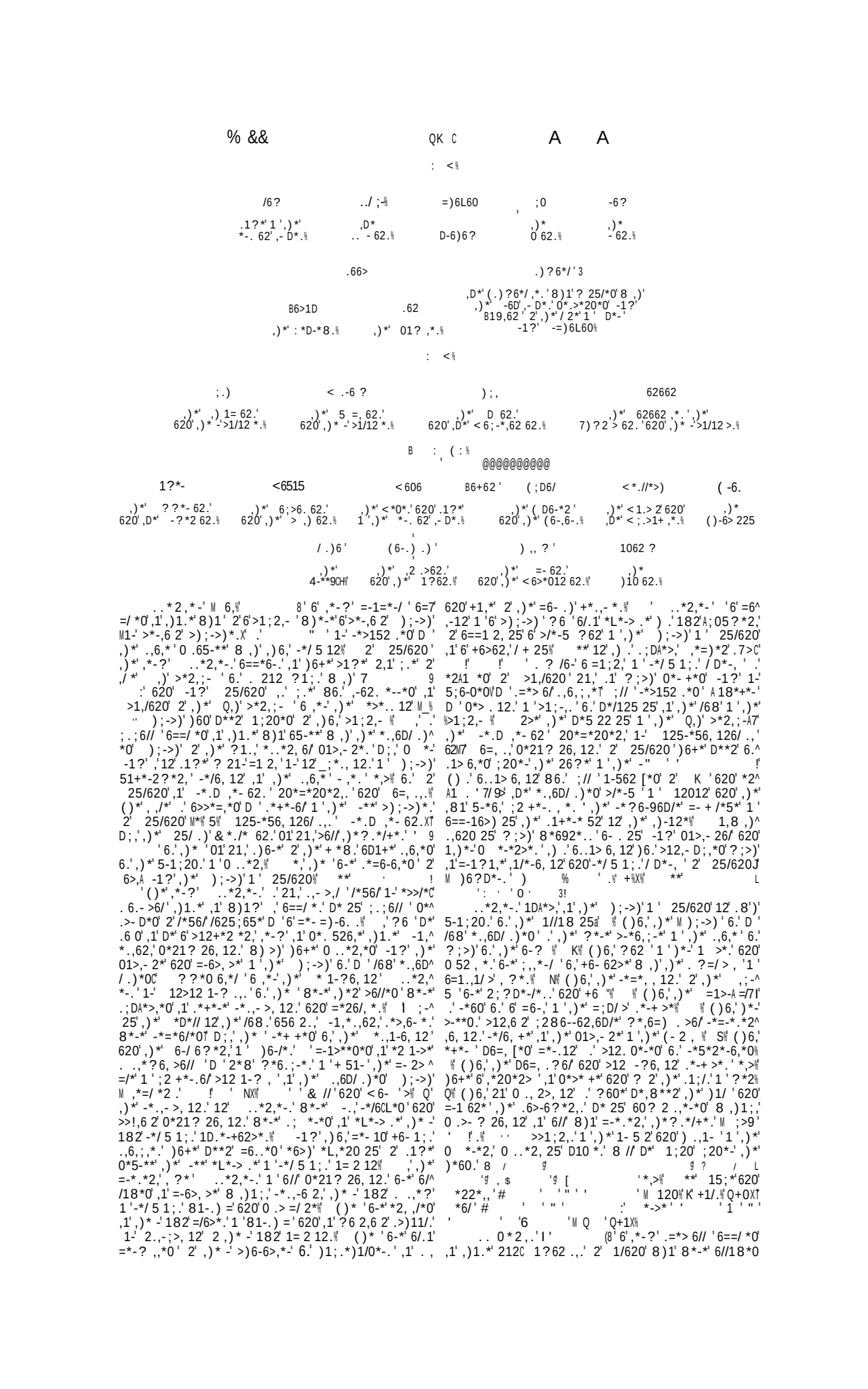
./ 62‘ M:*D‘ ‘ “ (‘ 621,)*-‘ 1-?‘ 1-,)*‘ 26?*‘ ‘ “ .‘ *=,‘`,*-8=‘D;,‘2‘ ‘)-12‘ ‘K‘ 1 ;8+‘+‘-‘ 11+X‘,)*‘26?*‘1‘,)*‘ 1;25*..‘.12‘1‘ *-‘,)*‘: 1-,*‘ 6,)*-‘ 1‘$[‘620‘ -62‘620‘)*60‘1‘ 12*‘1‘,)*‘1- 5 26/,- D*..‘1‘0;?..6‘M4*2‘LLL+‘K‘ KQ‘N T ‘)-12‘ ‘NS‘ KX‘ % ‘>-‘ RSN‘ . 7.)12‘M:*D‘ ‘ “ E‘ / % .‘ *=, 2‘ ‘)-12‘ ‘ ‘ 6,;8=X‘,)*‘26?*‘1‘,81‘0*^ .>*2062,.‘1‘ *-‘,)*‘:1-,*‘ .)12‘620‘ .)62‘D*^ /125‘,1‘,)*‘.6?*‘-11,‘8)>)‘?6‘=1.. D/‘-*6==*6-‘2‘ ,)*‘26?*‘ ‘ “ 21, >*0‘D ‘ D;/*06‘># !‘& !‘= RSX‘ ()*‘5*15-6=) >6/=1. , 12‘1‘,)*‘,- D*.‘0*.>*20^ *0‘-1?‘,)*.*‘=6,-6->).‘.‘;2>*-,6 2‘ 21)*/> ‘ 2‘/1>I‘=/6>*.‘,)*?‘,1‘,)*‘ ‘620‘ ‘ 1‘,)*‘4;/‘1‘ 96)6‘12‘,)*‘5-1;20‘,)6,‘,)*‘26?*.‘1 .)12.‘.12.‘ .)D62‘620‘:*?062‘?6‘D*‘ 0*2, *0‘8 ,)‘2 “ ‘ 620‘# 1‘D-62>)*.‘1‘,)*‘,- D*‘1‘ ?-6;‘ ;>)‘ 0*2, >6, 12.‘?;.,‘D*‘-*>* +*0‘8 ,)‘>6;, 12‘6.‘. ?^ /6-‘26?*.‘6-*‘ 1;20‘2‘1,)*-‘=6-,.‘1‘& “ ; 1# ‘ 1-‘ 2.,62>*‘2*6-‘(6 ‘620‘656 2‘2 1‘8)>)‘ D*6-.‘6‘.,//>/1.*-‘-*.*?D/62>*‘,1‘,)*‘1- 5 26/26?*‘ 2*6-‘ 626‘M ;->9)6-0,.‘ ‘ ST‘ ‘N SX‘ ** % ! ‘ *-.‘ ,)‘.12‘620‘)*60‘1‘12*‘1‘,)*‘6D1- 5 26/ 0;?.*62‘,- D*.‘M4*2‘LLL+‘K‘N T ‘)-12‘ ‘NQX‘ % ‘>-‘ RSN‘ 2‘,)*‘ 1- 5 26/‘1‘ 4*2‘LLL+‘KS‘ 8)*-*‘) .‘ 1;-‘.12.‘6-*‘?*2, 12*0‘,)*‘26?*‘.‘D‘ .1?*‘,-62.=1. , 12‘ ‘ 8) >)‘ 1;-‘,-62./6,1-.‘ M1//18 25‘,)*‘ *=,‘620‘,)*‘=6-6//*/‘=6..65*‘ ‘)-12‘ ‘ X‘)6+*‘>1--*>,/‘ ‘>)625*0‘,1‘ .)12‘J‘ 7 K‘:.‘5-620.12‘,)*‘12/‘.12‘1‘ 26)‘620‘D-1,)*-‘ 1‘ D1/)6?6)‘ .6;.‘.*>120‘8 *‘M4*2‘Ldd+‘K T ‘)-12‘ ‘ X‘ % ‘>12. 0*-6D/‘=1.,‘ RSN‘ .)12‘ **‘+6 6 .?1;2,25T‘ **‘ ! .=*2.6,12‘>) % ‘ ‘=-1=I‘1‘ 12.*)1/0‘6 6-.‘)*2>*‘ 25/‘ :‘ .,*86-0^ .) = J‘ ;9*‘L+‘K‘N‘ T‘ *0 A- 25 J‘‘(?‘‘ ‘6=^ =6-*2,/ ‘-*60 25‘) % f8! M ‘X‘ ‘,)*‘ ‘ % ‘6-*‘5*2*-6// ‘?*62,‘7 ,)1.*‘?*,)10.‘1-‘.>)*?*.‘8)>)‘6-*‘ 0*+.*0‘620‘ =;-.;*0‘D‘,)*‘8 .01?‘620‘51102*..‘1‘410‘2‘1,‘ 0*-‘,1‘?62‘*.,‘) .‘=*-*>,12.‘620‘8 //‘,1‘ =62‘ 9 20‘1-‘,)*‘=;-=1.*‘1‘,)*-‘2.,-;>,12‘0 .> =/2*‘ -* 1-?6,12‘620‘60+62>*?*2,‘2‘-*>,,;0*‘1‘,*?^ =*-‘620‘>120;>,‘1-‘,D*‘=-1?1,12‘1‘,)*-‘D6== C

2O..% ()*.*')6+*' +6- *0' 2' 0 *-*2,' 65*.' 1 ' ,)*' 81-/0 ' 620')6+*' D**2' 606=,*0' D ' ,)*' 8 .01?' 620' 51102*.' 1 ' 410',1',)*' > ->; ? . ,62>*.' 1 ') .' 2,*// 5*2,' 620' 6>>1;2,6D/*' >-*6,;-*.% + 2*.' 0*. 526,*' ,)*.*' +6- 1; .' 0 .:*2.6, 12.'6.' .)*' " 2',)*' '1-' D "1' 620',)*' " 1',)*' -.,'>1? ?*2> 25' 8 ,)' 06? ' 620' -*6>) 25',1',)*' 5 + 25'1 ',)*' /6 8 ↑ ,)*' .*>^ 120' -1?',)*' 5 + 25'1 ',)*' /68',1',)*' 0*6,)' 1 ')- .,' ,1',)*' * /0' 1 ',)*' 81-/0% //',)*.*' 8*-*' 606=,*0',1',)*' > ->; ? . ,62>*.' > ',)=' 6? / ' 1 ' ?62' 6,',)*. *' 0 *-*2,'=*- 10.á 6// ' 2' -*5 ; /6-' .;>>*.. 12 ' 8*-*' ? ; ,; 6// '>122*>,*0 ' 620' -*2^ 0*-*0'=-*=6-6,1- ',1'12*'621,)*-↑ 6// 8*-*' .; D.*-+ *2,' ,1',)*' 0*. 52' 1 '.6+ 25',)*' 81-/0 ' 620' =-1 ? 1, 25',)*' =*- *>, 12' 620')6== 2*..' 1 ' ,.' -6, 126/ 620' ? 1-6/ 2C 6D ,62,.' M & 6,.12 ' -" ! ' 1'.% +%X% ()*-*' . '=*-)6=. '21' =6-,'1 '0 + 2 , '6,,*20*0' 8 ,)' .1' ? ;>)' 2,- >6> '620' 8)*-* 2' 1-,)101L' 0 + 2*.' .1' ? ;>)' 0 ^ *-' 6.' 2' .,6, 25',)*' =-*> .*' 65-** ? *2,' 620' 0 *-*2>*' D*,8**2',)*' ,81' 0 .:*2.6, 12.' 1 ' <1.*.' 620')- ., I M% 126% 086-0. ' , '@ 2 11 E 1 % % Q Q ' X% *' >' ? ,)' @ ' ' " ' -" ' " 1' D9% + ' *)% ↑ /*,>)*-' + ' M % %*0%X' +1/.% ' '620',)*' 6-,% '0 ' #! MH%X' ' % ' ' '6-*' 62 '=6-, ; ; /6-' 1-' ; 2 ; . ; 6/ ?10*.' 1 ' + . D/*' ,-*6,? *2,' ,1' 8) >)' ; 20*-' ,)*' 0 + 2*' 51+*-2 ? *2,' ? 629 20' 6-*' . ; D A*>,*0 % ' ()*A' 6-*' * ,)*-' ?*-> ;/ 1-' 2' A ; 05 ? *2, ' ,)1 ; 5)' 8)6,' 6=C " *6(',1' D*/125',1',)*' /6,,*-'>/6.' 6-*' 1 ,*2' D/*.. 25.' 2' 0 .5 ; .*' M ;>9' *1% ' !' .% +%X% *' + ! MN%X' ()*' 81-0' % ' .' ; .*0' 2' *>>/*. 6., >6/ /68',1' . 52 ' 6' =18*-' 5-62,*0' ,)*'); ->)' 6;^ ,)1- , *.' ,1' 01' 1-' /*6+*' ;2012*' .1? *,) 25' 8)>)' 1,)*-8 .*' .' 21,' 6//18*0% ()*' :1? 62' *>>/*. 6., ^ >6/ /68' 5-62,.' ,1',)*' =1=*' ,)*C - 5),' 620' =18*-' 1 ' 0 .=*2. 25' 8 ,)' ,)*' /68' 2' I>*-,6 2' M620' 2 ; ? *-1 ; .X >6.*.' 620' 1 ' 0*=; , 25' ,) .' =18*-' ,1' D .)1=.' 620' 1,)*-' >); ->)' 1 >*-.% ()*' / ? ,.' 1 ',)*' 0 .=*2.^ 25' =18*-')6+*' D**2' ,)*' .; DA*>,' 1 ' ? ;>)' 0 .>; .. 12' 21,'72/ ' 2' >12,-1+*-. ' 8 ,)' -1,*.,62,.' D ; ,' 6 ? 125' 1? 62' 6,)1/ >.' ,)*? .*/+*.% ,' .')*/0' ',,,*' *L^ ,-*?*' 60+1>6,*.' 1 '=6=6/ =18*-',)6,',)*' =1=*' ? 6 ' 0 .=*2.*' 2' 62 ' 0 + 2*' /68 ' *L>*=,' ,)*' 6-, >/*.' 1 ' 6 ,)↑ D ' 1,)*-.' ,)6,') .' 0 .=*2. 25' =18*-' 01*.' 21,' *L,*20' ,1' *L=-*..' =-*>*=,.' 1 ',)*' *8' (*.,6 ? *2,↑ .1? *' .6 ',)6,') .' 0 .=*2.6, 12' .' +6/ 0' 12/ ' 8)*2' , =-1>**0.' ;=12'A ; ..'>6; .*↑ .1? *' ,)6,' ,' .' 21,'=-1=*-/E7 6'-*/6L6, 12' 1 ',)*' /68 .' 1D/ 56, 12' D ; ,' ? *-*/A 76' 0*>^ /6-6, 12',)6,' 2',)*' =6-, >; /6-' >6.*' ,)*' /68' .' 21,' 6=^ =/ >6D/*% ()*' ;.65*' 1 ',)*');->)' 1 ' 1?*7)18*+*-' 65-**.' 8 ,)',)*' 1= 2 12.' 1 ')*-',)*1/15 62.' 2' ? 69 25' ,)*' =1=*' .;=-*?*' 2' -*/*6. 25' -1?' 16,).' 620' -18 .↑ 620' 6' 0*>-**' 1 ',)*' 1 ;2> / 1 ' (-*2,'626,)*? 6, [*.' 6// 8)1' 0*2 ',)*' =18*-' 1 ',)*');->)',1' 5-62,' 0 .=*2.6^ , 12.' 1-' ?6-- 65*.' 8 ,) 2',)*' =-1) D ,*0' 0*5-**.' 1 ' ,)*' <1.6 >' /6 8↑ 8) /*',)*' ? ;/, =/ *0' =-1) D ,*0' 0*^ 5-**.' 1 ',)*' >6212' /68' 5 +*' ? ;>)' 1>>6. 12' 1-')* ?1-*' -* _ ;*2,' *L*-> .*' 1 ',)*' .6?*' =18*- I M)6?^ D*-.X% ()*' 0 .=*2.6, 12.' 2',)*');->)' 1 ' : 1?*' 6-*' 7 0 + 0*0' D ' : 1?62' 6,)1/ >' 8 - ,*-.' 2,1' =6=6/ 620' *= .>1=6/'% ' ' ' 'M6>>1-0 25',1',)*' =;D/ >' 1-' .*>-*,' >)6-6>,*-' 1 ',)*' ?=*0 ?*2,' ,1' D*' -*^ ?1+*0X' % * ;' ' ! : 1?62' 6,)^ 1/ >.' 5*2*-6// '60? ,',)*' 6>,',)6,' 2' 1-?*-', ?*.' ,' 86.' >1? ?12' 1-' D .)1=.' 620' =-1+ 2> 6/ >1;2> /. I,1' 0 .^ =*2.*' -1?' 5*2*-6/);->)' /68 .' 620',)6,' 12/ ' . 2>*' 21>*2,' ,)*' >6212' /68' =-1+ 0*.' 2' 8)6,' >6.*.' D .)1=.' 620' =-1+ 2> 6/ >1;2> /.' ? 6 ' 5-62,' 0 .=*2.6^ , 12.' 8)/*' 2' 6// >6.*.' 6 .=*> 6/ 6 ;,)1- [6, 12' D ',)*' =1=*' .' -* _ ; -*0' ' ' 2' >6.*.' % ' ' ',)-1;5)' ,)*' 6=1.,1/ >' 6,6- 6' 620' 2' >6.*.' % ' ' ',)-1;5)',)*' 1*2 ,*2, 6- 6% **' $ ' ! ' ,)*' >1? ? ;2 >6, 12' 8 ,)',)*' =1=*' .' 2,*--;=,*0' 1-' ,)*-*' .' 0625*-' 2' 0*/6AW 620',)*' 5-62, 25' 1 ',)*' =6=6/ 0 .=*2.6, 12' D*') 5)/ '=-1D6D/*',)*' D .)1=' ? 6 '*L>*=^ , 126// ' 5-62,' 6' 0 .=*2.6, 12' 8)>)' 1-0 26- / ' .' -*^ .*-+*0',1',)*' =1=*↑ D ; ,' 2' .;>)'>6.*.',)*' =6=6/ .62>^ , 12' ? ; .,' D*' .1/ > ,*0' 6.' .112' 6.' =1.. D/*% ()*' 6 ; ^ ,)1- [6, 12' 1 ',)*' D .)1=.' ,1' 5-62,' 0 .=*2.6, 12.' .' =6-,/ '-*2*8*0' *+*- ' ,)' *6-' I1 '4 4 1' 81'620' =6-,/ '5 +*2' 6.' 6' =*-.126/' 0 ., 2>, 12' M)*C ' X↑ D ; ,' ,)* '>62' 12/ '*L*-> .*' ,' 6.' =6=6/ 0*/*56,*.% ()*' 12/A' 9 20' 1 '0 .=*2.6, 12.' 218' 2' ; .*' 2' 25/620' 6-> ',)1.*' 62,6,*0' D '6' D .)1=' ,1' 6' >/*-5 ?62',1' *26D/*') ?',1')1/0' ?1-*' D*2* >*.' ,)62' 12*' 1-' ,1' 6D.*2,') ?.*/' -1?') .' =6- .)% 1-^ ?*-/ C',)*' =1=*.' 70 .=*2.6, 12.' 2' 25/620' 6.' */.*^ 8)*-*' =-*+6 /*0' 656 2.,' ,)*' /68' 1 ',)*' /620' 21,' 2' *>>/*. 6., >6/ ?6,,*-.' 12/ ' D ; ,' 2' 6// ,)6,' /6-5*' 0*^ =6-,?*2,' 1 '> + /6) -.' 8)>) 'D '62' 2,*-*.,*0' >, 12' 86.' D-1;5),' 8 ,) 2',)*' .>1=*' 1 '*>>/*. 6., >6/ 51+*-2^ ?*2,% ()*' 6D;.*' 86.' .8*=,' 686 '6',)*' * 1-?6C , 12' D 'K ' : *2- ' '>% K % ()*' =18*-' 1 ',)*' =1=*' 86.',)*2' >12 *--*0' 12' ,)*' 6->)D .)1=' 1 ' 62,*-D ; - ' 2' ' 6-' 6.' ,' 86.' 21,' >12,-6 ' ,1',)*' /68' 1 ' 410% ()*' 5-62, 25' 1 '.=*> 6/ / >*2.*.' 1 ' ?6-- 65*' 620',)*' / 9*' .' ,)*' 12/ ' 1-?' 2' 8)>)' ,' .' %*+*-' *L*-> .*0% 2' 1-?*-', ?*.' ,)*' *-182' >/6 ?*0' 6' 0 .=*2. 25' =18^ *-' 2' > + /' . ? /6-', ',)6,0 ',)*' =1=*' 2' *>>/*. 6., >6/ ?6,,*-.% ()*' =18*-' 86.' 5-1../ '6D ; .*0' D '86 ? *.' ' 620' 86.' >12.*_ ;*2,/ '6D1/ .)*0' D ',)*' //1' : 5),I% 3 ()*' =- + /*5*' 1 ' 5-62, 25' =6-012.' 2' >6= ,6/ >6.*.' .' ,)*' 12/ ' 1-?' 2' 8)>)',)*' 0 .=*2. 25' =18*-' 1 ',)*' >-182' ., // *L .,.J' M)6 ? D*-.X% 2',)*' -1,*.,62,' >) ;->)*.' 1 ',)*' 12, 2*2,' 1 ' ;^ -1=*',)*' - 5),' 1 ' 0 .=*2. 25' 8 ,)' *>>/*. 6., >6/ /68.')6.' 0*+1/+*0' ;=12' ,)*' =- 2>*. ' 8)1' 5*2*-6//A' *L*-^ >.*' ,',)-1;5)',)*' 12. ,1- *.% ',)*' =- 2>*' 2**0.' 62' *>>/*. 6., >6/ 0 .=*2.6, 12') ?.*/ ')*' ; . ; 6// ' >6//.' 1-',)*' 1= 2 12' 1 '6',)*1/15 >6/' 6>;/, % ' : *-[15' 6 + ' KN↑ & *,[*-' ;% & *//,*') +!= ! +' Q↑ 6--18 ' +' M % % *0%X' 'K ' ._ % ' K Q .=*-.*0' M7,66(-1=6' 1' B1)2' + ' N ↑ '.>6,,*-*0 J' B6 ? *.' ' ↑ ' *,% ' ↑ >1?=% (1D% ' ↑ 2' : *D% ; .; 6// ' .1?*' 1-?' 1 ' B ' %'" E',1' +' %1' .6% L ' K↑ 1-' % 1' U*=)% ' ',1' 1' 6.' 1 ,*2' -*20*-*0X B & '1-' 6.',)*' 6-*' ?1.,' -*^ _ ;*2,/ '., /*0',*>)2 >6// '620' .?=/ % 0 ' / L 'M-X ,67((1=0' K' <6>% 'K ↑ B ; 0 ,/% + ' RT↑ B1.*^ =); .' & ↑ L ' N'*,>% X' .',)*' 5*2*-6/ *= ,)*,' 6==/ *0' ,1',)1.*' B*8.' 8)1' -*?6 2*0' .*,,/*0' 2' 1-* 52' >1;2^ ,-*.' 6 ,*-',)*' -*,;-2' -1?',)*' 6D /12 62' *L /*' 620' 06- 25',)*' =*- 10' 1',)*' .*>120' (*?=/*' ()*' :*D% 81-0' 1- 5 26// '6==/ *0',1',)*.*' 1-* 52' .*,,/*-.' "E >6=, + ,E I >1?=% B*-% LL + ' ST↑ LL+ ' ' *,>% ' -1?' 2DA',1' % 269*0↑ .1' '.12.' 1 '>6=, + , J [-6' + ' SX' >12+*A ',)*' 21, 12' 1 ' .=1/ 6, 12' 620' D*^ -*6+*?*2,' 6.' 1 ' ?*2' -*?1+*0' -1?',)*' (*?=/*' 620')1?*' 1 ',)*-' 6,)*-.↑ D ; ,' 2',)*' *=,' ,)*' 0*6.' 1 ' 6' .1A1 ; -2 25J' >) 8' 620' 1 ' 6' >1/12 J' MO -1,C) 8' 8*-*' >1?D 2*0' 8 ,)',)6,' 1 ' 6' '>6=, + , J' M6, A ; 6C 1 (>6X' 8)/*',)*' ,*-?' 0 .=*-. 12J I$ - % ' -.,' 2' *;,% LL+ ' K ' 1-' ↑ >=?=% B*-' LLL + ' X' 8)>)' 26// '=-*+6 /*0' .*?*0',1' ?A / ',)6,',)*' =*1^ =/*',) ; .' .>6,,*-*0' ,1' ,)*' ;,?1.,'=6-,.' 1 ')*6+*2J M *;,% LLL ' X' 2' D12065*' 6?125',)*' 4*2, /*.J' MK' <6>*' 'K X' 620' .) ; ,' 1 ; ' -1?' ,)*' ;// =- + /*5*.' 1 ' ,)*' >)1.*2' -6>*' MB1)2' + ' N X' .)1; /0' *,' D*' 6.',)*' .**0' .182' 1-' 6' ; ,-*')6-+*.,' M>1?=% .6% L/ L ' S : *D% X' 2',)*' .,-625*' /620.' 8)*-*',)*' 1; 20' 6',*?=1^ -6- ' -*., 25C=/6>*' M ' *,% ' ' + -% ' - 8 # % 8! ()*' .>) .?' 8)>)')60' 0 + 0*0',)*' -.,' 6.' ,)*' 01?' 86.' 1-51,,*2' 2',)*-*.;/,.' 1 ',)*' 5*2*-6/ >6/6?^ , % ()*' 0 .=*-. 12' 86.' 21,' / ? ,*0' ,1',)*' *L /*.' 1 ' B ; 06) ' D ; ,' 2>/ ; 0*0' ,)*' ,8*/+*' ,- D*.J' MB6.% ' ' ' B8A >6' I% O ' ' ' ' B,6,-81A 7X' 8)>)' *L=-*..^ *0',)*' >1?=/*,*2*..' 1 ',)*' 8)1/*' B*8 .)' 26, 12' M >,.' LL+ ' ' -,' 1 ") % O (8! ' ? ,)' .% + % ' ' O ! ()*' 0 ., 2>, 12' 1 '62' - *2,6/ 620' >> 0*2,6/ ' % ! 1' 1-' .=*-. 12' M ,)1' ! 7 S S '=% S.,% X' .' *--12*^ 1 ; .' D ; ,' ,)6,',)*' B*8 .' .1?*, ?*.' D '>12.,-6 2,' .1?*^ , ?*.' +1/ ; 2,6- / ')60',)*-' -*. 0*2>*' 6? 125')*6,)*2

>6221,' D*' 0*2 *0' M 62% L ' T B*-% L.L ' NT [*9% LLL+ 'K '*,>%X'6.'8*//6.',)6,',)*'0*=1-,*0'B*8 .)'>1/^ 12 *.' +1/;2,6- / ' -*?6 2*0' 2' *L /*' 0;- 25',)*' =*- 10' 2' _;*., 12' M.**' 4-11, ' ' ' " '# !' ' % ' '# !' '5 ' '4-12 2% Q X% 2',)*', ?*' 1 '1 ';-' 6+ 1;-',)*-*' 86.' .>6->*/ '62 '/620' 1 ',)*' 62> *2,' 81-/0' 2' 8) >)'B*8 .)'-*. 0*2,.' 8*-*' 21,',1' D*' ?*,' 8 ,)' MB1.*=)% 6-' f7 ' N' NT' & !' L +' 'KT') /1 'L%%!' ' K ' Q X% &*' ?6 '6==-1=- 6,*^ / '0 ., 25; .)' 1;-' 5-1;=.' 1 ',)*' 0 .A *-.*0' B*8 .% **' / #! % ()1.*' 2' ..A(6 '<*0 6' 6D /12 6 '620' *-. 6 ' 1-',)*' - =6 %" 'M1 ' N- 1% 6 1% ' -- %)2% ' /1;B6 1 'B1.*=)% & !' L+ ' N X '0*.>*20*0' -1?' ,)*' B*8.' 620' .-6*/,*.',-62.=1-,*0',1',)*.*' >1;2,-*.' MB1.*=)% & !' F 'K' KT' N' T) /1 ' L%%!' ' QX' 2' 5110' > ->;?^ .,62>*.' 6.' ,' 81;/0' .**?% & ,)',)*-' 26, +*' /620' M 6/*., 2*X',)* ')60'-*/ 5 1;.'>122*>, 12',)-1;5)'-*5^ ;/6-',-62.? ,,62>*' 1',)*' 622;6/ (*?=/*C,6L'620' -.,^ / 25.' MB1.*=)% & !' L + ' KT' L+ 'R T) /1 'L%%!' ' QX% %()*-*' f+6.' *+*2' 6,'12*', ?*' 6' 6D /12 62') 5)C =-*.',6,'B*-;.6/*?' MB1.*=)% & !' L+ ' K' T' N XT' 620' ,)*' (6/?,0' .=*69.' 2'-*.=*>, ;/,*-?.' M.** 5), 11, ' !' =* " !' = N X 1',) .' D-62>)' 1',)*' .=*-. 12' 38)>)' 8*2,' ;20*-' ,)*' 5*2*-6/ 0*21? 26, 12' 1',)*' ; ' ID8 1 % ' ' ; 1 O * (8! ()*-' -**01?')60' D**2' >12 -?*0' D ' /*L620*-',)*' 4-*6,' MB1.*=)% & !' L ' Q' T >1?=6-*' &% ' 'KNX% $20*-' ,)*' */*;>0'9 25.',)* '8*-*' 1-',)*' ?1.',=6-,' 69 1-*0' 12' 6>>1;2,'1',)*-' [*6/1;.'=-1?1, 12' D ' ? / ,6- ' .*-^ + >*' 1',)*' ;20*-,69 25.' 1',)1.*'=- 2>*.T 620' 2, 1C ;);.',)*' 4-*6,'-*56-0*0',)*?' 6.' .;>)'6==-1+*0' .;D^ A*>,.',),6,')*' =/62,*0' 62' *2, -*' >1/12 'D ' ?*62.' 1 ',)*?' 2' .6' < 21-' MB1.*=)% & !' L ' N' X% *+*-^ ,)*/*..',)*-*' 8*-*' 21,' 862, 25' >1// . 12.' 8 ,)',)*' 26^ , +*' 6D /12 62.T D/110 ' .>*2*.' *2.;*0T 620' 2',)*' 0**=*2 25')6,*' 1',)*' / 1?62' =*- 10 ';20*-',)*' *?=*-1-' 6/ 5;/6',)*' 6DC /12 62' B*8.' 8*-*' >1?=*//*0',1'*? 5-6,*',1',)*',)*2' 1;-.) 25' */*;>6' 8)*-*')18*+*-',)* '.112' 0-*8' ;=12',)*?',)*' //C8 // 1',)*' 2)6D ,62,.'MB1.*=)% L+ 'RX% **' 8 # ! K% 2'65*' 620' ?=1-,62>*',)*' 2*L,',1',)*' 6D /12 ^ 62' 86.',)*6 % '>1/12 '1 'B*8.T 20**0' 2' 2 /;^ *2>*',) .' *+*2' .,620.',)*')5)*.',' M>1?=% ,-6D1' 2' B1.*=)% & !' L + ' KX% 2',)*' -.,' ?? 5-6, 12' 1 ' 6/*., 2 62' B*8.',) ,)*-' 8) >)'D*562' 8 ,)',)*' 2, C ?6> ';20*-' 1/1?12' 620' 86.'>)*- .)*0'D ',)*' 5 =C , [25' =6-, ' 0;- 25',)*' /6,,*-' 06 .' 1',)*' :*D-*8' ?126->) 'M.**' K 25.' L+ 'K 'K T .6% LLL L ' '7' FFF 'K'. _%T LLL ' T' LLL+ ' SX' 620' >12 -?*0' M.**' 4*.*2 ;.'D !' 'QKS' RS X' 6.'6'.;==1-,'656 2.,' 7' -6' M>1?=6-*' :*-10' ' X' 620',, /' ?1-*' MK' 25.1' + ' NX% **' 8 # / ! L+ 'T LL 'KR' NNX' 656 2.,' *D;>)602*[[6-'MK' 25.' dd' +' X' D ' 62' 6>,;6/ /*65;*' 8 ,)' :1=)-6' MB/[*9% L+ ' X' 12' 8)1.*'.;DA;56, 12' 1 'B;-/-*6' ?62 'B*8.' ,119' -* ;5*' 2' 5 =,' MB7-% ' QT' L/ ' ' KC X' 6.' ,)*' 12/ ' .6 *' -*,-*6,' M 86/0' ? "!' !' 'KSQ'._%X' .**' 12' 1)/*2' I? 1'=% NN' 2/%X% *D;>)602*[^ [6-'6==*6-.')18*+*-'0;-25').' --;=,12' 2,1' 5 =,' ,1')6+*' >6-- *0' 1 ',1' 6D /12',)*' B*8.')1')60' -*, -*0',),)*-' MB1.*=)% & !' L ' R' X% 2',)*' 1,)*-')620' /*L620*-',)*' 4-*6,'=/6>*0'6'>12. 0*-6D/*' 2;?^ D*-' 1 'B*8.' 2',)*' /*L620- 6' 1;20*0' D ') ?' 620' D*.,18*0',;=12',)*?' *_;6/ - 5),.' 1' 8 ,)',)*' 5 =,62' >, [*2.' MB1.*=)% & % ' T >1?=% & ' L L ' 'KX% I,1/*?' 65' 2,-;.,*0' B*8.' 8 ,)' ?/ ,6- '=1. ,12.' 6//18*0' 6'=1-,12' 1',)*' B*8 .)' =1=;/6,12',1'.*,,/*' 2' -*2*' MB1.*=)% & % '% >%X' 620' .7 *25,)*2*0',)*' -*2 =, 62' >1/12 *.' D ',)*',-62.? 5-6, 12' 1 '?62 ' 6/^ *., 2 62' B*8.',) ,)*-' MB1.*=)% & !' L ' X' % 'NK% ,1/*?') /60*/=);'M % %KQ X'.'.6 0',1')6+*'>6;.*0' ,)*' B*8.)' D119' 1',)*' 6/#' 4-**9' 656 2.',)*' 6/*' 0**=*2 25')6,*' 1',)*' 6,' 6' 5-*6,' *L=*2.*' 1-',)*' /*L620- 62' / D-6- 'MB1^ .*=)% & ' L ' KT' & % ' ' X' D**' / M & ,)',) .' 6+1-',186-0.',)*'B*8.',)* -' 2);?62',-*6$' ?*2,' D ' ,1/*? ') /1=6,1-' .,620.' 2' ?1.',/6?*2,6^ D/*' >12,-6.,'6>>1-0 25',1',)*',) -0'D119'1 '<6>>6D**.' M % ' ' ; ',)*' ,-;,)*' 1 ',) .' >->;?.,62>*' .' +*- ' 01;D, ;/'620'B1.*=);.' >&%!' ' 12/ ' *L,62,' 2' ,)*' 6, 2X' 6.>-D*.',) .' =-1>*0;-*' ,1' ,1/*? ') .>12% $20*-' ,1/*? ') /1?*,1-' M % % Q'. _%X 620') .' -*^ 5*2,C?1,)*-' /*1=6,-6',)*' B*8.' 8*-*' +*- ' 6+1-6D/ ',-*6,*0) 5)' 1 >*.' 26?*/ ' 2' ,)*' 6-? ' 8*-*' 2' ,)*-')620.'620',)*' >1;-,'5-62,*0',)*?',)*' 5-*6,*.', >12 0*2>*' MB1.*=)% &%!' ' X% +*2',)*' *-*>, 12' 1 '6' =-1=*-'B*8.)',*?=/*' 6,' *12,1=1/.' 86.' 6//18*0' MB1^ .*=)% & !' L ' NT' (6-'+ ' KX' 620' 12',)*' *6.,*-2' D1-0*-' 1',)*' 9 2501?' 6' B*8.)',182' M! +,1 7X 86.' 1;20*0' MB1.*=)% ' 'R' T & !' L + ' Q' X' 8) >)7 86.' ?=1-,62,' 2' 6' ? / ,6- '=1 2,' 1' + *8% ' ,*-' 5 =,' */// ;20*-',)*' 1?62'.86 ',)*' 6..1> 6,*'B*8.' *2A1 *0';20*-',)*' -.,' *?=*-1-.' >12, 2;*0' =-1.=*-^ ,' M>1?=' 6/.1') /1 'L%%!' ' 4NK 620' -**01?' 6/^ ,)1;5)',)*' *L=*- *2>*0'1>>6. 126/+ 1/6, 12.'1',)*-' 5),.'12',)*'=6-,'1',)*' 4-**9' 2)6D ,62,.'8)1'8*-*' 12',)*' 1,)*-')620'=-1+19*0'D ',)*'*2>-16>)?*2,.' 1' ,)*'B*8.'MB1.*=)% & !' L + ' KXT' 620'*+*2' ;5;.,;.' 1;20',' 2*>*..6- ',1'=-1,*>,',)*'B*8.' 2' -*2*' D '6' .=*> 6/*0>,'MB1.*=)% & !' L+ 'S '._%X% ;',6',*-- ^ D/*' +*25*62>*' 1',)*' 4-**9.' 656 2.',)*' B*8.' 8)1' 8*-*' >12, 2;6// ' 2>;-- 25',)*' 0**=*2 25')6,*' 1',)*' >1?? ;2, ',119' =/6>*' ;20*-',)*' *?=*-1-' 6/ 5;/6% ()*B*8.' 2' /*L620- 6'620'1,)*-'=6-,.'1' 5A=,'8*-*' 6,,6>9*0' 8,)' D/110 ' + 1/*2>*',)* -' .A?6515;.' 0*^ ?1/.)*0',)*-' 5),.' ,-6?=/*0' ;=12' M 2>/;0 25',)*' *L*?=, 12' -1?',)*' D6., 2601' _% +%h') /1 'L%%!' / KQXT',)*' :1?62' 51+*2 1-' /6>>;.' 2 / ;.') ?.*/' 86.' 2'/*65;*' 8,)',)*' ?1D' 656 2.',)*' B*8.% 2/ ',)*' 2,*->*.. 12.' 1',)*' B*8.)' 9 25' :*-10' 5-==6' 8)1' 2 1-?*0',)*' *?=*-1- 1',)*.*' 1;,-65*.'-*.>;,12%)*' ;)*/*..',)*-*' 8*-*' 21,' 862, 25' >1// . 12.' 8 ,)',)*' 26^ , +*' 6D /12 62.T D/110 ' .>*2*.' *2.;*0T 620' 2',)*' 0**=*2 25')6,*' 1',)*' / 1?62' =*- 10 ';20*-',)*' *?=*-1-' 6/ 5;/6',)*' 6DC /12 62' B*8.' 8*-*' >1?=*//*0',1'*? 5-6,*',1',)*',)*2' 1;-.) 25' */*;>6' 8)*-*')18*+*-',)* '.112' 0-*8' ;=12',)*?',)*' //C8 // 1',)*' 2)6D ,62,.'MB1.*=)% L+ 'RX% **' 8 # ! K% 2'65*' 620' ?=1-,62>*',)*' 2*L,',1',)*' 6D /12 ^ 62' 86.',)*6 % '>1/12 '1 'B*8.T 20**0' 2' 2 /;^ *2>*',) .' *+*2' .,620.',)*')5)*.',' M>1?=% ,-6D1' 2' B1.*=)% & !' L + ' KX% 2',)*' -.,' ?? 5-6, 12' 1 ' 6/*., 2 62' B*8.',) ,)*-' 8) >)'D*562' 8 ,)',)*' 2, C ?6> ';20*-' 1/1?12' 620' 86.'>)*- .)*0'D ',)*' 5 =C , [25' =6-, ' 0;- 25',)*' /6,,*-' 06 .' 1',)*' :*D-*8' ?126->) 'M.**' K 25.' L+ 'K 'K T .6% LLL L ' '7' FFF 'K'. _%T LLL ' T' LLL+ ' SX' 620' >12 -?*0' M.**' 4*.*2 ;.'D !' 'QKS' RS X' 6.'6'.;==1-,'656 2.,' 7' -6' M>1?=6-*' :*-10' ' X' 620',, /' ?1-*' MK' 25.1' + ' NX% **' 8 # / ! L+ 'T LL 'KR' NNX' 656 2.,' *D;>)602*[[6-'MK' 25.' dd' +' X' D ' 62' 6>,;6/ /*65;*' 8 ,)' :1=)-6' MB/[*9% L+ ' X' 12' 8)1.*'.;DA;56, 12' 1 'B;-/-*6' ?62 'B*8.' ,119' -* ;5*' 2' 5 =,' MB7-% ' QT' L/ ' ' KC X' 6.' ,)*' 12/ ' .6 *' -*,-*6,' M 86/0' ? "!' !' 'KSQ'._%X' .**' 12' 1)/*2' I? 1'=% NN' 2/%X% *D;>)602*[^ [6-'6==*6-.')18*+*-'0;-25').' --;=,12' 2,1' 5 =,' ,1')6+*' >6-- *0' 1 ',1' 6D /12',)*' B*8.')1')60' -*, -*0',),)*-' MB1.*=)% & !' L ' R' X% 2',)*' 1,)*-')620' /*L620*-',)*' 4-*6,'=/6>*0'6'>12. 0*-6D/*' 2;?^ D*-' 1 'B*8.' 2',)*' /*L620- 6' 1;20*0' D ') ?' 620' D*.,18*0',;=12',)*?' *_;6/ - 5),.' 1' 8 ,)',)*' 5 =,62' >, [*2.' MB1.*=)% & % ' T >1?=% & ' L L ' 'KX% I,1/*?' 65' 2,-;.,*0' B*8.' 8 ,)' ?/ ,6- '=1. ,12.' 6//18*0' 6'=1-,12' 1',)*' B*8 .)' =1=;/6,12',1'.*,,/*' 2' -*2*' MB1.*=)% & % ' %

.*=)% & !' L + ' KX% : *')60') .' .*6,'6,' /*L620- 6 ' , ?*' 8*' 20' 2' 6// ,)*' ?=1-,62,' > , *. ' *.=*> 6// ' 620' 86.' >6//*0' 62' " "' M_% +%X ' O * % 1 ' MB1! ;)1.*' 1 '6' ?6- , ?*' 620' >1? ?*-> 6/' >)6-6>,*-' >1?^ .*=) ' L+ 'Q T' L L ' T' LL ' NT' >1?=' /)*2C' ?;2 , *.' 8 ,)' . 26515;*.' 1-' =-1.*;>).*' M >,.' L+ C' *-0' , ** '%" !'=% SQ' ._%X' 8 ,)' 8) >)' ,)*A76726-> ' L+ 'K X% **' & ! 1 ',)*' ?10*-2' - *2,6/ ¯)- ., 62.' 26A I' D*' >1?=6-*O% '620' ,6/ ')60' D* 1-*' 1?=* '21' .*,,/*0' B*8 .↑ : 1' 86.' .;==1-,*0' D '6'>1;2> /'1 '*/0*-.' I % 8 '6>^ D;*,' -1?',)*' B*8 .)'=- .12*-.' 1 ' 86-' 8)1')60' * ,)*-' >1-0 25',1',)*' 6--625*?*2,' 2., ,;*0' D ' ;5;.,;.' D**2' -*0**?*0' 1-' 0 .? ..*0' 12' 6>>1;2,' 1 ',)* -' ?^ M) /1 'L%%!' 'SK X% **' ' ! ()*.*' B*8 .' =-6>, >6D/*')6D ,.' M) /1 'L%%!' 'SQX',)*-*' 218'5-*8')60' >1?=/*,*/ ' 601=.*0' 4-**9' ;20*-',)*' ,1/*? *.↑ =-1.=*- , ' 1-',)*' 6D1/*' 2' 6' .*=6-6,*' B*8 .)' _;6-,*-' ,' 86.',)*' 4-**9'/*6-2 25 ' %'*=) /1.1=) ' 8) >)' /1;-^ 6>-1..' ,)*' (D*-% **' ! ()*' 8*-*' 6>>1-0*0' ;// -**01?' 1 ' 81,.) ='620' 8*-*' *+*2' .;>>*.. ;/ 2' .)*0' ?' /*L620- 6 ' 6/.1' 1;20' 60? .. 12',1',)*?á ?69 25' =-1.*/ ,*.% ()*' ?;.,' .112')6+*' - .*2',1' ,)*' /*L620- 62' 6DD 2.' 8*-*' 6?125',)*' ?1..'/*6-2^ =-1.=*- , ' 1-',)*' *6-/ '(*?=/*>12,- D;, 12.' M) /1' *0' B*8 .↑ ,)*' 1-?*0' 1-',)*?.*/+*.'6'=*>;/ 6-'-*/ 5^ L%%!' 'SQX' 1 ',)*' ,6/ 62' B*8 .' M >*-1' ! KQX' 1;',)*?á ,)*' /*L620- 62' 6DD 2.' 8*-*' 6?125',)*' ?1..'/*6-2^ 86.' +*- ' >12. 0*-6D/*% ()*' 8*-*' 12>*' *L=*//*0' *0' B*8 .↑ ,)*' 1-?*0' 1-',)*?.*/+*.'6'=*>;/ 6-'-*/ 5^ -1?' 1?*' ;20*-' (D*- ;. ' 620' 656 2' D ' /6;0 ;.' 1';)' =;' 6' .*/ ' 601=.*0' 4-**9' ;20*-',)*' ,1/*? *.↑ M >,.' L+ ' KX% **' $ $! 2',)* -'/6,*-' 6,*' =-1.=*- , ' 1-',)*' *6-/ '(*?=/*>12,- D;, 12.' M) /1' .**' B1.,' ? "!' 'D ! ' NKS' ._%' 8)1')18*+*-')6.' L%%!' 'SQX' 1 ',)*' ,6/ 62' B*8 .' M >*-1' ! KQX')*-*' 6.' 2') .' 62,*>*0*2,' .*>, 12.' 12',)*' *L,-6C 6/*.^ 86.' +*- ' >12. 0*-6D/*% ()*' 8*-*' 12>*' *L=*//*0' -1?' 1?*' ;20*-' (D*- ;. ' 620' 656 2' D ' /6;0 ;.' , 2 62' B*8 . ' 6 /*0',1' 5 +*' '-* *-*2>*',1',)*' ;^ 1';)' =;' 6' .*/ ' 601=.*0' 4-**9' ;20*-',)*' ,1/*? *.↑ M >,.' L+ ' KX% **' $ $! 2',)* -'/6,*-' 6,*' ,)1-',*.% ' 2,-2. >'+6/;*'6-*',)*'*L=1. ,12.'1',)*' =;D/ >'01>;?*2,.' D*6-25'12',) .' .;DA*>,' 2',)*',81' 1-?',)*' *.↑ =-1.=*- , ' 1-',)*' *6-/ '(*?=/*>12,- D;, 12.' M) /1' 81-9.' ' ' 5 ! ' & ! ' ! ! % ' & ' L%%!' 'SQX' 1 ',)*' ,6/ 62' B*8 .' M >*-1' ! KQX' ! ' ' ' 'D %" ' '-*.',%'6' 86.' +*- ' >12. 0*-6D/*% ()*' 8*-*' 12>*' *L=*//*0' =.% Q ST' B%'4-121+%' M *0% KX'620' ' '5 !'% 'D =' 1/ 2 ' ; !' -" ' 'N N ._%X% ()*' B*8 .)' >1/12 ' 2' ! '6'B%'(% -*D.'M =.% SQX% 1?='6/.1' *++.C' -*2*' M A(*26 >6X' 86.' 0'*- +*0' -1?' : 5 =,' *2A1 *0' .1)2' ' 'D ! ' %QRXI' & 6/>)' # '% " ' / 9*' =- + /*5*.' 8 ,)' ,)*' 1,)*-' 2)6D ,62,.' 620',)60' 6' D **' 3 ' 86.' 621,)*-' =/6>*',1' 8) >)' ,)*' B*8 .' ? ^ . 26515;*' / 9*8 .*' 2' B*-;.6/*?' M >,.' + 'RX% ,1/*^ M B% 4-121+%' M * 0% KX'620' ' '5 !'% 'D =' ? ' 65 ' 8)1' .;DA;56,*0' -*2*' MB;., 2 'LL ' X'6=^ 5-6,*0' 6 ,*-',)*' , ?*' 1 ' */*;>;.' >6,1-' 620')*-*' =*6-.',1') 6+*' D*>1?*') ?./',)*' 1;20*-' 1 ',) .' >1/1^ ,)*' 8*-*' 5-62,*0' D ',) .' =- 2>*' *_;6/ - 5),.'6,' 2, ^ 2 '620',1')6+*' .1;5),',1'.*>;-*',) .' =-1+ 2>*',1') ?^ 1>)' 620' 1,)*-' >, *.' 8 ,)' ,)*' <6>*012 62.' MB1.*=)% .*/' D ',)*.*' ?*62.' MB1.*=)% &%!' ' X% $20*-' ,)* & !' N X% ()*' 1//18 25' 9 25.' 1',) .'0 26., '/ 9*^ /6,*-' 1?62' *?=*-1-.' 1',)*' -.,' >*2,;- ')18*+*-' 8 .*' 8 ,)' ,)*' *L>*=, 12' 1' 2, 1>);.' =)62*.' M_% ,)*' B*8 .)' =1=;/6, 12' .1;5),',1'6>_;-*' 6'=-*C*?^ +%X' 6+1-*0',)*' B*8 .' MB1.*=)% '+ ' N' NXT',)*' ' 2*2>*' 1+*-',)*' 1,)*-' 2)6D ,62,.' 620',);.' D-1;5),'12' / +*0' 2' =-1.=*- , ' >1;/0' *+*2' ?69*' =-1.*/ ,*.')60' D/110 ' >12,*.,.' 8) >)' *20*0' 2',)*' *L=;/. 12' 1',)*' 6,' 2, 1>)',)*-' 18 2' -;/*-' MZ %X'620' 8*-*' 2' 6?6.^ B*8 .' ? ^ >;.' 2;?*-1;.' MB1.*=)% ' 'K 'KX% *+*-,)*/*..' 5-6,*0' 6 ,*-',)*',)*' ,1/*? *.↑ =-1.=*- , ' >1;/0' *+*2' ?69*' =-1.*/ ,*.')60')*-*',11',)*=1=;/6-')6,*' 86.' 2 /6?*0'656 2.',)*?1?> ' /125' -*.,-6 2*0' ,' 26// 'D-19*' 1;,';20*-' *-1' Mc %X' ( )6,'6//',)*' 6? /*.'1 '?62'0*.>*20*0' -1?',)*' -.,') ;?62' =6 -'620' 8*-*' D '0*5-**. ' 6 ,*-',)*' >12 7. 12' ,)*2' ;20*-' *.=6. 62' 8 ,)' 5-*6,' + 1/*2>*' 620';20*-' 1',)*' 6D*/CD; /0*-.' 620',)*' 0 + . 12' 1',)*' *6-,)' 2' =6,-1265*' 1',)*' 1?62' 6-?.' 2 / >,*0' *+*- ' ?^ ,1*' 06 .' 1' */*5 ' 0 .=*-.*0' 1+*-',)*' .*+*-6/' *D;2C' 65 26D/*' *+ / ;=12',)*' B*8 .' MB1.*=)% ' SX% *,' -.' 1 ',)*' *6-,)' .'>/*6-/ ',)*' 01>,- 2*' 1',)*' D/*' (,;.' 6 ,*-',)*' 0*.,-;>, 12' 1 'B*-;.6/*? ' D* - *20*0' M4*2*' L ' RT' L ' K T' >1?=% *',% LLL ' QT' >,.' L+ .)*-*' *-.*>;,*0' =*1=/*' 620' -*.,1*-0',1',)*' ,)*' >)6=,*-' 1 '4*2^ - 5),.' MB1.*=)% '+ ' KX% % **' ' ! KSX% ()*' 1DA*>,'1 '<1.*.' 2',)*' ,)'>)6=,*-' 1 '4*2^ -1?' - 6',)*' B*8 .')60' 1;20',)* -' 86 ' 2,1' . 6' *.. ' 86.',1' ;-2 .)' -1?',)*' 62> *2,'01>;?*2,.' 8) >)' < 21-' M ' *,% ' T') /1 'L%%!' 'QKX% .'C*6-/ ' 6.')60' 0*.>*20*0',1') .', ?*' 6' D- * ' D;,' 6;,)*2, > 5*2*^ 2, 1>);.' ()*1.',)*' B*8 .' 2' 12 6' 8*-*' 5-62,*0',)*' 6/15 >6/ ,6D/*' 1',)*' 0*.>*2062,.' 1' 06?' 2',)*' / 2*=- + /*5*' 1 '>, [*2.) ='MB1.*=)% & !' L ' N' KXT' D;,' 2^ 1' *,)' ;2,1',)*' ,?*' 1',)*' /110' 2',)*' 06 .' 1' , 1>);.',)*' 4-*6,'=/62,*0' 2')- 5 6' 620' 0 6' 8) >)' 16)' 620') .' .12.%

)60' D**2' 1+*-;2' D ') ?'>1/12 *.' 1 'B*8 .' -1?' <*.1^ =1,6? 6' 620' 6D /12 6' 6?1;2, 25',1' N ' 6? / *.' I !' N X% 'B;/ ;.' **.6-' 2',)*' /6,*-',?*.' 1 ',)*' 1?62' -*=;D/ >' 620' D ' ;5;.,;.' ',)*-*' 8*-*' ..;*0' 6'.*- *.'1 '0*>-**.' MB1.*=)% & !' L + ' T' L+ 'SX',1',)*' ?1.,' 1 ',)*' >) * ' >, *.' 1 ' . 6' < 21-' *% 5% =)*.;.' 6-0 .' 610 >*6' : 6/ >6-26..;.' *,>% ' 2' 8) >)',)*' ;2^ -*.,-' >.*0' *L*-> .*' 1 ',)* -'-*/ 5 1;.' 81-.) ='5*2*-6// ' 6/.1' -**01?' -1?' ? / ,6- ' .*-+ >*' 620',)*' =- + /*5*' 1 '.*20 25',)*' (*?=/*' >12,- D;, 12' 620' -.,/ 25.',1' B*-;.6/*? ' 8) >)' *+*2' 1?62'51+*-21-.')60' 6,', ?*.' 2,*-0 >,*0' I ' L+ ' K' NX' 8*-*' 6..;-*0',1',)*' B*8 .% **' *6>)' 1',)*.*' >, *.' 2',)* -'=/6>*% **' ' ! -1?' . 6' < 21-',11',)*' -.,' B*8 .' ?6 ')6+*' D**2' 6,,-6>,*0',1' ? ' I % ' -8 ' & A-8+' B1)2' + ' N X' 6A ' <6>*012 6' 8)*-*' 6',)*' 6=1.,/*.



the free exercise of their respective modes of worship. The privilege was accorded to Lutherans, Calvinists, Arminians, and Greeks, but not to Anabaptists, Socinians, and Quakers. In the latter part of the sixteenth century, a large part of the people, and perhaps half of the nobility, were Protestants. "The Convention of Sandomir, concluded in 1570, united the Lutherans, Calvinists, and Bohemian Brethren into one Church—a union which had also a political tendency, and whose members obtained the same rights with the Catholics by the religious peace (*pax dissidentium*) sworn by the king in 1573. But the great mistake in not settling the mutual relations of the two religious parties gave rise to bloody contests. Although the rights of the dissidents were afterwards repeatedly confirmed, they were gradually repealed, particularly in 1717 and 1718, in the reign of Augustus II, when dissidents were deprived of the right of voting in the Diet. They lost still more some years afterwards (1733) under Augustus III; and in the Diet of Pacification, as it was called, in 1736, an old statute, requiring every Polish king to be of the Catholic Church, was revived. After the succession of the last king, Stanislaus Poniatowski, the dissidents brought their grievances before the Diet held in 1766, and were supported in their claims by Russia, Denmark, Prussia, and England. Russia, in particular, profited by the occasion to extend her influence in the affairs of Poland, supported them strongly by her mediation, in bringing about a new Convention in 1767, by which they were again placed on an equal footing with the Catholics. The Diet of 1768 repealed the decrees which had been formerly passed against them. The war against the confederates breaking out, however, and the kingdom being dismembered, nothing was accomplished until the year 1775, when the dissidents regained all their privileges, excepting the right of being elected senators or ministers of state" (Henderson's Buck, *Theol. Dictionary*, s. v.). See POLAND. The name Dissidents (German Dissidenten) is also sometimes used as the collective name for all adherents of religious denominations which have no legal existence in any particular state. See TOLERATION.

Distaff (פֶּלֶךְ, *pe'lek*, prop. a *circle*, e. g. a district or quarter of a city, "part," Neh. iii, 9-18; hence the *whirl* of a spindle, with which it is put in parallelism, Prov. xxxi, 19; once a "staff," or crutch, 2 Sam. iii, 29), the instrument used for twisting the thread in spinning by its twirl. See SPINDLE.

District, in the Methodist Episcopal Church, a territorial division of a Conference. Each Conference is divided into districts, including a convenient number of churches and societies (appointments); and each district is placed under the charge of a presiding elder. The bishops are empowered to form the districts according to their judgment. See *Discipline of the M. E. Church*, pt. ii, § 13; Stevens, *Hist. of Methodism*, bk. vii, ch. ii; and the art. PRESIDING ELDER.

Ditch (גֵּב, *geb*, a *pit* [as rendered in Jer. x, 31] or trench for cistern-water, 2 Kings iii, 16; מִקְוֶה, *mikvah'*, a *collection* or pool of water, Isa. xxii, 11; שׁוּחָה, *shuchah'*, Prov. xxiii, 27, or שַׁחַת, *shach'ath*, Job ix, xxxi, a *pit*, as elsewhere rendered, or hole in the ground, either for holding surplus water or for catching animals; like the Greek βόθυνος, Matt. xv, 14; Luke vi, 39). See CISTERN; POOL.

Ditheism, the worship of two gods.

(1.) This term was sometimes applied by the orthodox to the Arians, on the ground that they believed in one God, the Father, who is eternal, and one God, the Son, not eternal.

(2.) The term is also applied to the doctrine of two first principles, or gods, one good, the other evil. "The chiefest and most eminent asserters of this ditheistic doctrine of two self-existent principles in the universe were the Marcionites and the Manichæans, both of which sects, though they made some slight pretence to Christianity, yet were not by Christians owned for such. Some of the pagans also entertained the same opinion."—Cudworth, *True Intellectual System* (Andover, 1837), i, 290. See DUALISM.

Dithmar, JUSTUS CHRISTOPH, a German divine and jurist, was born March 13, 1677, at Rottenburg, in Hesse. After studying at the University of Marburg, where he applied himself to theology and the Oriental languages, he removed to Leyden, where he was offered a professorship, which he refused in order to accompany a family, in which he was tutor, to Frankfort on the Oder, where he first became professor of history, then of the law of nature, and finally of statistics and finance. He was made a member of the Royal Society of Berlin, and a councillor of the order of St. John. He died at Frankfort in 1737. Among his works are, *Gregorii VII Pont. Romani Vita* (Frankf. 1710, 8vo):—*Historia Belli inter Imperium et Sacerdotium* (ibid. 8vo):—*Summa Capita Antiq. Judaicarum et Romanarum in usum Prælectionum privatarum* (ibid. 4to).—Hoefer, *Nouv. Biog. Générale*, xiv, 827.

Ditmar. See THIETMAR.

Divan, the cushioned sofa running around three sides of the lewan, or raised portion of the sitting-room of an Oriental residence (Lane's *Mod. Egypt.* i, 17),

A Syrian Turk's Divan.

620' .*-+ 25',) *' =;-=1.*' 1 '6' .*6,'D ' 06 '620'6' >1;>)' D ' 2 5),' 1-' ,) *' ?6/*' ?*?D*-.' 1 ',) *' 6? / ' 620' 5;*.,.% ** ' ,' .' -1?' . L' 2>)*.' ,1' 6' 11,') 5) ' 6' / ,,/*' */*+6,*0' 2' -12,' 620' 6D1;,' 1;-' **,' 8 0*% ()*' 625/*.' 6-*',) *' =1.,' 1 ')121-% ()*' >1?^ ?12' =*1=/*' 1 ' 6/*., 2*' 620' 5 =,')6+*' 21' =-1=*-' D*0 '620'01?*., >.' ./**='12',) *' /11-' 1-' 2',) *' =6..65*. ' 8)*-*+*-' ,) * ' >62' 20' -11?' M *#/ .' $ ' =% KNX%

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+*-.*' + (' ' ' '" 1 ' *+% L L ' RT' *;,% LL ' RX' 9 20.' 1 ' ?6,*- 6/.' 62 ?6/.' 1-' =-10;>,.' ,) *' B*8 .' 8*-*' 1-D 00*2',1' D- 25' ,15*,) *' M>1?=% B1.*=) % & ! L 'Q' K X' 6.' D* 25' >12^ ;. 12 J' % *% ;226,;-6/) D- 0 [6, 12% ?125' .;>)' >1? ? 25/ 25' 1 ' 2>1?=6, D/*' 1-' 2>125-;*2,',) 25.' 6-*' .=*> *0á % 1,',1' 8*6-' 56-?*2,.' 8) >)' 8*-*' 81+*2' 1 ',81' 9 20.' 1 '.,; '=6-, >;/6-/ '1 '811/ 620' / 2*2' M/ 2.* C811/.* XT K% 1,',1' .18' 6' */0' =6-,/ ' 8 ,)' 12*' 9 20' 1 '.**0' 620' =6-,/ ' 8 ,)' 621,) *' M.*' $ $ 3' N% 1,',1' 19*' 62' 1L' 620' 62' 6..' ,1^ 5*,) *-' ,1' ,) *' =/1;5)' M_% +%X' % 1-' ,1' =6 -' 0 *-*2,' .=*> *.' 1 ' 62 ?6/.' 2' D-** 0 25' M*% 5' 1 ',1' =-1>;-*' 21' ?;/*.X% '/*56/' ?=*0 ?*2,'.'6,,6>)*0' ,' .',-;*',1' 12/ ',) *' .*>120' 1 ',) *.*' 1-0 262>*.' 26?*/ ',) *' -*2^ 0*- 25',) *' =-10;>*' 1 ',) *' *;,% L L ' RXT' ,;;' 6' . ? /6-' -*.;/,' .' 01;D,/*..',1' D*' ;20*-^ .,110' 6.' 6==/ 25',1' *6>)' =-1) D , 12 ' 620',1' 6//' 1,) *-' 6?6/56?6, 12.% ()*-*' .' 6/.1' .1?*' 6?D 5;, ' 2',) *' .,6,;,*' ,.*/ ' *% 5% 8) *,) *-' ,) *' ' */0J' MG((/ X 1',) *' =6..65*' 2' *+% D*' ,62,6?1;2,',1' ,) *' + 2* 6-0J' M 7NX' 1 ',) *' =6-6//*/ 2' *;,% '620' 6/.1' 2' ,) *' .*2.*' =',) *' >1?? 25/ 25' 0 ',) *' .**0J%MNH7(XT D;',) *' /6L^ , '1 ' : *D-*8' 0 1?' 6;,)1- [*.' 6' / D*-6/ 620' >1?=-*^)*2. +*' >12.,-;>, 12' 1 ',) *' *26>,?*2,'6.' 0*. 52*0',1' 2,*-0 >,' 62 ' >1?D 26, 12' 1 ' >-1=.' M8) *,) *-' 2' .*=6^ -6,*' -18.' 1-' >1?? 25/*0' D-160>6.,X' ;=12',) *' .6?*' = *>*' 1 ', //*0' 5-1;20' 1->)6-0' *,>%T 620' .;>)' 86.',) *' 2,*-=-*,6, 12' 1 ',) *' B*8 .' M< .)26') ' +C+ X% ** f ()*' 0*. 52' 1 ',) *.*' =-*.>- =, 12.' 86.' 01;D,/*..',1' * *>,'6' ., // 5-*6,*-' 0 ., 2>, 12' D*, 8***2' ,) *' >)1.*2' =*1=/*' 1 '410' 620',) *')*6,)*2' 8)1' =-6>^ , .*0' 6// ,) *.*' 620' 1,) *-' .1-,.' 1 '=-1? .>;1;.' ;2 12.' 620' 6) M-,1' *25*20*-' 620' >;/, +6,*' 6' 2 >*-' .*2.*' 1 ' =-1=- *, ' 620' =;-, ' 2' ,) *' B*8 .)' ? 20' 6.' 2' ,) *' >6.*' 1 '?62 '1,) *-' 6==6-*2,/ '2 >*' 0 .>- ? 26, 12.'-'*^ /6, 25',1' 06 /A7/ *% ** ' 620' ['*,>% 21,) *-' -*6.12')6.' D**2',) 1;5),',1' D*' ,) *' 0*6',)6,' B*)1+6/ '6.',) *' 6;,)1-' 1 '26,;-*')60' 6'A*6/1;.'-*56-0' ,1',)_ 7=-*.*-+6, 12' 1 ' .' +6- *0' *6,;-*.' 2,6>,' 620' 0 ., 2>,' M.**) / ==.12' ! =% SN X% ()*' (6/?;0' >12,*2,.' ,.*/ ' M< .)26') ' ' X' 8 ,)' 5 + 25' 0*^ ,6 /*0' -*5;/6, 12.' ;=12' *6>)' 1 ',) *' 1-0 262>*.' 2' _;*.^ , 12' 1 ',) *.*' 2' >122*>, 12' 8 ,)' 81' // D*' .; > *2,',1' 21, >*' 12/ ',) *' ?1.,' ?=1-,62,' I !1' & ,)' -*56-0',1',) *' =-1) D , 12' 1 ') D- 0 [25' 62 ?6/.' M6.',) *' 6..' 620',) *')1-.*',) *' .) **=' 620',) *' 516,' .;>)' 12/ ' 6.' D*/125',1',) *' .6?*' 5*2;.' 6-*' >6=6D/*' 1 ',) .X' B1.*^ =);.' I1& ! + ' Q' K X' 620') /1' IL%%!' N X' ?=/ ',) 6,' ,')60' ,.' 5-1;20' 2',) *' ?1-6/*.*>,' 1 '.;>)' --*5;/6-' />*2.*' ;=12',) *') ;?62' D* 25.' 8)1' 8*-*' 2' 0625*-' ,) *-*D ' 21,' 12/ ' 1 ',-6?=/ 25' ;=12',) *' -*6,1-.' 1-^ 0 262>*.' M8) >)' L' 6' 26,;-6/ D6-- *-' D*, 8***2' 0 *-^ *2,' .=*> *.X' D;,' 6/.1' 1 'D* 25' 2> ,*0',1' D*., 6/ >1?^ ?*2>*' 620' ;226,;-6/ 6==*, ,*.' M>1?=' 6/.1',) *' :6DC D 2 >6/ >,6, 12.' 2' :1,, 25*-' D ' " < ' ' =% N ' .%X% < ;/*.' M_% +%X' ?6 ') 6+*' D**2' ?=1-,*0' -1?' 1,) *-' >1;2,-*.' M 86/0' *+*2' ?65 2*.',) 6,',) *.*' 8*-*' 21,' 2>/;0*0' 2',) *' =-1) D , 12' ! & " '=% KKKX' .2>*',) *' B*8.' 8*-*' 12/ ' 1-D 00*2',) *' -*.-2' 21,',) *' ;.*' 1 ',) *?% MS%X' *.=*>, 25',) *' >1;=/ 25' 1 ',) *' 1L' 620',) *' 6..' 6.' D*6.,,' 1 '0-6;5),' M -.>) ' ' '

?65 >' 6-,. ' 8) >)' ?6 ' D*' 1;20' 2' : 1 ?622 .' 1' B*-% ' N 1' 62% ' KX ' 8) 1' 2' 6// 26, 12.' ?60*' ,' . ; DC'3
>12' ' R ' 620' 1,,*-' 12' ,) *' , ' $ ' M 2' ,)*' .*-+ *2', ,1',) * -'182' =;-=1.*.% ( ) ; .' 2' *-. 6 ')6-^
6 ' % ' =,% + ' 8) >)' >12,6 2.' .1?*' ,) -, ' 0 2' .6 .' ,) 6,' ,) *' 6.,-1/15*-.' 81;/0' ?69*' *+*2' ,)*'
26 ?*.' *20 25' 2' = 1' 1-' >1 ? =1 ; 20.' 1 'A66-- 6 ' 6// .)6)' - .*' 6,' ? 02 5),' 620' ,-6+*/' 2' ,)*' 81-.,' 8 *6,)*-'
D-62>)*.' 1 ' ,)*' ?65 >' 6-,X% 1-%)6+*' ,)*.*' *L=*^ 2' 1D*0 *2>*' ,1',) * -' .;55*., 12.% **' !
0 *2,.' 1 '. ; =*-. , 12' D**2' >12 2*0' ,1' 12*' 65*' 1-' ,1' 6' ( )*' 2+*2, 12' 1 ' 0 + 26, 12' .' 6.>- D*0' ,1' -1 ? *^
. 25/*' 26, 12% ( )*' ?*,*1- >' =1-,*2,. ' 1-' 2.,62>*' ,)*; .' 1' !'N !' RKX',1',)*')- 5 62.' 620'
8) >)' ; .*0' ,1' *L> ,*' ,)*' . ; -= .*' 620' *6-' 1 ',)*' 1/0' ,-; - 62. ' *.=*> 6// ' .65*.' M >*-1 ' ' ' ' ! ' 620'
4-**9.' 620' 1?62. ' 6-*' ., // *?=/1 *0' 6?125',)*' /*?% /*L% $ ' NKS' 8)*-*' ,)*-*' .' 6' 5-*6,' 0*6/'
D6-D6- 62.' 1 ' ->6' M*% 5% ' 1 ' ,)*' <62 96 ?1-*' 12' ,)*' . ; DA*>,X ' 1-' M6.' D ',)*' 6,)*-.' 5*2*-6// X'
,- D*' 7-6= .' - !' '6!' & ' = ' ' _ %X' 620' 6.' ,1' ,)*' 0*+ / M -? >% < 6,*? ; . ' ' ' 6 ' -11*?'
,)*' 62> *2,.' -*60' *6- ;/ . 52.' 2' ,)*' 6*>*.' 1 '62 ?6/.' 6>,62,% ' S' < 2; >% */ L% , ! K X% 2' ,)*' .6?*'
M -5 / ' ? ' ' RX' ,)*' .6+65*' 69?6 2.' 20 >6,*' 8 6 ' U1-16.,*-' 6.>- D*.' 6// ?65 >' ,1')- ?62' M 1-9 '
,)*' =-*.*?>*' 1 ',)*' ,*-- D/*' 6// 56,1-' 8 ,)' ,)*' -' " ' ; ! '5 "! =% R X% ? /6- 1= 2 12.')6+*' =-*^
" ' 1' ,)*-*' . 2J' M + 25.,12* .' - ! '$!' & ' +6 /*0' 2' ?10*-2' , ?*.' M -' ()1?6.' -182*' N '
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, 12. ' 6/ 9*' > + / [*0' 620' .6+65*% ,' 6-.*.' -1?' 62' 1- ?.') 60' D*>1?*' 1DA*>,.' 1 ' =1 = ; /6-' .; =*-., , 12 ' 1-'
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25' -1+ 0*2>*' ,)*' * ' .; *-.') .' 8 //',1' D*' 92182' 1 'B1.*=) ' ,' .' 8*// 92182',)6,' 6,',)*' , ?*' 1 ',)*' : *^
,1' ?*2' =6-,/ ' D ' 2.= - 25',)1.*' &)1' -1?' = ; - , ' 1 ' D-*8' L10 ; .' ,)*-*' 8*-*' ?65 > 62.' 2' ,)6,' >1 ; 2,- '
>)6-6>,*-' 1-' */*+6, 12' 1 '. = - ,' 8*-*' . ; .>*=, D/*' 1 ',)*' 8) 1.*' 9218 /*05*' 1 ',)*' 6->626' 1 '26, ; -*' 620' 8) 1.*'
0 + 2*' 6 /6, ; .' ID ') -) , 8' 0*L,*- , ' 2',)*' =-6>, >*' 1 ',)*' -' 6-,' *26D/*0' ,)*?' ,1'
620' =6-,/ ' D ' 5 + 25' =*-=*, ; 6/ 20 >6, 12.' 1 ',)*' ;^ 6' >*-,6 2' *L,*2, ' ,1' *_ ; 6/ ,)*' ? -6>/*.' 1 ' <1.*.% '
. ; -*' 8) >)' ?; .,' D*' /*6-2*0' D ' *L=*-. *2>*' 620' 1D.*-^ &) 6, ' *L,-61-0 26- ' =18*-.' ,)* ' 6>) *+*0' ,)1/*' *6,. '
+6, 12' M >*-1' ' ! ' Q' / 2 ' LLL ' X%) 18',)* ' >)625*0' ,)* -' -10.' 2,1' .*-=*2,. ' ,)*' - +*-'
I !(8 ( )*' -.,' 9 20' 1 '0 + 26, 12' 86.' >6//*0' ' 86,*-' 2,1' D/110' 620' 2,-10 ; >*0' -15.' 2' ; 2=-*>*0*2,^
I - 1, ' 11) - , 81' 2' 8) >)' ,)*' ?*0 ; ?I' 1 ' 2.= -6^ *0' 2 ; ?D*-. ' .' 62' 2_ ; - ' ,)6,')6.' 1>>6. 12*0' 5-*6,'
, 12' 86.' ,-62.=1-,*0' -1?') .' 182' 20 + 0 ; 6/ , ' 620' =*-=/*L , ' ,1' ?62 ' ?*2' 1 '/*6-2 25' 620' = *, % **'
D*>6?*' ,)*' =6.. +*' 2.,-; ?*2,' 1 ' .; =*-26, ; -6/' ; ,.*-^ (' : . C(3!
62>*.' M -5% 6 ! + ' T' + 0' ' 'S ' *,>%X% .' ,' .'-*6.126D/*' ,1' .; ==1.*' ,)6,' 6.' <1.*.' 2*+*-') 60'
,) .' =-1>*.' 2+1/+*0' + 1/*2,' >12+ ; /. 12. ' ,)*' 81-0' D**2' ' 62 ' 1,)*-' > + / [*0' >1 ; 2,- ' 6// ,)*' 6// ; . 12.'
-) 8 ' " ' .' 0*- +*0' -1?' ' ,1' >12,6 2*0' 2') .' 8 - , 25.' ,1',)*' +6- 1 ; .' 1-?.' 1 '0 + ^
' 620' 6// ; 0*.' ,1' ,)*' 16? 25' ?1 ; ,)' 620' .,-*6? 25' 26, 12' 8*-*',)1.*' 8) >)' 8*-*' =6-> ,.*0' 2' 5 =,' 620'
)6 -' 1 ',)*' =1..*..*0' .**-' M /6,1' - ' K' ' 8)*-*',)*' 20**0' .1' .,-125' 6' ,6.,*')60') .' >1 ; 2,- ?*2' ?D D*0'
1 - ' .' >6-* ; // ' 0 ., 25 ; .)*0' -1?' ,)*' O-=17W2\>X% ,)*-*' 1-',) .' .=*> *.' 1 ' .; =*-., , 12 ' ,)6,' ,)-1 ; 5)1 ; ,'
; ,'*+*2' 2' ,)*' ?1.,'=6.. 126,*' 620' --*. , D/*' =-1=)^ ,)*' 8)1/*' >1 ; -.*' 1 ',)*' -') .,1- ' ,' .**?.' ,1')6+*' 2^
>.' 1 ' >- =, ; -*' 8*')6+*' 212*' 1 ',)*.*' ; 226, ; -6/' 0 .^ *>,*0',)*' 26, 126/ >)6-6>,*-' 620')A D ,.% 1-' 86.' ,'
,1-, 12.' M ; ?% LL ' T' .6% LLL L ' NT' B*-% LL ' RX' >12 2*0',1',)*' + > 2 , 1 ' 6/*., 2*' 1-'6.' *6-/ '6.',)*'
6/,)1 ; 5)' 6.' 8*' .)6// .**',)*' 8*-*' >)6-6>,*- ., >' 1 ' , ?*' 1 ' 6/66?' M _% +%X' 8*' 20' ,' =-6>, .*0' D ' =-1 *.^
=-*,*20*-.,1',)*' 5 ,% ** ' # ! . 126/ >)6-6>,*-.' ,1' ,)*' +*- ' D629.' 1 ',)*' ;=)-6,*.'
MS%X' ( )*' 1,)*-' 9 20' 1 '0 + 26, 12' 86.' 6-, > 6/ I P' M ; ?% LL ' ' T' .**' *0*-?622 ' ' ' *1' 1'
)<@8' 620' =-1D6D/ ' 1- 5 26,*0' 2' 62')12*.,' >12+ >, 12' ' ,*?D% X% ( )*' 0 + 2*-.' 8)1' 6D1 ; 20*0'
,)6,' *L,*-26/' 26, ; -*' . ?=6,) [*0' 8 ,)' 620' -*_ ; *2,/ ' D1,)' 6?125.,' ,)*' 6D1- 5 2*.' 1 ' 62662' 620',)*' -') ^
20 >6,*0',)*' >120 , 12' 620' =-1.=*>,.' 1 ' ?629 20 ' 6' / .,2*' 2* 5) D1-.' M .6% ' SX ' =-1+*0' 6' 5-*6,' .26-*' ,1'
>12+ >, 12' 21,' 2' ,.*/ ' - 0 > ; /1 ; . ' 620' 1.,*-*0' D ',)*' ,)*' .-6*/ ,*.' 6 ,*-' ,)*' -' .*,,/*?*2,' 2' ,)*' =-1? .*0'
6>> 0*2,6/ . 2>)-12 .?' 1 ' 26, ; -6/ =)*21?*26' 8 ,)' /620 1' 620' *,A 21,8 ,) . ,620 25',)*' . ,*-2' =-1) D , 12.'
) ; ?62' >6,6.,-1=)*.' M ( ) ; > O% ' QRT' B1.*=) ; .' ' 1 ',)*' /68 ' 21' + 51-1 ; .' * D-,.' 8*-*' ?60*' ,1' = ; ,' 62'
+ ' NT' 1L* .' ' S' *,>%X% I &) *2' 12>*' *20',1',)*' >- ?*' D ' *L, -=6, 25',)*' =-6>, , 12*.' 1 '
,) .' **/ 25' 86.' *.,6D/ .)*0',)*' .; ==1.*0' ?62 *.,6^ ,)*' ;2) 6//18*0' 6-' ; 2, / ,)*' 06 .' 1 ' 6 ; / ' 8) 1') ?^
, 12.' 8*-*' 2 2 ,*/ ' ?; /, =/ *0' 620')*2>*' ,)*' 2 ; ?^ .*/ ') 18*+*-' + 1/6,*0',)*' ..6, ; ,*' 12',)*' 2 5),' =-*^
D*-/*..' 1-?.' 1 ' ?=1.,; -*' 1-' 521-62>*' >6//*0' >6=21% + 1 ; .' ,1' D .I0 .6.,-1 ; .' 6// M ' 6?% LL+ X% ; ,' ,'
?62> '= -1?62> ' 6- ,)?1?62> ' / D621?62> ' D1% 86.')6/0.*6' ' 8) >)' ,)*' 0 ., 2>, 12' D*/125.' 1 '10*-2'
,621?62> ' >*=D6/1?62> ' *,>% ' 1 ' 8) >)' ,)*-*' 6-* 25',)*' ?1,)*-C>1 ; 2,- '1 '0 + 2*-.% **' ' 6 ! 6D ; 2062,' 6>>1 ; 2,.' 2' >*-1' ' ' ! :' 6-062 ' ' ' ; >)' 6' 0*5-*** 1 '=18*-' 620' 2 / ; *2>*')60',)* ' 6,,6 2^
$ % :' 2,12 '+% 6/*' *' , ' !:' 6D- > ; .' *0' 2',)6,' ,)6,' ,)* ' 1-?*0',)*') 5)*.,' >6k,*'
; !'&' 4!'=% RC KST' 6-=[1+' &%% ' ? !'=% C RT' 620' *2A1A7*0' 6' =/6>*' 6,' >1 ; -,' 26 ' .1' 20 .=*2.6D/*'
1,,*-.' & 4!' >)% + ' ._% 20**0',)*-*' 86.' .>6->*^ 8*-*',)* ' 2')6/0 *62' .1> *, ',)6,' 21' .,*=' >1 ; /0' D*'
/ ' 62 ' =1.. /P/*' *+*2,' 1-' 6==*6-62>*' 8) >)' 86.' 21,' ,69*2 ' 21,' 6' -*/6, 12' >1 ; /0' D*' 1-?*0 ' 6') 1 ; .*' D ; /, '
=-*..*0' 2,1',)*' .*-+ >*' 1 '6 ; 5 ; - ' 620' ,' ?6 ' D*' .6 0' A1 ; -2* ' ; 20*-,69*2 ' 6' >6?=6 52' D*5 ; 2 ' ; 2, / ,)*'
1 ',)*' 62> *2,' 4-**9.' 620' 1?62. ' 6,' 1 ',)*' ?10*-2' 0 + 2*-.')60' 6.>*-,6 2*0',)*' /;>9 ' 06 ' 620' =-1?)60'
*8' U*6/620*-.' ,)6,' '6 ,*-' ; ,,*- 25',)*' -' 96-69 6.' 6')6== ' ..; *I' ' 5-*6,' 2 /; L' 1 ',)*.*' ?=1.,1-.')60'
M1-' >)6-? .X',)*' 8) ../ 25' 1 ',)*' 8 20',)*' ?1+ 25' 1 ' 6,+6- 1 ; .' , ?*.' =1 ; -*0' -1?')6/0.*6' 620' -6D 6' 2,1'
,-**. ' ,)*' /6.)' 1 ' / 5),2 25',)*' =*6/' 1 ',) ; 20*-',)*' ,)*-*' /125' >6=, ?*' 21' /125*-' *2A1 25',)*' 5 ,' 1 '
/ 5),' 1 '6' D -0 ' *+*2',)*' D ; [[' 1 '62. ' 6,' 1 ',)*' 2.*>, ' 81 ; /0' D*' 2' 52' 1 ',)*' /6,*-' 9 25.'
-*56-0*0' 6.' 62' 62.8*-J' M (6 /1- .' 7 ' . ' =% T' M .6% + 8 ' RX' 620' 8*' 20' < 626..*)' 2=,' 12/ ' ,)*-'
18- 25 .' $ ' ' N . _ %X% ' . .,*?' >1?? *2>*0' 2' 626, > .?' *20*0' 2' 0*>*,% : *2>*' 6,1 .' 6?1 ; .' / D*-6/' =6,-12 ' D ; ,' [*6/1 ; .' ,1' 6==*6-' 6.' 12*' 1 ',)*-'
.6 25',)6,' ,' 86.' .,-625*')18',81' 6 ; 5 ; -.' >1 ; /0' ?**,' ?1-,' *L=*-,' 6>>1?=/ >*.' MK' 25.' LL ' ST' K')-12%
8 ,)1 ; ,'/6 ; 5) 25' 2' *6>)' 1,)*- .' 6>*% ; ' ,)*' .; =*=.-., , 12' 1-' 6 ,*-' ,)*-*' .; -*-, ; -2',1'
=1.*0' 9218/*05*' D*>6?*' 2' 6// 26, 12.' 62' *25 2*' 1 ' ?1-,' *25=*-' 6?125',)*' B*8.' 6' 0*+1,*0' 6,^
=1/ , >6/ =18*-' 620')*2>*' 2,*-*.' 86.' *2/ .,*0' 2' ,.' ,>6) 1-' 52' 1 ',)*' /6,*-' 9 25.' 620' 6,',)*' .6?*' , ?*' 21' /125*-' *2A1 25',)*' 5 ,' 1 '
.; ==1-,' M >*-1' ' ' ' KT' + ' + ' K T' 1=)1^ =-1=)*> ' 1-' 6>>*..' ,1',)*' .6>-*0' > >/*. ',)*' 5-60 ; ^
>/*. ' & ! T' >1?=% < >% ' X' % ,' *// 2,1',)*' 6// ' 6D62012*0',)*?.*/+*. ' 6.' 5D, 11,')6.' .6, . 6>%
D620.' 1 '6' =- *.,/ ' >6.,*' M 4*2% L/ ' QT' .6% L/+ ' NT

,1- / ' .)182'D* 1-*' ,)*' 60+*2,' 1 ')- .,' ,1' 6//' ,)*' =-*+6 / 25' 1-?.' 1 ' 0 + 26, 12' > ' ' C !(8!' Q**' >. !

;=*-., , 12' 21,' ;2 -*_;*2,/ ' 51*.')620' 2')620' 8 ,)' .>*=, > . ?' 620')*2>*' 6? 0',)*' 5*2*-6/ 2 0*/ , ' AP-*+6/*2,' ,)-1;5)' ,)*' 1?62' *?= -*' 6,' 1;-' 1-0 .' 1? 25' ?=1.,;-*' 86.' -6?=62, ' 6.' 6' 5/62>*' 6,' ,)*' =65*6'1 '(6> ,;.' 8 // .; >*' ,1' =-1+*' : *2>*' ,)*'/;^ >-6, +*',-60*.' 1 '.;>)' ?*2'6.' ?12' < 65;.'M >,.'+ RX' 6-CA*.;.'M >,.' L 'S'QX',)*' ./6+*' 8 ,)',)*' .= - ,' 1 ' ,)12'M >,.'L+ ' SX',)*' +656D120'B*8 .' *L1-> .,' M ;9*' L ' RT' >,.' L L ' NX' 620'1,)*-' ?1;2,*D629.' M 1AH-c 'K' (?' ' NT' *+' L L 'K ' *,>%X' 6.' 8*// 6.' ,)*' 21,1- 1;.' 0*6/*-.' 2' ?65 >6/' 8 - , 25.' M 7.?6' % - 8 ' 620' ,)*' A;55/*-.' I %2% 8' 6,' =)*.:,' M >,.' L L ' RX' ?125',)*' B*8 .',)*.*' /65-62,' ?^ =1.,1-.' I1 - - * 'B1.*=);.X')60'D*>1?*'0625*-1;.^ / ' 2;?*-1;.' *.=*> 6// '0;-25',)*' B*8 .)' 8 6-' 620' 8*' 20',)*?' >12.,62,/ '6//;0*0',1' 2' B1.*=);.' M 6-' + ' KT' >1?=' <6,,' LL + 'KNCK' (6> ,'# '+' KT' B1.*=)' & !' LL 'S' ' *,>%X' .' 86.' 26,;-6/',)*' / 9*' ?1.,' - *2,6/.' *.=*> 6// '>122*>,*0',)*' 26?*' 1 ' 1/1?12' 8 ,)',)* -' .=*//.' 620' 2>62,6, 12.' MB1.*=)' & !+ 'KX' ()*' 26?*.' 1 ',)*' ?6 2' 8-,*-.' 12',) .' 8 0*' 620' 2,*-*., 25' .;DA*>,' 8 // D*' 1;20' ?*2, 12*0' 2',)*' >1;-.*' 1 ',) .' 6-, >/*' 620'1,)*-.' 6-*' -* *--*0',1' 2' 6D- >;.' ; !' & 4!'>6=' L '620' 1,,>)*-' ' ' ' V>2 '=' ._' **' $ $ ' !

56 2.,'*+*- '.=*> *.'620'0*5-**' 1 ',) .' .;=*-., , 12',)*' .,*-2*.',0*2;2> 6, 12.' ',)*' <1.6 >'/68' 8*-*' 0 ^ -*>, 30' M %L10' LL ' Q' *+' L L 'KS' N T' LL ' K T' *;,' L+ ' ' X' 6.' 1.,*- 25' 6' /1+*' 1-' ;2/68 ;/ 9218/0I05*' M>1?='.)*') 1'>)' +T' 6,1' ' ' '5 !' T' '+626'.;=*-., / 12*'-;0*.'62 ?1.' 2 *.,62, 1/;C' ?*/' X' D*>6;.*'=- 25' 2,1',)*' ;,;-*' D*>/1;0.',)*' ? 20' 8 ,)'.;=*-., , 12'620'D*>6;.*' ,'81;/0')6+*' D***2' M6.' 20**0' ,' =-1+*0',1' D*' .6' ' ST' K' 25.' LL ' SX' 62' 2>*2, +*',1' 01/6,- T' 20**0 ,)*' -*_;*2,'0*2;2^ > 6, 12.' 1',)*' . 2' 2',)*' =-1=)*,.',*20',1' =-1+*',)6,',)*.*' 1-GX Z/0*2' 6-,.'=-*.*2,*0'=*>;/ 6-',*?=,6, 12.',1' 6=1.,6,*' .-6*/' M : 1,, 25*-' !- ' # !' '=' K N' K X' ;,' , 10' .;==/ *0') .' =*1=/*' 8 ,)' .;D., ,;,*.' 1-' 0 &26, 1;' 8)>)' 81;/0')6+*' -*20*-*0' ,' .;=*-.;/;^ 1;.' /* ,',)*?' 2%21'01;D,'6.',1') .' 8 // 2' 2'>->;?^ ..62>*.' 1' 0625*-' D60',)*' >12, 2;*0' 6 ,) ;/' ' 86.' 12/ ' 8)*2',)* '7/*-*' ;2 6 ,) ;/',)6,',)*' -*+*/6^ , 12' 86.' 8 ,)0-682'M ' 6?' LL+ 'ST' K' 6?' ' T' +' KN' *,>%X' >>1-0 25',1',)*' 6DD .',)*' $- ?' 620' ( );?? ?'/6.,*0';2, /,)*' (*?=/*' ,)*'.= - ,'1 '=-1=)^ *> ';2, /<6/6>) ' 620',)*' 6,)C 1/'6.',)*'.1/*?*62.' 1 '5; 062>*' -1?',)6,', ?*' 0182 86-0.' M<6 ?12 0*.' '@ !' !'>6=' T' D6-D62*/' ' ' ' !(8!' **' D*/18%

: 18' 6-' <1.*.' 620',)*' -1=)*,.' D*/ *+*0' 2',)*' 9 '1 '2*>-1?62> '*,>' 6.' 0 .,25; .)*0' -1?*+6- 1;.' 1-?.' 1 ' ?=1.,;-*' .'6'_;*., 12'8)>)' 6,'=-*.*2,'01*.' 21,' >12>*-2';.' ;' *+*2' ' 2',)1.*' , ?*.',)*' '0 0')1/0' .;>)' 6' D*/ * ' 21' 12*' 8 //' 218' ;-5*',)6,' 8*' 6-*' D1;20',1' 01' .1' 6,',)*' =-*.*2,' 06 ' *,' ;>)' 86.' ,)*' 1= 2 12' 1 ' 6>12' .)1=' : 6//'76L,*-' -' ()1.' -182*' 6+6,*-' 4/62+ //*' : *2- ' <1-*' 620' 2;?^ D*-/*.' 1,)*-' *? 2*2,' ?*2' ;>)' 6/.1' 86.',)*' 1= 2^ 12' 8)>)' /*0' -' <' : 6/*',1' D;?' ? ' ;2 ' 620' 1.*' ;//*20*2' 6,' ;- ' 2' SS T' 620' >6;.*0' *+*2' &*./* ',1' .6 ',)6,' ,1'5 +*' ;=' 6'D*/ *' 2'8 ,>)>-6 ,' 86.' ,=' 5 +*' ;=',)*' D/*%J' M 1-' 6' >;- 1;.' .,6,;,* 656 2.,'8 ,>)> 6 ,' \ ' / [%>6=% B'.**' 1// *-.' 6 ' !' + ' NSS%X' < ;>)' 0 .>;.. 12' ?1-*1+*-')6.' D**2' >6-- *0' 12' D ' /*6-2*0' ?*2' ,1' 0*,*-? 2*',)*' _;*., 12' 8)*,)*-',)*' 62> *2,',- D*' 1 '0 + 2*-.' ?*-*/ '=-*,*20*0' ,1',)*' <1-*.' D*' 0 + 2*/ 68 '8)>)' 06 .' <1.*.!' ,1',)*' 0 + 2*' /68 '8)>)' 6221,' D*' >)6-5*6D/*' 8 ,)',)*' 1// ' 1 '=-1) D , 25 >- ?*-',)6,'2*+*-'*L .,*0!' 620',1',)*' .,-125'=-*.;?=' , 12',)6,'=-*,*2. 12.',1' 2,*-=-*,'0-*6?. ',1'*+19*',)*' 0*60' *,=%' 81;/0' 2*+*-')6+*' ?*,' 8 ,)' >-*0 ,' 0;- 25' .1' ?62 '65*.')60',)*-*' 21,' D**2' .1?*' 92182' 620' 6;^ ,)*2, >6,*0' 2.,62>*.' 1 '.;>>*..!' 2',)*' 1,)*-')620' ,')6.' D**2' ?6 2,6 2*0' 8 ,)' 5-*6,' 6D / ,' 620' *-;0 ^ , 12',)6,',)*8)1/*' 6-,.' 1 '0 + 26, 12' 8*-*' 6' . .,*?' 1 ' ?=1.,;-*' 620',)6,' >- =,;-*' ,.*/ '-*_;*2,/ '- 0 >;/*.' ,)1.*' 8)1'=-6>, .*0',)*?' 6.' ;,*-/ ')*/=/*.. ' 620' 2>6^ =6D/*' 1 '6>>1?=/.) 25' 62A7) 25' D* 120',)*1 1-0 26- ' =18*-.' 1 26,;-*' M .6%' L/+ ' C NT' L/ + 'K T' B*-%' L + ' T' B126)' 'QX%' **' " ' !

%' ',)*' ?62 ' 2.,62>*.' 1 '0 + 26, 12' 8)>)' 1>>;-' 2' : 1/ ' >- =,;-*' .1?*' ?;.',' D*',69*2' 2' 6' ' !' ()*.*')6+*' 6>>1-0 25/ ' D**2' >/6..*0' D ' B%' % & >)C' ?622.)6;.*2'>' 1!' ' ' !'; " !' *0%' : >) ;.' *,<*..*-*-%h ,*D%/ K '._%X' 6.',-;/ ' '0 + 2*%J' M **' *;>*-' :*' % ' ' " ' U*-D.,%' R T' '6%' <%' S %X' **' ? / %' 'I)) % % 8' ' '" !' () . ?10*' 1 0*>. 12' 86.';.*0' D ',)*' :*D-*8.' 2' ?6,,*-.' 1 ' *L,-*?*' ?=1-,62>*' 620' 6/86 .' 8 ,)' .1/*?2 , ' 620' -*/ 5 1;.' =-*=6-6, 12' MB1.)' + ' NX%' ()*' /620' 86.' 0 + 0*0' D ' /1,')O*%' ' E' ;?%' LL+ ' ST' B1.)' L 8 'KXT' >)62 .' 5; /,' 86.' 0*,*>,*0' D ' /1,' MB1.)' + ' SC' RXT' 6;/ 86.' */*>,*0'9 25' D ' /1,' M ' 6?%' d 'K 'K XT' 620' ?1-*' -*?6-96D/*' ., // ' <6,,) 6.' 86.' >)1.*2',1',)*' +6>62,' 6=1../*.) =' D ' .1/*?2' /1,' 620' 2+1>6, 12' 1 ' 410',1' 5; 0*',)*' 0*>. 12' M >,.' KS%' () .' .1/*?2, ' 620' -*+*-*2>*' ,' .' 8)>)' 5 +*.' 1->*' ,1' .;>)' =6..65*.' 6.' -1+%' L+ ' NNT' L+ ' Q%' M **' ;5;., 2*' ' ' ' ' " ' 'KQT' ()1?%' _; 2% ' 7K' _;%' R '6-,%' Q%X' $20*-',) .' =-1>*..' 1 ' 1- " ' 8*-*' 6==1 2,*0',)*' 2,*-*., 25' 1-0 262>*.' 1 ',)* .>6=*C516,'620',)*' 516,' 1 ',)* . 2C1 *- 25' 1-',)*' =*1^ =/*' M *+%' L+ 'QC X%' **') ! A K%' ,W 'M1AV =1V O+-n>6X' 'f3' ' M *;,%' L 'K' NT' B;05%' + ' NT' B*-%' LL 'NK' B1.*^ =);.'& 'L+ 'S X' ()*' 2,*-=-*,6, 12' 1 ')6-61) .' 0-*6?.' D ',)*' 0 + 2*/ C5 ,*0' B1.*=)' M4*2' L/ ' K C NNX' 620',)*'-*,-6> 25' 620' 2,*-=-*, 6, 12' 1 ',)1.*' >' *D;>)602*[[6-' D ',)*' 2.= -*0'=-1=)*,' M 62%' 'K ' *,>%' 620!' 656 2' +' RCKQX' 6.' 1==1.*0',1',)*' 0 + 2*-.' 1 ' 6/.*' O-*6?.' U*>)%' L ' KX' 6-*' +*- ' =-1? 2*2,' >6.*.' 2'=1 2,T' 620' ., // ?1-*' " ' ' " '0 + 2*/ ' .*2,' M6.',)1.*' 2' 4*2' LL ' ST' B;05%' + ' T' ' 25.' ' T' .1',)1.*' 2' <6,,' 'K T' ' K' N' R' KKX' ?;.,')*'-*56-0*0'6.' 2.,62>*.' 1 '0 + 26, 12' 2' 6' 5110'.*2.*' 6')*6+*2/ ' ' M>1?=%' <1)6?*0.' S' 4110'0-*6?.' 6-*' -1?' 410TJ' 4110'0-*6?.' 6-*' 12*' 1',)*' 5-*6,'=6-,.' 1 '=-1=)*> J' 62*.' & !' 7 " $ ' ' SQX%' () .' .' >/*6-' -1?' ;?%' L ' S' M8)*-*' ' \,1',)*' ./**= 25h' 620' ' \,1',)*' 6869*h' 6-*' *L^ =-*../ ' ?*2, 12*0' O.' >1--*/6, +*' 0 + 26, 12.' 6;,)1-^ [*0' D ' 410X'>1?=6-*0' 8 ,)' ' 6?%' LL+ ' S%' <62 ' 86-2 25.' 1>>;-' 2' >- =,;-*' 656 2.,')*' ?=1.,;-*.' 6,^ ,*2062,' 12',)*' 2,*-=-*,6, 12' 1 ' O-*6?.' MU*>)%' L ' K' *,>%X' & *' 20')18*+*-' 21' 0 -*>,',-6>*' 1 ' " ' 1-' 0-*6?.',;>)'6.' 1>>;-.' 2' -5 /'*6 '+ 'Q T' /6;,;.' !' ' 'K' S %' **' !

N%' ()*' 2 ' '-" ' M ;?%' LL+ ' K X' 8)>)' .**?',1')6+*')60',)*' .6?*'-*/6, 12' 2',-;*' 0 + 26, 12' ,)6,',)*' - %" ' I4' +%X' 1-' ')60' 2',)*' 01/6,-1;.' . .,*?' M.**' : 1.%' ' X%' **' [' 620' 0 $!' ? /6-',1',) .' 86.' 0 + 26, 12' D ' ?*62.' 1 ',)*' 6%" 'M_%'+%X% %' " 'D ' ?*62.' 1 ',)*' ; "1) 'M/7 =' 7K' " ' ' " ' ' '*%' 0 -*>,' '>1?7;2>6, 12X' 8)>)' 410' +1;>).6 *0' *.=*> 6// ',1' <1.*.' M.**' *;,%' LLL + ' X%' 6- 1;.' ' 1 ' -*+*/6, 12' 8*-*' *?=/1 *0' D ',)*' * &a' 6.',)*' ; =; % 'I; ! NX' T' ,)*' % '# 'M+*-%' XT' ,)*' ; '; '" I X' T' " (' &$ '('' " ' 'I 'RL' ()' D;,' ?1.,' 2.,62>*.' 6-*' 8 ,)1;,'=)*21?*26' M *;,' +' T' D-*.' 2' ,)*' 06 .' <1.*.!' ,1',)*' 0 + 2*' /68 '8)>)' 6221,' D*' >)6-5*6D/*' 8 ,)',)*' 1// ' 1 '=-1) D , 25

,)*' 6D;/1;.' 12*' 1 ',)*' 6DD .'8) >)' -% 5) > 11,' >6//.' 6' >, 12' 1 ',)* .-'182' D-6 2',1' D- 25',)* .-'01>^ ,1-.' 620',)* .-'01>,- 2*.' 2,1' >-*0 ,J' M/ D- F' ' NKX% **' 8 '41 ! % ()*' , $ -.,'1 ',)*' -9'1 ',)*' (*., ?12 '1- 1+*262,' 0*.>- D*0' 2' L10%LL+'KK 620' ' 25.'+ ' SCN 'M>1?=% .6%LL+ 'KXT' .*>120^ / '1 ',)*' (6D*-26>/*' 1 ',)*' 125-*56, 12 '1-' (*., ^ ?12 ' 7: X'0*.>- D*0' 2' L10%LL L' K' N% 2',)*' 6*>1;2,'1 ',)*' (*?=/*'D1,)' 2' ' 25.'+';20' K')702%',)*' 81-0' .';.*0' ,**2',?*.',1'0*. 5^ 26,*',)*' 11, + ^ % *%',)*' : 1/ '1 ' : 1/ *.' M.**' ' 25.'+ ' SX' 2' 8) >)' 86.' =/6>*0',)*' -9' 1',)*' 1+*262,'M+*-% RX' 8)1.*' 51/0*2' >1+*-' >6//*0',)*' <*-> C.*6,'86.',)*' 6>,;6/ ' 'M:1,, 25*-' -" ' + '=%NSSX% ()6,',)*-*' 8*-*' .*+*-6/1-6>/*.' 1')*6,)*2'510.'92182',1',)*'B*8.'8*'?6 '2 *-'D1,)' -1?',)*' ?*2, 12'1',)6,'1 ' 66/C[*D;D'6,' 9-12'MK' 25.' 'KCSX'620' -1?',)*',182.'26?*0' *D -% ' *C $-';10'21.' .+*' % '=1..;?;'6==*/^ /6,*'*;';'>12,*2,1. ;.'+*-D;?'*L=- ?6?;'*'+*-D1' O O*- *% N*+*/ /1>;,1- ;?'0 >*-*J'MB*-1?*' '6%"!' AX% ()*'81-0' '1-6>/*.J'.'6==/ *0' 2%,)*' % (%,1',)*' >-=,;-*.'M >,.'+ 'NQT' 1?% 'K' *,>%X% 2',)*' 5*2*-6/.;DA*>,'1'1-6>/*.'.'*' 2,12'+% 6/*' ' ' =' ?,)' :>Y%_V 76..% 6-,' -6>;/;?T 1,^ ,*-.'& 4!' 'KQSCNKST' -' (% -182*' - 'L '620' N[f 6 !'+ ' K' *,>% **' < ! S% ()*' & 'N ' M1!f 5f 4*2% LL T B;05%L 'NT' NX% **' ! % ()*' %" ' '2A,7NN'.**' ;L,1- ' '5 ""!'>1/% KQSX% ().'86.',)*' ?1.';//;.,-1;' 620'=*-*>,'?*62.'1 ')1/ '0 + 26, 12'M6.',)*' . .,*?' 2',)*')*6,)*2'81-/0'86.',)*' ?1.,'*? 2*2,' =*-+*-. 12'620' ? ,6, 12'1 ',X'620'86.'1 ,*2'6>>1?=620' 2 *0'8,)' . ?D1/>6/6>, 12'MK' 25.'L ' T B*-%/ ' SN'S X% &*'?6 '/*6-2',)*' ?=1-,62>*'1 ',)*'=/6>*' ,' 86.'0*. 52*0',1'1>>;= ' 2',)*'()*1>-6>'6.'6'?*62.' 1 '0 + 26, 12'D ',)*'*L=-*..'>12,-6.,'0-68 2'D*,8**2' ,'12',)*'12*')620'620',)*'0 + 26, 12.'1 '01/6,- '12' ,)*'1,)*-% 1?=%+*-% '8 ,)'+*-% '1 ' *;,%L+ % M **' < >)6*/ . .' ' ' 6-,% LLL+ %X' $20*-' ,) .')*60'1 '=-1=)*> '8*' ?;.,'1 '>1;-.*' 2>/;0*',)*' KN!B" .' 6.',)*' B*8.'>6//* " ' % ' '" ' # '$% ! ()*'-*+*/6, 12.'1 ',)*' /0' (*.,6?*2,' 6-*' ?1.,' .;,6D/ ' 2>/;0*0' 2',)*.*')*6+*2/A7;,,*-^ 62>*.' 0 ,6' n1;% M **' :*D%+' KT' ' *,% +' %7 ;>)'6-*',)*' >) *'?10*.'1'0 + 2*' >1?? ;2>6, 12',1' ?*2'1-' 2.= -*0' 0 + 26, 12á ,)*'6-*' -* *--*0',1' 2' :*D%' ' % ()*' 62, ,)*. .',)*-*' =1 2,.',1',)*' 12' 1' 410' 6.',)*' $/, ?6,*' -6>/*' M,)*' '1 'B1)2X',)*' ;/ //*-' 1',)*' =-1? .*' 8)>)' <1.*.' 56+*' 8)*2')*' =-1) D,*0'6//.=;-1;'0 + 26, 12% **' + / ' ! Q% *1-*' 8*' >/1.*' 1;-' 21, >*' 1 '0 + 26, 12' 2'6' 5110' .*2.*' 8*' ?;.,'600;>*',81' 2.,62>*.'1',)*' :*D-*8' 81-0'6,',)*')*60'1',) .'6-, >/*' =' ID 8f ',)*' ,) -, C12*' 1>>;--*2>*.'1',) .'*L=-*.. +*',*-?' 2',)*' % (%'21'/*.',)62',8*2, C2 2*'D*6-'62'*+ /'?*62 25% 21,*.' (1 ';>)'6.'1'0 + 2*-.J'M 1/'$ %f 2' /1>% <*/62>,)12'6.'_;1,*0'D'D.)1=' 6,- >9' 2'/1>%' -* *-.',1',)*'6>;,*'8.01?'1' 1/1?12' 2').'>*/*D-6^ ,*0'A;05?*2,'620'1'412[656' 2').'.*2,*2>*'12',)*' 51+*-21-'1'< /62'6.'2.,62>*.'1',) .'0 =' 8*'?5),' 600',)*'>6.*' .;==1.*0'D ' 1/1?12')?.*/'1',)*'.6C 56>1;711-'?62'8)1'.;>>*.. ;/7'0* *20*0',)*'>, ' 656 2.)*'?5), '2+60*-' >>/% L' X% 2' .6% ' K',)*'81-0'1>>;-.' 2',)*' 1-?'0==' M *=,' = T ;/5% (81'620' .'-5),/ '-*20*-*0' 2',)*' % %' :',)*'>1?=62 '2'8)>)',)*',*-?' .' 1;20' -*_;-*.' 1-',6'5110'.52 >6, 12% **' 6D1+*% R% ,'_2/ '-*?6 2.';20*-',) .')*60',1'6//;0*',1',)*' 6>,',)6,'5-*6,' ?=1-,62>*' 86.'=*>;/6-/ 6,,6>)*0',1' ,)*'81-0.'1 '0 25'?*2% 18'6/,)1;5)',)*'1D.*-+*0' 6>,',)6,' ?*2'.1?*, ?*.'6,',)*')1;-'1',)* .'0*=6-^ ,;-*'01' .=*69'620'-*6.12'6D1+*',)*?.*/+*.J'>5 ! 'L X'01*.' 21,'1'>1;-.*',69*' 686 '-1?',)*' 0*6,)CD*0'=-1=)*>*.'1' >-=,;-*',)* .';=*-26,;-6/ >)6-6>,*-'M4* % L/ L T K' 25.'L '*,>%X' *,' ,' .' 2^ ,*-*.,25',1' 20',)6,',)*-*' 6-*' 626/15*.' 8)>)' -*^ .*?D/*',)*?'MVV%LL 'N T 620',)*',.,1- '1' 6/62;.T >*-1'' ' 3 ! 'N T)69.=%5+" J 'K T 62 */h' ' ' 'SK'*,>%X% % 1-?.'1'0 + 26, 12'*L=-*../ ' 2' >-=^ ,;-*% //;.12')6.'6/-*60 'D**2'?60*' 2',) .'6-, >/*' ,1' *;,% L+ ' C K% .',)*.*'+*-.*.'>12,6 2',/*' ?1.,'1-?6/21, >*'1',)*',.;DA*>,'8*'8 /' -.',69*',)*' .*+*2'1-'*5),'9 20.'1 '%0 + 2*-.',)*-*' 0*21;2>*0' 2' ,)*'1-0*-' 2'8)>)',)* '6-*' ?*2, 12*0% % ',)*'+*-' 1;,.*;8*'*2>1;2,*-' 2',)*'=)-6.* 1 ('D ('12*' ' 2 # 'M *=,'% %+ ' ' ;/5%4 ' % ',)6,';.*,)'0 + 26, 12JX',)*'.6?*' 81-0'8)>)'8*')6+*'A;.,'21,>*0'2'6'5110'.*2.2% ()*' +*-D' == '/9*',)*' -6D>'*_;+6/*2,'=-?6-/'.5^ 2 *0',1' 1-' M<*'*-'# ! / 1' " '=%N T -.,' V*S-% "!' 'NKKT' :*,,25*-' !'# % f L$+' XT',)*2>*',6>_;-*0',)*'.*2.*' 1' 620' 620'%D*>6?*' 6' 5*2*-> =)-6.*' 1-'+6-1;.'9 20.'1'0 + 26, 12% 6DD' 6+ 0' 0*' 1? .'.6 .' ,' .' 6' 81-0'1'/6-5*' .52 >6, 12' *?D-6> 25' ?62' .=*> >'.*2.*.';>)' 6.' 5*1?62> ' 2*>-1?62> '12*-1?62> '>)*-1?62> '620'1,)*-.%J' <6 ?12 0*.'M 2') .',-*6, .* - N '>6=% L 'g SX 2>/;0*.'D*. 0*.',)*.*'?*,)10.'56.C' ,-1?62> '/,)1?62> '620'>6,1=,-1?62> T 620' 6.)' M12' *;,%L+A /#X'?69*.' =' ?6 2/ '>12>*-2*0'8,)' ,)*'=->*..'1'-)6D01?62* % ? 0',)*';2>*-,6 2, ' 6- .25' -1?',) .'5*2*-> '.*2.*'1',)*'81-0',/8' *=,')6.'-*20*-*0',D',)*'5*2*-6/=)-6.*C% - 1 ' % ' ' ' T 8)*-* 2',.'1//18^ *0'D',)*'(6-5;?'1 'B126,)62'6.'8>$' D',)*' -^ 6>'620' -6D>'+*-.12.'MB% /10;.' ' 1 f ' ' $ f \ ,*D% S H' T 620C& >)?622.)6;.*2' ' ' X% ()*'81-0'.';.*0'1' 6/66?'MB1.;'L KKX'1',)*')/.,2*'.11,).6 *-.'M' 6?% + 'KX'1',)*' :*D-*8' 6/.*'=-1=)*,.'M< >6/' 'N'S' '620' 2' 1,)*-'=6..65*.X'8,)1;',=*> 25'62'?10*'1'0 + ^ 26, 12% & *',)*-* 1-*'-*56-0',) .'6.'6'5*2*-6/=)-6.*' 2,-10;>,1- ',1',)*'.*+*2'=6-,>;/6-'12*.'8)>)' 1//18% ()*'6D.*2>*'1',)*'>1=;/6, +*'f'8)>)' .'=-* L*0',1' *f*-'1,)*-'81-0'D;' >12 -?.',) .'+*8% .,)*'81-0)18*+*-'2+1/+*.',)*'21, 12'1' >;,, 25T J' .1?*'>122*>,' ,'8,)',)*')6/0% M-1?' (%,1' 8' 62% 'K'T +' '*,>%'620',1'D*',69*2',1'?*62' 6.,-1/15*-.'?65'5*2*,)/6>' *,>% MB;+% + ' QK ._%T 10% >% 'N X% ,)*-.'-* *-',1',)*')E-G% % M >)1/%60' ;-%D %%!' X'.2>*',)*';.*1'/1,.'86.' +*-'6? /6-',1',)*'B*8.'M46,69*-' ! '2,%X' D;',' -*_;-*0'21'6-',1'*L=/6 2',)*-';.*'1-',)*' 8*-',-*56-0*0'6.'0 -*>,/';20*-'410.'>12,-1/M ;?% LL+ ' T .,)% ' T -1+% L+ 'NNT% L+ ' QX% 1,)' /1,.'620' '100'620'*+*2X'8*-*' ;.*0' 2'0 .,-D;,25',)*'0;,*.'1',)*'(*?=/*'M ,)1' ! 5I f.*+% 5,.'? >6201X% ' **'6D1+*% K% (f ().'81-0'.'+6-1;./'0*-+*0 620'*L=/6 2*0% 2'1;-' % % ',' .' 2',81'1;,'1'.*+*2' ,?*.'1' ,.'1>>;--*2>*'MD*.0*.',)*'=-*,% 620' ;,%X'-*2^ 600',)*'>6.*' .;==1.*0'D ' 1/1?12') ?.*/'1',)*'.6C 56>1;711-'?62'8)1'.;>>*.. ;/7'0* *20*0',)*'>, ' 656 2.)*'?5), '2+60*-' >>/% L' X% 2' .6% ' K',)*'81-0'1>>;-.' 2',)*' 1-?'0==' M *=,' = T ;/5% (81'620' .'-5),/ '-*20*-*0' 2',)*' % %' :',)*'>1?=62 '2'8)>)',)*',*-?' .' 1;20' -*_;-*.' 1-',6'5110'.52 >6, 12% **' 6D1+*%

B1D' //' 'A; .,'6.',)*' 4-**9.'620' 1?62.'-*56-0*0'.1?*' 06 .'6.' !'1,)*-.'6.' 'M:*. 10¾ ,%%' ' ' ' ' ;*,12¾ & 'RK' *,>¾¾ ,' .' 21,' 2*>*..6- ' ,1' -* *-' 46/¾ +' ',1',) .' % 1 :' ,)*' <1.6 >' 2., ,:, 12' 1'.6>-*0'.*6.12.' .' ,.*/',)*-*'=-1) D ,*0'6.'D* 25'6D^ -156,*0',1')- ., 62.'M */0*2' ' ' ' !'D !' >¾K T' 620' / 1-0' 2' /1>¾¾ ()*' *=,'+*-. 12'D',)*' +*-D' 620'=6-,¾)E8 S1 1 'M)' 1;-'=/6>*.X'620',)*' 21;2')E8! 'M2¾,81'1.),)*-.X'-* *-.',1'0 + 26, 12' D ' ' 'M ; 06.')O* -% ' ' '-8 ' }- % - *% G! *.,;.' 0*-+*.' ' ,.*/' 4 ;6.' E'D*>6;.*' ,'=-1>**0.' -1?',)*' ?1;,)' M OH6' "' (8f & 1-0.'1' //1?*2' 8)>) / P-6>*' >6//.' ' ' ' '620' /6;,;.' " ' '\=-1D¾" ; (<8'8*-*'*L>)625*0'1-'" ' A' '6.'8)*2' >*-1'-*=1-,*0',1',)*' *26,*',)*' *L*>;^ , 12'1' *2.,/;.'620'1,)*-.'D',)*' 81-0' '+L*-;2, J' '" ' ' ' 2.,*60'1' '?1.,;'.;2,J' " ' ' f' 1' *1, >) 0*.'*?D-6>*0',)*'1?*2'1' : *5*C . .,-6,;.'M:*-101,¾L 'R X¾ :*D-*8' 2.,62>*.'1',) .' 1D.*-+ 25'1'81-0.'1>>;-' 2'4*2¾LL +' 7620' ' 6?¾ L+'R '8)*-*' 6'0 + 2*' 2,*-=1. , 12' 1>>;--*0T 2' 5' 25.' dd'NN',)*' >6,>) 25'6',)*' 81-0'1',)*'9 25'1' %.-6*/ 86.'-6,)*-'6');?62' 2., 2>',),62'6' * (" ' 1-' + ' 2' ,.' =-1=*-' M.;=*-.,,1;.X' .*2.*¾ 9 2',1'620'6-. 25'-1?',) .' 1D.*-+62>*' 1 '+*-D6/ 1?*2.'6-1.*',)*' 1-?.'1'" '>6//*0' '# ' 'N ' ; ' *,>¾ ()*' */*+6, 12'1' *C +*-;.' .' .6 0',1') 7*' D**2' 1-*,1/0' D ') .' 1=*2 25'6, -5 /.' / 2*' (;'-*5*-*' ?=*-1'=1=;/1.' 1?62*' ?*?*2,1¾T <1.,'-*?6-96D/*'8*-*',)*'-*.=12.*.'8)>)' ,' .'.6 0')6-/*.' '620' 1-0' 6/9/620'1D,6 2*0'8)*2' ,)*'>12.;/,*0',)*-.' -5 /.'D* 1-*',)*'>+/'86-¾ ()*' 1-?*-'1=*2*0' 6 ' +'8)*-*' 01'=-*0>,.'6'+1^ /*2,'0*6,)',1'7 2*6.'8)/*',)*'/6,,*-'>)62>*0' ;=12' 6 'L'6,' +620*-.'/6?*2,6, 12'1+*-') .' .12¾ ' >^ >1-0 25',1' >*=)1-;.' 4-*51-6.' " ' I '86.',)*' D*.,'D119' 1-',)*' 1-,*.' /0>.*'D;,' *0-*2;.' 2 1-?.' ;.',)6,' " ' 7!' -!'86.' ?1-*' >1?12/ ';.*0'M >*=)¾ 4-*5¾ + ¾ ;5¾ =¾ RT - 0*6;L' ' 'N S' *,>¾T 6-062' ' 'N '<' X¾ ().'.;=*-.,,12' D*>6?*'.1' - *',)6,' ,' 86.'2*>*..6- ',1'0*21;2>*' -1?';)*'=;/=,'6.' 1-D 00*2',)*'0 + 2*'=-*>*=,' '(0);' .)6/,'21,',*?=,',)*' 1-0',)' 410¾T ()*'<1.^ /*?.'>12.;/,',)*' 1-62' 2'.?/6-'?622*-');',)*' ,69*',)*'-'62.8*-'-1?',)*' .*+*2,)'/2*' 1',)*'-5),C)620'=65*' M.**' ' $ '%!' NNKX¾ 'D*/*'2' ,)*'.52 >62>*' 1'>)62>*' 81-0.'86.'+*-E7=-*+6/*2,' 6?125',)*' 5 =,62.'M /*?¾ /*L¾$ ' 'N T' / C' ,->)' ' ' ! X'620',)*' 6>>0*2,6/.5)' 1',)*' *25 ^ 2**-' 86.' .; > *2,',1'=-*+*2,' *+*2' ?6. .' -1?' -*^ ?1+25',)*' ?121/,)>'.)-2*',1' 6 'M& /9 2.12'& ! 6 % ' +' X¾ ()*';2+*-.6/,'1',)*'D*/*'6?125' ,)*'62>*2,.' .'92182',1'*+*-'.>)1/6-'M >*-1' ' ' ! T' :*-10' 'R ¾T -5/' + ' S'*,>¾¾ **' 8 4 < 4 ¾ 21,)*-'1-5 2' 1-' .' 1;20'D'.1?*'M>1?=% (,-256' ' ' ! 'SX' 2',)*'21;2' " ' ',)*'-11,'1'8)>)'1>>;-.'12>*' 12/'M' 6?¾ L+ RX' 6.'6'+*-D' ' 6;/' 6+ 0¾T ()'.'0*-+6, 12' 81;/0' =1 2,',1' ',)*' 4-**9'*$) '620' ,)*' 6, 2' ! 1.. ;.'0*-+*.',)*.*' 81-0.' -1?' UMU2') ' '+' "' +' ! / 2 'M:1//620.' ,-62./¾' X' .6 .á ' ;>)'/9*',)*.*' 6-*' 6?125',)*' (0D6// 62.'620' // - 62.'8)1'8,)',)*-'+*-' "' >62'8,>)'M* 6.>2*2,X' *6'620'9//,)1.*'8)1?',)*' /119*' 8 .,/';=12' 62 '/125',?*J'M>1?=% ;/¾ 4*//8 L' QT' /;,6->)' X¾ *5 26/0' >1,'.=*69. 1'>*-,6 2' - .)' 8,>)*.' 6. > " ' X¾ &)1/*',-*6,.*.')6+*' D**2' 8-,^ ,*2' 12',) .' .;DA*>,'.;>)' 6.',)*' ' '@ 'ID',),)*' ,6/62' 6 -;.' 2' QR' ,)*',% ' '@ 'D' 4;,*--*[' 6' =62 6-0' 2' SN' 620',)*' - ' ' @ ' 2' S '/P' 6'4*-?62' =) .>62'>6//*0' -1?? 622¾ M **' 6/.1')68' - !'=¾K K¾X' 2' <6-^ ,2.' ' % ' ' ¾ ' $ ' <1//;96

D*62.J'6-*' ?*2,12*0'6.'6?;/*,.' 656 2.,' 6.>26,12¾ 6//686>&' ' ' % '6.' ;1,*0' 2',A' '$ '=¾K X' .6A7.',)6,' '21,)2=>62' *L>**0' ,)*' .;=*-.,,12'1',)*(;-9.'-*.=*>,25',)*'*+/**' 1'62'*2*?'1-'2 0*/¾ 6..65*.'-1?',)*' 1-62'6-*' =6 2,*0'12',)*'1;,.0*'1'D1;.*.'*,>¾',1'0+*-',)*'.2^ .,*-'2/;*2>*¾J' 'D*/**'2',)*' '*+/**J' U¾g EA' % '%) 'MN77 IB7HX' 86.';2+*-.6/'620'.'1,*2' 6//;0*0',1'2' >-=,;-*'M *;,¾LL 'NT' <6,,'LL' T' (1D¾+' ' -*1, -* 8' 'S 1, O% 1' ' 6?¾ L+ 'R' ' 6;/' 6+ 0J X¾ ()*'=6..65*.'1',)*'62^ >*2,.'12',)*'.;DA*>,'6-*' >1//*>,*0'2' 1,,*-.'& ! ' NQN'._¾ **'>#! ;',)*'0*-+6,12'1' 8)>)' 20.'?1.,'6+1-' 8,)'?10*-2'6;,)1-,*.'0*0;>*.',)*'81-0'-1?' NNP' '.1',)6,',)*'0+2*-'81;/0'=/')'.'6-,'D'86,>)^ 25'>/1;0.',);20*-.''/5),2 25.'M<**-'D !' =/ "f ¾S'=¾RKT' $-.,' "f ' S'8)1')18*+*-' 20.'-11?'1-' ',)*'0*-+6, 12.T 620'4*.*2;.'.¾+% /*62.',1',)*' 5;-6,+*'.*2.*'1' ' '+[' ' ' 8f 1.*2?;//*-'$ " ' ' f'LL' KS'1//18.' D*2' .-6'8)1',) 29.',) .'0+2*-' " ' ' ' ' ' ' ' ' f ()*' 21, 12' ,)6,',)*',*-?.' *6.,' 8*.,' .1;,) 21-,)'8*-*' 0*-+*0' -1?',)*'=1. , 12'1',)*' 6.')*' 6>*0',)*'*6.,'',69 25') .'>*/*.,6/ 1D.*-+6, 12.'M41108 2.' ' '& ' +' X' .' -*A*>,*0'D') .'6221,6,1-' 6-=[1+' 8,)',)*'5-*6,*.,' 0.5;.,¾ B*-*?6)'ML'KX'>/*6-/'-*'*-.',1',) .'0+26^ ,12'8)>)')60',..'>1;2,*-=6-,' 2'4-**9'620' 6, 2'/,^ *-6,;-*'M*¾5¾ 2' f' 'N K' *.,1-'.=*69.'1'-5),C)620' /6.)*.'6.'D* 25'/;>9 'M.**'6/.1', f' L+'N X¾ 10^ 1-;' >;/;.'M 'N '*0¾ =12,¾X'?*2, 12.',)*'0+26^ ,12'D'?*62.'1',);20*-')%) '620',)*'6,' ! '- ')% O' U* ¾1',)*' .-;-62.'M>1?=¾ ';/5;-6,1-*.' ')' ;/5;-;?' 2.=*>,1-*.J' 6,1' ' ' f' '7 !;' 12;.' L 'K T' >*-D' ' ' ' f' N¾ \2' -*// 'KN ' 1' $2' 2' ' N',-*6,.'1',)*'%" '620'2' 'S'1',)*' ' _;6/,*.'1',);20*-'/5),2 25'*,>¾T 6.'01*.' ¾ ¾ *2^ *>6' 2'7 ! f' ¾ ,6, ;.'?*2, 12.',)*'8 20.' 1-'=;-=1.*.'1'0+26, 12'>-" f' KC NQX¾ **' :;?D1/0,*') ' ' N'1-',)*'=-1D6D/*' ' 606=,6, 12.'D',)*' ,-;-62.'1',)*-'0+2 25'6-,.¾ (1',) .' >/6..'8*'?;.,'-* *-' ,)*'6.,-1/15*-.J)*-*' 12/' 1;20X T ,)*'.,6-C56[*-.'1-'-6,)*-' =% %" ^' 620' ',)*'?12,)/ =-1521.,>6,1-.J 1-'-6,)*-'I" ' " ' + ' ' " ' ' ' " %% ' ' " 'M 7(-27 /6T .**' 1.*2-6 //*-' 2' /1>¾' 8)>) 6-*' 6//'?*2, 12*0'2',)*' ;/D/?*' >)6//*25*' 1'410',1' ,)*')6/0**' .1->*-*-.' 2' .6¾L/+ N' .,-1/15 '-*^ ,6 2*0'6'/125')1/0'*+*2'12',)*'?20.'1' : *¾ 5¾ ,1 /*-')1?',.'*+6/;6, 12'=-*0>,*0'6'0*/;5*' 1-' K T 6-062')'182'0*6,)á & 6//*2.,*2'86.'6'5-*6,' 6?6,*;-'1'6.,-1/15 T (>)1' -6)D'.,;0*0'620'=-6>^ ,8*0',T' .1'0 0'<1-2;.T *=/*-'.;==1.*0',)6,',)*' =/62*,.'D',)*-'>12 5;-6, 12.'*L*-> .*0'>*-,6 2'2/;^ *2>*.'1+*-' ' ;' 1-0' 6>12'721-*1+*-' ,)1;5),',),)6,'6.,-1/15 '2**0*0'12/',1'D*'-*1-?*0'21,' -*A*>,*0'M -651' ¾!'& f'\D' ? ,)'620'4-62,h' 'QT' -*8.,*-' ' '$ ' 'K X¾ **' + ! 2'B;05¾L'N',)*'*L=-*..12' 169' ' ' M*2>)62,?*2,.XJ'-*'*-.'21,'.1'?;>)',1',)*'5*2*-6/.6C * *02*..'1'5-*6,',-**.'M:1?*-',f'L+'NKQ'6.',1',)*' 6>,',)6,'M=-1D6D/X')*-*'B6>1D')60'D;-*0')'.6?;/*,.' M4*2¾ ddd ' T' ,62/* '$ f' ' f'=¾ K7¾ **' ! i N¾ ()*' 2*L,'81-0'2'1;-'/.,'M *;,¾L+ 7' X' .' " "(']= ' " ((1'M *=,' 1 % =' T ;/5¾4 ' " ' 8f (2'M *2'L/+'S ') .' .1?*8)6,'5*2*-6/81-0'.';.*0'1'0+2 25' " ' ' %'1-' '>) O) % 8f - ?, +*/A',) .

386.' ,) *' 0 29 25C>;=' 8) >)' >12,6 2*0' ,) *' / D6, 12' ,1' ,) *' 510.' M 1,,*-X ' ( ) .' 0 + 26, 12' =-*+6 /*0' ?1-*' 2' ,) *' 6..' 620' 2' 5 =,%" ( )*' = ' ; .*0' 2' ,) *' *=, ' ,1' 0*. 526,*' B1.*=) .' >;=' -*.*?D/*.' D1,)' ,) *' -6D >' "M '620',) *' : 20 ;' + 1' .6>-*0' >)6/ >*' M >)/*; .2*-' 'N!' - '.%" T ,,1 ' ; !'2 ' NRQX% 2* 1 ' ,) *' .. - 62' 9 25. ' 2',) *' .>;/=,;-*.' -1?' ?-1;0 ') 1/0.' 6' 1 % 2') .' - 5),') 620' M 121? .' 7 "1' *,>% =% N SX% ( )*' 6?1;.' >;=' 1 'B*?.) 0' 8) >)' .' ,) *' >12.,62,' ,) *?*' 1 ' ,) *' =1*,- ' 620 ' ? ,) 1/15 ' 1 ' *-. =' 86.' .6 0' ,1')6+*' D**2' 0 .>1+*-*0' ;// 1 ' ,) *' */ L -' 1 ' ? ?1-,6/ , ' 8) /*' 0 55 25',1' /6 ' ,) *' 1 ;206^ , 12' 1 ' *-.*=1/ .% .' =1..*..*0',) *' =-1=*-, ' 1 '-*=-*^ .*2, 25',) *' 8)1/*' 81-/0' 2' ,.' >12>6+ , '620'6//',) 25.' 5110' 620' D60',) *2' 51 25' 12' 2' ,% : 1?*-' 0*.>- D*.' *.,1- .' >;=' 2' . ? /6-' ?622*-T 6)0' /*L620*-' ,) *' 4-16,')60' 6' ?E ., >' >;=' 1 '6' / 9*' 9 20% 2' ,) *' ..,1-?^ 25' 1 ' *- 256=6,6?*' ,) *' ;2 1-.;26,*' (==11' 6 D' .-*^ , -*0',1' 56[*' 12') .' 0 + 2 25C>;=T 6 ,*-' .,620 25' 6' 8) /*' 6D.1-D*0') *' -*, ;-2*0',1',) *' 5),' 620' .112' */%" ( )*' 5-*6,' ?65 , *2J' < *-/ 2 .' >;=' .' 0*.>- D*0' M =*2^ .*- .' @ ' ' 'K RX ' 9*' ,1' ,) *' 81-/0' ,C .*/ * ' .' .** ? 0' 6' 81-/0' 1 '5/6.%J' 2' 1-0*2 .' - =' ' 6 %1' 620' 6=,% 119 .' N 1' ,) *' ; .*' 1 ' 0 C + 2 25C>;=.' 2' ?10*-2' ;D 6' 620' 6,' (1256,6D11 ' 12*' 1 ',) *' - *20/ ' ./620. ' .' ?*2, 12*0' M>1?=6-*' ,,1 ' ' ; ' ! ' K X% ( )*' - *2,6/.' 6.>- D*' ? ;>)'1 1/1?12 .' 8 .01?',1') .' =1..*.. 12'1 '6' .6>-*0' >;=' 6' ? " !1'1-' ' ' " ' 'M : *-D*/1,' .% +% 4 ; ?' , '$ '=% N X% 6-9) ;-.,' 620' 1,)^ *-.' 0*2 25',) 6,' 0 + 26, 12' .' 2,*20*0' ?69*' ,' 6' ?*-*' >;=' 1 '1 >*' M -;>* .' - ' 'S X' ' 1-' 8)>)')1' 81;/0' .*6->)' >6-* ;// %J ;,' 2' 6//' =-1D6D / , ' ,) *' % % .' - 5),% ( )*' /*' 86.' >6//*0',) *' >;=' 1 ' 5 =,62',) *' . /+*-' +*..*/ 8) >)' . ?D1/ [*0' ,') 60' =-1=)*, >' 620' ? .,*- 1 ;.' =-1=*-, *.' M : 6+*-2 >9 ' 6 !' A[% !' ! ' ( )*' 0 + 26, 12' 86.' D ' ?*62.' 1 '-60 ^ 6, 12.' -1?' ,) *' 86,*-' 1-' -1?' ?65 >6// C 2.>- D*0' 5*?.' *,>%',) -18 2' 2,1' ,'M6'.1-,'1 ' $% =-% 1-') % % ' 6-062 ' ' ' N !' >6=% RNXi/ 9*' ,) *' 6?1;.' ' ' +' M 62*' !' 6 !' 'NSKX' 620',) *' >- .,6/ 0 + 2 25C5/1D*. ' ,) *' =-1=*-, *.' 1 ' 8) >)' 0*=*20' 12' 6' 26,,;-6/ /68' D-1;5),' 2,1' 21, >*' 2',) *' -*>*2,'-*+ +6/.' 1 ' <*.?*- .?% B;/% *-*2;.' >' '@ ' L ' QX.6 .',) 6,' 6 ,*-' >*-,6 2' 2>62^ ,6, 12.' 6' 00?12' 86.') *6-0' 2',) *' 86,*-% 1-' //;.^ ,-6, 12.' 1 ' 5 =, 62' >;=.' .'**' & /9 2.12 ' 'K Q% ( ) .' 9 20' 1 ' 0 + 26, 12' .' 21,' ,) *' .6?*' 6.' " ' M ; 06.' .% +% B>1--6V . , X' 8) >)' >12. ..,' 2' 0-68 25' 1?*2.' -1?' 6' >1?? 12' 0- 29 25C>;=T ? ;>)' / 9*' ,) *' +;/56-' =-6>, >*' ., // =-*+6/*2,' 1 '-*60 25' 1-,;2*.' 2' ,) *' 62,6.,>' 1-?.' 6..;?*0' D ',) *' 5-1;20.' 2' 6',*6^ >;=% **' /! I ;',) *' +*-. 12.' 1 ',) *' *=,' 620' ;/5% 5 +*' _;,*' 6' 0 *-*2,',;-2' ,1' 1;-' $B2 7' 620' =1 2,',1',) 6,' AP6-,' 1 ',) *' 6;5;-6/ 6-,' 8) >)'>12. .,*0'1 ' ' ' % %' ' >%% O ' % $) ,' 8' ( )*' A7-6>620' -6D >'+*-. 12.' 6+1-',) .'+ *8' Mb6;5;-6-' 6D' 62 ?6/' 8' -0.' 2',) *' -' / 5),' 1+*-',) *' *6-,)' 8*-*' .;==1.*0',1' 1D.*-+*' ?*2.' .*>-*' 6>, 12.' 620',1' D*' >152 [62,' 1 '6>> 0*2,.' *,>% M>1?=% >>/% d ' K X% -.,1=)62*.' >; 8'.6 .' 12*' D;' .1?*' D -0 '=*-)6=.'9218.' 1 '?' ,-*6 . ; -* . 1',) 6,',) * D -0.'6..;?*=-*-156, +*.' 1 '0*, T ' & *'6-*'6.' 5110'6.' 1-6>/*.' 620'510.',1' 1; J'*,>% ( )*' " 'D " '620' ,) *' ' 1 ' D -0.' 8*-*') *' ?6 2' =)*21?*26' M 1C' >)6-,' *O% *;.O% ' RX% : 1?*-' .' ;// 1 ',) .' 0 + 26^ , 12' MVV% L 'N T , f L+' S '*,'=6.. ?X% 1',) *' 6, 2' >/6..>.T .** *-+ ;.' N !' 1 !' 'NS 'M 6+*.' % %1 P8=' 6/.1' >*-1' @ !' + 'S NT ' ' ' !' ' K'*,>7' 620' + 'L ' '> % '.1/ ., ?;?X% 1-' 4 ' 1 ' +6- 1;.' D -0.' .** 1,,*-' L+' 620', ' $ '=% K' N% ( ) .' 0 + 26, 12' 86.' ?;>)' 2' +15;* ' '' '$ '6/.1T .1') /1.,-6,;.' M'N !'&% ' X' 620' 1-=) - '>' '& !'& ' X' .6 % 6D^/*..' % 'D;.' .1' 2 *- 1-',1',) *' ? -6>/*.' D ' 8) >)' D 2 >6/ 01>,1-.' 0 .>1+*-' '6?125' 9 25' 1/1?12 . ,)* ' 8*-* ;/, ?6,*/ ' 1 /*0' M+ ' RX' 620',) * -' 510. 6,,6 2?*2,.' 2' .;>)' =6..65*.' 6.' >>/% L ' K ' 620' ' 25.' + 'N % 6.) '>1?7?*2,.' 2I/N CI2' 2-/.2', 2' ' ' " ' ' ' :' .1' ?>) ' 620',) * =' '5 " ' L L% **' > ! ( )*' -11,' / B2 ') 6.',) *' =- ?6- ' .*2.*' 1 '6' /18' " 9 ' " % ' :' -1?',) .' 6- .*.' ,) *' 0*- +6, +*' //A2.' ' % '1 ' -*_;*2,'1>>;--*2>*' 2',) *' % (% 4*C .*2 ;.' -" ! =% Q T ! D ' 1D 2.12 ' =% SS T' 620' -.,' # ! "!' =% N '=-* *-',1' 0*- +*' -1?',) *' =- ?6- ' .*2.*' M_% O% ' +*/ ' 6.' 5*2*-6/' .*-? .X' D;' 1>)6-,' ' K ' KK' =*-*?=,1- / ' 0*- +*.' -1?',) *' .*>1206- ' .*2.*' 1 ' " ' % '620' 0 .>1+*-.' 2',) .' ,) *' 0 + 26, 12' >6//*0' %" ' M17,1C % 8!' -.,' 60? ,.',) .' 6.' ,1/*-6D/*%J' /6.^ . >6/ 2.,62>*.' 1 '0 + 2 25' D ' .*-=*2,.' 1>>;-' 2' ' 'N Q' 6= ' '+ 'Q T >*-1' ' ' ' ! ' Q' N4T 6/>-% < 6L ?' 'S Q' (*-*2,% " ! +' 'KS' /*?% /*L% $ ' + T : 1-6>*' ! ' (1 ' % M >>1-0 25',1' : *. *D ;.' .% +% I*31 '620' ; 06.' .% +% ") 8' 1?*2.' -1?' .*-=*2,.' 6.' 8*//' 6.' -1?' D -0.' 1-?*0' 6' ; .;6/ D-62>)' 1 ',) *' 6;5;-.' 6-,T) *2>*' =-1D6D/ ',) *' 5*2*-6/ =)-6.*' *?=/1 *0' 2',) *' *=, ' 620' 1,) *-' +*-^ . 12.%X' $ % = " ' -* *--*0',1' 2' .6% + ' ' 620' B*-'+ ' ' .' 6' =6-,' 1 ',) .' 0 + 26, 12% -* ;*2,' ?*2, 12' 1 ' ,) .' 6-,' 6/.1' 1>>;-.' 2' D1,)' 62> *2,' 620' % ?10*-2' 8-.,*-.% M **' 6/ .>)' 12' L10% + ' K ' 8) 1' -* *-.',1' C7/ 62 '# !'& !' L+ ' T /% ,6/ >' 'N T ,-6D1' L ' Q T 4*// ;.' D>Z% L+ ' T) 68' - '=% N T *D;)-' ' ' QRT 1>)6-,' #-' *-1[% ' SKT ' % ' 'N6 % 1111111(' L+ ' ' NNN \ 2' ' R',) *-*' .' 6' 0*.>- =, 12' 7',) *' *6,.' 1 '.1?* 6 -1' A;55/*-.' 8 ,)' " ' % '# * 7T #;6,-*?*->' ' N6 % ' ' K KT < 2;,1/ ' - (:' =% KKST : *25.,*2D*-5' ! '6 % ' =% R C NT 62*' ' 6 % ' 'KN X% ( )*' .*-=*2,' 86.',) *' . 2 /X1/ 1 ') *6/,)' 620') *6/ 25' M / 2% LL + ' 'KKXT <1.*.' .' D-6[*2' .*-^ =*2,' M ;?% LL 'RX' 8) >)' 86.' 6' . ?D1/ 0*/ +*-62>*' M & .0% L+ 'ST >1?=% B1)2' ' X' 86.' 6,'/* 5,/' ?60*' 62' 1DA*>,' 1 ' 01/6,-1;.' 8FX-./ =% : *[I9 6),' 1' 0*.,-1 ' ,) *' >)6-?' -*0;>*0' ,.' 26?*' ,1' ,.' ?*-*' ?6,*- 6/ M2,A2.,/' ; 2.' ' ' ` 2 -2 X' ' 25.' L+ ' ' % ** * 4 >.:(% ( )*.*' " " ' ,) *-* 1-*' 8*-*' =-1D^ 6D/ ' %" ' =*1=/*' 8)1' / 9*' ,) *' 62> *2,' ./$' M / 2A' #!' 7!' + ' KT L+ ' X' 620' <6-?6- 0F' M $% ,6/% 'Q X' 8*-*' .;==1.*0',1' -*20*-' .*-=*2,.' 221>;^ 1;.' 620' 1D*0 *2,' M L10% + 'RT B*-% + ' T >>/% L' X' >) * / ' D ',) *' =18*-' 1 ' ?;.>' M >620% ' SKT ;>62' L 'QR T 16 '+ ' NX' D;,' 6/.1' 21' 01;D, ' D ',) *' =1..*.. 12' 1 ' .1?*' 5*2; 2*' 620' 1 ,*2') *-*0 ^ ,6- '.*>-*,' M 62*' !'6 % ' S' ._% T -21D% !' ? ' 'NKX% ( )* ') 60' 6' . ? /6-'=18*-' 1+*-' .>1-= 12.' M -62>9/*2.' - ' ' 8!' **' ! % " + " %"(' M *=,% I% %%) :E E !' = .' ;,) % *-.' 8 ,>) JX% ( ) .' 81-0') 6.' 6/^ 86.' ' " ' .*2.*' 2',) *' /0' (*.,' 2',) *' ,87*/+*' 2^ .,62>*.' 2' 8) >)',) *' +*-D' \6/86.' A' 620',) *' 21;2' 6-*%;.*0% ( )*' - 6>') 18*+*-' I+ %8' D*6-.' ,) *' 5110' .*2.*' % ' % ' ,1' 410' >$ * ' 8 a -, % ' =' >,.' + ' N T C' L ' KX% ( )* -6D >' I" " 8' .;55*.,.' ,) *' ?*62 25' 1 ',) *' ? ..^ 25' 6/b ,1' -*+*6/%J' 2' L10% + ' ',) .' 81-0' 0*.>- D*.' M 2' =/;-%',) *' ?65 > 62.' 1 ')6-61) ' 8) 1' 7-*' 6/.1',) *-*' >6//*0' '620' M6.' 6/.1' 2' + ' 'KKT >1?=% 4*2% L 'Q' K X' $=1 =67 A;6->(> /*? /*L' + ' SNNX' ' ' ' 1 ' 5 =,% ( ) .' /6,,*-' ,,/*' 0*2, *.',) *.*' 8 ,) ' ,) *' <65 ' 1-' ' 1 ' ,) *')6/0 *62' >1;-,'M.**' 62% ' ' K X% ( )*' =-1=)*,' 86.') ?.*/ '?60*' D ',) *' 9 25' 1 ' 6D /12' 2 ' ?6.,*-' 1 ',) *' ?65 > 62.J' M 62% + ' X% ( )*' 6-,.' 1 ' ,) *.*' 0 + 2*-.' M 7$) D ' L10% + ' ' +*-% KKX 8) >)' *26D/*0',) *?*,' 1' 8 ,) .,620' <1.*.' 8*-*' 01;D,^

>12 1;20*0 ML$ ' KX% ( )*' >12A*>,;-*' 1 ' D*2' [-6 ' ,) 6,' ,' 86.' ,)* -' .9 //' 2' ,)*' .*>-*,.' 1 '=) . >6/' .> ^ *2>*J' M_;1,*0' 2' 6-=[1+ ' &%% 1' =% NX ' .;>)' 6.' .' 6,,- D';,*0',1',)*' ,-;- 62' 'D ' : ; ?D1/0,' I1) ' % >%X ' 8) >)' *26D/*0' ,)*?' ,1' .;.,6 2' ,)* -' ?= 1;.' >12,*.,' .' 21,' ;2-*6.126D/*% ()*' 26?*.' 1 ' ,81' 1 ',)*.*' + ' M1-' 6-*' 5 +*2' D 6;/' K' (?% ' Q% M 1-' (6/?;0>',-60 , 12.' 6D1;',)*.*' .** ;L,1- ' U*6-% - !' >1/% R T' >1?=% / 2 D !' 7 !' d d d ' ' 8)1% 6..1> 6,*.' D ' 620' D % ' 8 ,)' <1.*.' 'D :' =;/* ;.'&% !' Q*0% 6.6;D%h' 8)1' ?*2, 12.' 'D 1' *,>% ' 6.' ' ' 1' " :' ;?*2 ;.' A,)65% 2' ;.*D ;.' I* %0 6 !' L ' Q ' 8)1' ?*2, 12.' (* ') ' J C% 8 ' & --- ' 620' ' 1' D !' ()*' <1./*?.' >6/' ,)*.*' ?65 > 62.' ' 620' ? :' : *-D*/1,' .% +% <1;C .6 T 620' 6/*') =% KN T >)1*,,5*2' # !' # " ' =% QRN T 1.*2?;//*-%12' 6 ' % >%X% : 18',)* '=-1^ 0;>*0',)*' 8120*-.' 8) >)')6-0*2*0',)*')*6-,' 1 ')6^ -61) ' 8),)*-' D ' ?*>)62 >6/' 1-' >)*? >6/' ?*62.' 1-' D ' ?*-*' /*5*-0*?6 2 '1-' D '0.*?12 6>6/' 6.. ,,62>*' M6.' .;==1.*0' X ',)*' 6,)*-.' 620' B1.*=);.' & !' ' SX ' 8*' >62' 12/' >12A*>,;-*% ()*' % (% 5 +*.';.',)*' 26?*.' 1 '1),)*-'0 + 2*-.' 6/.1 ' 2',).'-*.=*>,'0 *- 25' 1D.*-+^ 6D/ ' -1?',)*' -*.*-+*' 1 ',)*' % (% ' *% 5% 1 ' ?12' <65;.' M >,.' + ' R' X T 1 ' 6 A*.;.' 1-' / ?6.' M >,.' L ' ' Q ' 1' % 8T ,)*' .12.' 1 ' >*+6' M >,.' L L ' WN ' (%) -- 8! & *')6+*' 6//;0*0',1',)*' .;==1.*0' * ' D6. .' 1 ',)*' 6-.,' 1 ',)*.*' 1- 1-' M 1-',)*' 0*2, ,' 1 ',)*.*' .**' 6/ .>)' 12 6 !' =% T 620' * / 620' */ ,[.>).' ; ' = (' ' N X% ()*',*-?' ;20*-' >12. 0*-6, 12' ? 5),' 21' 01;D,' 2+1/+*',)*';.*' 1 '0 + 2 25C-10.' 1-',)*' =;-=1.*' 1 ' 20 25' 86,*-' M6_;6*/ > ;?X' *,>% '0*=*20*2,'12' =) .^ >6/ /68.' 12/ ' =6-,6// ' ;20*-.,110' M <6 1 .' %!' = % + U 8! **' .! ' $?D-* ,' 12' !- "' 620' * / 25' I*," ' ! ' KRX ',)*' 81-0.' dN ' ,)*' D/6>92*..' 1 ',)* 06 J' 271D' % '6-*',69*2',1'?*62' >*-,6 2' 11 = U3 ' 8) >)' 06- *;',)*' 06 J%=-6>, .*0' D ' ?65 > 62.' M.1?*',) 29',)*?' 6/.1' 20 >6,*0' 2',)*' Q,)' +*-.*' DA' ,)*' 81-0.' ,)6,' >;-.',)*' 06 JX' 8)1 8*-*' 6D/*' 6.' ,)*.;=*-.,.,1;.' ?65 2*0',1' >)625*' ,)*' D-5),*.,'06 ' 2,1',)*' 06-9*.;' ?02 5),% 1=;/6-' 521-62>*').' 6/86 .' >122*>,*0' ?65 >6/ =18*-' 8 ,)' .> *2, >' .9 //% ()*' 1-*,*// 25' 1 ',)*' -.*' 620' .*,, 25' 1 '.;2' ?112' 620' .,6-.' 620',)*' =-*0 >, 12' 1 '*>/ =.*.' ;.*0',1' 2+*.,'6.,-121?*-.' 1 ' 1/0' 8 ,)' 6' -*=:,6, 12' M -5 /'! 6 !' +' QR T + 0 ' !' L ' KSN T : 1-6>*' 6% !' +' T (D;//% ' K ' K% 1')69.=*6-*' - % ' X ' 2' L10% LL ' Q ',)*' *? 2 2*' 7N KN N7' " " " %" ' ' 1>>)-.' M6/.1',-62./6,*0' '" 2',)*' % %X% 2',)*' ()*1>-6, >' . .,*?' 8)*-*' 81?*2' 6.' 8*//6.' ?*2' 8*-*' *20;*0' 8 ,)' .;=*-26,;-6/' 5 ,.' M.;>)' 6.' *D1-6)' : 6226)' ' ;/06)X' *?6/*'=-*,*20*-.' 8*-*' ,1' D*' 1;20 ' 20**0' 6>>1-0 25',1' <6 ?12 0*.' > '" 7 "!' ' N X' 620' 6D /% 4*?6-6' I$ " ' 2' $51/2' -+ !' dd ' SX',)*' 8*-*' ?1-*' -*'+*2',)62'?6/*.% ()*-'0 + 26, 12' .'-* *--*0',1' 2' [*9% L 'KN' 620' 0*^ .>- D*0' +*-% CKK' M>1?=% (-;?=) ' ' ' % ' %%% '% %" !' 2' -" !' 7 !' ' !' $ ' 'R K' 620' =)-*?' 7;.' 2' 1.*2?;//*-' 2' /1>% 8)1' .;=^ =1.*.',)*' =//18.J',1' D*' 6?;/*.' 1-' 0 + 26, 12' ,,*0' ,1',)*-'./**+*.X% **' " ' ! % ()*' 2*L,' =)-6.*' 2',)*' <1.6>' >6,6/15;*' 1 ' D 00*2' 0 + 26, 12' .' M *;,% L+ ' X' 7K:' " (' ;>)6-?*-J' M *=,' 1 (' ;/5% (8! ()*' -11,' + " (0*21,*.' * ' " ! 4*' .*2 ;.' MD ' 1D 2.12' =% KRNX' -* *-.' ,1' 6' .=*>*.' 1 ' ?65>' 8)>)' 86.' =-6>, .*0' D ' ' + ' M>1?=% 41-0 62' + 8! 6-=[1+' I1&%% ' =% X' _;1,*.' 6DD 2 >6/' 6;,)1-,' 620' 1>)6-,' >#! ' N' SX' 1-' 6' 9 20' 1 '0 + 26, 12' 8)>)' ' " '21L^ 1;.' >-*6,;-*.' M.*-=*2,*.' 620' .>1-= 12*.X 1-' =;-=1.*.' 1 '.1->*-A T 620' 2' .6% + ' S',)*'+*-'=)-6.*' D* 1-*' ;.' .' 6==/*0',1' % ' " ' M **' 6D1+*';20*-N%X' 46;/?2' M 2' 6-=[1+X' ?*2, 12.' % ' # ' 6.' ',)*'+*-' 510.' ?5),' D* ' D ' ?65 >' 6-,.% ()*=,'+*-.12' .;55*.,.' D;-' % = ! =*// .' 6' 9 20' 1 ' 2>62,6, 12' % ' ' ' (P .6 .' 1?C 2*-% :*2>*',)*-*_;*2,'6//;.12.',1' .;>)' 6' >)6-?' 2' 2' =1*,-% ()*'-* -6 2' 2',)*' >)1-;.' 1 ',)*' ;-15' M%7.C' >) /;.' 6 'KRS' N Q' NK X' 'M6' .=*//CD/5),X' .' ?,6,*0' D ' -12' I1 ' ' X% 1' < /,12' I ' Q KT' B12.12.' 8,>)' M 2',)*' $ ' $" %" 8' .' .6 0' ZT ' " :P' >1?=% *6;?% 620' /*,>)*-' >-" ' '$ * ' 'KX% ()./6.,'_;1,6, 12' 0 -*>,.';.',1' ,)*' D*.,' *L=/626, 12' 1 '0 + 26, 12' D ' ,.' 0*6 .' ' " 1',)*' - 25')6.' 6/86 .' D**2' -*56-0*0' 6.',)*' . ?D1/1 '.;>)' >12A;2>, 12' M>1?=' = 2',)*' ?6-- 65*' .*-+ >*' 1',)*');->)' 1' 25/620X% 2' ,)*=)*21?*26' 1 ' >1) - O % - 8' 1-' 0 + 26, 12' D ' - 25' M 1,,*-' ' QT ?*0/* ', ' $ ' =% N NX' 8*')6+*',)*' ?1.,' *L6>,' //;.',-6, 12' 1 ',)*' .;DA*>,' D* 1-*' ;% B1.*=);.'>& !' + ' K' SX' 6?125',)*' 6,,-D;,*.' 1 '9 25' 1/1?12.' 8 .01?' 6.>-D*.',1') ?' ? ;>)' ?65 >6/ .9 //' 620' 8 ,)',)*' -*.,' 2*>-1?62> ' 620' .A(*//.' 620' 51*.' 12',1' .=*> ' 62' 27' .,62>*' 1 '*L1-> .?' D '+ -,;*' 1 ' 1/1?12.' ?65 >' ! : *-D*/1,' M.%+% 4 6?' 6/-*60 '_;1,*0X >6//.' B*?.) 0' " ' $ ' ' :' 620' 6>>1-0 25',1' < 2;,1/' >5 ' =% QNX' 1/1?12' .' 1-0 26-/ ' -*56-0*0' 2' <1.^ /*?' >1;2,-*.' 6.',)*' 5-*6,'?6.,*-' 1 '0 + 26, 12% ** ! S% 6 L' " N' "' 6' >12.;/,*-' 8 ,)' 6?/6-' .= - ,.J' M *A7,% -% % T ;/5% 4 ' + ' = 1!' <1.,'8-,*-.',-*6,',)' .' >/6..' 1 '0 + 2*-.' 6.' 9 ' M.1' 4*.*2 ;.' -" ! =% N X' ;,' 8)6.*+*-' D*',)*' >/1.*' >122*>, 12' 1 ',)*',81' 6.' 0*0;>D/*' -1?' 1,)*-'=6..65*.' ,' .' ?==.. D/*',1' .;==1.*',)6,' 2' *;,% L+ ' " ' L' L /A' .' .AC212 ?1;.' 8 ,) 8)>)' 1//18.' 6/?1.,' 2*L,% 7,,>)*-' ' ' >6-*;// '0 .,25;.)*.' D*,8**2' ,)*' ,81' *L^ =-*.. 12.' M=% QX' 620',)*2' 0*2, *.',)*' 8)>)' 1>>;-.' 2',)*' =/;-6/' 2' B1D' LLL ' R' M 2I ,.' =-?6-' .*2.*' 1 '6' " ' ' 1-' 86,*-C.9 2X' 8 ,)',)*' 21;2' 1',)*' .6?*' 1-?' 8)>)' .' 1;20' 2' .1' 2 62 I71,)>-' =6..65*.' 8 ,)' 6' 0 *-*2,' ?*62 25% 2',)*.*' ,)*' *=,')6.' 2+6- 6D/ ' ;.*0' , 6M(-A \6TN71>' 8)>)' >12^ 2*>,.' 1;-' =)-6.*' 8 ,)' 4 '6.' 6' D-62>)' 1',)*' 0 + 2 25' 6-,% M 1-',)*' .;==1.*0' >122*>, 12' D*,8**2' ,)*' =-?6-' 620' .*>1206-' .*2.*.' 1 ' K ' .**' 4*.*^ 2;.' -" ! =% N ' 620' ! D ' 1D 2.12' =% K T 6/.1' 1,,>)*-' =% ()*' 626/15' .' 6/.1' 2' >/1.*' >12^ .,*2>' 8 ,)',)*' 81-0.' 1 ' B1D% ' $?D-*,' 2' /1>%X' : 6+ 25' .*,,/*0',)*' .*2.*' 1 ',)*' 81-0' 1,,>)*-' 51*.' 12',1' 0-6 8' 6' 21, >*6D/*' 0 .,2>, 12' 2' >*-,6 2' =)-6.*.' 8)*-*' ,' 1>>;.% -.,' K 7' 2',)*' .25;/6-' 2;?D*-' 0*. 526,*.',)*' % ' M % 8)6,')*' >6//.' ?;-?*/D6;>) J' ' \ 2' 6' >1--*>,'.*2.*h' 17 ?;-?*/8*.*2 J' ' \ 2' 6' .;=*-.,.,1;.' .*2.*h X% :*2>*' 8*')6+*'.;>)'=)-6.*.'6.' K7 Z' '\1-'182*-h' ' ' ' % ' M ' 6?% LL+ XT' ,(' 4 ' ' % '\ % *% .6.' 1,,>)*-' '+*2,-1_;.;*+6,*.' =.*Jh' M *;,% L+ ' X% *>120/ ' K / ,' 8)*2' 51+*-2*0' D ',)*' =6-,>/*' K '-* *-.' 21,',1',)*' ' 1-' =-1 *.. 126/' 1>12.;/,*-' D;,',1',)*' =*-.12' 8)1' -*_;*.,.') .' 67 0& ,);.' 8)/*' K ,' D' .6 0' 1',)*' 0 + 2*-' > ! !8' K I d K' M8 ,)',)*' =6-, >/*X' .' 6==/*0',1' 9 25 6;/' 8)1' .1;5),',)*' 6?/6-'.=-,'D ',)*' 6 M71',)*' ' % " ' M ')-12% L' NX% ' ()*.;2*' 0 .', 2>, 12 J' .6 .' 1,,>)*-' .' 6/.1' ?6 2,6 2*0' D ',)* (6-5;? .,'620' (6/?;0 .,%J' M 1?=% 76?% LL+ 'Q' ' + 2*',1'?*' K d N' " ',)*' 6? /D-'.=-,% JX' () -0^ / '-K d ' 2',)*' =/;-<' .' ;.*0' 2' 6' ' .*2.*',1

20 >6,*',)*'+*2,- /1_; .,.'1-'0 + 2*-.',)*?.*/+*. '620' 21,',)*' 6? / 6-'.= - ,.J' 8)>)' 8*-*' .;==1.*0',1'6>,^ ;6,*',)*2'!1' ' 1'=% 'g K 8)*-*',)*'/*6-2*0' 8-,*-'600;>*.' . ? /6-'>6.*.' 1 '?*,12 ? ' -1?' 1,)*-' /625;65*.a' 6.' 61- = >' .U1-CS*W* J' (,%% KT .1' 1;-' ' (',)*' 4*-?62' ,[C B>>/= * J' ' >9D6;>)* J *,>%X' ',) .' >6212' 8*' 0 .^ >1+*-')*' 5*2*-6/' 6>>;-6> '1'1;-' %O!' 2' g;>)' =6.^ .65*.' 6.' *+% L L ' N '8)*-*'-.9 /' .' 8*// -*20*-*0' '-" '" '" ' 6? / 6-'.= - ,. J' 1?=% *+%LL'ST' 6?%LL+ 'N'RT' K' 25.'LL 'K T .6% + 'RT' L L 'N% 2' .6%LL L ' ',)*' .6?*' >12>-*,*' -*20*- 25' .' 6==/ *0',1' d' 2',)*' . 25;/6-' >12,-6- ',1' 1,,(' >)*-.' -.,' 620',) -0' >6212.T' D;',) .' -*20*- 25' .' 2 *- 1-',1' 8)6,' 1,,>)*-' 81;/0' .;55*.,'+ [' ( ) ' +1 >*' .)6// " ' ' % 1' ' ' " ' *,>% ( ) .' .',)*' 12/ '=6..65*' 8)*-*',)*' 6>>;-6> '1' 1;-'+*-. 12',);.',*.,*0'.**?.',1' D*' 6,' 6;/,T ,'>12^ ,-6..,' .,- 9 25/ '8 ,)',)*' *=,' 2' ,) .' =1 2,' 8) >)' ?6 2,6 2.' 21' 0 ., 2>, 12' D*,8**2',)*' . 25'620',)*' =/;-'1',) .' +-1-0'1,)*-',)62',)*' ?*>)62 >6/ 12*' 1' =;,, 25' - 1 ' 1-' d' 620' + 1 ' 1-'2.L% ()*' ;/56,*' .'?1-*'>6;, 1;.'*'5%,'-*2^ 0*-.'?1.,'17,)*' =/;-6/.' 1'-5),/ 'D;,' .'12',)*' 8)1/*' 2 *- 1-',1',)*' % % 2' 6>>;-6> ' 1-' , ,-62.C /6,*.' D1,)',)*' . 25%C d' 1 'K 25.' LL 'S'620',)*' =/;-% , 2L' 1 'K 25.' LL 'K 'D',)*' .6?*' 81-0' (" $'620'.?/6-/' .6% + 'R'620'L L 'N% M 1-' 6'0*.>- =, 12' 1',)*' */=) 62' ,)6' 1-' ,)12 ..6' 620'8)'+*2,-/1_;.,' 6>;/,*.' 8*-*' 6,,- D;,*0',1')*-' \8)*2>*' 12*' 1')*-'0*. 526, 12.' > 21-W67A;; 1=X'.**' 1,,*-.'& 4!' >% L%X' '+6.,'6?1;2,'1' 2 1-?6, 12',1;>) 25',)*' :*D-*8'& . /'620',.' >122*>^ ,12'8,)',)*'8,>)'1' 201-' .' >12,6 2*0' 2',)*',-*6^ ,.*' 1' *1' //6, ;.' 620' ;.,6,) ;.' 2, 1>)*2 ' ' ' 6 " .' 620',)*' $ ' ' 1' < >)6*/ 1,)6-0'6//-*=- 2,*0' 2' '$ '+ 'N NC Q% **' 6/.1' ,%) .1.,1?',% 'M*0' *2>0%X'+ ' ' >12> .*' .,6,*?*2,' .' >12,6 2*0' 2' 1,,>)*-.' 81-9' =% C % ()*' 0*2, , '1' d' 620' 2 C d' 8 ,)' 2>>C ('>12,-6- ',1' 1,,>)*-.'+ *8' .' ?6 2,6 2*0' 2 % < // ' ' ' *.=*> 6// ' 2' >)6=' + '8)1?' 4*C =>T ;.' 1//18.' 2' -" '.% +% d% **',)*' ' ' 2' $51/% -" f' LL ' C KQ% 1-' 62> *2,' B*8 .)' A;2 12.' 12',)*' 6==6- , 12' 1 ' 6?;*/,1' 6;/' .*>' B1^ .*=);.' & f' + ' K' 620') .,12 .' 21,** 2' /1>%T 6/.1' >>/*. 6., >;.' L/+ 'K % 2',).' .;DA*>,',)*' .*>120' /*,,*-' 1' -' & % >1,,' , ' ' " ' ' " 1' 8,)',)*' 21,** 2',)*' 6==*20 L' 1',)*' +1/;?*' .' 8*// &1-,)' 1'=*-;.6/%)6,*+*-' '410' ?6 ')6+*' =*-?,,*0',1',) .' -*?6-96D/* >6.*' 1'0 + 26, 12',)*' -*.1-,',1',' D ' 6;/ 86.' ?1.,'1 *2. +*',1',)*' 0 + 2*' * 25T',)*' 9 25 .' -*A*>, 12' .'=6-,/ '6.>- D*0',1',' 2' ' 4D-12% L' Na' .1?*8)6,' . ? /6-' .',)*' -*6.12' 6.^ . 52*0' 1-' 410 .' +*25*62>*' 12' <626..*)'MK' 25.' LL ' % **',)*'-*?6-96D/*>6212.' S'620' S'1',)*' (-;//62' Q (f 1;2> /T *+*-*5 ' $ 3 1f' ' ;' **' ('1 % -1?' ,1'9218' .';2 1-?/ -*20*-*0' 2' % %D'11 // '69 2',1',*8*J' 620' ,1',)*' 4*-?62' +*-D' /*?>8J'M1/0'4*-?62' / /,1' 9218% M *=,' 2' 1;-'=/6>*.' % * - f ' '+ ' ' ;/5% $* ?1.,' -*_;*2,/ %X () .' : *D-*8' 21;2' 1>>;-.' */*+*2', ?*.'620' 2' ' .' >1;=/*0' 8 ,)' ? L T 8*' ?6 ',);.'-*56-0' ,'6.' 20 >6, 25'6';.;^ 6/'>12>1? ,62,'M=*-)6=.' 1 '>/*+*-2*..' 620'0*L,*-, X' 8 ,)' 8*;,- /1_;/.?d ,) .' + *8' .' >12 -?*0'D ',)*' *=,'+ 1 % % 1 *6.',)*'-*20*- 25'1 ' 2' .6% L L 'N'6'+*-.*' 8)>)'=-1+*.',)*' 5 =, 62'6-,.'1'0 + ^ 26, 12' 8*-*' .;D.,62, 6// ',)*' .6?*' 6.',)*' :*D-*8' 2' ,)6,'65*' M>1?=% 1,,>)*-'=% 'g KN T 620' .**' 68C / 2.12.' 21,*' 12' # /' 'QN' 2'*L=/626, 12'1'6'.**?^ 25'0 .>-*=62> 'D*,8**2',)*' =-1=)*,' 620',)*' D .,1-'C % ' 4' '4 62X% 2'621,)*-'=6..65*' 1 ' .6 6)'M+ ' RX',)*-*' 11' >;-.' 6'5110'0*.>- =, 12'1',)*.*' 2',)*',81 *= ,)*,.' *L=-*.. +*' 1',)*' " % '% %9 ' .1;20.' 1 ' 1;25' D -0.' 620' 6==/ *0',1 ,)*' '1',)*' 01+*' 2' + ' R% M ,)',)*' 1-?*-' .'),)*.*' >1?=6-*' : 1-6>*' $!' 'Q '620' 8 ,)',)*' /6,,*- -5 / '6 ' $'NR% 1' 2' : 1?*-' !' L '/ /' ,)*' .)60*' 1 ' 6,-1>/;.' 0*=6-.,' 8 ,)' 8)6,')69.=*6-*' Q# ' h' >6//.' 6' ._;*69'620'5 DD*-%J 2' ; 8' *L=*>,*0' //;.,-6, 12'1',)*.*' 6-.,' ?6 'D*' ?*,' 8 ,)' ' 6=,6 2' 12. .' 'D '=% N Q' 8)*-*')*' O>' .>- D*.',)*' *6,.' 1',)*' ._; ?6;L'+*2,-/1_;.,' (11C /*?69'1'5/11/ 9% 1?=6-*',)*' >;-1;.'6>>1;2,'1'6' ?10*?' 2*>-1?62> '/*,' ;.' D ' *2+*2;,1' */// 2 T D1,)'1',)*.*' 6-*' 26--6,*0' 2' -' -*8.,*-.' ' '7 ' '=% SQC '620' SC Q%X' ()*' *=,' +*-. 12' ?;>)' ?1-*' 2*L6>,',)62',)*' 25/ .)' -*20*-.' ,)*' 1' *;,% L+ ' 'D' %) ,- '1-'1SC ' ' T 8)6,',)*'% '8*-*' 8)>)'6>^ >1-0 25',1',)*' *L,-6+6562,' D*/*' 1',)*' 6DD 2 >6/ 8-,*-.'8*-*' ;.*0'D',)*.*' 0 + 2*-.' ?6 'D*' .**2' 2' 6-=[1+'&%% '=% S'8)*-*' 6?125'1,)*-.' 6-*' 600;>*0',)*' D -0'D '620',)*' ?12.,*-'D 1 ' ,1'6>>1;2,' 1-',)*' 1- 5 2' 1 '1;-',*-?% () .'/6.,' 86.' 6>>1-0 25',1',)*' 6DD .' 6' >*-,6 2' D*6.,' 2' .)6=*' / 9*' 6'?62'M>6-> VNd, -0M76X',)*'D12*.'1'8)>)',)*' 0 + 2*-')*/0' 2') .',**,)'M<6 ?12%' ' ' '+ 'NT' ;/*25*-' P*'A +% 'NNT' */- 1'X .5-;,.% + 'KT' 4108 2 .' I' '& !' + ' X% ()*' 4-**9'0 + 2*-'6,*'>*-,6 2' * >6> 1;.'=6-,.'1'62 ?6/.'M 1-=) -% ' '& ' X% 1-'1,)*-'D12*' 0 + 26, 12.' .**' ;D-;_;.,.' " '=% S'620' *2262, .' $ '=% QQ'M 2' 29*-,12X% **' !A % Q% ()*' /6.,'0*. 526, 12';.*0'D ' <1.*.' 2',)*' 5-*6,' =6..65*' D* 1-*';.' M *;,% L+ ' ' X .' L "(' '" = " (M12** +1 ' ' "' :' *=,% - % '- ')% (' ;5'4 '4 ' ' +*- ,6,*?X% () .' =1 2,.',1',)*' 6?1;.' 6-,' 1' ',)*') % % '1-'M6.',)*' =-* *--*0' ,1'8-,*',X') % - '1',)*' 4-**9.% () .' 86.' 60 + 26, 12' 2' 8) >)' 62.8*-.' 8*-*' 5 +*2'D ',)*' 0*60% ,' 86.' .1?*, ?*.'=*- 1-?*0'D ', >' ?65 >6/ ;.*' 1' 6' D12*' 1-'+* 2' 1' 6' 0*60' D10 ' 1-'D 'I=1;- 25 86-?' D/110' 2,1' 6' >1-=.*' 6.' ',1' -*2*8'/ *' 2' ,'M ;>62' " f'+ ' X% 1?*, ?*.',)*' ';.*0',1'-6 .*',)*5)1.,' 1'0*>*6.*0'=*-.12.'D '+6- 1;.'>*-*?12 *.'620' 2+1>6^ , 12.% $/ ..*.' 2' , 'D119' L')6+ 25'.6>- >*0' D/6>9' .)**=' 2' 6' 0 ,>)'620'=1;-*0' 1-,)'/D6, 12.' 2^ +,*.',)*' 5)1.,e' *.=*> 6// ',)6,'1' (-*. 6.'/1' 0- 29' 1',)*' D/110'6 ,*-' 8) >)',)*' 'D*>1?*' 8 // 25',1'62^ .8*-') .' _;*., 12.% M 1?=6-*',)*' *+1>6, 12' 1',)*' .)60*' 1' 6- ;.' 1-'>1;2.*/' 6 ,* 8,)*' 0* *6,'6,' 6/6C ? .' 2',)*' '1' .>) /;.' SN CSN %X () .' *+1^ >6, 12'1'.= - ,.' 86.' >6//*0' % T ,)*' 1 *- 25.' 1',)*' 0*60' 12' " '1>>6. 12' 8*-*' ? /0' 620' ;2D/110 T D;,' 4-*51- ' 6[62[*2' I ', !' ' 'D h8' .=*69.' 6/.1' 1' + -5 2.' 620' D1 .' ./6;5),*-*0' 6,',)*(*+1>6, 1 '1'5)1.,,%J' -1?' .6% L+ ' ,' 81;/0' 6=^ =*6-',)6,',)*' 62> *2,'B*8.' 2>-*6.*0',)*' .2' 1',)*-' .;=*-., , 12' D ';. 25' ' 1 *- 25.' 12' .;>)'2>>6C . 12.d ' ()*' -*?6 2' 6?125',)*' 5-6+*.' 620'/105*' 2' ,)*' ?12;?*2,.J' ' % ' " ' "' 2',)*.* X T .;>)' 8*-*',)*' 6+1-,*')6;2,.' 1',)*' 2*>-1^ ?62>*-.d ,)*' *6,'.8 2*.' /*.)J' 62' 01/6,-1;.'=-6>^ ,>*' M>1?=% + 0'@ ' 'N RT' : 1-6>*'$!' 'N S T 6--1' ' '5 '5 ' ' XT' '620' D-1,)' 1'6D1? 26D/*' ,) 25.' .' 2',)*-'+*..*/.%J' M * 6-*' -*? 20*0'1',)*' >*/*D-6,*0' 8 ,>)'.>*2*.' 2')69.=*6-*' "' 'NT' T 620' *.=*> 6// ' %X 1.*2? ///*-' 2' /1>%' -* *-.' 1-'6'/ 9*' 2>62,6, 12',1'<6->1' 1/1'1- ' ' " '6 ' 'K T 620' -'B%' %' 6+ .' 2') .' " 'M/6.,' *O%X' ' N' ?*2, 12.'>*-,6 2' ?65 >' .=*//.'=-6>, .*0'D ',)*' (61;' .*>,' 8 ,)',)*' D/110'1' .8 2*' .)**=' 015.' 620'1,)*-' ?=;-*',) 25.%J' '>;-1;.' >6.*' 1 '2*>-1^ ?62> ' 6/.1' 1>>;-.' 2' ,)*' ..,1-' 1' ',)*' =) /1.1=)*-

) ; 625C,. [*' 620') .' 8 *' 2' ,)*' .6 ?*' +1/ =Q ' QQ 2' ,)*' ,)' >)6= ' 1 '$+ " ' ' % 1' *,>M 2' ,)*' @ ' E' 12' *=; />)-6/ 620' =*-=*, ; 6/ /6 ?=. J ?6 ' D*' 1 ; 20' 62' 2,*-*., 25' 6>>1 ; 2,' 1 ' ,)*' -*6.12.' 38) >)' 20 ; >*0',)*' 5 =, 62.',1' D*.,18' .1' 5-*6,' 6,,*2^ , 12' 12',)*' -' 0*60' 12*' 1 ',)*? ' _ ; 1,*0' -1?' ->)*-.' # ' '6 % '&' 4!1' '12',)*' 1= 2 12',)6,' ,)*' .1 ; /.' 1 ',)*' 0*>*6.*0',6-- ' 8 ,)',)*' -' D10 *.' 2',)*' 5-6+*J' ( ) .' 600*0',1',)*' >12>*=, 12' 1 ',)*' ?1-*' *2/6-5*0' 9218/*05*' 1 ',)*' 0*60 ' /6 ' 6,',)*' 1 ; 206, 12' 1 ' f ( )*' *6-/ *.,') ,.1- >6/ ,6/*' 1 ',) .' .1-,' 1 '0 + 26, 12' 8)>)' 8*' -*>1//*>,' .' -*/6,*0' D ' : *-101^ , ; .' >12>*-2 25' *- 620*-' 1 ' 1- 2,)' 620') .' 8 *' <*^ / ..6 ' 8) 1.*' .= - ,')*' >12. ; /,*0' 1-' 2 1-?6, 12' 6D1 ; ' 6') 00*2' ,-*6. ; -*' M+' RKX 2' 12*' 1 ',)*' ?1.' 2,*-^ *., 25' 0 6/15 ; *.' 1 ' ;> 62',)*' ' %% '1-' 117 ' 6' +*- ' 5110' 0*.>- =, 12' .' 5 +*2' 1 ' +6- ^ 1 ; .' 2*>-1?62, >' >*-*?12 *. M 1-' 62' 6D.,-6>, ' .**' , '$ 'D ' ?*0/* '*,>= QN NQ %X' 2' (*-C ,; // 62 .', -*6, .*' ' '& ' 1>>; -.' 6' -*?6-96D/*' =6.^ .65*' 12' 2*>-1?62> ' 6,' ,)*' >12>/ ; . 12' 1 ' 8) >)') *' .6 .' ' >*-,6 2' .1 ; /.') 6+*' D**2' -*>6//*0' 2,1' ,)*' -' D10 *.' D ' ,)*' =18*-' 1 ' 410' 6.' ?62 *.,' =-11 .' 1 ') .' =-*-156, +*' ,)6,' .' 21' 6-5 ; ?*2,' ,)6,'6' . ? /6-' =18*-' .)1 ; /0' D*' >12 *--*0' 12' 6 ; 06> 1 ; .' ?65 > 62. ' 6//6> 1 ; .' 0-*6?*-. ' 620' / >*2, 1 ; .' =1*, .J' M>= S X 8 & *' ?6 ' 1D.*-+*' 2' >12>/ ; 0 25',) .' . ; DA*>, ' ,)6, ' 2' >12 2 25' M8 ,)' 1,,>)*-X' '% % ' ,1',)*' /6. ,' =)-6.*' 12' <1 *. .'/ . , ' !8*')6+*' ,)*' 6 ; ,)1-^ , '1',)*' ' 8)>)'/ ? ,.' ,)*' 81-0' 'M6' I 1' O % ' 2' 1 ; -' D/*X ,1' ,) .' =)-6.*' ** * !

' 1-?.' 1 '0 + 26, 12' ?*-*/ '-* *--*0',1' 2' ,) D/*' 8 ,)1 ; ' .=*> 6/ .62>, 12' 1-' -*=-1D6, 12' & *')*-*' 20',)*' .6?*' 5*2*-6/ =)-6.*' 6.' 2' ,)*' 1-*51 25' =6..65*' 1 ' *; ' 2,-10 ; >,1- ' ,1' 621,)*-' D ; ' ? ; >)' .)1-,*-' >6,6/15 ; *' 1-' 2' ,)*' -*?6-96D/*' =6..65*' 1 ' [*9 LL ' K ' \1-' KS 2' ,)*' : *D-*8 h '8*')6+*' ,)*' ,)-**' 6?1 ; ' 0 + 26, 12.' 1 ' ,)*' 9 25' 1 ' 6D /12' ()*' =-1=)*, '-*=-*.*2, .' ,)*' ?126->)' 6. ., 620 25' 6,' ,)*' =6-, 25' 1 ',)*' 86 '6 ',)*')*60' 1 ',)*' ,81' 86 . ' ' ' ^' M kBH =7X % : *' '?60*' ,)*' 6--18.' D- 5), J' M-6,)*-' " ' +' " ' " E ; /5 7 *=, ' * ' % 1 ; (8' *6>)' 6--18')6+ 25' 2^ .>- D*0' 12' ,' ,)*' 26?*' 1 ' .1?*' ,182', 1' D*' 6..6 ; /,*0' -1?' ,)*' _ ; +*-' ,)*' 6--18.' 8*-*' 0-682' 12*' D ' 12*' 620',)*' >, ' 8) >)' C86.' 8- ,,*2' 12',)*' -.,' 6--18' 0-682' 1 ; ' 86.',)*' -.,' ,1' D*' D*/*65 ; *-*0J' MB*-1?*' 2' /1>MX' 2',) .' 2.,62>*' B*-; .6/*?' 86.',)*' //C 6,*0' 1D^ A*>,' 1 ',) .' 0 + 26, 12' 6.' 8*' /*6-2' -1?',)*' 2*L,' +*-.*' 8)*-*' " ' 'D ! 7X . 52 *.',)*' 6--18' D*6- 25',)*' 2.>- =, 12' 1 ',)*' 011?^ *0' >6= ,6/' 6.' ,' -.,' *?*-5*0' -1?',)*' 0 + 2 25C ; +*-' M - 0*6 ; L' ' ' Q X' ., ; .' ')*',)-*8' ; =' 6' D ; 20/*' 1 '6--18.',1' .**' 8)>)' 86 ',)*' 81 ; /0' / 5), ' 020' 6// 25' 12',)*' - 5),')620')*' ?6->)*0',186-0.' B*^ -; .6/*?%J & *')6+*')*-*' 7' >6.*' 1 ' ! * O % - 8! ( ) .' .; =*-., , 12' 8) >)' .' =-1) D ,*0' 2' ,)*' WX-62' M>)6=C ' NRT' +' X' 86.' ?; >)' =-6>, .*0' D ' ,)*' 01/6,-1; .' -6D.' M (*-D*/1, ' ; ! ', !! ! +' >C 06) X' ()*-' 6--18.' 8) >)' 8*-*' >12.; /,*0' D* 1-*' 62 ' ,) 25' 1 ' ?1?*2,' 86.' ; 20*-,69*2' 6.' 8)*2' 6' ?62' 86.' 6D1 ; ' ,1' ?6-- ' 1-' ; 20*-,69*' 6' A1 ; -2* ' 1-' ,)*' / 9*' ; .*0',1' D*' 8 ,)1 ; ')*60.' 1-' *6,)*-. ' 620' 8*-*' 9*=, ' 2' ,)*' ,*?=/*' 1 ' .1?*' 01/ *+*2' .; >)' 6*-*' 9*=, ' 6, ' ,)*' ,*?=/*' 1 ' <*>>6' D ; ' 2' 0 + 26, 12' ,)*' 5*2*-6// ' ; .*0' D ; ' ,)-**' 2' 12*' 1 ' ,)*.*' 86.' 8- ,^ ,*2 ' ' "' " ' :' 1 / ,)*' .*>120' 86.' 2^ .>- D*0 ' ' '" "' ' ':' 8) /*' ,)*' ,) -0' 86.' +f ',)*' -.,' 86.' 0-682 ' ,'56+*' ,)*' 510 .' .62>, 12' ,1' ,)*' *2,*-=- .*' ,)*' .*>120' =-1) D ,*0' ,' D ; ' ,)*' ,) -0' D* 25' 0-682' -*_ ; -*0' ,)6,' ,)*' 6--18.' .)1 ; /0' 656 2' D*' ? L*0' 620' 656 2' 0-682' ; 2, / 6' 0*> ^ . +*' 62.8*-' 86.' 1D,6 2*0' M 1>1>9* .' 1% !& " ' If7K *,>%' 4*.*2 ; ,. ' =%/KK ' ; (') F ! ' 1' ! =%R ' /10 ; . ' ! ' ! $! 'KX */ /6' 6/ /6 ')18*+*-' .6 .' M=% K SX' ' ' .68' 6,' /*==1' 6' <1^)6?*?*062' 8)1' >6 ; .*0',81' =*-.12.',1' . ,'12',)*' 5-1 ; 20' 1==1. ,*' *6>)' 1,)*-' 620' 56+*' ,)*?' ' 2,1' ,)*' -')620. ' 8) >)' D1,)' 1 ',)*?')*/0' 8 ,)',)*' -' =1 2,.' 01828 6-0 J' *,>% ()*' (' 2',)*' - 5),')620' 1 ' ,)*' -. - 62' 9 25' M.>; /=, ; -*0' 12' 12*' 1 ',)*' /6-A *' ./6D.' D-1 ; 5),' -1?' ?-1 ; OX' 6-*' >12A*>, ; -*0',1' D*' =-11 .' ,)6, ' ' ' 86.' =-6>, .*0' 2' 62> *2, ' 2^ *+*) ' ()*' 9 25' .'-=-*.*2,*0' 6.' 6,,*20*0' D ',81' 0 ^ + 2 , *.' 8 ,)' -C>12*' 620' D6.9*, ' 620',)*-* 1-*' .' 2' 6' -*/ 5 1 ; .' 620' 21,' 6' ?6-, 6/ 1>>; =6, 12' M 121? ' .2*C '" ' ' ' NO' *0 , % =' N SX ()-**' .; ,.1-.' 1 ' 62' 6..*-2' =- 2>*..' 0*> 0*0',)*-' >/6 ?.' D ' .) 11, 25' *6>)' 62' 6--18' 2.>- D*0' 8 ,)') .' 182' 26?*' ()*' ?1.,' 0 ..62,' 6--18' 20 >6,*0',)*' 26?*' 1 ',)*' .; >>*..^ ; / >1?=*, ,1-' M 1D*-,. .' , ' !' %f & * -*60' 1 '6' .1?*8)6,. ? /6-' > ; .,1?' 2' ; .*' 6?125',)*' 62> *2,' (*; ,12.' M(6> ,; . ' ? ' LX' 620' 6?125',)*' /62' M ?% <6>*//' LLL X' 6/.1' 6?125',)*' ?10*-2' 5 (X, 62' M 62*' ' X () .' .1-,' 1 '0 + 26, 12' 1 ' ,)*' 9 25' 1 ' 6D /12' ? ; .,' 21,' D*' >12 1 ; 20*0' !8 ,)',)*' 6--18' .)1,' MN d1 N1d 6X' 1 ' B126,)62',)*' 6 *>, 126,*' *L=*0 *2,' 1 ') .' .*>-*,' 86-2 25',1' 6+ 0' ' 6?% LL ' K '*,>C' 2' 8) >)',)1 ; 5)',)*-*' 8*-*',)-**' 6--18.',)*-*' 86.' 21% ; 2>*-,6 2' 0 + 26, 12' D ; ,' 62' ; 20*-.,110' . 52' M -182*' N !' 6 '+' KN K X 56 2' 2',)*' .)11,^ 25' 1 '6--18.' D 'B16.)' 9 25' 1 ' .-6*/' 6,',)*' >1?2?620' 1 ',)*' 0 25' =-1=)*,' MK' 25.' L ' QX',)*-*' .' 2' ,)*' ,)-**' 6--18.' 12/ ' 62' 6>> 0*2,6/' 21,' 6'-*6/ -*.*?^ D/62>*' ?1-*1+*-' 8*')6+*' 2',) .' 6>, 12' 21,' 62' ; 27 6 ; ,)1-[*0' ; =*-., , 12' D ; ,' 6' . ?D1/ >6/ =-1=)*> ' M>1?=',)*' . ?D1/ 8 ,)' -5 / '1 !' L' SKX ** L ! 4

K ' : *' >12. ; /,*0' 8 ,)',)*' ?65*. J M *=, ' % ' ' E (' ; /5 =' ' 8' B ,*-6// ' %" ! ()*.*')1 ; .*)1/0' 510.' 1 ',)*')*?, >' 26, 12.' 6-*' 1 ,*2' ?*2, 12*0' 2',)*' /0' (*.,6?*2,' -1?',)*' , ?*' 1 ',)*' - 62' 6D62' M4*2 LLL ' RX ,1',) .' 1 ',)*')6/0*' *D ; >)602*[^ [6-' M7**' ; 5 * *-' ' - %" ' 2' $51/ 2 ' -" =' ! 9L ' SS' 8)1' ; 22*>*..6- / ' 20**0' . ; 55*.., ' 12' 5-6?*?6, >6/ 5-1 ; 20. ' ,)6, ' ,)*' 9 25' 1 ' 6D /12' ?6 ')6+*' ; .*0',)*. *' ,)-**' 0 + 26, 12.' % ' " ' ' " 8! - ' 6 -D6 -2' M12' [*9 LL ' K X .6A.I ' () .' .' ,)*' 12/ ' =6..65*' 8)*-*' ,)*' ; .*' 1 ' ,*-6=) ?' .' *L=-*../ ' 6.>- D*0',1' 6')*6,)*2 J' () .' 1-?' 1 ' ' ; & % - 8' .')18*+*-' */.*^ 8)*-*' 26?*0' MU*>) IL' KT ' 6?% L+' KN' HX " - b62' 2 _ ; -*-X ()*.*' 8*-*' 8110*2' ?65*.' M ' 6?% L L ' NNX' >12. ; /,*0' 6.' 01/. J' -1?' 8) >)',)*' *L> ,*0' 81-^ .) ==*-.' 62> *0',)6,',)*' -*>* +*0' 1-6> ; /6-'-*.=12.*.% ()*' 21, 12',)6,',)*' *?D6/?*0',)*60.' 1' 2^ 62,.' 12' 6' 51/0' =/6,*' 2.>- D*0' 8 ,)',)*' 26?*' 1' 62' ; 2>/*62' .= - ,' .' 6DD ' / *[*-.' 2+*2, 12% ,)*-' 6DD .' ,) 29',)6,',)*' ?*62' 6.,-1/6D*.' *,>%J' ** O / ' ! 7N : *' /119*0' 2' ,)*' / +*- J)) , - *) $ ' !' !' - -) -* 1 ' f ; /56,*' ' 8! : *-*' 8*')6+*' 6' >6.*' 1 ' 6' 8*/C92182' D-62>)' 1 ' % " ' I E 8I % - 8' 1-' 9 ' ' " ' % ' ' ' 8) >)' 86.' >6//*0' I % ' M1-' 6-,' 1 ',)*')6-; .= >*.X ' =-6>, .*0' 2' 1?*' D ',)*' ,-; - 62' .11,).6 *-.' 620' ?; >)' -* *--*0',1' 2' D1,)' 4-**9' 620' 6, 2' 6 ; ,)1-.% >*-1' M *' ' ! X' ?*2, 12.',)*' ?=1-,62>*' 1 ' " ' ' 2' 0 + 26, 12' 1 ',) 9 20') *2>*',) .' D-62>)' 86.' >6//*0' + % % ' M X80-1Z(-> ' : *-10 62% + ' N ' .**' 6/.1' / 2 ' L ' N ' + 0 ' %" ' L+' NSX -- 62' I1& ! + ' QX ?*2, 12.' 62' *+ / =-1521.,>6, 12' 2' -* *-2>*' ,1' ,)*' 0*6,).' 1 ' /*L620*-' 620' : *=)6*., 12' 620' ; *,1^ 2 ; .' >& ! L>+' KX 6')6== ' 12*' ,-6D1' 6/.1' M ' KNK' *0% 6.6 ; D% ?*2, 12.',) .' 0 + 26, 12' 6.' =-6>, .*0',P ' ,)*' ; .,62 d 21,' 12/ ' 62 ?6/.' 1 *-*0' 2' .6>- >*' D ; ' % ' ' ; -2 .)*0',)*.*' D6-D6- 62.' 8 ,)' + >, ?.

1-',) .'D/110 '0 + 26, 12% ' ., //' ?1-*') 0*1;.' ?10*' 1 '0 + 26, 12' .' ?*2, 12*0'1 ',)*' 62> *2,' - ,12. ' 8)1' 81;/0' >;,' 0182' 6,' 6' D/18' 1 ',)*' .81-0' 12*' 1 ',)* -') ; ?62' .6>- >*.' 2' 1-0*-',1' 1D.*-+*' ,)*' =1.,;-*' 1 ') .' 6//') .' >12+;/. 12. ' /18' 1 ',)*' D/110' *,>%X' 620',1' 56,)*-',)* -' =-*0 >, 12.' 6>>1-0 25',1',)*' -;/*' 1 ',)* -' ;2>*.,1 .% ( ) .' .' ,)*' 12/ ' 2..62>*' ?*2, 12*0' 2' >- =,;-*' 1 ', .' .';=* I., , 12% ( )*'/ +*-' 86.',)*' ?1.', ?=1-,62,' =6-,' 1 ',)*' .6>- >*' 1-' 0 + 2 25' =;-=1.*.' M -,*? O% , ' ' T' >*-1' ' ' 3 ' ' NX% **' -+ %

% 2*' 1 ',)*'-*?6 2 25' .1/6,*0',*-?.' 1 '0 + 26, 12' 2',)*' >- =,;-*.' .' " & É II,)*')6-?*-. J 8)>)' 1>>;-.' 2' .6% L L ' N ' 2' 6' =6..65*%0*.>- =, +*' 1 ',)*' 01/6,- '620' .;=*-.,, 12' 1 ' 5 =,% ,' .' 0*^ - +*0' D ' 4*.*2 ;.' 620' < * *-' -1?' 6' -11,' É 69 2',1' -6D' 8)>)'. 52 *.' ' ' ' 9 ' ' < * *-'0* 2*.',)*' 21;2' 2'_;*., 12' D ' '1-' +% J' .1' 8*')6+*')*-*' 6';/6..' 1 ',)*' +*2,- /1_; .,.' 6/-*60 '0*.>- D*0% ;,',)*' *=,' 5 +*.' 621,)*-',;-2',1',)*' 81-0' -*20*- 25' D ') -6 '6.' '>1? 25'6 ,*-' ',' ?*62,',)* - " 1' : *-101,;.'M 'QNX',*//.';.',)*' 5 =, 62.'=1.^ .*..*0' ?62 '1-6>/*.' D*. 0*.' ,)6,' 1 ' 6,126' 6,' ;,1 ' 8)>)' 86.' ?1.','*.,**?*0' 1 '6//% :*' 600.',)6,' ,)*' ?10*' 1 '0*/ +*- 25',)*' 1-6>/*.'M6,' * 8' +6- *0' 6,' ,)*' 0 *-*2,'.)- 2*.%J' **' 6D1+*%

S% 2' 62% 'K' 1;-'>/6..*.' 1 '0 + 2*-.' 6-*' ?*2, 12' *0'å ,81' 1 ',)*.*' 6-*' 0*.>- D*0' 6D1+*' 1 ',)*' 1,)*-.' "U+ %"> (M D6/O% 2' B62%' 'K X .'=-1D6D/ '6// *0' D '0*- +6, 12' 8 ,)',)*' 81-0' + " "%%"(' 8)>)' 8*')6+*' 6/-*60 '0*.>- D*0' M /* *-' .6A.' b' ()*' 21;2' "% 'M6 _; +*-X' 1?',)*' .6?*' -11,' .;55*.,.',)*' 21, 12' 1 ' '620' ! ().,)*'=-1D6D/*' ?*62 25' 1 '1;-',*-.?'.;,.' +*- '8*// 8 ,)',)*' 0*6' 1 '0 + 26^ , 12',)1;5)',' //6>>1-0.' 8 ,)',)*' % '8)>)' 2'6//',)*' * 5),'=6..65*.' 2' 62 */8)*-*' ,'.' 1;20'-*20*-.' ! + 26, 12' D ',)*' .' 21,' ?=/ *0' 2',)*' 1- 5 26/% ()*' *=,' 2' *+*- '=/6>*' *L>*=.;'12*' M620',)6,'.' 01;D, ;/'.**' (-1?? ' - ' ' X',-62.^ /6,*.' D '% '620',)*' ;/5% 5*2*-6// 'D ' 9 ! ()..';55*.,.',)*'6..1> 6, 12'1',)*' 8 ,) ,)*' 1 ' <6,,' ' 'M ;,- =12' ! ; ! $!' =% QK X% ()..' 600*0',1',)*' 6>',),6,' . 5*2*-6// '>1;=/*0' 8 ,)',)*' " '620%,)*' =1 ' =-1 6D/ ' 2 /;*2>*0' 1;-' ,-62./6, I ' 2',)*-' >)1>*' 1 ',)*' 25/ .)' 81-0% ()*' 1- 5 26/')18*+*-' .' ?;>)' /*..' .=*> >% 1?*' =) /1/15 .,.')6+*' ?65^ 2*0',)*' 81-0' M-1715' .' 21' 1,)*-',)62' 8 ,)',)*' -.,' /*,,*-' 0-1==*0' 620')6+*' 6/.1' >122*>,*0' ,' 8 ,)',)*' *-. 62' %+ !' ;>)' 6' 0*- +6, 12' 81;/0' -6,)*-' =1 2,',1' 1>>;/,' 6-.' 620' >6D6/ ., >' 0 + 26, 12% **'

% ()*'*L=-*.. 12';.*0'D ' 62 */' 2' 7K ' + = + (' " = + " %" (' ,)*' = (' M620X',)*' 6.,-1/15*-.J ' .' 62' ' 1-' 1,/ >-' =/6>*.' =-1+*',)*' .*>120',1' D*' 6' 0 *-*2,' >/6..' -1?',)*' -.,'M.**' 6D1+*X% ()*' >/1.*' >12A;2>, 12' 1 ',)*' 8 ,)',)*' " ' 20 >6,*.',)* -' =6-^ , > =6, 12' 1',)*'_;6/ , *.' 1 ',)*' /6,,*-' ,)*' 2% %=' % ' 1-' .6>-*0'.>- D*.' 1 'D1,)' V =,' 620' 6D /12' 1+*-' 8)1?' 62 */' 86.' 6==1 2,*0' ' p-' ?6.,*-% 2',)*' /*6-2*0' ' % < // ' ' " ' ' ' ' 'M$51/ 2' -" ! LL ' KR' NQX' 2*6-^ / '6/' ,)*' 6>>1?=/ .)?*2,.' 1 ',)*' 0 + 2 25' 6-,' 6-*' 6,(' ,- / ;,*0' C,1' ,) .' 2 /;*2, 6/' >6.,*' D*5 22 25' 8 ,)',)*' " ' ? .,*- *.% ()*')1-1.>1=*' 8)>)' 86.' ?;>)' 2' ;,*' D ',)1.*' 1E) 'D- 25.';.'D6>9',1' 9 ' 8)>)' M,)1;5)' 21,' ?=/ *0' 2' ,)*' 0*. 526, 12' 2I K N X' 86.' 21' 01;D,'6'=6-,'1 ',)*-' 8 .01?% 4*.*(' 2 ;.' 2' -" '620' ! '0*- +*.',)*' 81-0' "

-1?' " (' 6'5-6+ 25',11/ J' 620' M12',)*' 6;^ ,)1-, '1 ' -*;[*-'$ " "' ' " ' I T' 620' B6D/12.9 ' !' "!'D % !'=%R '*,>%X'>122*>,.' ,)*'6-,.'1 ',)*' " %"=' 8-, 25.% 1,'/*..' =-1D6D/ ' -1?' .;>)'6' 0*- +6^ ,12',)*.*' 0 + 2*-.' ? 5),'D*' >122*>,*0' 8 ,)',)*' . .^ ,*?'1' ' .1' - *' 2',)*' 6.,' 620' 2' 5 =,' 2' 62> *2,', ?*.% *>' $!' ()*'/ +*-' 86.',)*' ?1.', ?=1-,62,' =6-,' 1 ',)*' .6>- >*' 1-' 0 + 25' =;-=1.*.' 4-**9' O % (8' .' 0* 2*0' M 2' -* ,65 ' !' & !' .%+% 'C X,1'D*' 6' ?65 >6/ ?65*' ;=12' 8)>)' ;,20*-' 6'>*-,6 2')1-1.>1=*' 6-*' ' ? .,>')6-6>^ ;'-. '6.' >)6-?.' 67 2.,' *2>)62,?*2',' 1-' 6.> 26, 12%J' (6/.?62.' 6?1271,)*-' ' 6-*' D;- *0' 8 ,)',-*6.^ ;-*.',1' =-*+*2',)*?' -1?' D* 25' 0 .>1+*-*0% ();.' ,) .' 0 + 26, 12' 6==*6-.' 6.' 6' >1;2,*-=6-,' 656 2.,' 62^ 1,)*-'.=*> *.'M 2'-)6D01?62> X' 8)>)' 86.' ;.*0' 1-',)*' 1 ',-*6.;-%' _;6// '+6- *0' 6-*',)*' 5 ,.' 6.>- D*0',1',)I*' " ' 2',)*',-62./6, 12.' 1 ',)*' *=,' 620' ;/5% 2' */*+*2' 1 ',)*' ,**2' 1>>;--*2>*.' 1 ',)*' 81-0'M6// 0*.>- =, +*' 1 ',)*' ?65 > 62.' 1 ' 5 =,' 620' 6D /12X' - ' 620' ' 6-*' ;.*0' 2',)*.*' +*-. 12.'T % %%) ' 620' * ' 2',81' 620' 2',)*'-*?6 2 25',81' 1 * * ' 620' % ! >>1-0^ 25',1'B6D/12.9 ',)*' 26?*' .' 0*- +*0' -1?' 62' 5 =I' , 620' 81-0' " ' k' ' 8120*-'C81-9*-% M 1-' 1,)*-'>12A*>,;-*.' .**' 6/.>)' ? !% ' S T' : * ^ 0*55*-'# ' LL ' KN%X' >1;-.*' ,',2 .,')6+*' ,)*' .6?*'0*- +6, 12' 2' 62% 'K '620',)*-* 1-*'>6221,' *0' -1?',)*')6/0**' X 2->H6FF ?0b.9 //*0' 2' .> *2>*' MB6);' ; '& "!'g KX% ',)* -'0 + 26, 12' 86.'>12^ 2*>,*0'8 ,)'0-682' 5;-*.' ,' .'=6-6//*/*0'D ',)*' *-^ .62'76F ?6 M 6/2 *,X',)*' ?10*-2' 5E =, 62'. "' 6',6D/*' 1 '/*,,*-.'6.>- D*0',1' 0- .' 1-' 21>)' M 62*' ' N X',)*' -*2182*0') 2*.*' =) '/2*.' 0 .>1+*-*0' D ' 1;)'12',)*' D6>9' 1 '6',1-,1 .*' 8)>)' *L=/6 2' *+^ *- ,) 25' 620' 12' 8)>)' ' /*6-2*0' >1? ?*2,6- *.' ,)6+*' D***2' 8- ,,*2' M : ;*.' " ' ' KN' . %X' 620',)* D '1-' ?6-9.'12' =6=*-'1 'B6=62' M *?= *-.'# ! >)% L+X% **' . ! %) (' M *=,% d2d;1(1,' ;/5' " = 8' : *-*'.6 .' >*-1'I' ' ' ! ' X' 8>'76 *'6' >/6..' .1' 26?*0' 21,' -1?',)*-'6-, 'D;,V-1?',)*' ?6, 12%J' ;,' 12/ ' 6' .*>, 12' 1 ',)*'C26, 12',)*' /*6-2*0' >6..1a' ,)*' 01? 262,'-6> J' .6 .' -2*.', 72627 8)1'56+*' ,)*-' 26?*',)1;5)' 12/ ' 6' ? 21- , ' 6.',)*' (;-9.' */.*8)*-*',1',)*' ?6..' 1 ',)*' =1=;/6, 12' 8)>)'0 *-^ *0' -1?',)*?' 2' 0*.>*2,J I# ' ' '$" =' 4 '=% S ' SQX% ()*' 6-*' ?*2, 12*0' D ' : *-101,;.' M ' Q X' 6.' 6' '>6.,*% >*-1' ' !' 21, >*.' ,)*-0*+1, 12',1'6.,-1/15 '620' ',)* '81-9 25'1;,'6' .>*/7*' D ' 8)>)' >1;/0' D*' =-*0 >,*0' 8)6,'86.',1')6=^ =*2',1'*0>)' 20 + 0;6/'620',1'8)6,' 6,*')*' 86.'D1-2%J' 101-;.' >;/;.'6 ,*-' ,*. 6.'6.. 52.',)*' .6?*' 1 >*' 6,' 6D /12',1',)*')6/0.*62.' 6.',)*' =- *,;.' D1-*' 2' 5 =,'I# ' ' KRX% B;+*26/' I$!'+ ' KX' 620' : 1-^ 6>*' I !' ' L X' -* *-',1',)*')6/06*62' 0 + 26, 12% ()*'=-1=)*,' .6 6)'ML/+ ' K NX' ?*2, 12.'.*+*-6/'0*^ ,6 /.'1 ',' 2',*-?.' 8)>)' 8*')6+*' 6/-*60 '0*.>- D*0% :18',)*' .6?*' 6==*//6, 12' >6?*',1'0*. 526,* D1,)',)*' '620',)*' >/6..*.' 1 ' 6DB(12' M>1?=% K' 25.' LL +' *,>% '8 ,)' 62% 'KX' 620')18' >12 / >, 25' 6 7*,)*' + *8.' 1 ',)*' ?10*-2' /*6-2*0' 6.',1',)*' ' 1',)*' D6/0.*62.' 6.',)*' *262' R' !' 620' -' :% 68/2.12' 2' 21,*' 1 ' 68/2.12 .'# ' 'N R% **' 6/.1' ' ! Q% 2*' 26?*' ?1-*' M1>>;-- 25' 2' 62% 'K T' +' T' 620' +' X' -*?6 2.',1' D*' 21, >*0' 0*.>- =, +*' 1 ',)*' 1' 6D /12' =, ' / (' M *=,% N 1 %4 T' ;/5% % :' % % '.11,).6 *-.JX% 4*.*2 ;.' 620' 1.*2?;//*-' 65-**' 2' 0*- + 25',) .' 81-0' -1?' / (',1' ' % '*,>% D;',)*' '0 *-' 2',)*' 6=^ =/ >6, 12' 1',)*' 0*6',)*' 1-?*-' ?69 25',' ?*62',)*')*6+*2.' ' 2,1'6.,-1/15 >6/.*>, 12.' M1' 8)>)')*5 +*.' 6'0 65-6?' 2') .' '/ 'D ' ' XT' ,)*' /6,^ ,*-' I$ " ! ' ' ' %>>%X' .;==1. 25' ,',1'-* *-',1',)*

0 + . 12' 620' 2.=*>, 12' 1 ',)*' *2,-6 /.' 1 ' + >, ?.' D ' 6- < \-, > FD1,)' ,)*. *' 9 20.' 1 ' 0 + 26, 12')6+*' D***2' 0*.>- D*0' 6D1+*%' ,)*-.' -* *-',1' B1.*=) ; .' M 6- ' + ' NX' 1-' 6.,-121? >6/ =1-,*2,.' . ;>)' 6.' ,)*' / ' 81;/0' 2,*-=-*,' M.**' 6/.1' ,% ;5; .,% ' ' ' !' " ' ' NK' *,>%X% B*-1?*' 2') .' ' 2' /1>% ' 0*^ *20.') .' 182' +*-. 12' 628=>< ' D ',)*' 6=,)1- , ' 1 ' ? ?6>D; .% ()*' *=,' 620' ()*101, 12',-62./6,*',)*' F 81-0' N 1 1 f ' 6.' ' ,' 8*-*' 6' =-1=*-' 21;2 ' / 9*')6/06*62.% **' ' # !

R% 2' : 1.*6' + ' K' 8*' -*60 ' <A' =*1=/*' 6.9' >1;2^ .*/ 6,' ,)* -' .,1>9.' M1-' ' 77PNX' 620' ,)* - .,6 '0*>/6-*,)' ;2,1',)*? J' ()1.*' 8)1)1/0' ,)6,' ,81' .*=6-6,*' =-1521., >6, 12.' 6-*')*-*' -*^ *--*0' ,1 ' 5*2*-6// ' ?69*' ,)*' 1-?*-' 6' >12. ;/,6, 12' 1 ' 8110*2' 01/.' 1-' %" 1' 8) >)')6.' 6/-*60 ' D**2' ,-*6,*0' M.**' 1.*2?////*-' 620' 1>1>9*' 2' /1>%X% B*-*^ ? 6)' -*=-16>)*.',)*' B*8 .' 1-' '.6 25',1' ' +' '@ " (1' M ' K XT' 620' : 6D699; 9 ' & 1*' ; 2,1') ?' ,)6,' .6 ,)',1' " ' 'MA7HX' 869*J' M ' RX% ;,' 1C' >1>9'M12' : 1.*6' + ' KX' 5 +*.' -*6.12.' 1-' .;==1. 25',)6, 12/ ' .1-,' 1 ' .;=*-., , 12' .' ?*62,' 2' ,) .' +*-..*' 26?*/ ' " ' I% C - 8 ' 0 + 26, 12' D ' .,6+*.' 1-' -10.% < 62 ' 9 20.' 1 ',) .' 6-*' 12' -*>1-0% < 6 ?12 0*.' I % % !' f' N X' ?*2, 12.' ,)*' =-6>, >*' 1 ' ',69 25' 6' .,6 '620' .,- 9 25',)*' 5-1; 20' 8 ,)' , ' 620' ?69 25')1-- 0' 21 .*. ' 8) /*',)*' 0 + 2*-.' 81;/0' .,620' 2' 6' -*+*- *' 2,*2,/ ' /119 25' 12',)*' 5-1; 20', //',)*' D*>6?*' / 9*' ?*2' .,-;>9' 8 ,)' *= /*=, >' ,.' 8)*2' -*^ 0;>*0',1',) .' -*2[',)*' 81;/0' ;,,*-',)*-' =-1=)*^ > %J' ()*/*6-2*0' 6DD' .6 .')*' .68' .;>)' 6'>6.*') ?^ .*/' 2' 6-D6- %)6.9;2/ M_;1,*0' D ' -;. ,' 12' *;,% L+ ' X' 600;>*.' 621,)*-' ?*,)10' D ' 8) >)' ,)*' 0 + 2*-' ?*6.;-*.') .' .,6 '8 ,)') .' 25*-' 1-') .')620 12*', ?*')*' .6 .' V' ' ' 621,),*-', ?*' ' ' ' .',)*2' ' ,')6==*2.' 6,',)*' *20' 1 ',)*' .,6 ',1' D*' ' ' ,')7' 51*.' 21,%J' 6DD' <1.*.' < 991,[' M 2' 1>1>9*' '>%X' ?*2, 12.' 6'0 + 26, 12' /P '6'= *>*' 1 '., >9' % ' '12*' . 0*' 8) >)' ,)-182' 6 6-' 1 ;.' 1 ',)*')620' 0*> 0*0' 6' 01;D, ' 6>>1-0 25' 6.' ,)*' =**/*0' 1-' ;2=**/*0' . 0*' */' ;==*-?1.,% (6>,;.' I? ' LX' 0*.>- D*.' 6' . ?/6-' =-1521., >6, 12' 6?125' ,)*' 4*-?62.% ()*' 7D /6>7' 6 ,*-' -/' 12',) .' =6..65*' 1 ' : 1.*6' ?*2' ,12.' ,)7' ;.*% 1 ',81' -10. ' .*,' ;=- 5), ' 8 ,)' *2>)62,^ ?*2,.' 620' ? ;,,*- 25' 1 '+*-.*.% ' ()*' -10. J' .6 .')*' 6// 25',)-1, 5)',)*' 2 /;*2>*' 1 '06*?12. ' .;55*.,*0' 62. 8*-.',1' 2_; -*-.' 6>>1-0 25' 6.',)* ' */',1',)*' - 5),' 1-' ,1',)*' /* ,' 1-86-0' 1-' D6>986-0%J' ,6+*.' 8*-*' .1?*, ?*.' >6-- *0' 6D1;,' 6.',)*' .)- 2*.' 1 '0*, *.' .6 .' *.,; .% (D;//;' MV% 6 !' L ' X' -* *-.',1',)*' .*' ?10^ *?' 0*, *.% 2' 6//;. 12',1' ,)*' .6?*' .;=*-., , 12' /*?*2,' 1 ' /*L620- 6' I$ ' ' X' ?*2, 12.' >*-^ ,6 2' ' ' " ' " ' *- 'M>1?=% ;.*D' %% 6 ! ' RX% 21,)*-' *L=/626, 12' .',)6,',)*' =1. ^ , +*' 1-' 2*56, +*' 62.8*-',1',)*' -* ; -*0' ;*., 12' 86.' 0*> 0*0' D ',)*' *_;6/ 1-' $2*_;6/ 2; ?D*-' 1 ' % ' 2' ,)*' .,6 'M4108 2' R >%X% 6-6//*/.' 6-*' 1;20' 6?125' ,)*' >,) 62.' M : *-10 ' +' S '620' >)1/% >620- ' >;c ' % %) I% % -$ - ' 7+d7X' *-. 62.' M ,-6D1' d '=% Q x' ..A - 62.' M ,)*2% ' % ! L ' X') 2*.*' M ,6+1- 2;. .'D .' 29*-,12' L ' NKX' 620' *8' U*6^ /620*-.' M>6//*0' 7 2' (6 /1- .' 7 ' ' =% R X% ()*.*' 9 20.' 1 '0 + 26, 12' 6-*' *L=-*../ ' 1-D 00*2' 2' ,)*' 1-62' 620' 6-*' >6//*0' ' 'M>D% + ' 6/*. ' -*C' ! ' ' =% QRX% : *-101,; .' M+ ' X' 0*.>- D*.',)*' /62' 81?*2' 6.' 56,)*- 25' 620' .*6->) 25' 62L 1;./' 1-' +*-E' . ?11,)' 620' ,-6 5),' 8620.',1' D*' ;5=0' 2',) .' .;=*-.,, 1;.' ?622*-% -'B%)6-0 2' .6 .' ,' .' >1?C' 3' ?12' 2' 20 6' 1-' 0 + 2*-.',1' 6>>1?=62 '>12_;*-1-.' ,1' =1 2,' 1;,' 8)*-*' ,-*6.;-*.' ?6 ' D*' 1;20' 620')*' 600;>*.' 6'>6.*' 6,' ;-6,a' 8)*2' -65' 8*2,',) ,)*-')*' ?60*') .' .11,).6 *-.' ;.*' 0 + 2 25' -10. ' .,-;>9' 12',)*' 5-1;20' 1-' 12' 86//.' *,>% : 6-?*-' M ' KQK' .;==1.*.' 6' -* *-*2>*' ,1' .;>)' 6' =-6>, >*' ?6E!' D*' ?=/ *0' 2' .6% L/+ 'N' M.**' ,%)- .1.,1?' ,% ' *0% *2>0% h' L ' Q QK X% -'B% % 6+ .' I " ' ' X' ?*2, 12.' 6') ^ 2*.*' ' ?10*' 1 '0 + 26, 12' D ' '% ' ' ' 2' .)6=*' ,)*' /125,;0 26/ .*>, 12.' 1 ' 6' /6,, .)' 1+6/% ()*.*' 6-*' ,)-182' D ' =6 -.' 620' 6.' ,)*' ' ,;-2' ;=' 6' A;05?*2,' .' 1-?*0' 1 ' 6' ;,;-*' *+*2,' D ' >12.;/, 25' ,)*' 2,*-=-*,6, 12' 6 1-0*0' D ' 6' D // 2*'+1/;?*') ;25' ;=' 2' ,)*' 2*6-*.',' ,*?=/*%J' 6=,6 2' ;-,12' 2') .' 6 '& ' ?*2, 12.' .1?*' 21,' 0 . . ? /6-'=-6>, >*.' 1 '0 + 26, 12' 21-'6-*',)*.*' ' 11/*-*.' 1 ' 6 ,) J' 6.')*' >6//.',)*?' ;2921822' 6?125' 1;-.*/+*.% +*2' 218' ? 2*-.' 2',)*' .1;,)C8*.,' 1 ' 25/620' 86/9' 8 ,)',)*-' ' +' 2')620'1+*-' .;.=*>,*0' .=1,.' 6' ?1, 12' 1 ' ,) .' 0 + 2 25'-17 .' 2',)*-'+ *8'62' 2 6// D/*' . 52' 1 '6' ! ? /6-' .;=*-., , 12.') 6+*' /6,>/EI7 D**2' =-6>, .*0' 2',) .' >1;2,- ' 2' .*6->) 25' 1-'=*,-1/*; ?% ;01/' 6/>)/ 2')6.' 8-,,*2' 6',-*6, .*' 12',) .' >;- 1;.' .;DA*>,a' ' '5" ' 1 " ' ' - C '+ A" ' '7 !' +' K'M *-2*' X% '5110' 0*6/' 1 ' 2 1-?6, 12' ?6 'D*' 1D,6 2*0' 2' B6>1D' 0 '$!' ' ' ' '>% N' M$51/2 ' -" ' L+ ' KC SX' 620' 2' */- 1 ' ' 4 !' ' / D% +' >% K' _;.*.,% N' .*>,% ' .;D' 2%' .*>,% N' .;D' 2,% ** ' ! 1?=6-*' BV*->*-. ;-7 ?*; 'B;/ ' QS % 2',)*' 5*2*-6/ .;DA*>,' .**' 20-% +*, 'L%%! M 1,*-0% S X' ' K ' 4!' 2',)*' 6-,.' 1 '0 + 26, 12' =-6>, .*0' D ' ,)*' 62> *2,' 4-**9.' 620' 1?62.' .*>' ?,) .' ' ' ' ! & 4! .% +% + 26, 1% ' ,,1' .% % ? ,)' Q% ** # + 2*' M X' 1 ' 1-' D*/125 25',1' 410' MKX' .;=*-);^ ?62' M NX' 6' ? 2.,*-'1-',)*1/15 62' 6.' 12**8)1'*L=/6 2.' ,)*',) 25.' 1 ' 410% + 2*' 5),' M X' 2'=1/,>.',)*' >/6 ?' 1 '.1+*-^ * 52.'Z,1 ;2/ ?,*0' 1D*0 *2>*' 12',)*' 5-1;20',)6,',)*' .1+*-* 52' =18*-' .' 0*- +*0' 0 -*>,/' -1?' 410% MKX' 2' *>>/*. 6.,>6/=1/, ',)*' 0 + 2*- 5),' I* ' 8)6.' D**2' >/6 ?*0' 1-' >*-,6 2' 1-?.' 1 ');->)' 51+*-2?*2,' 620' 1-7 >*-,6 2' >/6..*.' 1 '=*-.12.' 6.' 60?2.,*-.25' ,' *% 5% D.)1=.' 2',)*' 1?62');->)' /125' >/6 ?*0' 0 + 2*' - 5),' ,1' *L*-> .*' 6;,)1-, ' 2',)*' -' 0 1>*.*.' 8)/*',)*' 1=*' >/6 ?.',)6,',)*-' - 5),' .' 21,' 0 -*>,/' 0& A*' D;,' ?*0 6,*/',)-1;5)') ?% () .'>12,-1+*-. ')6.' 2*+*-' D**2' 6;,)1-,6, +*/ '.*,,/*0% ,' 86.'/6-5*/' 0 .>;..*0' 2',)*' 1;2>/ 1 ' (-*2,' M %+%X% MNX' 2',)# -1,*.,62,' >);->)*.' 5*2*-6//A7',)*' >/6 ?' 1 ' 0 + 2*- 5),' 12',)*' =6-,' 1 ',)*' >/*-5 ',1' 51+*-2' .' 5*2*-6// ' 6D62012*0' 620' 8)*-*' ,' .')*/0',)*' - 5),' .' ?6 2,6 2^ *0'36.' 6' '12*' 0*- +*0',)-1;5)',)*' >- =,;-*.' .1' 6-' 6.',)*' 7+*'=- 2> =/*.' 620' /68.' 1-');->)' 51+^ *-2?*2,% '+ #! + 2 , '6',*-?' .1?*, ?*.' ;.*0',1' 0*. 526,*',)*' .> *2>*' 1',)*1/15 % **' O ' #! #' /' ' ! **' ' #'g ? L 'g O #! + . 12.' ' $ ' !' *>' ' ! + . 12' ',)*' -*20*- 25' 1 ',)*' 1//18 25' 81-0.T % " ++ "(' K')-12% LLL+' ' 1-' " (+ "'B1.)' L 'KNT' L ' T' L+ ' T' ')-12% d +' T' LL+ ' K RT' *)% L 'NST' 6' -*5;/6-' =' > " 'M*% 5%,)*' .6>*-01,6/ >1;-..*.J' 1T' .*>, 12.X% K% 111 % "(' K')-12% LLL+' ' 1-')6/0% % (' [-6'+' Q' 6'% 'M/9*8 .*' 6==/*0',1' ,)*' =- *.,/' -629.X' D;,' % "(' B;05% +' S S' 'M - +*-. J' B1D' LL ' X% N% "('/6' ' L10% +' 'KN' M*/.*8)*-*' ' % ' P1!' % % % % ' ' ;9*' L ' K T' A' , - 2' ' 1?% L+' T' ' 1-% 'NT' 46/% +' K T' 6'.=) 'B1)2' + NT' L ' ST' L ' R'M -*2, J <6,,' L ' ST' <6-9' 'K X% ' ' ' ' $.' ' ' ' ' ! % ' - ' ' 1-% ' T' L ' Q' " $'6.'-*20*-*0' ' 1-% L ' K X' % *% =6-, *.' 1-' 6>, 12.' /*60 25',1' 6/,*->6, 12' I % ' >12,*2, 12J' ' 1-% ' X% ()*' *L .,*2>*' 2' ?62 ' 1 ',)*' *6-/ '>);->)*.' 1 '6' .,-2*25',*20*2> ',186-0.',)*' 25-6 , 25' 1 'B;06 .?' ;=12')- ., 62 , ' .' 6' 6>,' 8*//

92182',1' & '-*60*-' 1 ',)*' %'(%† 620',)1;5)',)*');->)' 6,' 1- 2,)' 86.' 1;20*0' D ' 6;/' 620' 6 ,*-^ 86-0.' 2.,-;>,*,*0'D ' =1//1.' *,' ,' .' *L,-*?*/ '=-1D^ 6D/*',)6,'6.' 2',)*' >),->)*./' 1 '46/6,6' .1' 2',)1.*' 1 ' >)6 6',) .',*20*2> ' ?6 ')7+*' D**2' .,-125/ ' ?62 CF *.,*0'620',)6,'6'=6-, '?6 ')6+*' 6- .*2' 2',)*');->)' 6,' 1- 2,)'1==1.*0',1',)*'/ D*-6/ 620' .= - ,;6/ . .,*?' '1' 6;/'620' ?1-*' 2>/ 2*0',1'12** 8)>)'6 ?*0'6,' *,^ ,*- 25')- ., 62 , '8 ,)',)*' -*.,- >, 12.' 620'1;,86-0' - ,;6/1 ',)*' <1.6 >'0 .=*2.6, 12 ()*'60*-.'1 ',) .' =6-, '=-1D6D) 7'>6?*' 8 ,)'/*,,*-.' 1 '>1?7*206, 12' MK 1- ' X',1',)*' 1- 2,) 62');->)'620',' .'=1.. D/*' ,)6,',)* ' ?6 ')6+*')60',)*.*' -1?' *,*-† D;',)6,' ,)*' =6-, ' ,..*/ '-*>* +*0'62 ' >1;2 *262>*' -1?',)6,' 6=1../*.',1',)*'0 .=6-^ 65*?*2,' 1 ' 6;/'620')*2>*' .' .'-*,1-,' MK' 1- L ' X ()*'+*)*?*2,' 1==1. , 12' 1 ',) .' =6-, ' ,1' 6;/'620' ,)*.'=1 2,*0' 6,,6>9';=12') .' >/6 ?.',1',)*' 6=1.,1/>' 1 >*' 81;/0'26,;-6// '/*60',)1.*'8)1')60'D**2' 6;/.' >12+*-,.'620'8)1'=-1D6D/ ' 1-?*0',)*' ?6A1-'=6-,'1' ,)*');->)',1' -6// ' -1;20') .' =-*,*2. 12.' 620',)*' 01>,- 2*.' 1'6'=;-*' 620'.= - ,;6/')- ., 62 , '8) >)'/*' ,6;5),% /1.*/ '6// *0'8 ,)' ,) .' =6-, '620'2'.1?*' -*.=*>,.' 12/ '6'.;D0 + . 12'1',' 86.',)6,'1' =1//1.% ()' 0 ., 25; .)*0',*6>)*-' 86.' 21,' 12/ ',)*' - *20' 1' 6;/'D;,')60' 1//18*0';=' 6;/.',*6>) 25'6,C 1-^ 2,)'2'6'>125*2 6/.= - ,'620',1'6')6-?12 1;.'-*.;/,' MK' 1-% ' '*,>%X% *,8**2',)*'=6-, ',)*-* 1-*'6.^ .;?25') .' 26?*' 620',)6,'-629 25',.*/ ';20*-',)*' 26?*' 1',)*' 6=1../*',)*-*' >1;/0'D** 21' .;D..62,6/ 5-1;20'1 '0 *-*2>*% *-)6=.'6.' =1//1.')60',)*'60^ +62,65*' 1' 6;/ 2' .1?*'-*.=*>,.'*.=*> 6// '2' 6> /^ , '2'=;D/>'.=*69 25'M >,.' L+ 'K †>=2 =% K 1-% d' X',)*'.1/*5-1;20'12 8)>)' .:=6-, '?6 ')6+*' =-* *-*0') ?' 86.',)*') 5)*-'5-6, >6, 12')*'6 1-0*0' D ')' 600-*..*.',1',)*'-'*0;>6,*0',6..*',)62'86.'0*^ - +*0'-1?',)*' .?=/* .,6,*?*2,.'1',)*'6=1.,/*'>12^ >*-2 25' -)- .,' 620')?'>-;> *0%J' ();.'6-'6// ' ,)1;5)'6/?1.,';-/ '>12A*>,;-6/' .'*6. '620'=-1D6^ D/*† D;' 2'-*/6, 12',1',)*' 1;-,)'=6-, ',)6,'8)>)' .6 0' '6?'1')- .,J ',)6.'D**2' 1;20'*L,-*?*/ ' 0 1;$',1'0*,*-? 2*'D '8)6,'=*>;/6-'.*2, ?*2,.',)*' 8*-*' 0 .,25; .)*0% M **',)*' $!' !') !' QS ' %X ()*' .?=/*.') =1,)*. .' .',)6,'1' ;5;.,2*'M 6/' _;'21/*D62,'.*0 ,>6-'.';=*-' *,-;?' .*ZB .;=*-'=*,-6?' \0 >*/?2,h' 51'6;,*?' .;?')- ., J' ' !' ' *-?% NX'8)1?' >))1-2'>6 !' ' X' >)1,,' ID 1, ' '7!'-f=% KNNP' 1,,' M % -!') %% !'+1/% +' =6-,' '=% K X' /**9'M ,&%='% N X'620'1,)*-.' 1//18' + [%',)6,' .'=6-, '86.'>1?=1.*0'1',)*'D*,,*-'.1-.' 2' ,)*');->)'8)1'.,110'2*;,-6/'620'0*>/2 25',1'1//18' 62 '?*-*');?62'/*60*-'0*>/6-*0',)*?.*/+*.',1'D*/125' 12/',1')- .,',)*'>1?712' 1-0'620',)*' *60*-'1' 6//% ().'1=2 12'.'>)*/'D6.*0'12' 1-% 'KK'KN' 8)*-*',' .';==1.*0',)*' 1;-'=6-, *.' 6-*' 6//;0*0',1' 620',)6,'1')- .,'6/12*'>1?7?12' 1-0'620',)*' *60*-'1' 6//% ().'1=2 12'.'>)*/'D6.*0'12' 1-% 'KK'KN' 8)*-*',' .';==1.*0',)*' 1;-'=6-, *.' 6-*' 6//;0*0',1' 620',)6,'1')- .,'6/12*'>1?7?20*0% ;',).7.7(>?.' 2' 1->*0'620' ?=-1D6D/*' 2,*-=-*,6, 12'1',)6,'=6..65*' 1',)*'81-0.' % d1V--11' 620' *'6-*')- ., J' D* 25'?;>)'?1-*' 26,;-6// ';20* .,110'6.'6==/ 25,1' ',)*' 1- 2,) 62.',)62'6.'0*.>- D 25'12/'6'=6-,I1' ,)*'?% () .'1=2 12'?1-*1+*-')6-0/ ',6// *.'8 ,)',)*' /625;65*' 1',)*'6=1../*'>12>*-2 25',)*')- .,C=6-, ' 2' 1-% ' K'620'K 1-% L' '8)*-*')*'*+ 0*2,/' .=*69.'1',)*'?' 2',*-?.'1'>*2.;-*'620'6.'5; /, '1' 0 + 0 25')- .,% 21,)*-') =1,)*. .' .',)6,';55*.,^ *0'D' ,1--'1?7 + '# % ' !' % =' 1' 2') .' ,% !'& ' 'K KX'620'8)>)')6.'D**2' 1//18*0'6?125'1,)*-.'D ' :;5'I1 !'=% K ' 1.0>9.',-62.%X' *-,)1/0,'I6 " !'=% NNK X'620' -6;.*' I1 2' ' !'6%+ ' ? ' *,>' !'=% N X'+[%',)6,',)*')- .,C=6-, '86.'12*'8)>)'=-1 *..^ 25',1' 1//18'B6?*.'620',)*'1,)*-'D-*',)-*'2'1',)*' 1-0 6//' >122*>,*0'8 ,)'*6>)'1,)*-'?6' 6-/' 60?,'1 6.' ,.'D*60.'>/6?*0',1',,*/7 2'>12.*_;*2>*'1',) .'-*/6,12.) =',)*',/*'+'-1+'dA1,1-1;' ' D'86'1'*?2*2>*% (1',.',)6.'D**2'1DA*>,*0' ,)6,')60',)*'=6-,'2'_;*.,12'0*.52*0'D',)*'26?*' ,)*'6..;?*0',1'*L=-*.'.',)*'-*/6,12.)='1',)*-/*60^ *-',1'B*.;.')- .,',)*' 81;/0')6+*' *?=/1A7*0',)*' 81-0.' '-1+' +=,1+' '" ' !'21,'1/' 'O% =' -,N',)*' 1-?*-'D* 25'?1-*' >1--*>,/'0*.>-=,+*'1'6' % '620',)*/6,,*-'1'62' '-*/6,12.)=% *^ .0*.'6.' /.)6;.*2'-*?6-9.' ,)*'=6-, '1 B6?*.';>1;/0' 21,'D*'=-*>.*/'0.,25; .)*0'-1?',)6,'1' *,*-'D1,)' ?;.,')6+*' D**2' >1?=1.*0'1' .,-*2;1;.'B*8C)-.C' ,62.% 2' 2*',)*-*' .'6',1,6/6%.>2*1'1'6//=1., +*' 5-1;20.' 1-',) .7AC=1,)*. .% '(')*'?*-*'26?25'1' ',)*'D-*,)-*2'1',)*' 1-0'1' 2' 1-% L' '620'1,)'B6?*.' 2' 1-% L+' '>62'=-1+*'21,)25'6.',) .' .'21,' 2' >122*>,12'8,)'62' .-> ,;-*.'12',)*')- .,C=6-, ' 1-' 20**0'12'62 '=6-, 'D;','*2, -*/' 2> 0*2,6/† 620' ,)*'*L=-*.. 12'&% ,?'0% ' ' /`9218')- .,'6,*-',)*' /*.)'MK' 1-% +' SX'-* *-.',1'.1?*^ ,) 25'_;,*'0 *-*2,' -1?',)*'6? / C-*/6, 12.'1',)*' 6+ 1;-a' ,' .'0*. 52*0',1'>12,-6.',)*'=;-*/A!!);?62' 6.=*>,'1',) .'*L.,*2>*' 8,)' .'*,*-26/)*6 52/ '*.^ .*2>*J I;" + ' !' // ' ' † >1?=% /-1,)' ' ' " ' " ' ' X% 2' 6=' 6D/*' ,-*6, .*' 8)>)' 6==*6-*0' 2',)*'(;D 25*2' . " ' -" " 1-' QN'M=6-,' +'=% S X' 6;-')6.' .;5^ 5*.,*0',)6,'=-1=*-/' .=*69 25',)*-*' 8*-*' 12/ ' =6-,*.' 2',)*' 1- 2,) 62');->)',)*' 6;/2*'620',)*' *,- 2*† 620',)6,'6.',)6,'1' =1//1.'86.'6.;D0 + . 12' 1',)*' 1-?*-',)6,'1')- .,'86.'6' .;D0 + . 12'1',)*' /6,,*-% () .' .;D0 + . 12')*'.;==1.*.'6-1.*' -1?',)*' 1==1. , 12'1 *-*0'D',)*' *,- 2*'=6-, ',1' 6;/'8)>)' /*0'.1?*' 1',)*?',1'>6// 2'_;*., 12',)*' - 5),'1',)*' 6.=*>,'1',) .'*L.,*2>*' 8 ,)' .'*,*-26/)*6 52/'*.^ .*2>*J I;" + ' !' // ' ' † >1?=% /-1,)' ' ' " ' " ' ' X% 2' 6=' 6D/*' ,-*6, .*' 8)>)' 6==*6-*0' 2',)*' (;D 25*2' . " ' -" " 1-' QN'M=6-,' +'=% S X' 6;-')6.' .;5^ 5*.,*0',)6,'=-1=*-/' .=*69 25',)*-*' 8*-*' 12/ ' =6-,*.' 2',)*' 1- 2,) 62');->)',)*' 6;/2*'620',)*' *,- 2*† 620',)6,'6.',)6,'1' =1//1.'86.'6.;D0 + . 12'

01;D,% >) .?.' 1 ,*2' 6- .*' 2' >);->)*.' -1?' >6; .*.' 8) >)')6+*' / ,,/*' 1-' 21,) 25',1' 01' 8 ,)' 0 +*-. , *.' 1 ' 01>,- 6/' .*2, ?*2', 6?125',)*' ?*?D*-.† 620' ,)6,' . ;>)' 8*-*' ,)*' .>) .?.' 8) >)' 0 .,; -D*0' ,)*'); ->)' 6, 1- 2,)' 6==*6-.' ,1' ;.' =-1D6D/*' -1?',)*' > ->; ?.,62>*' ,)6,',)*' *L .,*2>*' 1 ',)*.*' .' >120*?2*0' D ',)*' 6=1.^ ,/*' 8 ,)1;',' -* *-*2>*' ,1' 62 '01>,- 26/ *--1-.' 1 ;,' 1 ' 8) >)',)*' ? 5),'6- .*' 8) /*'12' ,)*' 1,)*-') 620',)*' 01>,- 26/ *--1-.' >120*?2*0' D ',) ?' 6-*' 0*21;2>*0' 8 ,)1;',-* *-*2>*' ,1',)*' -')6+ 25'/*0',1' =6-, ',.- *.*' ,,1' .' % 1-' ;-,)*-' 62 '01>,- 26/ *--1-.' >120*?2*0' D ',)*' 6=1.^ ,/*' 8 ,)1;',' -* *-*2>*' ,1' 62 '01>,- 26/ *--1-.' 1 ;,' 1 ' 8) >)',)*' ? 5),'6- .*' 8) /*'12',)*' 1,)*-') 620',)*' 01>,- 26/ *--1-.' >120*?2*0' D ',) ?' 6-*' 0*21;2>*0' 8 ,)1;',-* *-*2>*' ,1',)*' -')6+ 25'/*0',1' =6-, ',.- *.*' ,,1' .' % 1-' ;-,)*-' 62 '

2'A1., >6, 12' 1 ' <1.*.' ?6 2,6 2*0',)6,'D*' =*-? ,,*0' 0 +1->*.' 1-'>6; .*.'D*/18'60;/,*- '12/ ' 1-' =-;0*2, 6/' -*6.12.' 1-',)*', ?*'D* 25% 1-' 86.',) ./ ? ,6, 12'D ')- .,';22*>*..6- ' 1-'6,',)6,', ?*' ,'86.'>1?712' 1-' ,)*'B*8 .' ,1'0 ..1/+*',)*' ;2 12' ;=12' +* ' ./ 5),'620' ,- + 6/' =-*,*2>*.'M<6,,'+'N 'NKT' L L ' CRT' <6-9' L' KC KT' ;9*' L+ ' QX% .' 8 +*.' 8*-*' >12. 0*-*0',)*' =-1=*-, '1',)*' -');.D620.',)*' 0'21,'=1..*..'D',)*' <1.6 >'.,6,;,*.'6'-*> =-1>6/-5),'620'8*-*' 21,'6,'/D^ *-, ',1'0 ..1/+*',)*'?6,- ?12 6/ 6// 62>*' D '5 + 25' 6' D // 1 '0 +1->*',1',)6,'* *>,% B1.*=);.'86.'1 '1= 2 12' I& I' d ' X',)6,',)*' /68' 0 0' 21,'=*-? ,' 81?*2',1' 0 +1->*',)*?.*/+*.' -1?',)* -');.D620.% :*'D*/'*+*.' 6/1?*' . .,*-'1 ' : *-10',)*' 4-*6,',1'D*',)*' -.,' 8)1' =;,'686 ')*-');.D620T',)1;5)' : *-10 6.' 6 ,*-86-0.' 0 .? ..*0')*-.' I& I' L+ ' X' 6.' 0 0' 6/.1',)*',)-**' . .,*-.' 1 ',)*' 1;25*-' 5- ==6' 620' 1,)*-.' ,)* -.% ()*' 1//18 25' -*?6-9.' 6->' 2' =6-,' -1?' ? ,)' .'+% **' $ #! !

()*' <1.6 >'/68' -*5;/6, 25',) .' .;DA*>,' .' 1;20' 2' *;,% LL +' C '620A,)>'>6.*.' 2' 8) >)',)*' B*8 .)'01>,1-.'1',)*'=*^ - 10' 1',)*' % (% 8 0*/ '0 *-*0',)*'.>)11/ 1 ')6?C' ?6'.**? 25',1'/ ?,' ,',1'6' ?1-6/ 0*/ 2_;*2> ' 2',)*' 81?62' 8) /*' ,)6,' 1 ' : //*/ *L,*20*0*',' ,1' ,- / 25' >6;.*.' M 1-' *+*-' >6;.* J' <6,,' L L ' NT' 6.' 6?125' ,)*' -;.*.' ;->9)6-0,' - !' 'NKRX' *% 5% ',)*' 8 *' D;-2,',)*' 110'.)*' 86.'>119 25' 1-')*-');.D620' 1-' ?*-*/ '1+*-C.6/,*0',' M< .)26' ? ' L' SX% 6DD' 9 D6)' 6//18.' 0 +1->*' ',)*');.D620' ?*-*/ '.68' 6' 8 *' 8)1.*' 6==*6-62>*' =/*6.*0')?'D*,,*-'M.**' ,)1' '5 "!' =% K'.%X% ()*')6-.**.' 8 .)*0' =*-^)6=.','1'*?D-1 /1;-' 6+1;-'8,)',)*.*'- +6/.>)11/.'D ',)*-';*.,12'M<6,,'L L 'NXT' D ').'62.8*-',1'8)>)' 6.'8*//'6.'D ').'=-*+1;.'?6L ?'M+*-%N X')*'0*>/6-*.' ,)6,'D;,' 1-',)*-')6-0*2*0' .,6,*' 1')*6-,'.;>)'_;*.C% , 12.'81;/0')6+*' 21' =/6>*% *,' -1?',)*' 0 .,2>, 12' ?60*' ;,'.6';2,1' 1;J'M+*-%N NKX',' .**?.',1' 1/^ /18',)6,')*'-*56-0*0'6//,)*'/*..*-'>6;.*.',)62' 1-2 ^ >6, 12J' 6.',620 25' 12',11'8*69'5-1;20'620'0*>/2*0' ,)*'_;*., 12'6.',1',)*' 2,*-=-*,6, 12' 1 ',)*'81-0.' 1 ' <1.*.'M.**' ()1/;>9'$ ' ' " ' =% KK '._%X% & *' ?6 '>12A*>,;-*',)6,',)*' <1.6 >'.,6,;,*')60'-* *-^ *2>*',1'01;D,.'1 ').'D-0* .' + -5 2 , '1-'1 ').'8 * ,' ?10*., '620' 0*/, '12',)*' =6-,'1 ',)*');.D620'6/^ ,)1;5)')*' ? 5),'21,'D*'6D/*',1'D- 25'6'0* 2 ,*')6-5*' 1 '$ >)6.,, % ,' 81;/0'D*' ;2-*6.126D/*',1' .;==1.*' ,)6,'D ' ,1' 8) >)')*' / ? ,*0',)*' -*?*0 1 '0 +1->*' <1.*.'?*62,' 1-2 >6, 12 J' % 60;/,*- ' 1-',)6,' 81;/0')6+*' D**2',1' .,;/, ',)*' /68' ,)6,' .;>)' .)1;/0')*' .,12*0J' MB1)2' + ' T' *+' LL ' X% ()*'=<6>, >6/'0 >;/, ')18*+*-'8) >)'6,,*20.'12',)*' 01;D,' 8) >)' .' ' 1;20' 2' 2,*-=-*, 25' <1.*. ' 81-0.' 8 //)*' /*..*2*0' '8*' >12. 0*-',)6,',)*' ?*-*' 5 + 25' 6' D //J' M1-' -6,)*-' D119 J' 'VN VN V1+' (6/?%66'1-'28 6X' 1'0 +1->*?*2,J'M>1?=% .6% T' B*-% 'QX' 81;/0' 2' 62> *2,' , ?*.' -*_;-*',)*' 2,*-^ +*2, 12'1'6' *+ ,*' 21,'12/ ',1' .*>;-*',)*' 1-?6/>1'C' -*>,2*..' 1 ',)*' 2.,-;?*2,'D;,'D*>6;.*' ,)*' 6-,' 1 ' 8-, 25' 86.',)*2' 5*2*-6// ' ;29218 2% () .' 81;/0' D- 25',)*' ?6,,*-';20*-',)*'>152 [62>*' 1 '/*56/'6;,)1-^ , '620',*20',1' >)*>9',)*' -6.)' *L*-> .*' 1 ',)*' - 5), D ',)*');.D620% (-60, 126/1= 2 12' 620'=-*.>- =, +* =<6>, >*' 81;/0' =-1D6D/ ' L',)*',,6206-0' 1 ',)*' 620' 01;D,/*..' 8 ,)' ,)6L' 5*2*-6/7' ?1-6/, ' 8) >)' ?6-9.',)*' 0*>/ 2*' 1 ',)*' B*8 .)' =1/ , ' ,)6,'.,6206-0' 81;/0'D*' /18*-*0' M<6 % C SX% ');.',)*' 4*?6-% 6D /% ? 'R'M6=' */0*2' ' ' !'D" !' ' X'6//18.' 0 +1->*' 1-' 6' 8 *.' .= 22 25' 2' =;D/>' 1-' 51 25' 1;,' 8 ,)')*60';2>1+*-*0' 1-'>/1,)*.'.1',1-2' 6.' 21,'=-1=*-^ / ',1'>12>*6/)*-'=*-.12' -1?'. 5),% ;',)*' 6D.*2>*' 1'62 '>6.*' 2' =1 2,' 2',)*'=*-10' 8) >)'/6 '2*6-*.',1' ,)*'/685+*-') ?.*/ '1-' 2'62 '.6+*' 6'?;>)'?1-*' -*^ >*2,'12*'?69*.',)*' 8)1/*' _;*., 12' 12*' 1 '5-*6,';2^ >*-,6 2, % ()*' >6.*' 1 ')6/,'620' <>)6/.' 21,' 2' =1 2,'D* 25' ?*-*/ '62' *L6?=/*' 1 '12*' 6-D,-6-'6>,' -*0-*..*0'D '621,)*-'M' 6?%LL+'bb' >1?=%K' 6?% ' SX% */0*2',_;1, 25'I5 ' !' "" !' 'RX'U1)6-' !' =%Q' D' *,>% .=*69.' 1'62' 6//*5*0' >;.,1?' 1',)*' B ;.D620' 8)*2'51 25',1' 86-'5 + 25',)*' 8 *',)*'N = ' :' D;',)*' 6;,)1-, ' .' 1' ./ 5),'+6/;*' 620' ,)*' 6>,' ?=-1D6D/*% ,' .'>12,-6- ',1'6// 92182' -^ *2,6/';.65*',1' .;==1.*',)6,',)*'-5),'1 '_;,, 25',)*'-');.D620'620'>)11. 25'621,)*-' 86.'6//18*0',1' 81?*2' MB1.*=);.'& !' L+ ' X% 6/1?*' .' 21,'0' I !8'6.' ,)*' -.,'*L6?=/*' 1 ', ' 12*' 21' 01;D,' 0*- +*0' -1?' ,)*' 5-18 25'=-*+6/*2>*' 1 ')*6,)*2'/6L, 'M.**' & 6>)C' .?;,)'# 2 !'& " !' 'K QX% :*2>*'6/.1'=-1D^ 6D/ ',)*'>6;,12'5 +*2' 1-%+ ' % ()1.*'6-*'.;-*^ / '? .,69*2'8)1'.;==1.*',)6,'6'?62' ?5),',69*'D6>9' 6'-*?6-- *0'8 *'8)1?')*')60'0 +1->*0'*L>*=',2',)*' >6.*.'8)*2')*-'.*>120');.D620')60'0 *0' 1-')60'0 ^ +1->*0')*-% ;>)'-*.;?=,12' .'>12,*?=/6,*0'D',)*' /685+*-'6.'12/ '=1.. D/*2',)1.*',81'>6.*.'620',)*-*^ 1-*' .' 2',)*'?' 12/ '*L=-*../ ' 1-D 00*2'MB*-% ' X% ()*'0 +1->*.' 1 ' 4*2, /*' 8 +*.' 1-0*-*0'D ' *)*? 6)' 6-'d ' T' L ' RX' -*.,*0' 12' *2, -*/ ' 0 *-*2,' 5-1;20.% 1-',)*' + *8',69*2'6?125'/6,*-'B*8.' 12' ,) .' .;DA*>,' .**'B1.*=)% 2 % +'Q'KNT' L+ ' 'NT' FV/*' S'6'8-,*-'8)1.*'=-6>,>*'.**?.',1')6+*'D**2' 2'6>^ >1-062>*' 8 ,)',)*' + *8.' 1' : //*/% 2',)*'5*2*-6/ .;DA*>,' ;L,1- ' '$% !' '5 !' =%QKCQST' */^ 0*2' 2 !'# ' ' '*_%T' <>)6*/.' ' ' ' 'NNST' 620' 6A[' 2' <*2.>)*2.' 7!'-!' - !'=%S ' ._%'?6 'D*' >12.;/,*0% 1-',)*'4-*9' 620' 1?62' ;.65*.'12',)*'.;DA*>,'.*'7 ?,).'5 ' ' & 4!' .%++% +1-,;?' 710*=.*1.' 9*7 <121^ 5-6=).')6+*'D**2'8-,,*2'12',)*'=6..65*' 2' *;,%D ' & 29/*-'12 ' " 2 ' 'KS'.%X7' 6/.1'12',)*'=6..65*' 2'<6,,'D ' *2*?6'M2')'5 ' D J'B 8 'M =.% NRXT' >) 20/*-' ' ' ' M *52% R XT' :1??*/)1. ;.' ' '* ' MB*2%2*O%X% **' !' A ' . ') ' !' $20*-',)*',*-?' 0 +1->*' 6-*' 2>/;0*0'.*+*-6/'.*=6-6, 12.' 1 ' ?6-- *0' =*-.12.' 8) >)' 6-*'_;.*' ;2/ 9*' 12*' 621,)*-' -.,' ,)*' ?6 ')6+*'D**2'A1 2*0' 2' ;2/68 ;/ 8*0/1>9' 6.' 8)*2' 2*6-'-*/6, 12.) =' 86.' 6' D6-',1',)*_;2 12' 620',)*'/68' 12' 6.>*-,6 2 25',) .' 6>,' 0*>/6-*.',)6,' ,)*' 2*+*-' 8*-*'/*56// '?6-- *0% ;>)' 86.',)*>6.*' 8)*-*' : *2- ' ' 1' 25/620' 86.'.*=6-6,*0' -1?') .' -.,'C8 *' D ' 62' *>>/* 6.,>6/' >1;-,' 620' 86.' =*-^ ? ,,*0',1'?6-- ' :' 1-' 6.' ,' 81;/0' D*' ?1-*' =-1=^ *-',1',6 ' 86.' 0*>/6-*0' 2*+*-',1') 6+*' D**2' ?6-- *0' 6,' 6//% 6.*.' 1 ',) .' 9 20' 6-*' =-1=*-/ ' 21,' 0 +1->*.' D;,' 622;/?*2,.' 1 ' ?6-- 65*' 1-' 0*>/6-6, 12.' 1 ',)*' 2;// , ' 1 ',)*' ?6-- 65*% ()*' 1>>;-' 2' 6// .1>*,*.' 620' 656 2.',)*?',)*' =-*>*=,.' 1 ')- .,' 6-*' 21,' 0 ^ -*>,*0% 2/ ' ,' .' 6' .2' 1 '/*5 ./6, 12' 620' 6' .26-*' ,1' ?*2' ',)*' 1D.,6>/*.',1' ?6-- 65*' 6-*' 6.',)*' '6-*' 2' 6,)1/>'>1;2,-*.' ?60*' ,11' 2;?*-1;.% *>120^ /',)*-*' 6-*' .*=6-6, 12.' 1 '=*-.12.'/68 ;// ' ?6-- *0' 8)>)' 2+1/+*',)*' ?=1.. D/, '

8) >)'-*20*-*0') *-' .1> *,E'0 ..6..* ;/ ,1') ? '620' 86.' 12/ '-* _ ; -*0' D ' ,) *' /6+1',1'5 +*') *-'6' 1-?6/ 21, >*' ,1' 8 ,)0-68' -1?') .')1; .* ()*' 8 *' ,' .',-;*')60' 21' .;>)'/ D*-, '620' *,'/60 *.'1',)*') 5) *-'>/6..*.'6?125' ,) *'B*8 .' 8*-*' D*5 22 25',1'6>,'6.' ',)* ')60 ?125' ,) *' 4-**9.' 620' 1?62. ' D1,)') ; .D620' 620' 8 *')60' 6/?1..' ; 2-*..- >,*0' =18*-' 1 ' 0 +1->*' 2',) * -') 620 .' 21,'12/ ' >1 ;/0',) * ' .*=6-6,*' D ' ? : , ; 6/ 65-**?*2, 'D ; ' * ,) *-' =6-, ' >1 ;/0' /11.*',) *' ?6-- 65*' D120' 8 ,)' / ,,/*' 1-' 21' 1-?6/ ,E ?125' ,) *' 1?62. ' 1- 5 26// ' .'*^ +*-*' 2' 1D.*-+ 25',) *' /68 .' 1 ' 6? / ' ?1-6/ , ' ,) *-*')60' D**2' 6' 5-60 ; 6/ 0*>/*2. 12',)-1 ; 5)' .*+*-6/ >*2, ; ^ - *.' ; 2, / ,) *' 06 .' 1 ')- .. ' ,)6, ' , ?*' ,)*0*?C =*-1-' ; 5 ; ..; .' 6,,*?=,*0' D ' 6' . .,*?' 1 '/68 .' ,1' =; ' 6' .,1=',1' ,) *' 6/6-? 25' 2*5/*>,'1 ' ?6-- 65*' ,1',) *' -**^ 01?' 1 '0 +1->*' 2' >*-,6 2' -*.=*>,. ' 620',1' ,) *' -*_ ;*2^ > ' 1 '60 ;/,*- 1..' 1 ' ?1-*' 1-' /*..' 018*-' 1-' 1D/ ^ 56, 12',1' =6 ' ,' D6>9 ' */ 12',) *' >;/=6D/*' 6 ; ,) 1-' 1 ' ,) *' 0 +1->*' 620' .*+*-*' =*26/, *.' 8*-*' 2 / >,*0' 12' 62' 60 ; /,*-1 ; .' 8 *' 620') *-' =6-6?1 ; - ;' 1?62' ?62^ 2*-.' 8*-*' ,11' >1--;=,' ,1' D*' ?60*' D*,,*-' D ' ,) *' D ' -*/6, 25',1' ,) *.*' =1 2,. ()*) 5)*-' >/6..*.' =-6>, .*0' 0 +1->*' 620' >1?? ,,*0' 60 ;/,*- ' 6/?1..' ' 1' 620' ,) *' /18*-'/ +*0',1' 6' >12. 0*-6D/*' *L,*2,' 2' >12>;D 265* ()*'*+ /-*?6 2*0' ;2>;-*0 ()*' *?^ =*-1-' *=, ? ;' *+*-;. ' 1.' 12' 6.. ;.' .6A7.' M/ D SS' g SX' 8)1')60' ,) *' -*>1-0.' 2') .')620.' 620' 86. >12. ;/ ;20*-',) .' .1+*-* 52' 2., ,;,*0',) -*** ,)1; .620' =-1.*>;, 12.' 1-'60 ;/,*- '6,',) *' D*5 22 25'1 ') .'-* 52' D ;,' ?622*-.' 8*-*' ,11' .,-125' 1-' /68' 620' ,' 6// 8*2,' 1-' 21,) 25 <*628) /*' ,) *' >1?? 620.' 1 ')- .,' 2' -*/6, 12',1' 0 +1->*' 8*-*' 6' ./18/ C81-9 25'/*6+*2',)-182' 2,1') .') ;->)',1' 9**='6,' =;-*' 620 ',)-1 ; 5)',) *') ;->)' 0*.^ , 2*0' ?1-*' 1-' /*..',1' 2 /;*2>*' /*5 ./6, 12' 620',1' 6 0/ ,)1.*' 1,) *-' 2 /;*2>*.' D ' 8) >)',) *' 41.=*/ .1 ; 5),',1' *221D/*' 6? / '/ * ()*.*' =-*>*=,.' 1',) *' <6.,*-'6->' >12,6 2*0' 2' <6,,' + ' N NNT L L ' C ' <6-9' L ' K C K ' 620' ;9*' L ' Q',1' 8) >)',) *',*6>) 25' 1 ' 6 ; / 2' 1- ' C ' .',1 D*' ;2 ,*0' 6.' 62' ?=1-,62,' .;==/*^ ?*2, & *' =-1=1.*',1' 5+7*,) *' .;D.,62>*' 1',) *' 2^ .,-;>, 12.' 2',) * *8' (*.,6?*2,' >12>*-2 25' 0 +1->*' ;20*-' .*+*-6/) *60. ' D ;') 6+*' 21,' .=6>*' ,1' 0* *20' 1 ;-' =1. , 12.' 6.' ;// ' 6.' 8*' >1;/0' 8 .) ' ()*' / D*-, ' 5 +*2',1' 6' ?62' D ' ,) *' <1.6 >' /68',1' =; ' 686 ') .' 8 *' *L>*=,'12',) *' 5-1; 20' 1 ') *-' 1-2 ^ >6, 12' 620' ?6-- *.' 621,) *-' >1?? ,.' 60 ;/,*- 'M<6,, ' L L 'RX' 620') *' 8) 1',) ; .'=; ,.') *-' 686 '/*60.') *-',1' >1?^ ? ,',) *' .6?*' >- ?I*' M<6,, ' + ' NKX N : *' 8) 1' ?6-- *. 6' 81?62',) 6,') 6.' D**2' 0 +1->*0' >1?? ,.' 60 ;/,*- '620' ,) *' 81?62' 8) 1' =; ,.' 686 ') *-') ; .D620' 620' ?6-- *.' 621,) *-' ?62' M<6-9' L ' KX' 2>;-.' ,) *' .6?*' 9 20' 1 ' 5; /, ' 8) >)' .' 6' =-*>*=,' ,) 6,' .**?.',1'/119' D* 120',) *' <1.6 >' >10*' ; 20*-' 8) >)' 21' / D*-, ' 1 ' 2 , 6, 20' 0 ^ +1->*' 86.' >12>*0*0',1' B*8 .) ' 81?*2 ',1',) *' =-6>, >*.' 1 ') *6,) *2' /620. & *' ?6 '1D.*-+*' 2' -*56-0',1',) *.*' =6..65*.' ,) 6,' <6-9' 620' ;9*' 01' 21,' -*>1-0',) *' *L>*=, 12' =-*.*-+*0' 2' <6,,) *8 ' *L>*=,' 25' 1-',) *' >6; .*' 1 ' 1-2 >6, 12 J' D ; ',) *' =/6 2' -*>12> / 6, 12' 1 ' ,) *' =6..65*.' ? ; .,' D*' 1 ; 20' 2',) *' =- 2> =/*',) 6,' 62' *L>*=, 12' 2' 6' ;//*-' 01>; ?*2,' ? ; .,' *L=/6 2' 6' D- * *-' 12*' ,) .' >62' D*' 012*' 8 ,) 1 ; ' 1->* 18 ' 6.' 0 ^ +1->*' 1-',) 6,' 12*' -*6.12' 86.' 602/ ,,*0' " '6// ' <6-9' 620' ;9*' ? 5),' 26, ; -6// ',69*',) .' 1-' 5-62,*0' 8 ,) ^ 1 ; ' *L=-*.. 25',* $ 1' D ' 1-2 >6, 12' .' 2,*20^ *0' 6' .*L ; 6/' >- ?*' . 2>*',) *' D*5 22 25' 1 ',) *' ?6-- 65*' .,6,*7>1 2? ,,*0' D ' * ,) *-' 1 ',) *' =6-, *.' 8 ,) ' 6',) -0' =*-.12 ' *' 60 ;/,*- ' D*5 ; 2' 1-' >1?=/*,*0 20',) *' *L>*>0 25/A' -6-*' >- ?*' 1 '.101? '1-' D*., 6/ , '6.',) *' 5-*6,*-' ?6A7' D*' 6 -/ ' 2>/ ;0*0' 2' ,) *' /*..' 60 ;/,*- ' 56 2 ' " 1',) *' *L>*=, 12' .',) *' .1/*' *L>*=, 12' ,' >6221,' D*' .6 0' 8 ,)' 62 ') 12*., ',) 6,')- .,' 2' .6 25 *L>*=,' ,' D*' 1-' 1-2 >6, 12 J' 5 +*.' 6' .6?=/*' 1 ',) *' >6; .*.' 8) >)' ?6 '0 ..1/+*',) *' ?6-- 65*' ; 2 12' 6.' 12*' 1 ' ?62 ' 8) >)' = ; ,' 62' *20' ,1' ,) *' .,6,*' D*6 ; , ; // ' >6//*0' ' "1' /6 2/ ' D ; ,' 12*' >6 ; .*' 1 '.*=6-6, 12' 8 ,)' -*?6-- 65*' .' 2') .' ,) 1 ; 5),. ' 620' ,) 6,' .' 12*' 2' ,.' 1 ; , 8 6-0' 26, ; -*' 620' 5-1..2*..' 0 ., 2>,' -1?'6// 1,) ^ *-. 1-' 656 2 ' " 1' >62' ,' D*' .6 0' ,) 6, ' ,) *..*' =-*>*=,.' 8*-*' 2,*20*0',1' 51+*-2' 20 + 0 ; 6/ 6>, 12' D ; ' ,) 6, ' 8) *-*' ,) *' /68' 1 ' ,) *' .,6,*' =*-? ,,*0' ,) *' 2^ 0 + 0 ; 6/ ' 6>, 25' ; 20*-' =; D/ >' /68 ' ? 5),' L*-> .*' ,) *' - 5),' 1 ' 0 +1->*' 1-' 1,) *-' -*6.12. 1-' ..', .*, ' 6. 0*' B*8 .)' /68 3 : *' .6 . '/*,' 21,' '=; ,' 6. ; 20*-' ' * ' " ' ' 1' D ; ,' ' ' %% ' '? 1' 8) 1' *. ,6D/ .) *0',) *' =- ?*+6/ /68' 1 ' ?6-- 65* : 1' 5 +*.' 6' -; /*' ,1') .' 1//18*-.' 8) 1' ? ; .' 1//18' ,' 8) *,) *-' ,) *' ,6,*' 6//18 .' /6-5*-' / D*-, ' 1-' 21,)- .^ , 62.' ?6 '/ +*' 2' 6' ,6,*' 8) >)' **/.' 21' 1D/ 56, 12',1' >12 1-?' ,.' /68',1')- . , .' + *8.' 2' ,) .' -*.=*>, ' D ; ,' ,) * ' 8 //' ' ,) * ') 6+*' 2 / ;*2>*' 2*>*. .6- / ' >)625*' /*5 ./6, 12' -*56-0*0' D ' ,) *?' 6.' 2A ; - 25' .1> *, ' / 9*' ,) 6, ' 8) >)' 1=*2.' 6' 7 0*' =6,) ' 1-' 0 +1->* & *' >1?*' 218',1' ,) *' .; ==/*-, *2,6/=-*>*=,.' 1 ' 6 ; / ' 8) 1') 60',1' 5 ; 0*' >) ; ->) *.' 56,) *-*0' 6? 0',) *') *6,) *2 ' 2 *>,*0' D ') *6,) *2 .)' + *8.' 1 ' ?6-- 65*' .1?*' 1 ' 8) 1.*' ?*?D*-. ' D ' ,) * -'>12+*-. 12 ' 8 *-*' D-1 ; 5),' 2,1' ,) *',- 025'>120 , 12' 1 ') 6+ 25') *6,) *2' =6-,2*-. ()* 6=1-,/*' >12,*?=/6,*.' ,81' >6.*.ã ,) *' -,' 8) *-*' D1,) ' =6-,2*-.'6-*' D*/ *+*-.' ,) *' 1,) *-' 8) *-*' 12*' 7 21,' M ' 1- + X 2' ,) *' 1-?*-' >6.*') *' -*=*6,.' ,) *' 1-0 .' -;/*' 656 2..' .*=6-6, 12' 8 ,)' ,) *' 600 , 126/ 2A ; 2>, 12',) 6, ' '6' 81?62' .) 1 ; /0' D*' .*=6-6,*0' -1?') *-') ; .D620' 1.*' ? ; ,.'-*?6 2' ; 2?6-- *0' 1-' D*' -*>12> /*0',1') ? : *-' 1' ,) *2' ,) *' =1.. D / , ' 1' .*=6-6, 12' ' ' + '6/12*' 8 ,) 1 ; ' / D*-, ' 1' -*?6-- 65*' .' >12,*?=/6,*0' 620' ,) .' =6. .65*') 60' 6' =6.-,6*- 2 /;*2>*' 12' *>>/*.

1?62'/68'60)*-*0'1 ',)*' 8)1/*',1' ,.' 6,6/ 6> /^ , '1'5-62, 25'0+1->*.' 1-'+*-E'./ 5),'-*6.12.' .1'/125' 6.',)*' & *.,*-2' *?= -*' /6.,*0I' 620'*+*2',)*' 6.,*-2' *?= -*'6 ,*-' ,'D*>6?*')- ., 62'0 0'21,'?1+*' 8)1// ' 2' 6' 2*8' ,-6>9% <*628)/*' 1= 2 12' 8 ,) 2' ,)*' Z7);->)'620'*>>/*. 6., >6/68',119'62'1==1. ,*'>1;-.*% 8 25' a' ,)*' 2,*-=-*,6, 12.' 1' >- =,;-*' ?*2, 12*0' 6D1+*',1' 2*8'+*8.' 1',)*' .62>, ,'1'?6-- 65*'620' 36,'/*25,)',1',)*' 0*+*/1=*0' 01>,- 2*' 1',)*' .6>-6?*2,' 1'?6-- 65*'0 +1->*' 8 ,)' -*?6-- 65*' 86.' *L>/;0*0' -1?')- ., 62' =-6>, >*' 8 ,)',)*' . 25/*' +*- ' -6-*' *L^ >*=, 12' 1',)*' >6.*' 8)*-*' 62' * '1-'6'B*8')60'0*^ .*-,*0'6' :' 620' .*=6-6, 12' ' - ' ' " ' -*^ ?6 2*0'6.',)*' 12/ '9 20'1'0 +1->*' =*-? .. D/*% ()*' /68'1 '6//)- ., 62' ..6,*.' 2',)*' & *.',;2, /',)*' * 1-^ ?6, 12'620'1' 1?62' 6,)1/ >' .,6,*.' . 2>*')6.' D**2' .)6=*0'D ' >6212' /68' 8)>)' 9218 ' 21'0 +1->*' 8',)' -*?6-- 65*' *+*2' 1-',)*' >6;.*' 1'60;/,*- ,*-',)*' * 1-?6, 12'8)*2',)*' -1,*.,62,.')60'6D62012*0',)*' 01>,- 2*' 1',)*' .6>-6?*2,6/ >)6-6>, *-'1'?6-- 65*'620' ,)*' -1,*.,62,' 2,*-=-*,*-.' 5*2*-6// ')*/0',)6,' ?6/ ^ >1;.'0*.*-, 12'6>>1-0 25',1',)*'6=1.,/*' 6;/' -*/*6.*0' ,)*' 221>*2,'=6-, ' -1?',)*' ?6-- 65*'D120'6/,15*,)*-' ?62 '*>>/*. 6., >6/1-0 262>*.' 2' -1,*.,62,'4*-?62 ' =*-? ,,*0'0 +1->*' 8 ,)' -*?6-- 65*' 12' ,) .' 6>>1;2,'6.' 8*// 6.' 2' >6.*.' 1'60;/,*- 7' ( );.',)*' 4*2*+6' 1-' ' 2 4 (1'1' '0*>/6-*',)6,' '62' 12*'?69*,)'6'D;. 2*..'1'6D62012 25') .' 8 *',1'.,-1/' ,)-1;5)',)*' >1;2,- '620'>12, 2;>,)';26?*20*0' ,'D*' =-1+ 0*0',)6,',)*' 8 *' D*' 21' /125*-' D1;20',1' .;>)' 6' ?62'8)1' 8 // 9**=' 2* ,)*-' 6 ,)' 8 ,)')*-' 21-'>1?*=6^ 2 %J' 20' 2',)*'1-0 262>*'1' -6;2.>)8*5C4-;D*2C')65*2' 1-' Q ' ,' .' .6 0',)6,'0 +1->*' .)6// D*' 5-62,*0' 12/A!' 1-',)*',81' -*6.12.' 8)>)')- .,'620' 6;/' 2',)*' 41.=*/0>/6-*' 'D1'.; > *2,'1'8)>)',)*' .*>120' .' ?6/>1;.' 0*.*-, 12' -;22 25' 6P+6 ' 620' 6D62012^ ?*2,'8)*-*1',% 6;/.=*69*,)' ' 1-%+)J' , // 62^ 1,)*-' 1-0 262>*',)6,'1' 18*-' 6L12 ' 1' SQ ' .6 .' ,)6,' 8)6,*+*-'1,)*-'5-1;20.'D*. 0*.',)*.*',81'M60;/^ ,*-' 620'0*.*-, 12X' 6-*' 6//*5*0'D ' >*-,6 2' *?=*-1-.' 6.' ()*101. ;.' 6/*2, 2 62' *1'B;., 2 62' >6221,'D*' .; > *2,' 0-' 0 +1->*%J' 1?*' *8*' ,' .',-;*' 1',)*' *6-/ *-');->)' -*5;/6, 12.' / ? ,' 0 +1->*' 6.' *.' 1' 60;/,*- 'D;,'6' *8'1,)*-.'*L,*20' ,.' 1=*-6, 12'D* 120' ,)*' ,8 1' 5-1;20.' 6/-*60 ' ?*2, 12*0% ()*' -;.. 62' >12. .,1- 6/ 1-0 262>*' 1' 7Q '=*-? ,.' ,' 2' >6.*.' 1' =/1,, 25',1',69*',)*' / *' 1'6'>12.1-,% 'U;- >)' 1-0 ^ 262>*' 1' K '51>.' ;-,)*-'., // ' .1' ?;>)' .1' 6.',1'0*^ .*-,' ,)*' =- 2> =/*.' 1' >- =,;-*' *2, -*/ % 1,' 12/ ' 01*.' ',' 6//18' 0 +1->*' 2' >6.*.' 1' 60;/,*- '0*.*-, 12' 620'6,,*?=,'12'/ *') ;' >12. 0*-.',)*.*' 6.' *L6?=/*. ' 620'/*6+*.' ,',1',)*'A;05*',1'0*>0*'8)6,'1,)*-'5-1;20.')*' 8 // 600',1',)*?' 6?125' 8)>)' , ?*2, 12.'6.'=1.^ . D/*' >6.*.' 21,'12/ '>-;*/, 'D;,' 2.62 , '620'*-;=, +*' 0 .*6.*' 6.'/*=-1. 1-',)*' ?1.';=6-,'12/ '60;/,*- '620'0*.*-, 12' 8*-*',)-1;5)',)*' ,)'620' 2,1',)*' Q,)' >*2,;- ')*/0',1'D*' +6/ 0' 5-1;20.' 1-'0 +1->*% ;,' 2' ?1-*'-*>*2',, ?*.',)*'> + / /68' 1 '.1?*' 4*-?62I.,6,*.' 51*.' 6-' D* 120',)*.*' / ? ,.' & *' >12 2* 1;-.*/*+.' ,1',)*' -;.. 62' >10*' 8)*-*' =/1,, 25' 656 2.',)*/*' *L6?=/*. ' 620'/*6+*.' ,',1',)*'A;05*',1'0*>0*'

/ *, ?*' 1 '6' 1-?*-') ; .D620' 1-' 8 *' 6' */12 ' *,' 8 ,)' ,) *' =-1+ . 12' ,) 6,' ,)*' 6>,' .)1 ; /0' 21,' *L,*20',1' =*-.12.' 0 +1->*0' 1-' ,1' D*' 0 +1->*0' D ' .*2,*2>*' 1 '62' *>>/*. 6. l' , >6/ >1 ; -,% ()*' ?6,,*-' 86.' . , // 6,' /11.*' *20. ' D ; ,' .*+*-6/ >6212.' 8*-*' =6. .*0' 2' ,) *' .6?*' *6-' 8 ,)' ,) *' 2,*2, 12' 1 ' = ; ,, 25' 6' .,1=' ,1' ,) *' =-6>, >*' D ' 12*' 1 ' 8) >)' ,' 86.'1-06 2*0' ,) 6,' 6' .*2,*2>*' 1 '0 +1->*' .)1 ; /0' 21,' D*' =-121 ; 2>*0' ; 2, /' ,) *' =6-, *.' .)1 ; /0') 6+*' 5 +*2' .; > *2,' .*>; - , ' ,1' ,) *' >1 ; -,' ,) 6,' ,) * ' 81 ; /0' 21, ' *6>)' 0 ; - 25' ,) *' 1,) *- .' / *' >12,-6>,' ?6,- ?12 ' 8 ,)' 62 '1,) *-' =*-.12% () .' >6212' 86. 8 1/6,*0' 2' 6' ?1.', .>6206/1 ; .' 86 ' 2' S .'112' 6 ,*-' ,.' *26>,?*2, '8) *2' /60 ' >) ' 6 ,*-' D* 25' 0 +1->*0' -1?') *-') ; .D620' 12' ,) *' 5-1 ; 20' 1 ') *-' 60 ; /,*- ' 86.' ?6-- *0' ,1') *-' =6-6^ ?1 ; -' D6-12' <1 ; 2,%1 ' 6 ,*-86-0.' 0 ; 9*' 1 ' *+12^ .) -*' D ') .' >)6=/6 2' 6 ; 0' 8) 1' 6 ,*-86-0.' =-1 *..*0' ,1' -*=*2,' 1 ' ,% -1?' ,) *' , ?*' 1 'B6?*. ' 620' 20**0' . 2>*' ,) *' * 1-?6, 12' 12/ '6' .=*> 6/ 6>,' 1 ' 6-/ 6?*2,' >1 ; /0' 6 ; ,) 1- [*' 0 +1->*' ' ; 2, /' ,) *' =6..65*' 1' 6' 2*8' 5*2*-6/ 6>,' 2' Q % ' ,) .' 6>,' 6' 2*8' >1 ; -,' .' *.,6D/ .) *0') 6+ 25' *L>/ ; . +*' A ; - .0 >, 12' 2' >6.*.' 1 ' ?6-- 65*' 8 ,)' ,) *' =18*-' 1 ' ...; 25' .*2,*2>*.' 1 ' % 9 ' *_ ; +6/*2,' ,1' 0 +1->*' ' ' ' " ' 8) >)' ?6 'D*' 1D,6 2*0' * ,) *-' D ' ,) *') ; .D620' 1-' ,) *' 8 *' 12' ,) *' 5-1 ; 20' 1 '60 ; /,*-A 7 1-' >-; */, ' 1-' 0*.*-, 12' 8 ,)^ 1 ; ,' >6 ; .*' 1-' ,81' *6-.' 620' ; =86-0.' 620' 8 ,)' ,) *' =18*-' 1 ' ' 2' >6.*.' 1 '60 ; /,*- ' >;' ,) *' ,) *' ,81' =6-, *.' 6-*' 21,' *L6>,/ '12' 6' /*+*/ 8 ,)' -*.=*>', ,1' ,) * -' >- ?*% 2' ,) *' 8 *.' =6-, ' . ?=/*' 60 ; /,*- ' A>62')6+*' ,) .' * *>, ' 1-' ,) *') ; .D620 .' ' 2>*.,; 1 ; .' 60 ; /,*- 'D 56?' 8 ,)' 60 ; /,*- ' -6=*' .101?X ' 1-' D*.^ , 6/ , ' 1-' 60 ; /,*- '>1 ; =/*0' 8 ,)' . ; >)' >-; */, ' 6. ' 8 ,)^ 1 ; ,' 60 ; /,*-+ ' 81 ; /0')6+*' *2, ,/*0') *-' ,1' 6' 0 +1->*' ' ' ' " 1' 1-' 60 ; /,*- ' >1 ; =/*0' 8 ,)' 0*.*-, 12' 1-' ,81' *6-.' 620' ; =86-0.%J' 2' ,) *' >6.*' 1 '.*=6-6, 12' ,) *' >1 ; -,' >6 7'-*.,1-*' ,) *' =6-, *.' 12' ,) *' -' >12.*2,' 620' =*, , 12' ,1' ,) *' *L*-> .*' _ '%>12A ; 56/ - 5),.%' 2' ,) *' >6.*' 1 '0 ..1/ ; , 12' 6 ,*-' 26/ 0*> . 12' 12' 6==*6/ ,1' ,) *' : 1 ; .*' 1 ' 1-0.' ' .; >)' 6==*6/ .) 1 ; /0' D*' ?60*' ,) *' =6-, *.' 6-*' 6//18*0' ,1' ?6-- '656 2' D1,) ' ,) *' 221^ >*2, '620' ,) *' 5 ; /, ' =6-, ' ,) *' /6,,*-' .1' 6-'6.' 6==*6-.' ,1' ,) *' =6-, 2*-' 2' >- ?*' 6' =-1+ . 12' 2' 1 ; -A ; 05?*2, ' ? ; >)' ,1' D*' >120*?2*0% 1-' .') *-*' 62' > + / =*2^ 6/, ' 1-' 60 ; /,*- % ()*' 221>*2, ') ; .D 20' ?6 '6.' D*^ 1-*' ,) .' 6>,' 5*,'06?65*.' -1?' ,) *' 1 *20*-.' D ; ,' ,) *' 1-?*-' 6>, 12' 1-' >- ? 26/ >12+*-.6, 12' .' ,1' >*6.*% >' 1-D*6-',1' 51' ; -,) *-' 2,1' ,) *' 6>, '12/ '600 25' ,) 6,' >1// ; . 12' >120126, 12' 1 '60 ; /,*- '60 ; /,*- '>-; */, ' 1-' 0*.*-, 12' 12' ,) *' =6-,' 1 ' ,) *' =*, , 12 25' =6-, '620' ; 2^ -*6.126D/*' 0*/6 ' 2' =-*.*2, 25' ,) *' =*, , 12' 1-' 0 ..1/ ; ^ , 12' 1 ' ?6-- 65*' -*** ,) *0>1 ; -,' -1?' ,) *%1D/ 56, 12' ,1' =-121 ; 2>*' 6' 0*>-**' 1 '0 ..1/ ; , 12% 2' ,) *' $2 ,*0' ,6,*. ' ,) *' 0 +1->*' /68 . ' 2' 0 *-*2,' .,6,*. ' -' ; 2' 6/125' -1? ,) *' ,-' >,2*..' 1 ' 25/ .) ' /68' 6/^ ?1.' ,1' ,) *' /11.*2*..' 1 ' ,) 6,' 1 ' 1?*' 620' -*+1/ ; , 6as' -62>*%' ()*' ,*20*2> ' .' ,186-0.' 2>-*6.*0' /11.*2*.. ' 6.' .' .) 182' D ' ,) *' -*+ .*0' /68 .' 1 ' ,) *' 1/0*-' .,6,*. ' 620' ,) *' /68 .' 1 ' .1?*' 1 ' ,) *' 2*8' .,6,*.% '/11.*-' /*5 ./6^ , 12' 122**>, >; ,' 620' 20 626' ;-2 .) ' *L6?=/*.% & *' >12 2*' 1 ; -.*/+*.' ,1' ,) *' /*5 ./6, 12' 1 ' ,) *' 1-?*-' .,6,*.% ()*' >1/12 6/ /68 .' 6//18*0' ,) *' >1 ; -,' ,1' 5-62, ' 0 +1->*' 1-' 60 ; /,*- ' -6 ; 0 ; /*2, ' >12,-6>, ' 8 / ; / 0*.*-, 12' 1-' ,) -*' *6-.' 1-' .*+*2' *6-.' =-1+ 0*2, 6/ 6D.*2>*' 8 ,)^ 1 ; ,' D* 25') *6-0' 1 '6 ,*-' 0 ; *' 2_ ; - ' ?60*' 620' >*-, ^ *0' 620' 2' 6//,) *.*' >6.*.' ,) *' 655- *+*0' =6-, ' ? 5),' ?6-- '656 2% () .' /*5 ./6, 12' -*?6 2*0' 6/?1.,' ; 2^ >)625*0' 1-' 2*6-/ ' ,81') ; 20-*0' *6-.' *,' 21,' 8 ,) 1 ; ,' .,-125'-*?12.,-62>*.' 12',) *' =_-'1 '.1?*' S ',) *' >/*-5A ' 8) 1' >1?=/6 2*0' ?1-*' *.=*> 6// ' 1 ',) *' /11.*' 60?2 .^ ,-6, 12' 1 ' ,) *' /68' D ' ,) *' >1 ; -,.% 2' Q N ,81' 2*8' >6 ; .*.' 1 '0 +1->*' 8*-*' 600*0' ,1' ,) *' 1/0' 26?*/ ') 6^ D ,; 6/ 2,*?=*-62>*J' 620' ' 2,1/*-6D/*' >-; */, 6 2 0' +*' 1-' . L' *6-.' 6 ,*-86-0.' ,) *' /*5 ./6, 12' 12' ,) .' , ; D^ A*>,' -*6>) *0' ,.' >/ ?6L' D ' ,) *' ; -,) *-' 600 , 12' ,1' ,) *' >6 ; .*.' 1' 0 +1->*' 1 ' ?=-.12?*2,' 1-' / * J' 2 6^ ?1 ; .' >-?*J' 620' 62 ' .; >)' ? .>120 ; >,' 6.' =*-?6^ 2*2,/ ' 0*.,-1 .' ,) 1') 6== 2*..' 1 ' ,) *' =*, , 12*-' 620 0* *6,.' ,) *' =; -=1.*.' 1 ' ,) *' ?6-- 65*' -*/6, 1 % I 18' -.,' 6' +65 ; *' .; D A*>, +*' 20*,*-? 26,*' >6 ; .*.' 86.' 600*0' ,1' ,) *' 0*,*-? 26,*' >6 ; .*.' 1 ' 1-?*-' /*5 ./6, 12' 620' ,) *' /11.*2*..' 2') *6- 25' 620' 0*,*-? 2 25' >6.*.' 1 '0P +1->*' .' .1' 5-*6,' ,) 6,' ,) *' 81-.,' /*5 ./6, 12' 1 ' ,) *' -*2>)' *+1/ ; , 12' >1 ; /0' 21,' D*' ? ; >)' ?1-*' 1==1.*0' ,1' ,) *' ,-' *' 2,*-*.,.%1 ' .1> *, % ()*' /68' 9218.' 21' .*=6-6, 12' ' ' + 1' 6//18.' ??*0 6,*' -*?6-^ - 65*' 01*.' 21,' 1-D 0' 62' 60 ; /,*-*-' 1-' 60 ; /,*-*..' ,1' D*' ; 2 ,*0' 6 ,*-' 0 +1->*' ,1' 6' =6-,2*-' 2' 5 ; /, ' 21-' 0 +1->*0' =*-.12.' ,1' D*' -*?6-- *0' ,1' 12*' 621,) *-1% +1->*.') 6+*' 6.' ? 5),' D*' *L=*>,*0' 5-*6,/ ' 2>-*6.*0' 8 ,)' ,) *' 2*8' /*5 ./6, 12' *.=*> 6// ' . 2>*' ,) *' >/6 ; .*' 6.' ,' .' >6//*0' &6.' 622*L*0' ,1' ,) *' /68% 2' 12*' *6-' 6>>1-0 25',1' 6' -*>*2,'-*=1=/*' 0 +1->*.' 6-*' 6/?1.,' ; 2921820' ,' ?6 ' 8*' ,) 29' D*' .6 */ ' .6 0' ,) 6,' 12*' _ ; 6-,*-' 1-' 12*' ,) ' 1 ' ,) *' ?6-- 65*.' 1 ' *6>)' *6-' 2' ,) *' /18*-' .,-6, ; ?' 1 ' -1,*.,62, '.1> *, ' '8*' ?6 '.1' >6// ' 6-*' 0 ..1/+*0' D ' 6>,' 1 ' ,) *' >1 ; -,.% & ,) 1 ; ,' _ ; *., 12' ,) *' 6? / ' / *' 620%?1-6/.' 1 ' 6' >1?? ; 2 , ' 12>*' ?1.,' -*/ 5 1 ; . ' 620' *+*2' 218' -*,6 2 25' ? ; >)' 1 ' .,*60 ') 6D , ' ? ; .,' D*' 5-60 ; 6// ' ; 20*-? 2*0' 620' =1 ^ .12*0' D ' .; >)' 6' .1> 6/ *+ / M.*>' : % 11? . ' +1->*' *5 ./6, 12' 2' 122*>, >; , J' 7 ' 6 1' B ; / QSSX%

; -' / ? ,.' =-*>/ ; 0*' 2.' -1?' 600 25' ?1-*' ,) 62' 6' 81-0' 1-' ,8 1' 2' -*56-0' ,1' ,) *' 5) ,' /*5 ./6, 12' 12' ,) .' .; D A*>, ' 620' ,) *' 0 ; , ' 1 ' ,) *') ; ->)' 8) *2' >6.*.' %P' 0 ^ +1->*' >1?*' D* 1-*' ,) 1.*' ,1' 8) 1?' ,.' 0 .> =/ 2*' .' 2^ ,-' .,*0% ' ')-., 62' /*5 ./6, 1-' 8 // .,-+*' ,1' -*6/^ [*' 2' /68' 8) 6,') *' >12>*+*.' ,1' D*' ,) *' ,-' *' >12>*=, 12' 1' ?6-- 65*' 620' ,) *' /68' 1')-.' 2' ,) *' 41.=*/% 2/ ' 12' ,) .' .; D A*>,' 01*.')-.' /*5 ./6, *') *-*' D1' .*,.' 6. 0*' ,) *' /68' 1' <1.*.' 620' ,) .') *' 0=*.' 2' -*56-0' ,1' 62' 2.., ; , 12' 1 '/ *' >12>*-2 25' 8) >)' ,) *' /68' ?; .' .=*69% ' ,) *')-., 62' /*5 ./6, 1-' 01*.' 21,' >6-- ' 1 ; ,')-., .' =-2> =/*.' 2' -*56-0' ,1' 0 +1->*' ' 8 // D*' 21,' D*>6 ; .*' ,) *' 6-*' ?1-6/ -6,) *-' ,) 62' A ; -6/ ' D ; ,' D*>6 ; .*' ,) *') 6-02*.' 1 ' ?*2 .') *6-, .' J' =-*+*2, .' ,) *' 2,-10>^ , 12' 1 '6' =*- *>, ' -; /*% : *' 8 // >12.*2, ' 8 ,)' 6' %5110' >12.> *2>*' ,1' 6' /*..' =*- *>, ' /68' 1-' ,) *' /68' 1 '0 +1->*' % 1' 620' 01*.' 21,' -*_ ;) *' .1' ,) 6,' ,' 2**0' D- 25' 21')-., 62' ?62' 2,1' 0 .1D*0 *2>*' ,1' ,/ *' 41.=*/% K% ?125' ,) *' 1 ; ,/ 2*.' 1 ' 5110' /*5 ./6, 12' 2' -*56-0' ,1' 0 +1->*' 8*' .; 55*.' ,) *' 1//18 25d ,) *' -*>152 , 12' 1 ' ,) *' ,81' 9 20.' 1 '0 +1->*' ?*-*' .*=6-6, 12' 620' ,) 6,' ' 1' 8 ,)' ,) *' -*.*-+6, 12' 1 ' ,) *' /6,,*-' 1-' 5-6+*-' >- ?*.' 1 '12*' =6-, '656 2.' ,) *' 1,) *-' 1 =; 2 .) ?*2,' 1 ' ,) *' 1 *20 25' =6-, ' D ' ?=-.12?*2,' 1-' 0*=- +6, 12' 1 ,/ ?12X ' 1-' D1,) ' =-1) D , 12' 1 ' .=**0 ' ?6-- 65*' 8) *2' , ' .' 6//18*0' 1 '6// ?6-- 65*' D*,8 **2' 12*' 1 ' ,) *' =6-, *.' 620' 6' =6-,2*-' 2' 5 ; /, ' 1 '6// -*?6-- 65*' 6 ,*-' ; // 0 +1->*' 12' ,) *' 5-1 ; 20' 1 '60 ; /,*-A 7 6' >6-*' ; /' 0*C / D*-67' =-1>*.. ' =*-)6=.' D* 1-*' 6' .=*> 6/ >1 ; -,' /*6+^ 25' -11?' 1-' -*>12> / 6, 12' =-*+*2, 25' >1// ; . 12' 6.' 6-' 6.' =1.. D/*' 620' ?69 25' ,'21' ./ 5),' ?6, ,*-' ,1' 0 ..1/+*' ,) *' -*/6, 12% N% &) *2' ,) *' ..6,*' /68' .' 21,' 6>>1-062,' 8 ,)' ,) *' /68' 1')-.,' 6.' >1?? 12/ ' -*>* +*0' 2' ,) 1') ; ->)*. ' 8) 6,' .' ,) *' -*' 0 ; , H' 2*' ,) 25' .' >/*6-' ,) 6, 6' >/*-5A 262' 1 ; 5), ' 21,' ,1' D*' >1?=*//*0' ,1' ; 2 ,*' 2' ?6-- 65*' ,1' 6' 2*8' 8 *' 1-') ; .D620' 6' =*-.12' 8) 1?') *' >12. 0*-.' ,1' D*' ; 2/68 ; // ' 0 +1->*0% ()*' 25^ / .)' /68' *L=-*../ '-*/ *+*.' ,) *' ? 2 .,*-.' 1 ' ,) *' ..6D^ / .) *0') ; ->)' -1?' ,) .' 2*>*.. , 1' ,) *' -; .. 62' '8*' 6-*' 21,' ? . 2 1-?*0' .') 6-.) ' 620' 2,1/*-62,' 2' ,) .' -*.=*>, 1' ,) *' -*2>)' /68' -*_ ; -*.' 6' > + / ?6-- 65*' 620' /*6+*.' ,' ,1' ,) *' >12.> *2>*.' 1 ' =6-, *.' 620' 1 '>/*-C 5E1?*2 ,1' 51' ,) -1 ; 5)' 8 ,)' ,) *' -*/ 5 1 ; .' >*-*?12 *.' 1-' 21,' 6.' ,) *' .-*' ,% 2' ,) *' 1,) *-') 620' 21' >/*-5 ?62' >62' 8 ,)' 6' 5110' >12.> *2>*' A1 2' 2' ?6-- 65*' ,) 1.*' 8) 1?') -. ,' /68' 6>>1-0 25' ,1') .' 2,*-=-*,6, 12' 1 ' , ' 9**=.' 6=6-, ' 6.' 1-' 2..62>*' 6' 81?62' .' *=6-6,*0' -1?' B *-') ; .D620' 1-' 211?=6, D / , ' 1 ' ,*?=*-' 620

621,)*-' ?62% ( )* ' 6-*' 21,' ,)1.*' 8)1?' 410')6.' A1 2*0' ,15*,)*-' 620' ,)*' 81?62' ?62')6.' ; 2/68 ;// ' =6-,*0' -1?')*-') ; .D620' .1' ,)6,' .)*' >1? ? ,.' 60 ;/C' ,* ' 2')*-'2*8' ?6-- 65*% 56 2' ,)*-*'6-*' _ ;*., 12.' 1 '0 .> =/ 2*' 5-18 25'1 ;',1 '0 +1->*. '6.' 8)*2' 6' ?*?^ D*-' 1 ',)*') ;->)' >12,-6>,.' 6' ?6-- 65*' 21,' 1-D 00*2' DE7 .,6,*' /68 ' D ;,' 1-D 00*2' D ' A - .,% : *-*' ,)*' -;/*' .' ,1/*-6D/ ' >/*6-%)- ., .'/68' ? ; .,' D*' ?6 2,6 2*0' 8)6,*+*-',)*' .,6,*' -*_ ; -*.' 1-' 6//18 . ' 620' ?6 2,6 2*0' 2' ,) .' >6.*' D '0 .> =/ 2*% 2/ ' ,) ; .' >62' ,)*') ;->)' *' 6' 8 ,2*. ' 12' ,)*' . 0*' 1 ')- . , 62' ?1-6/ , % 2/ ' ,) ; .' >62' ,'5 ; 6-0' ,)*' .62>, , *.' 1 ' 6? / ' / *% ( ) *-*' .' =' ?1-*' -*6.12' 1-' 1? ,, 25'0 .> =/ 2*' 1-' ;2/68 ;/ 0 +1->*' 2' >12,-6>, 25' ?6-- 65*' D*>1?*.' 6' . 2>*-*')- ., 62' *6-.' 6 ,*-86-0. ' 620' 0*. -*.' ,1' ;2 ,*' 8 ,)' ,)*') ;->)%)6// .;>)' 6'=*-.12' D*' -*_ ; -*0',1' .*=6^ -6,*' -1?') .' 1-')*-' >12.1-,' D* 1-*' D* 25=-*>* +*0' 2,1' >1? ;2 12'H ( )*' 6>,' 81;/0' 21,')6+*' D***2' >1? ? ,^ ,*0' 8 ,)',)*' =-*. *2,' 0 .=1. , 12' 620' .,6,*' /68' ,*?=,*0' ,1' ,.' =*- 1-?6)**% & *' ,) 29',)6,' 2' .;>)' 6' >6.*' 6.' ,) . ' 6,' /*6.,' 2' *L,-*?*' >6.*.' 1 ',) .' 9 20',)*' >1?^ ? ;2 12' ?6 ' D*' 1=*2*0',1' 6' =*2 ,*2,' 8 ,)1 ;,' >120 ^ , 12.%

[6)6D'M : *D%' 1. " "(1' /,' \.*>'D*/18hX' 6' =/6>*' 2' ,)*' 0*.*-,' 1 ' 26 ' 12*' 1 ',)*' D1 ;206- ' =1 2,.' 1 ',)*' -6D6) J'1-'-*5 12' 8)*-*',)*' .-6*/ ,*.' 8620*-*0' M *2,' ' X% ,' .' =-1D6D/ ' ,)*' .6?*' >6=*' 218' >6//*0' ' " "' M 1D 2.12' 5 ' 'K T' 'S X' 12' ,)*' 8*.,*-2' .)1-*' 1 ',)*' /62 , >' 4 ;/ 'M >)86-[' 6C' f=%K KX' 6D1 ;',1==1. ,*' 26 T ',6D1 ;20.' 2' =6/?.' 620')6.' ,-6>*.' 1 '-; 2.' M ;->9)6-0, ' $ ' =% KNX% & /.12')18*+*-' 01 ;D,.' ,)*' 0*2, >6, 12' I ' ' ; ' 'KN '2%X% **' " ! ()*' 26?*' .' 2^ 0 >6, +*' 1 ',)*' =-*.*2>*' 1 ' ',)*-*' 6.' ,)6,' .',)*' ?*62 25' 1 ',)*' /6,,*-')6/ '1 ',)*' 81-0' M.1' *=,% 6-6C' d=+ >' ;/5% " ' ' '% - 8' D ;',)*' 1-?*-' =6-,'1 ',)*' 26?*' .' 1-* 52' * ,)*-' 8 ,)',)*' -6?6*62' * L=/*, + * M/ ,* -6// ' ,)6,' " " .JX' 1-' -1?',)*' -6D >bDHN ' /1-0 J' % *% =1..*..1-' 1 ' M4*.*2 ; .' -" '=%NN X% & ,)',) .' ?=1-,'6/.1' 65-**.',)*' 0*^ .>- =, 12'1 ' ; .*D ; .'620',7*-1?*I , ! .%+% 6-6' -0' 6,6'0 ') .*6X',)6,',)*' ?1 ;2,6 2.' 2 ,)6,'-*5 12' M 2' " '6>>1-0 25',1',)*' ,-;*' -*60 25T .**' *' /*->' 2' 12 - *-* .' *0%X' 6-*' ;// 1 '51/0' + * 2 .T 6/.1',)*' ?10*-2'26?*' 8)>)' .' 2' ;// "' 2' " ' ',)*' =1->)' 1 '51/0J' M .>) 25'6 " 'd ' 'SK X%

162*'& ' " ' ' % %' % %' -1^ ,*.,62,' = .>1=6/D .)1=' 1 ',)*' 0 1>*.*' 1 ' *8' B*-.* ' 86.' D1-2' 2' (-*2,12 ' %B%' 2' RR% : *' 5-60 ;6,*0' 6,' $2 12' 1//*5*' >)*2*>,60 '6,' 2 2*,**2' *6-.' 1/0' 620' ,)*2' >1? ?*2>*0',)*' .,;6 '1 ',)*1/15A% : *' 86.' 1-06 2*0' 0*6>12' D ' D .)1=' : 1D6-,' 2' QKN' 620' =- *.,' 2' QKN% : *' .*-+*0' 2' (- 2 , ' >);->)' *87 1-9' ,)-**' A7*6-.' 620' 2' QK ' 86.' 6==1 2,*0' =-1 *..1-' 1 ' D*//*.C/*,,-*.' 620' 1-6,1- ' 2' & 6.) 25,12' 1//*5*' ,% : *' -*. 52*0' ,)6,' 1 >*' 2' QKQ' 620' .112' 6 ,*-' 876.' */*>,*0' -*>,1-' 1 ' (- 2 , ' >);->)' 2' 1.,12% : *' 86.' >12.*>-6,*0' D .)1=' 1 ',)*' 0 1>*.*' 1 ' *8' B*-..* ' 12' >,% N ' QNK% : *' 1 ;20*0' ,% < 6- .' : 6// 2' QK ' 620' ;-/ 25,12' 1//*5*' 2' Q S' D1,)' 1 ' 8)>)' 2.,, ;^ , 12.' -*?6 2' 1 ;- .D 25% : .' >6-**-' 6.' 6' D .)1=' 86.' 12*' 1 ' 20* 6, 56D/*' 20 ;.,- ' 620' 0*=-

,1' =*1=/*' ,)*' .=6>*' D*,8**2' 410' 620' ?6,,*-' 8 ,)' 6' +6.,' .;>>*.. 12'1 '.2=*-) ; ?62'D* 25.'6.' ?*0 6,1-.' D*^ ,8**2' -10' 620' ,)*' 81-/0% ()*.*' *?626, 25' -1?' ,)*' *, ' 8*-*' >6//*0' .*12.† 6?125',)*.*',)*') 5)^ *.,'-629'86.'6.. 52*0',1')- .,% :*-*')18*+*-',)*' .**?',1')6+*' .=/ ,% '<62' ?65 2*0',)6,'B*.;.'86.' 6' ?*-*' ?62'620' ?6 2,6 2*0',)6,',)*' .**2')- .,'0*^ .>*20*0';=12',)*' ?62'B*7.' 6,') .'D6=, .?'620'/* ,') ?' ? ? *0 6,*/ 'D* 1-*') .'>-;> L 12' .1',)6,')- .,' 86.' 21,' 2' 6>,' .;D%*>,*0',1' =6 2' 620' 0*6,)† 8) /*' 1,)*)*/0',)6,',)*' D10 '8 ,)'8) >)')- .,' 6==*6-^ *0',1' D*' 2+*.,*0' 86.' 21,'-*6// ');?62' 620' =6..6^ D/*'D;,';2.;D.,62, 6/ 1-' *,)*- 6/' 1-' 6,'/*6.,' ??61' ,>- 6/&,)*.*'/6.,'8*-*' >6//*0' 1>*,,*J' I1 (' # ' '"' " "'=% ' X% ()*'0*2 *0',)*' 8)1/*');?62 , '1')- .,'-*56-0 25' ,'12/ '6.' 6' 0*>*=, +*' .)18' ' ! () .',)*' .*2.*' 1',)*');->)' >16 0' 21,'D*6-% '()* '8)1' 81;/0'?69*' 21,) 25' D;' 6' .=*>,-*' 6-*',)*?.*/+*.' .=*>,-*. ' ==*>,-6/ ?*2 J' ' 62' *L!=-*.. 12' 6.>- D*0',1' 526, ;.% (> .;// 62' .6 .' ,1',)*' 1>*,6A' :18' .',',)6,' ?69*',)*')6/'1')- .,'6'/'H :*'86.'6//',-;,)%J' 20'656 2' ' 1;' 6->'1 *20*0'8)*2',)*' >) /0' .'21;- .)*0'620' 120/*0' 6 2',.'.8600/25C>/1,)*.% () .'-*+*-*2>*',)182',1'26^ ,;-*' 1;' 0*.= .*' 620')18' 8*-*' 'D1-2' 1;-.*/H' " '6,'/*6..'/1+*0'?62' 2',) .'>120 , 12% 1-') .' .69*')*' >6?*'0182' -1?'6D1+*' 1-') .' .69*')*' .;D^ ? ,,*0',1' *+*- '.1-.'1'0*5-606, 12 ',0'0*6,)' ,.*/ % 2'/1+ 25'?62')*'/1+*0'*+*2') .'D -,)'*+*2') .' /*.)J' M *620*-' " "'# ' 'NSRX% *620*-'.6 .d ' 2** >12.*_;*2>*' 1',)*' 0 .-;=, 12' 1',)*' 0 + 2*' 620',)*');?62'D '421.,>.?'86.' 1>*, .?'8)>)'6/,15*,)*-' 0*2 *0',)*'-*6/');?62/ C .*2.;1;.'.0*'1')- .,./ *' 620'12/ '6>9218/*05*0'6.'-*6/',)*'-*+*/6, 12'1',)*'0^ + 2*' * 25% -*=6-6, 12' 1-',) .'+*8')60'D**2'?60*' 6?125',)*'B*8 .)',)*1/15 62.'D ',)*'-*=-*.*2,6, 12' ,)6,',' 86.'12*'1',)*'=- + /*5*.'1'6'.;=*- 1-'.= - ,',1' 6==*6-' 2'6'+6- *,'1' 1-?.%) /1 .'*L=/626, 12'1' ,)*' 25*/1=)62*.'620',)*')- .,1/15'1',)*' /*?^ *2, 2*')1?/*.' ;-2 .)'*+ 0*2>*' 1',) .% >>1-0 25' ,1',)6,' 1>*, >'>12>*=, 12',)*')*6+*2/ ' * 25'8)1.*' 26,;-*' .'=;-*'/5),'.;00*2/ '>6?*' 1-,)'6.'6' .*2.;^ 1;.'6==6-, 12% //.*2.;1;.2*..' .'12/ '62' //;. 12' =-6>, .*0'D',)*'0 + 2*' 4*2 ;.% :*2>*',)*'/6,,*-'D' 21'?*62.'6,,6>)*0') ?.*/',1',)*' *? ;-51.† 12/ '62' 6==*6-62>*' 1') ?'0*.>*20*0' 2,1',) .'81-/0J'M *62^ 0*-'# ' '' ' R X%

1>*, .?'86.'6'?1.',.;D,/*'*/*?*2,'8)>)'8-1;5),' +6-1;./'D* 1-*' ,')60'62 '0 .>*-2 D/*' >12>*2,-6, 12' 2' 62 '/*60 25' ?*2'1-'.*>,..'620' ,' 2 ;.*0' ,.';2-*6/' 620' 62,6., >'/*6+*2' 2,1' +6-1;.'421.,>'.*>,..'620' 1,)*-'/6,*-'12*.'8)>)'5-*8'1;,'1'421.,>.?% ,'86.' 6'0**=*'26,;-6/'-6, 126/.,>'=.>;01C.=-.;6/.,>'62, ^ 2>6-26, 12' */*?*2,% ,'86.' -?/'.*,'656 2.,')*' -*6/',)*' 2 12' 1',)*' 0 + 2*' 620');?62' 2')-.,'620' 656 2.,'6//015?6.'8)>)'0*=*20',=12',)*' -*6/,'1' ,)*' 2>6-26, 12% :65*2D6>)' .6 .d '()*' 1>*,6T' 8)1?' 526, ;.'I '6% !' 'Q' '$!'>% CQX'6/^ -*60 '1==1.*0'620'=-1D6D/'*+*2',)*'6=1.,/*'B1)2'M' B1)2' ' CNT' +'K'._%T K'B1)2' X'M12',)*' _;*.,12' 8)*,)*-')*'6//;0*.',1',)*?' 2') .'=-1/15;*',1')./'51.^ =*/'.**' ;>9*' ' !1' ?6 'D*'>12.0*-*0'6.',)*' 1-*^ -;22*-.'1',)*'421.,>.'M ;-.12' ; % ' !'=% Q' _.%X% ()*' 1-6',)*' ?1.,'0*>0*0'>12,-6.,'8 ,)',)*' D 12 ,*.' 26.?;>)'6.',)*' '21,'12/ '?6 2,6 2'M 2'1=^ =1. , 12',1',)*?X',)*0 + 2 , '1')- .,'D;,'6/.1'?*-5*').'); ?62'26,;-*',1'8)>)',)*' D 12 ,*.' *L>/;. +*/ ' >12 2*0',)*?.*/+*.' 2'6' ?*-*' =)62,1?'MD '0*2 25' ,)6,')*'=1..*..*0'6' 'D1OEX% D 12 , .?'M 6[6-,C .?X620' 1>*, .?' 1-?'6>>1-0 25',1' >)/* *-?6>)*-' I? " 1' ' K X' ')*-*. *.' 620' >1?=/*,*' *6>)'1,)*-'6.' 6-'6.',) .'>62'D*',)*'>6.*'8 ,)'12*C. 0*0' 1= 2 12.†D;',)*' _;,*' 6.' *6. /'=6..' 1+*-' -1?',/*' 12*',1',)*' 1,)*-'M>1?=% 1-2*-'? + " ' ' " 1' ' =% N R' ._%J'M:65*2D6>)'# ' ' ' ! QX% ()*' 6,)*-.' 8*-*' >1?=*//*0',1' 86-'8 ,)' ,) .' .;D,/*' 1>*, .?' >12.,62,/ ' 6.' ,' *+*-' D-19*' 1;,' 2 2*8' =/6>*.' 620'76,,6>9*0',)*',-;*')-., 62' 6 ,)' 6,' ?1.,';2*L=*>,*0'=1 2,.% +*2' .1?*'1',)*?'6.' /*^ ?*2,'620' : /6-E' 8*-*',*?=1-6-/'*2.26-*0'D' .1?*' 1',.'.;D,/*,*.' 1>*,.?'M,)*' % '+*8'1')-.,.'=*-.12X -*6==*6-.' 2' ?10*-2',?*.' 2',)*' ? ,)>6/'620' .=-.;6/.,>',)*1-*.' 8)>)' 6,,*?=,' ,1'-*0;>*')-.,62, ',1'62'.*.,)*,>'-*/5 12' 2'8)>)' 21'-*6/,*.'6-*'2*>*..6- 'D;,'.;>)'6.',)*',)?62'?20' >62'.;==/'6.' P'M<6-,*2.*2' ' 'g KQX% **' >)6 '# ' '" ' " "' 'g T *C! 620*-% " "'# 'M(1--* .'*0,%X' 'NQST' ' T :6.*' " "' # 'g' N T' :65*2D6>)'# ' ' ' : 1?*-' ' ' ' ' ' ' ' ' M 0 2D%,-62./%X'0 +% '+1/% %

1>)% ** ' !

1>)62% **' !

1>,1-'>") E I1'6' " '6.',)*',*-?.'D1,)' .52 'M ;9*' ST' +' T >,.' +'N X% 2>*2,/E' /*6-2*0'?*2'6?125',,*'B*8.'8*-*'0*21? 26,*0' " " (' '6.'6?125',)*'4-**9.',)* '8*-*'>6//*0' U !% ! 2',)*',?*'1'1;-' 6+1;-',)*'>1??1 7' 6==*//6,+*' 1-',2*2'1',)6,'0*.>-=, 12'86.' % " =' ,)O ' ,*6>)*-'1',)*'/68 J'1-' %) '/68 *-J' /*..'*L6>,/' =6V V76- ; T 2',)*' :*D-*8' = %" (' ?*62 25' .>-D*%J' ()*' 8*-7' 600-*..*0' D' ,)*')121-6-',/*' 1' 2'5 ' 5 ' 1-' ! ()*' B*8.' 2' ?,6, 12' 1',)*' 4-**9.')60' ,)*' -'.*+*2'8.*'?*2'8)1'8*-*'>6//*0'5 " 'M_%+%X' 1' 8)>)' 2;?D*-' 46?6/*/' 86.' 12*% ()*' '>6//*0' ,)*?.*/+*.',)*' >) /0-*2' 1' +A .01?' 62' *L=-*.. 12' 8)>)'>1--*.=120.'+*-'2*6-/',1',)*'4-**9'1 E =' U3 ''=) /1.1=)*-J'M<6,,'L' RT ;9*'+'N X% ()*')*60.'1'.*>,.'8*-*'>6//*0'6,)*-.'M<6,,'L 'K T LL ' CRX'620',)*'0.> =/*.' (' 8*-*'0*^ 21? 26,*0'.12.'1-'>) /0-*2% ()*B*8.)',*6>)*-.'6,' /*6.,'.1?*' 1',)*?>,;-*C-11?.'D;,' ,)*'6/.1',6;5),'620'0.=:,*0'2'.26515;*.'2',*?^ =/*.'620'2' 6>,'8)*-*+*-',)*' >1;/0' 20' 62' 6;^ 0*2>*% ()*'?*,)10'1',)*.*',*6>)*-.'86.',)*'.6?*' 8,)',)6,'8)>)'=-*+6/*0'6?125',)*'4-**9.% 2' 0.>=/*8)1' >)1.*'?5),'=-1=1.*_;*.,12.'I;=12' 8)>)' ,'86.',)*'0;,'1',)*',*6>)*-._',1'-*?6-9'620' 5+*',)*-'1=2 12.'M ;9*'/' SX% **' / ! ()*-*' .'6'0 *-*2>*'1'1=2 12'6.',1'8)6,'=6;'1' ,)*'(*?=/*',*86.'2'8)>)'1;-' 6+1;-'86.'1;20',.^ ,25'8,)',)*'01>,1-.% ()*-*'86.'21' .)11/'2',)*' (*?=/*'D;',)*-*'86.'6' .26515;*'620' .*+*-6/* >1;-.'1'>1;2>/620'A;0>6,;-*'2>/;0 25'6,',.',?*' ,)*'5-*6,'62)*0-?',../% ',.'+*-'=-1D6D/*'1;-' 7-0'86.'1 *-*0'6'.*6,'6?125',)*?'-1?',)*-'D* 25' .8;>9'8,)'60?-6, 12'6,',)*'.*6->)25'=18*-'1')., ;*., 12.'620',)*'0*=,)'9218/*05*'8)>)',)*'0.^ =/6 *0% ;',' .'6/.1'=1..D/*',)6,')*'?5),')6+*'.6, 12',)*'/11-'8,)'1,)*-'1;25'=*-.12.'8)/*,)*'01>^ ,1-.',',12'-6.*0'D*2>)*.'6>>1-0 25',1',)*-';>,.1?% ().'86.'>6//*0'.,25'6,',)*-'**,'620'6.',)*'D*2>)^ *.'8*-*'1,*2'-6.*0'2'6'.*?>->/*',)1.*'8)1'.6,'1-' .,110 2',)*'6-*6'?5),'8*//D*'.6 0',1'D_'6?125J' ,)*'01>,1-.% **'($ '1 O / ! (*6>)*-.'8*-*'21,'2+*.,*0'D'62' 12)6/6>,'1',),*);->)'1-'1',)*'>+/6;,)1-.,'A,)*'8*-*'.*/C>12^ .,;,*0% ()*'-*>* +*0'21'1,)*-'.6/6-',)62'.1?*' +1/;2,6-E'=-*.*2,'-1?',)*'0.>=/*.'8)>)'86.'>6//*0' *>',-*20*-*0')121-J'M'(?%+'X'620',)*'6>^ _;-*0'6'.;D..,*2>*')*/'D',)*'*L*->.*'1'.1=*' 6-,'1-')620>-6,% **'O ' !>>1-0 25',1',)*' (6/?;0.,.',)*'8*-*'D1;20',1')1/0'21'>12+*-.6, 12' 8,)'81?*2'620',1'-* ;.*',1'..'6,',6D/*'8,)',)*/18^ *-'>/6..'1'=*1=/*IMN 6,,*'L' T B1)2'+'K X% ()*' .;DA*>,.'12'8)>)',)*'.6;5),'8*-*'2;?*-1;.'620'1' 21'5-*6,'2,*-*.,'1'8)>)',)*-*'6-*'6D;2062,'=-11.' 2',)6/?;0% **' ! 1>,1-.'1',)*/68'-*_;*2,/'?*2,12*0'2',)*' *8' (*.,6?*2,'8*-*')*/'1',)*.*>,'1',)*')6- .**.'T

D ; ' ,) * ' 6-*' .1 ? *, ? *.' 0 ., 25 ; .) *0' -1 ?' ,) 6, ' .*>, '
M ; 9*' ' X% **') #
2' ,) *' .*) 11/.' ,) 6, ' 8 *-*' *., 6D/ .) *0' 6 , *-' ,) *' 0*^
. , -; >, 12' 1 'B*-; .6/*? ' 6, ' 6/P /12' 620' (D*- 6. ' 6' .1-, '
1 '6>60*? >6/ 0*5-**' 86.' >12 *--*0 ' ,) *' > ->; ? ., 62>*.'
6, , *20 25' ,) *' >12 *-- 25' 1 ' 8) >)' 6-*' ,) ; .' ..6, *0' D '
< 6 ?12 0*.% M %X ()*' >620 06, *' M7-' ,) *' 0*5-**' 86.'
*L6? 2*0' D1,)' 2' -* *-*2>*', 1') .' ?1-6/ >)6-6>, *-' 620'
) ./ , *-6- ' 6>_ ; -*? *2, .% MK%X : 6+ 25' ; 20*-512*'
,) .' *L6? 26, 12' 8 ,)' 6==-1D6, 12 ' ,) *' 0 .> =/*' ,) *2'
6.>*20*0' 62' */*+6, *0' .*6, 'M.**' < 6, , ' LL ' KX% MN%X'
8 - , 25', 6D/*, ' 86.' =-*.*2, *0', 1') ?', 1' . 52 ',) 6, ') *'
.) 1 ; /0' 8 - , *' 0182') .' 6>_ ; . , 12. ' . 2>*' ,) * ' ? 5), '
.>6=' -1?') .' ?*?1 ' 620' 8 ,) 1 ; , ' D* 25' 8 - , , *2'
0182' D*' /1. , % MC %X ' 9* ' 86.' =-*.*2, *0' , 1') ? , 1'
. 52 ',) 6, ') *' ? 5), ' 218' 1=*2', 1' 1,) *-.' ,) *' , -*6. ; -*.'
1 '9218/*05*' M.**' ; 9*' L ' KX% M %X : 620.' 8*-*' /6 0'
; =12') ? T' 6' ' 0*- +*0' -1 ?' ; ? D*-.' LL+ ' Q%
MS%X ' >*-, 6 2' =18*-' 1-' 6 ; ,) 1 - , ' 86.' >12 *--*0' ; =12'
) ? ' =-1 X6D/ ' , 1' D*' *L*-> .*0' 1+*-') .' 182' 0 .> =/*.%
M %X 26// ') *' 86.' . 6/ ; , *0' 2' ,) *' .>) 11/ 1 ' (D*- 6.'
8 ,) ',) *' , , /*' 1 ' 6DD ' 620' 2' ,) *' .>) 11/ 1 ' 6D /12'
8 ,) ',) 6, ' 1 ' < 6 . , *-% **' !
(' =- ?6- / ' 6' "(1 !' % ()*', /*' 1>, 1-'
1 ' ( ) *1/15 ' I1 ' ' -" 8' . ',) *') 5) *. , '6>60*?^
>6/ 0*5-**' 2' ,) *1/15 % 2' 25/620' 620' ?*- >6' ,'
. ' 5*2*-6// ' 5 +*2' ; 20*-',) *', , /*' 1>, 1-' 1 ' + 2 , '
I1 ' ' ' 1' 6D- 05*0' % %X ' 1-' 1>, 1-' 1 ' 6^
>-*0' ( ) *1/157 7M %' (%' %X%
K%' ( ) *' 81-0' 86.' ; . *0' 6, '62' *6-/ '=*- 10' 6.' 6' 5*2*-6/'
L=-. . 12' 1-' 6', *6>) *-' 1 ') - . , 62' 01>, - 2*' 620' /6, *-'
, ' 86.' 6==/ *0' MD* 1-*' , ' D*>6?*' 6' .=*> 6/ 6>60*? >6/
, , /*X', 1' ?*2' *? 2*2, ' 1-',) * -' 9218/*05*' 2',) *1/15 '
620' 1-',) * -' .9 //' 2', *6>) 25' , %' -*C*? 2*2, / ' ,) *'
, , /*' ' U(3 ' ' " ' " '" M01>, 1-*.' *>>/*. *X' 86.'
5 +*2', 1' 1 ; -' 1 ',) *' 4-**9' 6,) *-. ' + [% ,) 626. ; . '
6. / ' 4-*51- ' 6[62[*2' 620') - .1. , 1?T' 620', 1'
,) -**' 1 ',) *' 4-*6, %' (1' 6' *8' 5-*6, ' ? *2' 6? 12$',) *' .>) 1C'
/6. , ' Q ,' 86.' 5 5*2' 8 ,) ' 62' 600 , 126/ *= ,) *', , 1' 0*.C
5 ;' , *' .1 ?*' .=*> 6/ 2, */*>, ; 6/ _ ; 6/ , ' 2' 5 , T' ,) ; . '
2' ,) *' K, 6' 620' N,) ' >*2, ; - *. ' ,) *' 1//18 25' 01>, 1-.'
1 ',) *') ; ->) ' 8*-*' ,) ; . ') 121-*0d ()1?6.' _ ; 26. '
25*/ >; .T' 1) 6221.' =26+*2, ; -6 ' *-6=) >; .T' B1^
) 622*.' ; 2.' >1, ; .' ; D : / .T' 6 ? ; 20 ; .' ; //; . ' C
/ ; ? 26, ; .T' /62 ; .' 0*' 2. ; / .' M0*' (./*X' $2 +*-.6/ .T'
; -620 ; .' 0*' % 1 ; - 6 2 ' *.1/ ; , . . ? ; .T' 4-*51- ; .'
0*' ? 2 ' ; ,) *2, > ; .T' B1) 622*.' (6 ; /*-; . ' //; ? C
26, ; .T' B1) 622*.' 4*-.12 ; . ' D- , 62 . . ? ; , T' /*L^
620*-' : 6/*. ' --* -656D / .T' 15*-' 6>12 ' 0? -6D C
/ .T' & // 6?' >>6? ' 25 ; /6- .%
N%' ()*' 6>60*? >6/ 0*5-**' 1 ' 01>, 1-' .**?.' , 1') 6+*'
6- .*2' 2' ,) *' K,) ' >*2, ; -A' Q ' : ' 8) *2' -C'
2*- ; .' 1 ' 1/1526') 6.' ,) *' >-*0 , ' 1 ' 1- 5 26, 25',) *' >nY C
?12 6/ 1 ' 2+. . , ; -*' 1-',) *' 01>, 1-6, *' 1 ' /68 .%' ()*'
$2 +*-. , ' 1 ' 6- .' 6/?1. ; ' ? ? *0 6, *, ' 1//18*0' 2'
,) *' 11, . , *=. ' 1 ' 1/1526' ,) *' -. ', ->*=, 12' 1 '01>, 1-. '
) 6+ 25', 69*2' =/6>*' 2',) *' *6-' ' 2' 6+1-' 1 ' *, *-'
1 ? D6-0' 620' 4 /D*-, ' 0*' /6' 1--*>',) *' 5-*6, *. , ',) *1^
/15 62.' 1 ',) *' 06 % ; D. *_ ; *2, / ', 1',) . ' =*- 10' ,) *'
?=-1-. ' 8*-*' 6>>; . , 1? *0' , 1' >12 *-' ; =12' ,) *' ; 2 ^
+*-. , *.' ,) *' - 5), ' 1 ' 6==1 2, 25' 01>, 1-. ' 1 ' /68 .' D '
, 9*-' 6; ,) 1 - , ' 620' 2',) * -' 26? *%' ()*' *L6? =/*' 1 '
,) *' *?=*-1-. ' 86.' .=**0 , ' 1//18*0' D ',) *' =1=*. ' 8) 1'
>12 *--*0' >1--*.=120 25' - 5), .' 8 ,) ' -* *-*2>*' , 1',) *'
>6212' /68% -1?',) *' ,) ', 1',) *' N,) ' >*2, ; - ',) *-*'
. **?.' -*6.12', 1' D*/ *+*',) 6, ' D1,) ' 2' , 6/ ' 620' -62>*'
,) *', *-?. ' ?6., *-' 620' 01>, 1-' 8*-*' =-*, , ' 2*6-/*'. 212C
?1; .% >>1-0 25', 1' =*/?62',) *' 0*5-**' 1 ' 01>, 1-'
86.' 21, ' 5 +*2' 2' 25/620' ; 2, /',) *' , ?*' 1 ' 9 25' B1) 2 '
% %' K %
%' 2' ?10*-2', ?*. ',) *', , /*I 1>, 1-' 1 ' ( ) *1/15 ' .'
>12 *--*0' D ' ; 2 +*-. , *.' 620' >1//*5*. ' 620' 6/. 1' D ',) *'
1=*%' 2' -62>*' , ' .' D*. , 18*0' 6 , *-' . ; , 6D/*' *L6? ^
26, 12' 12' 62 ' *>>/*. 6. , >' 8) 1') 6.' , 69*2',) *' 0*5-**'
1 '01>, 1-' 2' 6' 6>; /, ' 1 ',) *1/15 ' 620' 2' .1?*' ; 2 +*-^
. , %' 2',) *' 6>; /, ' 1 ',) *1/15 ' 2' 6- . ',) *', ?*' 1
2*>*. . 6- ' . , ; 0 *.' . ' .*+*2' *6-. d', 81' 1 ' =) /1.1=) '
6 , *-' 8) >)',) * ' >1? 12/ ' -*>* +*',) *' >6=' 1 ' ? 6. , *-'
1 '6-, . T' ,) -**' 1 ',) *1/15 ' 8) >)' /*60', 1',) *' 0*5-**' 1 '
D6>) */1-' 2' ,) *1/15 T' 620', 81' 1 ' / >*2, 6, *' 0 ; - 25'
8) >) ',) *' D6>) */1-. ' 6-*' >12, 2 ; 6// ' *L*-> .*0' 2',) *^
.*.' 620' 6-5 ; ? *2, 6, 12. ' ; =12',) *' .6>-*0' >- =, ; -*. '
,) *' .>) 1/6. , >',) *1/15 ' 620' *>>/*. 6. , >6/) .,1- %% ^
, *-' ; -,) *-' *L6? 26, 12. ' , 7*' 01>, 1-6, *' 2' ; // .' >12^
*--*0% 2' 4*-? 62 ' 4-*6, ' - , 6 2 ' 620',) *' $2 , *0'
, 6, *. ' ,) *' 0*5-**' .' 218' 5*2*-6// ' >12 *--*0' 6. ' 62'
) 121-6- ' 12*' I" ' E 8 ,) 1 ; , ' *L6? 26, 12 '
; =12' ? *2') 6+ 25' 0 .., 25 ; .) *0',) *? . */+*. ' 6. ', *6>) *-. '
1 ') - . , 62 , ' D7[8 - , 25' 1-' .=**>) % 2',) *' ; 2 +*-^
. , *. ' 1 ' L 1-0' 6!20 6? D- 05*' M 25/6 7X',) *' 6>60*?^
>6/ 0*5-**' 1 ' 01>, 1-' . ' , // ') 18*+*-' 5 +*2' ; =12' *L^
6? 26, 12' M 1-? 6/ ' ' 21, ' -*6/X', 1' ? 6. , *-. ' 1 ' 6-, . ' 1 '
/+*2' *6-. ' . , 620 25T' 2' 6? D- 05*' , 1' ? 6. , *-. ' 1 '
, 8*/+*' *6-. ' . , 620 25 ' 1-', 1' D6>) */1-. ' 2' 0 + 2 , ' 1 '
+*

1>, 1-. 0 1 ? ? 12. ' 1-? *-/ ' ,) *' >1// *5*' 1 ',) *'
01>, 1-. ' 1 ' > + / /68' 2' 12012 ' 8) *-* 2',) *' 1 ; -, ' 1 '
0 ? -6/, ' 620',) *' =- 2> =6/ *>>/*. 6. , >6/ >1 ; -, . ' 8 *-*'
) *0% , ' 86.' 1 ; 20*0' D ' -% : *2- ' : 6-+* ' 0*62' 1 '
,) *' ->) *0' =-*+ 1 ; . ' , 1' 8) >) ' , ? *' ,) *' 01>, 1-. ') 60'
/ +*0' 2' 6, *-21. , *-' 18% ()*' 1- 5 26/ D ; /0 25' 86.'
D ; -2*0' 2',) *' 5-*6, ' -*' 2' SSS ' 8) *2',) *' 01>, 1-. ' -*^
?1+*0' 1-' 6', ?*', 1' L*, *-' : 1 ; . *% , *-' .1?*', ?*'
,) *' 1? ? 12. ' 6. ' -*D ; /, ' 620',) *% 01>, 1-. ' -*, ; -2*0', 1'
,) * -' 1-? *-' _ ; 6-, *-. % ()*' >1 ; -, . ' 8) >) ') 6+*' D**2'
812, ' , 1') 1/0',) * -' . , ., 25. ' 6, ' 1>, 1-.' 1? ? 12. ' 6-*'
,) *' 1 ; -, ' 1 ' ->) *. ' ,) *' ->) 0*6>12 .' 1 ; -, ' ,) *' -*^
-156, +*' 1 ; -, ' ,) *' 6> ; /, ' 1 ; -, ' ,) *' 1 ; -, ' 1 ' */*^
56, *. ' 620',) *' 1 ; -, ' 1 ' 0? -6/, %' ()*' -*-156, +*'
1 ; -, ' .' 218' 6? 6/56? 6, *0' 2',) *' -1D6, *' 1 ; -, ' M_%+%X'
620',) *' 1 ; -, ' 1 ' */*56, *. ' M_%+%X' . ', -62. *--*0', 1',) *'
A ; 0 > 6/ >1? ? ,, **' 1 ',) *' =- + ' >1 ; 2 > /%' ' ,) *', ?*'
8) *2',) *. 7' >1 ; -, . ' 8*-*' 6//' 2' ; // 1=*-6, 12',) * -', ?*, '
1 ' . *.. 12' 8*-*' -*5 ; /6, *0' D ', *-? . ' 6. ' 2',) *' >1 -, . ' 1 '
_ ; , ' 620' >1? ? 12' /68 ' 6' >-, 6 2' 06%7 2',) *' 8**9' D*^
25' 6. . 52*0', 1' *6>) ' >1 ; -, ' 1-') *6- 25' , . ' >6 ; . *. % ()*'
1 ; -7' 1 ' ->) *. ' ,) *' ->) 0*6>12 .' 1 ; -, ' ,) *' 6> ; /, '
1 ; -, ' 620',) *' 1 ; -, ' 1 ' 0? -6/, ' 6-*' 218',) *' 12/ '
>1 ; -, . ' 8) >)' >12, 2 ; *' , 1' *L*-> .*' ,) *' ; 2>, 12. ' 2'
,) .' 12>*' 6? 1 ; . ' =1, % ()*' 1 ; -, ' 1 ' ->) *. ' 1' >) 6//*0'
-1?') 6+ 25' .6, ' 2' & ' 1-' ; 20*-',) *' 6->) *. ' 1-'
D185' 1 ' 18') ; ->) ') *6=. 0*X' . ',) *' >1 ; -, ' 1 '6==*6/
D*/125 25', 1',) *' 6->) D .) 1='1 ' 62, *-D ; - % ()*' A ; 05*'
2',) .' >1 ; -, ' . ' ., /*0' *62' 1 ',) *' ->) *. ' 620') *') 6. '
A ; - .0 >, 12' 6. ',) *' 6->) D .) 1= .' =- 2> =6/ 1 > 6/ ' 2' 6//'
>>/. 6. , >6/ >6 ; .*. ' 8 ,) 2' ,) *' =-1+ 2>*' 1 ' 62, *-^
D ; - % ')6? D*-. ' 6 * ' .%' +%

1>, - 26/' ()*1/15 % **' ' 0 ' L
9 0 '
1>, - 2*%' **' !
1>, - 2*')=. , 62 ' ' L
' < ' I ' 1' ' (8!' % ' '
" ' " ' ' 1' 6' >125-*56, 12' 1 '. *>; /6-' =- *. , . '
,) *' >) * ' 1DA*>, ' 1 ' 8) >)' 86.', 1' 2. , - ; >, ' ,) *' =11-'
620',) *' 521-62, % ()*. ' 1 ; 20*-' 0.6-' 0*' ; . ' 86.'
D1-2' *ID-; 6- ' N' ' 6, ' 6+6 //12 ' 2' -62>*I' : *'
, 119' 1-0*-. ' 1-',) *' =; -=1. *' 1 ' 1D, 6 2 25' 6' - >)' D*2*^
>*' 620' 1-' .1?*' , ? *' /*0' 6' 0 . . 1/ ; , *' / *' 2' 6- .T'
D ; ' 12') .' -*, ; -2', 1',) *' _ ; *, ' 6+6 //12') *>) 625*0'
) .' ? 10*' 1 ' / * ' 620' 0*+1, *0') ? . */ ' 8 ,) ' 5-*6, ' [*6/
, 1',) *' 16-*' 1 ',) *' =11-' 620',) *' . >9% 2' 1-0*-', 1' *L^
, *20') .' =) /62,) -1= >' 6>, + , ') *' ; 2 , *0' 8 ,) ' 1 ; -
1? *-'=- *. , ' 1 ' 6+6 //12' 620' 218' 600*0', 1') .' 1-? *-'
/6D1-. ',) 6, ' 1 '>6, *>) . 25' =11-' =*1=/*' 620',) *' >) /0-*2%
2' RN',) *' 6. . 1> 6, 12' 1D, 6 2*0' 6' .=*> 6/ 6 ; ,) 1- [6C7
, 12' -1?',) *' 1=*%' &) *2',) *' 2 ; ? D*-' 1 ' ? *? D*-. '
) 60' 2>-*6. *0', 1', 8 *'/+*',) *' ' *'/*>, *0' *. 6-' 0*' ; ' . 6. '
,) * -' . ; =*- 1-% ()*' 2*8' . ; =*- 1-' 8 .) *0', 1' >12. 1/ ^
06, *',) *' 6. . 1> 6, 12' D ' 2, -10 ; > 25',) *' . ?=/*' +18 .%
( ) .' 20 ; >*0' 6' 2 ; ? D*-' 1 ' ? *? D*-. ', 1' _ ; , T' D ; , ' 2'
R ' =1=*' /*? *2, ' ' .62>, 12*0',) *' 6. . 1> 6, 12' 6.'
6' .1> *, ' 1 ' .*> ; /6-' =- *. , .% ()*' 1 ; 20*-' .112' 6 , *-

Priest of the Christian Doctrine.

became blind, but continued to preach and work for the extension of his society until his death in 1607. The successor of De Bus, Vigier, caused new trouble within the society by an attempt to convert the society into a regular "monastic congregation" (q. v.) by the introduction of solemn vows. This led pope Paul V to subject the society to the general of the Somaskians. This measure, however, increased the disturbance, and pope Innocent X on that account repealed the union, and subjected the priests of the Christian Doctrine to the diocesan bishops. These were henceforth again a society of secular priests, who only took simple vows. On the outbreak of the French Revolution, the society had in France 3 provinces, 15 houses, and 25 colleges. The society was abolished by the French Revolution; their last superior, M. de Bonnefour, died in 1806.

2. *A Congregation of Sisters of the Christian Doctrine* was likewise founded by Cæsar de Bus. They were more commonly called Ursulines of Toulouse.

3. *A Congregation of Doctrinarians* was founded in Italy about the middle of the 16th century by Marco de Sadis Cusani. The object of this society was likewise to give instruction. Benedict XIII and Benedict XIV gave to this society the direction of several elementary schools in the city of Rome. The society did not extend much beyond Rome, where they still give elementary instruction in a few schools.

Doctrines, History of (Germ. *Dogmengeschichte*), a special branch of Historical Theology.

1. The conception and the definition of History of Christian doctrines depend upon the conception and definition of what constitutes a Christian doctrine (dogma). For evangelical Christians, who believe that nothing should be received as Christian doctrine but what is clearly taught in the Word of God, the history of doctrine is a history of the efforts made by theologians and religious denominations to develop and shape the substance of the Christian faith into doctrinal statements; of deviations from the pure teachings of the Bible; and of the efforts to restore and defend the theology of the Bible. Roman Catholics, who believe in the sole infallibility of their Church, and deny that she has ever added anything to the teachings of Jesus, define history of doctrine as a scientific statement of the manner in which the several doctrines of the Church have been discussed, developed, and, at last, authoritatively defined. To the Rationalist, who does not believe in the immutability of the word of the Bible, the history of doctrines is nothing but a history of the doctrinal controversies in the Christian denominations. From the stand-point of evangelical theologians, the history of doctrines has an apologetic character with regard to Bible theology; the Roman Catholic theologians make it an apology of all the doctrines defined by the Church; while in the treatment by a Rationalistic author it will lose the character of a branch of Christian theology, and appear as simply historical. But, though conception and definition, and, consequently, mode of treatment and division of matter vary, all works on the history of doctrines embrace a history of the controversies which have been carried on in the Christian Church on doctrinal questions.

2. As regards the relation of the History of Doctrines to other branches of theological science, it is evidently a subdivision of Church history, separately treated on account of its special importance for theologians, and on account of its wide ramifications. It presupposes Biblical theology as its basis (or as its first period). As it recounts the formation and contents of public confessions of faith, and the distinguishing principles set forth in them, it forms itself the basis of symbolics, or comparative dogmatic theology, which stands to it in the same relation as Church statistics of any particular period stand to the advancing history of the Church. As the opinions of the prominent, especially the earliest, fathers of the Church are of considerable importance in the history of any Christian doctrine, it has frequently occasion to refer to the results of Patristics (q. v.). Of the "history of Heresies," the beginning will always have to be noticed in a comprehensive history of doctrine; its further progress only in so far as the heresies remain of importance for the Christian world at large. To a "general history of religion" it may have occasionally to refer; and with the history of philosophy and the history of Christian ethics it may sometimes have to travel over the same ground, though in the latter case it will treat the same subjects from a different point of view. Archæology, and the sciences auxiliary to Church history, such as universal history, ecclesiastical philology, ecclesiastical chronology, diplomatics, etc., also aid in furnishing materials.

3. The value of the History of Doctrines, in a scientific point of view, is evident. Though the history of no doctrine can have a decisive influence in determining the faith of an evangelical theologian, who to this end searches the Bible exclusively, it is for him the most important portion of the history of the Christian Church, leads him into a more minute contemplation, and frequently into a deeper insight of Biblical doctrines, and furnishes him with powerful weapons, both apologetic and polemic, against the various forms of error.

4. The periods of the history of doctrines have been differently determined by the writers on the subject. *Hagenbach* assumes the following five periods: 1. The Age of Apologetics, from the close of the apostolic age to the death of Origen (A.D. 80–254). 2. The Age of Polemics, from the death of Origen to John Damascenus (254–730). 3. The Age of Systems, from John Damascenus to the Reformation (Scholasticism in its widest sense) (730–1517). 4. The Age of Polemico-ecclesiastical Symbolism (the conflict of confessions), from the Reformation to the rise of the Philosophy of Leibnitz and Wolf in Germany (1517–1720). 5. The Age of Criticism, of Speculation, and of the antagonism between Faith and Knowledge, Philosophy and Christianity, Reason and Revelation, including the attempts to reconcile them, from the year 1720 to the present day. *Neander's* division is: 1. To Gregory the Great. 2. To the Reformation. 3. From the Reformation to the present time. Münscher, Engelhardt, and Meier adopt the division into Ancient, Mediæval, and Modern times. Klee (Rom. Cath.) coincides almost with Hagenbach. *Baumgarten-Crusius* (Rationalist) adopts in his Compendium six periods: 1. To the Council of Nice; Formation of the System of Doctrines by reflection and opinion. 2. To the Council of Chalcedon; Formation by the Church. 3. To Gregory VII; Confirmation of the System by the Hierarchy. 4. To the end of the 15th century; Confirmation by the Philosophy of the Church. 5. To the beginning of the 18th

*8' 1-9ʻ QS XTʻ %ʻ %ʻ 6;-ʻ "ʻ"ʻ ʻ "ʻ !ʻ ʻ =ʻ "ʻM ,;,,5%ʻ Q R'NO' >O%(;D 25%ʻ QS X'620' 1-V*C' ʻ ʻ ʻ "ʻ ʻ "ʻM*0 ,'D ') .'.12' %ʻ %ʻ 6;-'N'+1/.%ʻ * =[%ʻ QSSC QS XTʻ 6-/ *>9' 3 "ʻ ! ʻ "ʻ !ʻ ʻ - "ʻM< * ?6-ʻ Q Q'KO' *0 ,%ʻ QS XTʻ <6-/ > 2*9*ʻ "ʻ ʻ ʻ "ʻM*0 ,*O' D ʻ <6,,) *.' 620' 6,9*'D* 25',)*ʻ ,)'+1/; ?*ʻ1 ',)*ʻ >1?=/*,*ʻ 81.9.' 1 ʻ <6-)* 2*91 ʻ *-/ 2 ʻ Q RXTʻ %I 16>9ʻ "ʻ ʻ ʻ "ʻ !ʻM -/625*2 ʻ Q K'KO' *0 ,%ʻ QSSXTʻ B%ʻ %ʻ %ʻ 4 *.*/*-ʻ ʻ "ʻ "ʻM*O%D ʻ *O*=*22 25ʻ 122ʻ Q ʻQ+1XTʻ *620*-ʻ "ʻ ʻ ʻ "ʻM*O%D ʻ -%ʻ B%ʻ %B 6>1D 'K' +1/.%Q+1ʻ *-/%ʻ Q CQTʻ 25%ʻ,-62./%D ʻ /620' 2' 1)2 .'/ D-6- ʻK' +1/.%ʻ K?1ʻ 120% 7QXTʻ :%ʻ >)? 0'd* -%ʻ ʻ ʻ "ʻ "ʻM 0-0/ 25*2ʻ QS' KO' *O%ʻ QSQX%ʻ)*ʻ 12/ ʻ-*>*2,ʻ 81-9.ʻ 12',)*ʻ .;DA*>,' D ʻ 1?62ʻ 6,)1/ >6;,)1-.'6-*ʻ,)1.*'D ʻ /**ʻ "ʻ "ʻ ʻ ʻ + "ʻ "ʻM<6 2[ʻ QN CNQʻ K' +1/.%XTʻ 620' >)862*ʻ ʻ "ʻ!ʻ '% !'. ʻM1 ',)*ʻ =*- 10' -1?'NK C Q ʻ< ;2.,*-ʻK'=6-,.ʻ QSSCS X% 1'>1=1;.'1-'>1?=/*,*ʻ) .,1- ʻ1 '01>,- 2*.') 6.'D**2' =-10;>*0' 2' 25/620T D;,I,)*ʻ 5-*6,ʻ 8-,*-.ʻ 1ʻ,)*ʻ 25/ .)ʻ);->)ʻ 2',-*6, 25'.=*> 6/,1=>.ʻ)6+*'/6-5*^ /ʻ //;.,-6,*0',)*?ʻ -1?ʻ) .,1- %ʻ ʻ()1;5)ʻ>1?=-.^ 25'21'>12, 2;1;.'620'*2, -*ʻ) .,1- ʻ1ʻ)- ., 62'01>^ ,- 2*'620'*+*2'8)*2' 2+*., 56, 25'6'=6-, >;/6-ʻ.;D^ A*>,ʻ1 ,*2'01 25',ʻ 2> 0*2,6// ',)*ʻ/6D1-.'1ʻ: 119*-' 620' ;//ʻ1ʻ *6-.12'620' 6,*-/620ʻ6-*ʻ*+*-ʻ86ʻ 81-,)ʻ,1'D*=/6>*0'D*. 0*ʻ,)1.*ʻ1ʻ 6;-ʻ620' 1-2*-% ()*ʻ /*6-2 25'.ʻ 6.ʻ 6?=/*ʻ 620'6>>;-6,*ʻ,)*ʻ /15 >6/ 5-6.=' .ʻ 6.ʻ =18*- ;/ʻ620',)*ʻA;05?*2,ʻ?1-*ʻ,)62' 3*_;6/J'M)*00ʻ -*%ʻ+ X% ()*ʻ8-,*-ʻA;.,ʻ>,*0')6.' ,)*ʻ)121-'1ʻ)6+ 25'=-10;>*0'12*ʻ1',)*ʻ -.,'D119.'1ʻ ,)*ʻ>/6..ʻ 2' 25/.)ʻ/,*-6,;-*ʻMV'/ # ʻ ʻ " ʻ 'D ʻ & // 6?ʻ 4'(%)*00ʻ % %ʻ *8' 1-9 %ʻ >-D2*-'NO'*0' QS ʻK'+1/.%Q+1X% ()ʻ.'81-9' >620 0'/;? 21;.'620'6D/*ʻ,)-1;5)1;,)1;5)ʻ,'01*.' 21,'6 ?'6,'6' ;//,-*6,?*2,'1'6//,1=>.ʻ 2')-.,62' ,)*1/15 % ʻ,'5+*.',)*ʻ-*.;/,.'1'*L,*2. +*ʻ-*60 25' 620',)*ʻ 626/15*.'1'6'=6, *2,'620'0*+1;',) 29*-% :1/0 25' -?/ʻ,1',)*ʻ 5-*6,' ;-,62',)*1/15 ʻ -%)*00'.)18.'6'?6.,*-ʻ1'?10*?'4*-?62'.=*>;/6^ ,12'T 620'8)/*ʻ).'=65*.'6-*ʻ21,'D;-0*2*0'8,)'>1^ =1;.'21,*.'1-'*2->)*0'8,)',)*ʻ/6D1-1;./'>1//6,*0' *L,-6>,.'80,)'8)>)ʻ:65*2D6>)'1-'4*.*/*-'6+1-'.'ʻ ,)*'5.,'1'6//,)*'>12,-1+*-.*.'ʻ8*//'20>6,*0J'I; 9 "'ʻ =-/ʻ QS ʻ=%NKSX% ()*ʻ12/ʻ1,)*-' 81-9'1',)*ʻ>/6..'2' 25/.)ʻ/,*-6,;-*ʻ.'# ʻ -" ʻ'5 ʻ ʻ'%% ʻ ʻ ʻ ʻ"ʻ'&% 'D'&/^ /6?' ;22 25)6?'% %'=-2>=6/1'*8' 1//*5*' 0 2D;-5)'MKO'>O% QS ʻK'+1/.%Q+1X% ()ʻ.'.'6'=1.,^);?1;.'81-9'*0,*0'-1?'-%ʻ ;22 25)6?.'>1//*5*' /*>,;-*.'D')ʻ/,*-6-ʻ*L*>;,1-.% ʻ>1;-.*',')6.' 21,',)*ʻ>1?=6>,2*..'1-',)*ʻ 2.)ʻ8)>)',?5),')6+*')60' ʻ=-*=6-*0'1-',)*ʻ=-*..'D',)*ʻ6;,)1-')?.*/ʻ T D;,',.'2*+*-,)*/*..'6'+*-ʻ'+6/;6D/*ʻ>12,-D;,12',1'),1-'>6/,)*1/15 % ()*')..,1-'1'>-**0.'620'>12*..12.'1'6,)'.1'6-6.'-*/6,*.',1',)*ʻ01>,-26/=-2>=/*.'.*,'1-,)'2',)*?' 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J'620' 2',)*ʻ81-9.'12'015?6,>',)*1/15'620'.?D1/>.% &*ʻ-*ʻ*-',1',)*ʻ.=*> 6/6-,>/*.'2',) .'>/1=6*0 6'12' ,)*.*ʻD-62>)*.'1'.>*2, >',)*1/15'1-',)*ʻ/,*-6,;-*% 17>;.': '2'-%&I >f)T ;/5%'+'-%'8' 6'/,,/*ʻ)1/0J'M-1' 1 % E ;/5%ʻ =ʻ 8'2*6-'B*->)1'M'<6>>%L+'T>1?=6-*ʻ+*-.*ʻ X' D;/,'D ',1/*?.*;.',)*ʻ.12'1' D;D;.'620'2'8)>)')*ʻ*2,*-,6 2*0'620'?;-0*-*0').'6,)*-C 2C/68' ?12' <6>>6D6>;.'8,)')'.',81'.12.%ʻ A7'B1.*=);.'I& !' L 'Q T' ʻ'K'NX' ,' .' >6//*0' 'M 6 6-AX' 620'.'.6 0',1')6+*ʻD**2' 12*ʻ1',)*ʻ 1-,-*..*.'I % % =ʻ - 8'6D1+*ʻB*-)1%J' ()*ʻ81-0'.'=-1D6D/',)*ʻ -6C ?.62'' + "ʻ 6' "= 'M4-???6 !'# "ʻ! 2' /1>%X% ()*ʻ26?*ʻ., //-*?6 2.' 2' ,)*ʻ2*5)D1-)110' 6,,6>)*0',1',)*ʻ>1=1;.'620'*L>*//*2,'.=-25.'1CZ 8C ' +'8)>)'D;-.,' 1-.,)' 2',)*ʻ& 60' 686?*)'6,' ,)*ʻ 11,'1',)*ʻ?1;2,6 2'1'#;6-62,62 6'M ;-;2,;/X' 6D1;,' 1;-' ?/*.' %& '1'B*->)1'M 1D 2.12'5 I' ʻ N RX% D1+*ʻ,)*ʻ.=-25.'6-*ʻ,-6>*.'1'62>*2,' 1;206^ ,12.'8)>)'?6'D*ʻ,)1.*ʻ1' ,1/*?7.'>6./*'D;,' ?1-*ʻ=-1D6D/'1',),6,'1',)*ʻ(*?=/6-.'12*ʻ1'8)1.*ʻ .,6,12.',)'86.'M.*1'<;2,*-'$ "ʻ ʻ ' - % "ʻ' RX% ,'.,110'6.'/6,*ʻ6.',)*ʻ/6,,*-'*20'1' ,)*ʻ N,)'>*2,;-A7'8)*2' ,'86.'+.,*0'D ' -1>6 0; 8)1'>6//.'E ' "'>' E'- $ '*)%+ A=% Q' *O% 12 - -*ʻ 2' , %X% ' ? ,)'.%+% 10' /D*-,' 6/0 8 2' % %'62'*? 2*2,' -*.^ D,*-62'?2.,*-'620'?6,)*?6,>62'86.'D1-2' 2' <*20)6?'%'B%'<6->)'K Q '620'5-60;6,*0' % % 6,' -2>*,12' 2' QKK% 2' QKS%)*ʻD*>6?*I,;,1'86.' />*2.*0',1'=-*6>)' 2' QKR'620' 2' QN'86.'6==1 2,*0' =-1*..1-'1'?6,)*?6,>.'2'-2>*,12' 1//*5*% :*ʻ //*0',)*ʻ1 >*ʻ8,)'.526/6D/,A7620'.;>>*..'1-' ^ ;,**2' *6-.'620'0*0'6,*-'6'.)1-,' //2*..'1+%K' Q %ʻ (1'6'-*?6-96D/*ʻ6=,,;0*ʻ1-'?6,)*?6,>.')*ʻ 600*0'62'6>;,*ʻ?*,6=)A.>6/,;-2'620'6',6..*ʻ1-'5*2^ *-6/,*-6,;-*ʻ.1',)6,')./?*2,6/>;/,;-*ʻ86.'D-160' 620'>6,)1/>% :*ʻ8-1,*ʻ.*+*-6/6-,-0*.'1'5-*6,'+6/^ ;*ʻ2',)*ʻ '5 ʻ '620'6?125',)*?'12*ʻ12' - 'M+1/.%L'L'X'8)>)'86.'6,*-86-0.' -*=-2,*0'6.'6'.*=6-6,*ʻ=6?=)/*,'12'6>>1;2,'1',.' ?6.,*-/',-*6,?*2,'1',)*ʻ.;DA*>,% ' =-65;*'& ' +'N % 10'B1)2'62'*?2*2,' ;-,62'0+2*'86.'D1-2' 6,')1,/*05*'')*.)-*'25/620'2' '620'86.' *0;>6,*0'6,'B*.;.'1*5*'6?D-05*'8)*-*ʻ)*ʻD*^ >6?*ʻ*//18'620'3*.0*0'1-'.L,**2'A16-.% ,'>1/^ /*5*ʻ)*ʻ6>_;-*0'5-*6,'-*=;,6,12'D1,)'6.'6'0.=;,62,' 620'6'=-*6>)*-% :.'-.,'.*,,/*?*2,'876.'6,':6 IC' 8*//'L 1-0.)-*ʻ2'Q'8)*-*ʻ)*ʻ-*?6 2*0',8*2,' *6-.'620'86.'1 '=1=;/6-'620';.* ;/% /*ʻ86.'.;.^ =*20*0'1-'212>12 1-?,'DE' -% -05*.'D.)1=' 1' L 1-0'620'8*2,',1' 62212.'.)DA'2' 1-,)6?=^ ,12.)-*'8)*-*ʻ)*ʻ86.'656 2'./*2>*0'12'6'>1?=/6 2,' ,1'9 25'B6?*.'D'D.)1=' *6/*% ,*-',)*ʻ0*6,)'1' 9 25'B6?*.')*ʻ56 2*0'/D*-,',1'-*.;?*ʻ)'.'=;D/>'/6^ D1-.'8)>)')*ʻ0 0'8,)';2-*?,,*0'6,)/2*.'620' .;>>*..',//)'.0*6,)'8)>)',119'=/6>*ʻ6,'68*./* 1-,)6?=,12.)-*'6'/+25',1'8)>)')*ʻ,+6.'=-*.*2,*0' 2'SK %% <-% 10'867'62'*L>*//*2,'.>)1/6-'*.=*> 6// ' 2'*D-*8% :*ʻ=;D/.)*0'&'6 % ' '" ' 9 'M 12012'S Q ,1Xa''&'5 ' ' ' ' M 12012'S Q',1Xa''&'5 ' ' ' M 120% S R',1XT'620',15*,)*-'8,)'1D*-,'/*6+*-' & '6 % ' '" ' - ' "" ' 9 "ʻM 120% SNK',1X% 1707'M:*D% ' (' =-1D% 621,)*-' 1-? 1-'' :'*=,% 80,6'+%-% >176'020'& E f1!' ' 8'62')1),*',)*ʻ>)*'1 >*-'1',)*ʻ>12, 25*2,' 1-',)*ʻ.*>120'?12,)';20*-' 6+0'M')-12% LL+ XT=-1D6D/',)*ʻ.6?*ʻ6.' 'M_%+%X'8)1.*ʻ.12' /*6[6-'86.'12*ʻ1' 6+0.',)-**')*'D-6+*.'MK' 6?% LL 'RT' ')-12'L' KX% '.1?*',)*ʻ81-0.' !=' <*6[6-"' ' ((' 6-*ʻ.;==1.*0',1')6+*ʻ6>>^ 0*2,6// 7*.>6=*0'2',-62.>-=,12'-1?',)*ʻ,*L,'2'

)-12% LL+ 'b' ?69 25' ,) .' =*-.12' + ' " '1 ',)*' ? / ,6- ' >)6-6>,*-',)*-*' .=19*2' 1 %

1 0 6 2 ?' M : *D' ' (' 0*- -% ; 2^ 92182'↑ *=,% 17,1,' ;/5% ' 8*;' 6 ? / '1-'-6>*' 0*.>*20*0' -1?'M,)*' 1 ;-,)'.12'1 X'B6+62',)*'.12'1 'B6C' =)*,)'M4*2%'L' X% ()*'6;,)1-, *.'+6- '6.',1',)*' _!-?' 1',)*'26?*á,)*' : *D-*8','*L,')6.' 1062 ?' 2'4*2*. . ' D;,' ' M 6.//IGX' 2',)*',*L, 1 ',)*' =6-6//*/ =6..65*' M ')-12% ' ' ?6-5 2' *=,' 656 2 11 1,' \+% -% &I 3 f ' 620' ;/5% ' ' % % 1062 ?JX↑' 1062 ?' 6==*6-.' 2',)*' - 6>')6/^ 0**' ;/56,*' *-. 62 '620' -6D >' +*-. 12. '620' 2',)*' 6-5; ?' 1 ' 29*/1.↑ 1062 ?' .' .;==1-,*0' D ',)*' *=, ',)*' 6 ? 6- ,62' +*-. 12 '620' .1 ?*' *6-/ ' 8- ,*-.' 656 2' .;D., ,;,*0' 1-' *062X% 1062 ?' .' -*56-0*0' 6.' 0*2, >6/ 8 ,)' ' 'M4*.*2 ;,' -" !=% KSSX' ,)*7/6,,*-' 8) >)' .',)*' 1- 5 26/ 1-? ')6+ 25' D**2' ?10 *0' D ',)*' >)625*' 1 ',)*' / _; 0' -' 2,1' '6.' 2' 6-? />6-'620' 1? />6-' : 6 ? />6-'620' : 6 ? />1'># !' !'. !' Q ' 1% X% ();.',)*' (6-5; ?' 1 'B126,)62' ,)6,' 12')-12 >/*.' 620' ,)*' B*-;.6/*? (6/? ;0 ' 5 +*' ' 1-' 1062 ?% ()*' 6-062 ' 8-*' 1;20' 2') .,1- >6/ , ?*.' 2' // - >; ?' 620' (-1 á',)*' 1-?*-' 0 .,- >,' 86. -*56-0*0' 6.' ,)*-' 1- 5 26/ .*6,% ()* ' 8*-*' =-1D6D/ '6' .*? C */6.5 >' -6>*' 620' 6-*' 5-1; =*0' 8 ,)',)*') ,, ?' 2',)*' 5*2*6/15 >6/I',6D/*' 6.' ?1-*' >/1.*/ '-*/6,*0',1',)*?',)62',1',)*' 1,)*-' D-62>)*.' D ',)*' *)6.5 >' -6>*' M 21D*/' N + ' =% ' ._%X% ()*. ? /6- ,E¢1',)*' 26?*' ' 2' = -;.' M ,-6D1' + 'NK'. %X')6.' /*0',1',)*' 0*2, 6, 12' 1' 1062 ?' 8 ,)',)6,' =/6>*' M< >)6*/ .' $% !' ' K XT' D;,' 6' ?*-*' '0*. 526, 12' 6==*6-.',11'-*.,- >,*0' 1-',)*' 5*2*-6/ ,*21-'1'4*2% L% **' > ' #! 6/ .>)' > ' "' ? !(8 0*2, *.' 1062 ?' 8 ,)',)*' ' =' '8)1' 1>>;=*0',)*' >16.,'1' =;/ 6T)*' -*56-0.',)*' 26?*' 6.'-* *-- 25',1', 6/ '5*2*-6// % ()*' 8 0*' 620' ;2*L=/6 2*0' 0 *-*2>*' 1',)*' 26?*.' 620',)*' >1?=6-^ 6, +*' ;2 ?=1-,62>*' 1',)*' 6;2 62. ' 1-?' 1D*>, 12.' ,1',) .' + *8% ()1.*' 8)1' =-* *-',)*' -*60 25' 106C (?-* *-' ,',1',)*' 4-**9' 2)6D ,62,.' 6/125',)*' - +*-' 5" 'M 1*D,-,' " 1' 'SX' -1?',)*' 1- 5 26/ 5+ =' I 'M(;>)' ? !=% K SX% ' ? ,)' .% +

1 0 6+6)'M : *D% 12/ ' 2',)*' =-1/125*0' 1-?' ' =' 1 (" ' 31 ' 'D " ": *=,% 87 6' % -%' ;/5% ' 8' 62' 2)6D ,62, 1 ' <6-*.)6)'620' 6,)*-' 1',)*' / *[*-' 8)1' =-*0 >,*0' ,)*' 8-*>9' 1 'B*)1.)6=)6, .' /**,'6;L / 6- ',1')6[6)' MK')-12% LL 'N X% % ' 62,*' QR % 2',)*' B*8 .)' ,-60 , 12.' 106+6)' .',)*' =;,6, +*' .12'1 'B*)1.)6=)6, 8)1'86.'M 2'-*6/ , X') .';2>/*' MB*-1?*' !'# !'60'/1>%X%

100')6-/*.' 62' 25/ .)' 1?62 .',0 + 2*' 8)1.*'-*6/ 26?*' .' .6 0',1')6+*' D**2' >)6-0' (11,/*% : *' -*. 0*0' 6,' : 6-+ 25,12' & 1->*.,*-.) -*' 8)*-*')*' 0 *0' 6D1;,' % : *' =;D/ .)*0' 6' " "' # 8' 6 ' ' ' S Q' " ' "' ' "= + ' M -;..*/.' N ' * 5),'=6-,. ' 2' N +1/.% 1/%X% ', 86.'=- 2,*0' 2' 25/620',)1;5)'06,*0'6,' -;..*/.% ', 86.' .)6-=/ '>-. ,> .*0' D ' 12.,6D/*' 6' B*.; ,' 2' 620' 100' -*=/ *0' 6.' .)6-=/A7 M KX% *- 25,12' 2') .' ? ' / '.=*69.' 1 ' 100' 6.' ,)*' 6;,)1-' 1 '1,)*-' 81-9.' 656 2.',)*' 2. 0 1;'>12^ 0;>,' 6.')*' 0**?*0' ,' 1',)*' B*.;,.' 2',)*-',-62.6>^ ,12.' 8I ,)',)*' .*>;/6-' >/*-5A%J' : .' " "' # 86.' 1-' 6'/125', ?*' +*-A' .>6->*' 620' 0*6-' D;,' 6' 2*8' *0 , 12' 86.' ;20*-,69*2' 2' QNR'D ',)*' *+% <' % (*-^ 2* '1'8) >)' +1/.% Q+1')6+*' 6==*6-*0' M QNR C Q NX%

100'& // 6 ? ' % %' 62' ;281-,) '7>/*-5 ?62' 1',)*');->)'1' 25/620'86.' D1-2' 2' KR' 6,' 1;-2' 2>1/2.) -*' 620' 86.' 60 ? ,,*0' 6' . [6-' 1' /6-*' : 6// ' 6 ? D- 05*' 2' % 2' N)*' 86.' 1-06 2*0' 620' .*,,/*0' 2' 12012↑ 620' -1?',) .', ?*')*' >12, 2;*0',1 1D,6 2' 6' .;>>*.. 12'1 '.?6/ =-* *-?*2,.' 2',)*');-) ')1/0 25' 2' ,)*' /6,,*-' =6-*2',' 1 ') .' / * ', 81' >)6=*/.' 2' 12012' 8 ,)' 6' -*>,1- '620' + >6-65*' 2',)*' >1;2,- ' 620'=1..*.. 25'62' *>>/*. 6.,>6/ 2>1?*' 1 'cQ '6' *6-% : *' 86.' 12*' 1 ',)*' ?1.,' =1=;/6-' =-*6>)*-.' 1 ',)*' 06 1' 86.' 12*' 1 ',)*' 9 25 .' >)6=/6 2.' ?6' 620' 2' SN' 86.' 2,-;.,*0' 8 ,)',)*' *0;>6, 12' 1 ') / =' ,62)1=*' 6 ,*-^ 86-0.' *6-/' 1 ')*., */0% 2' ')*' 86.' 0*=- +*0' 1 ')62>*//1-' =./* '6' D- D*' 1 'cN ' '.)*' 81;/0'.*^ >;-*') ?',)*' / + 25' 1 ',% 4*1-5* .' : 621+*-' ;6-*% : *' =-*6>)*0') .' /6.,' .*-?12' *D% K 1' ,81' 06 .' 6 ,*W)*' 1-5*0' 6' D120' 1-' c K '12' 1-0')*.,*- */0' 86.' 6--*.,*0',-*0' 620' >12+ >,*0' 1D% K '620' *L*^ >;,*0' B;2*' K % ,-*2;1;.' * 1-,.' 8*-7* ?60*' 0' ?*2' 1',)*') 5)*.,'-629',1' .6+*') ?' D;,' 8 ,)1;,' * *>,% : *' 86.' 6' ?62' 1' .;=*- > 6/ /*6-2 25' D;,' 1 '5-*6,'/ ,^ *-6- ' 20;.,- % *. 0*.' ? 21-' = *>*.' 2' =-1.*' 620' +*-.*')*' =;D/ .)*0' & '6" ' ' ' ' "' ' ' "' ' ' ' '6% %"9 ' ' ' 'D ' D ' 6' =1*, >6/ *..6 ' M Q' ,1Xa ' $ ' ' + ' ' ' M Q' ' +1/.% Q+1Xa ' & ' ' "' '5 ' ' I1' ' "' ' ' " ' 'M R' Q+1Xa ' &' '6 % 9 ' '"'% ' + ' ' 'M SK K?1X 1 ' 5 9 ' ' ' "' M SN' K?1Xa ' ' ' "' '& 9 'M S 'Q+1X'a ' -" 'N 'M S 'K' +1/.% NK?1Xá ' 6' 2*8' *0 , 12' 1 ' + (' % = +' ' "' ; 9 'M SS' ,1Xa ' $ ' ' "' ' ' ' "' ? ' ,-62. ' -1?' <6.. //12' M SR' Q+1Xa ' &' ' ' " ' ; ' N +1/. ' 1/% M=;D/ .)*0' 2' 2; ?D*-.' >1?C I' ?*2>*0' 2' S '620' >1?=/*,*0' 2' % ' 2'1-0*-',1' 5 +*' 5-*6,*-' >/6,',1',) .' ;20*-,69 25' .' 86.' 62^ 21;2>*0',)6,' /1-0' <6.)6?')60' =-*.*2,*0') ?' 8 ,)' ,)*' < %1' <-% 1>9*' 620',)6,')*')60')*/=' 6/.1' -1?' ,)*' < %1 '/1-0' /6-*2012' 7% 6,*-/620' 620' 1,)*-' >*/*D-6,*0' ?*2% ()*' 6D / ,' 620' .1;20'A;05?*2,'8 ,)' 8)>)' 2',)_' >1?=/6, 12' 1 ',/ .'!81-9' 100' 6+6$*0') ?.*/'1',)*' /6D1-.' 1 '=-*>*0 25' >1?*2,6,1-.' 1^ * 52' 6.' 8*// 6.' -, .)')6+*'-*20*-*0',) .' 6' +*-A' +6/^ ;6D/*' 81-9%J' ,' 86.' ?60*' ,)*' D6. .' 1' -% 19* .' ' 8 ,)1;,' 60*_;6,*' 6>9218/*05?*2,Xa ' $ ' ' ' 'M N' +1/.% K?1Xa ' -" '6 =!' 4 ' ' %5 ' 1 ' ' "' D ' ' ' 5 'M K' Q+1Xá ' ' -" " ' ' ' *>'.1?*' 2,*-*., 25'21, >*.' 1' 100 .' 6,,6>9'12' & *.^ /* '620' 1' & *./* .' + . ,.',1') ?' 2' & *./* .' + ' ' % *O%' +' K ' SST' + ' N %

100- 05*' + ' / ' % %' 86.' D1?' 2' 12012' B;2*' KS' K% : .' =6-*2,.' 8*-*' =Z%;.' ..*2,*-.' 620',119' =6 2.',1' *0;>6,*',)* -' >) /0-*2' -*/ 5 1;./) / =' 86.' 2,-10;>*0' D ') .' ?1,)*-',1' 6' 9218/*05*' 1',)*' >)6-6>,*-7' 620' .>*2*.' 1',)*' %' 620' %(%') .,1- ' D '?*62.' 1' .1?*' ;,>)' ,/*.',)6,'/2*0' >1?*-' 1' ,)*' -' . ,, 25C-11?% 2') .' >) /0)110')*' & f= ,6;5),' ,)*' -;0 ?*2,.' 1' 4-**9' 620' 6, 2' 620' -1?') .',*2,)' ,1') .',) -,-**2,)' *6-')*' 6,,*20*0',)*' 5-6? ?6-C.>)11/ 6,' 25.,12C12C()6?*.' 2' ')*' 2,*-*0' 6' =- +6,*' .>)11/ 6,' % /D62.' 9*=,' D 'F<-% 6,)626*/' &110' 620')*-*')*' 56 2*0',)*' - *20.) =' 1' 6? ;*/ /6-9*' 8)1' 6 0*0') ?' 2' ?62' 86 .' 6 ,*-',)*' 0*6,)' 1') .' 6,)*-' M X% 100- 05*' -*=6 0') .' D*2* 6>,1-' D ') .' 0*+1, 12',1' .,;0 '620',1' =*-.126/ -*/ 5 12% 2' Q)*' -*>* +*0' 62' 1 *-' -1?',)*' 0;>)*.' 1' *0 1-0' 8)1' / +*0' 2',)*' 2* 5)D1-)110' 620')60',)*6-0' 1') .' >)6-^ 6>,*-' 620' > ->;?.,62>*.' 1',1' .*20') ?',1' *,)*' 1',)*' ,81' ;2 +*-. ,*.' 12' >120 ,12' 1') .' D*>1? 25' 6' >/*-^ 5 ?62' 2',)*');->)' 1' 25/620' ' =*' 0*>/ 2*0',)*' =-1=1.6/% <-% /6-9*' 218' ;20*-,119',1' D*6-',)*' *L^ =*2.*' 1') .' *0;>6, 12' 620' 100- 05*' 5/60/ ' *?^ D-6>*0',)*' 1 *-' D ' *2,*- 25' 2' R',)*' 6>60*? ' 1' D81-,)' 2' *>*..*-.) -*' 8)*-*')1' ..;0 *0' ;20*-' -%B*22 25. ' 2' KK')*' 86.' / >*2.*0',1'=-*6>)' 620' 86.' .*,,/*0' 1+*-',)*' >125-*56, 12' 6,' D81-,)' 6.' .;>^ >*..1-',1' -%B*22 25.% 2' KR')*' -*?1+*0',1' :6-C' D1-1;5)',1' D*' 6.. .,62,',1',)*' +*2*-6D/*' <-% 1?*%

2',)*' .6?*' *6-' -% 100- 05*' 2' >12A;2>, 12' 8 ,)' -% & 6,,. ' *+% <-% 6;20*-. ' *+% <-% 1?*' 620' 1,)*-. ' *.,6D/ .)*0' 62' 6>60*? ' 1-' =-*=6- 25' 1;25' ?*2' 1-',)*' 81-9' 1 ',)*' ? 2 .,- '6?125' . .*2,*-.' 620',1' ,)6,' 2.,,;, 12')*' 86.' 6==1 2,*0',;,1-% 1' ?62' 86.' D*,,*-' ;6/ *0',)62' -% 100- 05*' 1-',)6,' . ,;6, 12' 620',)*' 2.,,;, 12' .112' *_; -*0'6' 8 0*'>*^ /*D-, % '=-*.. 25' 2+ ,6, 12' -1?',)*' 20*=*20*2,' >125-*56, 12' 2' 1-,)6?=,12' *2 1->*0' D ',)*' 60+ >*' 1 ' -% & 6,,.'620' 1,)*-' - *20.',1' 6>>*=,' ,'/*0') ?',1' 0' 218' .=)*-*' 1 '/6D1-' 620' -1?' *>*?D*-' K KR')*' 0 .>)6-5*0' 2',)6,',182',)*' 01;D/*' 0;, ' 1 '=6.,1-' 1 '6' /6-5*' >125-*56, 12' 620',;,1-',1',)*',)*1/15 D6/ .*? 26- % */01?')6.'%,)*-*' D**2' 6' ?1-*' /6D1-1;.' 1-'>12.> *2, 1;.'/ *',)62',)6,'1 ' 100- 05*% (1'.*-+*') .'0 + 2** < 6.,*-'86.',)*'-;/ 25'=- 2> =/*' 1 ') .') *6-,' 620',1',)*' 60+62>*?*2,'1 ',)*' .6>-*0'>6;.*')*'D-1;5),' 6//',)*' *2*-5 *.' 1 '62' 6>, +*' ? 20'620'6//',)*' .,1-*.' 1 l'62' 6/?1..' D1;20/*..' 9218/*05*' 06 / ' ,1' D*6-% < 62 ' .,;0*2,.' -*.1-,*0',5') ?' -1?' 6// =6-,.' 1 ',)*' 9 2501?'620'6?125.',),*.*'21,'6' *8'8)1'6 ,*-86-0.' -1.*',1'0 ., 2>, 12 '21,'6?125',)*' ..*2,*-.'12/ 'D;,' 2',)*' *.,6D/ .)*0';>)*.' 1 ' 25/620'620' >1,/620' 2' ?*- >6 '620'*+*2' 2' : 1//620% ()*' $2 +*-. , '1 ' D*-./**2'>12 *--*0'12') ?' 2' NS',)*'0*5-**'1 ' % % : *' 86.' 6' +1/; ? 21;.' 6;,)1-% : .' ?1.,' ?=1-,62,' W+1-9.' 6-*' $ ' '5 :' $ ('< ' % :' ' - '? :' 5 ' ' ' ' 5 ' '" '$:(@ !' 6 % ' ' %" ' 'N(' '" '7!'-! -% 100- 05* .' -6?*'2*+*-' -1D;.',6,'62 ', ?*'86.'*2 **D/*0' D ') .' 2>*..62,'/6^ D1-.'620' .*+*-*' >1/0') 6+ 25' .*,,/*0' 12') .'/;25.'620' D**2' 1//18*0' D ' . ?=,1?.' 1 '>12.;?=, 12')*' 86.' 60+ .*0',1',- ',)*' * *>,.'1 '6' .*6'+1 65*% 2',)*'N ,)' 1 ' *=,*-' ')*' .6 /*0' -1?' 6/?1;,)' 2' 6'+*..^ .*/ D1;20' 1-' .D12'8)*-*')*/620*0' 12',)*' N,)' 1 ' >,1D*-' 620' D* 25' >1?=/*,*/ '*L)6;.,*0')*' .629' 2' 6' *8' 06 . '*L=-*.. 25',1' <-.% 100- 05*'8)1'6>>1?^ =62 *0') ?') .' -?' 6 ,)' 620'A1 ;/)1=*' 2')- .,J' M >)' % ';' %" ' .'+%X% ()*' D*.,'*0^ , 12' 1 ' 100- 05* .' 81-9.' .',)6,'1 ' **0.' Q K' +1/.% Q+1',)*' -.,'+1/% >12,6 2 25') .' 'D 'B1D' -^ ,12% : .' ' '6 " ' ' 9 '6-*' .,*-*1, =*0' 2'12*'+1/*?=%Q+1'M 120% 1)2X% ()*' @ '6 % ')6.'=6..*0',)-1;5)' ?62 '*0^ , 12.'T 6'>12+*2 *2,'12*'.',)6,'1 ' ?)*-.,'M Q '-1 6/ Q+1X'8,)' ?*?1-'D ' -1 % %& % .9*% .' >1?2*2,6,1-'620',)*1/15 62' -% 100- 05*'0*^ .*-+*.',)*'=-6 .*'1 ' 20;.,- '620'=;-,E7'1 '6?'D;,' // 21' */0' *L>*=,' 2',)6,'1 '=-6>, >6/ -*/ 5 12 '0 0')1' - .*',1',)*' -.,' -629% 2',)*' 1? ?*2,6- ' 10^ 0- 05*' 6/86A.' 8- ,*.' 2' 6' 5110' .= - ,% ()*' /1+*' 1 ')- .,'-* 52.' 2' / .')*6-,'620'=1;-.' ..*/ '1;,' 2' 6//',)6,')*' .6 .% () .' .',)*'>)6-?'1 ').'' D.*-+6, 12.% : .' ' 1,*. I',)1;5)' 1 ,*2' +6/;6D/*' >1;/0' 21,' D*' *L^ =*>,*0',1'=1..*..' ,)*') 5)*.',=) /1/15 >6/'?*-.,% -% 100- 05*')60' 21,' ,)*' , ?*' ,)*' ,-6 2 25' 21-' ,)*' ?*62.' ,1' ;-2 .)' 6' ,)1-1;5)' '>1?2*2,6- '12' ,)*' (% ()*'=6-6=)-6.*' .'0 ;.*'1 ,*2' 2**0/*..'/ .1T > ->; ,1;.' 2'*L=-*.. 12'8)*2',)*' .,-6 5), 1-86-0' . ?=/>, '620',*-.*2*..' 1 ',)*' 1- 5 26/' 81;/0' D*' 6-' D*,,*-% ,' .'=-11''*21;5)'1',)*' >1?=6-6, +*'620'6D^ .1/;,*' 81-,)' 1',)*' D.*-+6, 12.',)6,',)*E'6-*' ?1-* 620'?1-*'-*60'6,' 6? /E'0*+1, 12'620' 2'=- +6,*'-*60^ 25',1',)*'*L>/;. 12' 1'1,)*-'=6-,.'620' 2' =-* *-*2>*' ,1'1,)*-'>1?2*2,6,1-.% 4110'.*2.*'86-?'= *, ' /18^ 25' *6.*' 1 '*L=-*.. 12'620'6')6== ' *L) D , 12' 620' ?=-1+*?*2,'1 ') .',*L, '?6-9',)*' D.*-+6, 12.'620' -*>1?2*20',)*?',1',)*')- ., 62'-*60*-J' I % " 9 ' ') /6% ;==/*?*2,X% .' 6'0 + 2** 8 ,)' 6//') .' ?62 1/0' *L>*//*2> *.' 100- 05*')60' 2* ,)*-'6'0**=' ,)*1/15 >6/ 2,*-*.,'21-'6'.,-*2;1;.',)*^ 1/15 >6/ ? 20% :*' 0 0' 21,'6/86 .' >12>*+*' 1 '2 >*' 0 ., 2>, 12.' >/*6-/E T)*' 0 0' 21,'+6/;*',)*?') 5)/A' 8)*2' >12>*+*0% :*2>*')*' /**,',1' 6;,)1-, *.' -*^ > ,*.'>6,6/15;*.'620'D6/62>*.' 1= 2 12.'620'>12, 2;6/^ / ' ./ 0*.' -1?',)*' > *2, >',1',)*').,1- >6/% -1? 12*' *20' 1 ',)*' /*>,;-*.',1',)*' 1,)*-' 8*' /119' 2'+6 2' 1-' 6',)1-1;5)' ?6.,*-/ '620' *L)6;.,+*',-*6,?*2,' 1 '62 '12*',)*1/15 >6/=1 2,% ()*'?*,)10'1',)*' 81-9' .>6->*/ '6//18.' .;>)'6'-*.;/,% 12, 2;6/=*-;.6/' ' 20**0'.;>)'6',)25'8*-*' *20;-6D/*'81;/0'8*',)29' *25*20*-' +6> //6, 12'620'.>*=, > .?% ;>)'.**?.',1')6+*' D**2',)*'* *>,';=12').'.,;0*2,.'8)1')*6-0')?' 6221;2>*' *+ -E' +6-*,A' 1' 1= 2 12' 8 ,)1;'0*>0*0' 620'8*5),'6..*-, 12' 12').'182'=6-,% 4-*6,'/D*-^ 6/ , '620'?/02*..' 6-*' D*6;, ;/* 2',)*-',?*T D;', ,)'.' 21,'8)*2',)*' *2*?' '.'6..6;/,25',)*' >,60*/' 8)>)'86.',-;*'1' 12>12 1-? .',),)*1/15 '6');20-*0 *6-.' 651%%%

DX QT D ; ' D . ' 8) 1 / *' / *' 6 , , * . , * 0 ' ,) *' = * - * > , ' > 1 2 . > * 2 ^ , 1 ; . 2 * . . ' 6 2 0 ' 0 . - * 5 6 - 0 ' 1 ' = * - . 1 2 6 / > 1 2 . * _ ; * 2 > * . ' ; 2 ^ 0 * - ' 8) >) ') *' 8 - 1 , *' 6 2 0 ' 6 > , * 0 J ' I 1 6 "' ¯ % 1 ' Q ' ¼ X I ' 2 ' / * 6 + 2 5 ' L 1 - 0 ') *' - * , - * 0 ' , 1 ' 1 1 9) 6 ? ' * - 9 .) - * ' 6 2 0 ' . 1 1 2 ' 6 , * - ' , 1 ') 1 , , * . D - 1 1 9 * ' 8) * - * ') *' . = * 2 , ' ,) *' - * . , ' 1 ') . ' 0 6 . ¼ : *' = 1 . * . . * 0 ' 6 2 ' * . , 6 , * ' 2 ' - * / 6 2 0 ' D ; , ' 6 / / 1 8 * 0 ' 6 ' - * / 6 , 1 2 ' , 1 ' * 2 ¼ 1 ' ,) *' = - 2 > = 6 / = 6 - , ' 1 ' ,) *' - * 2 , ' 1 2 / ' - * . * - + 2 5 ' 6 ' ? 1 0 * - 6 , *' ? 6 2 , * ^ 2 6 2 > *' 1 - ') ? . * / ¼ : . ' - * / 6 , + *' 6 , ' / * 2 5 ,) ' D * 5 6 2 ' , 1 ' 5 - ; ? D / * ' 6 , ' ,) *' . ; / " A , - 6 > , 1 2 ' * + * 2 ' 1 ' ,) . ' = ,, 6 2 > * ' 6 2 0 ' 1 2 ' ,) 6 , ' 1 0 8 * / / -* . ; ? * 0 ') . ' = - 1 = * - , ' 6 2 0 ' ? 6 - - * 0 ¼ : *' , 1 1 9 ' ,) . ' . , * = ' 2 ') . ' , C . * > 1 2 0 ' * 6 - ' 6 2 0 ' / + * 0 ' , 1 ' . * * ') ? . * / ' ,) *' 6 ,) * - ' 1 ' , * 2 ' >) / 0 - * 2 ¼ ( ) *' 8 1 - 9 . ' 1 - ' 8) >) ') *' . ' 2 1 8 ' >) * / ' - * ? * ? D * - * 0 ' 8 * - *' 6 / . 1 ' 6 / / = - 1 ^ 0 ; > * 0 ' 2 ' ,) *' / 6 , , * - ' = 6 - , ' 1 ') . ' / * ¼ ? 1 2 5 ' ,) * . *' 6 - * ') . ' ' (' % * ' M 2 ¼ O ¼ 1 / ¾ X a ' ' ' ' ' M L 1 2 ¼ S Q R 8 : T $ % ' & ' ' 5 ' ' " ' M 1 2 0 ¼ Q ' Q + 1 8 S T ' ' ' & ' ' " ' ? + ' ? % " 1 ' = ; D / .) * 0 ' 2 ' : ; 0 . 1 2 . ' ? % " ' N ' $ % ' ? ' ' M L 1 2 ¼ S R Q ' N ' 6 2 0 ' K 8 S T & ' - " ' W % " ' M S R S X a ' + ' ? " 5 ' M S R K X T ' 6 2 0 ' & ' N 1 ' 1 ' $ 1 ' M S R Q X I ' ( ) * . *' . * + * - 6 / >) - 1 2 1 / 1 5 > 6 / * . . 6 . ' 8) >) ' 6 - * ' 0 - 6 8 2 ' ; = ' 8 ,) ' 5 - * 6 , ' 6 D / , ') 6 + * ' 6 / / D * * 2 ' - * = * 6 , * 0 / ' - * = - 2 , ^ * 0 ' 1 0 8 * / / . ' = - 2 > = 6 / ' 8 1 - 9 ' . ' > 1 2 . 0 * - * 0 ' , 1 ' D * ') . ' * ' N ' ? ' 5 4 ' 1 ' , " 4 ' ' D ' ' D 6 1 ' " (' ' M L 1 2 ¼ ' , 1 X ¼ : *' 6 / . 1 ' = ; D / .) * 0 ' 2 ' Q + 1 ' 2 ' S ' & ' % ' ' 1 ' % ' ' " ' $ % ' " ' " ' @ " ' " ' " ' $ ' ' ' % ' 9 ' ' D ; ' ? ? 1 - , 6 / [* 0 ' 6 > , ; 6 / / ' D ' ,) *' = / * 6 . ; - *' 1 ' 4 1 0 ' , 1 ' = ; 2 .) ? * 2 , ' 1 - ' , 1 ' - * 8 6 - 0 ' D ' , . ' ; 2 1 2 ' 8 ,) ' ,) *' 0 + 2 *' D 6 = , . ? 6 / . = - , ' 8) * - *' , ' . ' = - 1 + * 0 ' ,) 6 , ' 2 1 2 *') 6 + *' ,) *' = 1 8 * - ' 1 ' 5 + 2 5 ' ,) . ' 0 + 2 *' ? ? 1 - , 6 / [^ 2 5 ' . = - , ' . 2 > *' ,) *' 6 = 1 . , / * . ' D ; , ' 1 2 / ' ,) *' D .) 1 = . ' ,) *' 2 * 8 ' = 1 8 * - ' 1 ' > 1 2 * - - 2 5 ' ? ? 1 - , 6 / , ' - 6 . * 0 ' 2 1 ' . ? 6 / / 1 ; , ^ > - ' 6 5 6 2 . , ') *' 8 - , * - ' 6 2 0 ' . , 6 5 5 * - * 0 ' ? 6 2 ' * ' + * 2 ' 1 ' ,) 1 . *' 8) 1 ') 6 0 ' 2 1 , ' . * * 2 ' 6 2 ' * L , - 6 + 6 5 6 2 > *' 2 ') . ' 1 - ^ ? * - ' = 1 / * ? > 6 / / ; > ; D - 6 , 1 2 . ¼ ' > 1 ; - . *' , ' 5 6 + *' 5 - * 6 , ' 1 * 2 . *' , 1 ' ,) *' . . * 2 , * - . ' 6 / / 1 ' 8) 1 . *' . 1 ; / . ' , ' ; 2 > * - * ^ ? 1 2 1 ; . / ' .) ; , ' 1 ; , ' - 1 ? ' 6 ' ; , ; - *' * L . , * 2 > *' 1 2 ' _ = ' , * - ? . ¼ 1 0 8 * / / 0 * 0 ' 6 , ') 1 , , * . D - 1 1 9 * ' B ; 2 *' ' _ ' J I 6 1 "' % (8 f ** ' (' + ' / + ' " ' ' D ' - 1 9 * . D A ' M 1 2 0 ¼ K N ' K ' + 1 / . ¼ Q + 1 ' K O ' * O ¾ X ¶ == . ' ; % " ' ; ' + ' N K ' . ¾ T / / C ' D 1 2 * ' ' ' ' & " ' ' ' T -? * ' ¯ ' ; 9 ' + 1 / ¼ ' >) ¼ + ¾ 1 * 0 * - / * 2 ' (' . ' ' / ' ' 6 ' > * / * D - 6 , * 0 ' ; ,) * - 6 2 ' ,) * 1 / 1 5 6 2 ' 8 6 . ' D 1 - 2 ' 6 , ' & 2 0) * ? ' 2 ' - 6 2 ^ > 1 2 6 ' B 6 2 ¾ ' K ' 6 2 0 ' . , ; 0 * 0 ' 6 , ' ,) *' $ 2 + * - . , ' 1 ' / , 1 - ' 8) * - *') *' 8 6 . ' 6 = = 1 2 , * 0 ' = - 1 * . . 1 - ' 1 ' ,) * 1 / 1 5 ' 2 ' K ¼ 2 ' Q K ') *' D * > 6 ? *' = - 1 * . . 1 - ' 1 ' ,) * 1 / 1 5 ' 6 , ' B * 2 6 ' 8) * - *') *' 0 * 0 ' * > ¼ K ' R K ¼ : . ' * - ; 0 , 1 2 ' 8 6 . ' . 1 / 0 ' 6 2 0 ' + 6 - 1 ; . ¼ : . ' ? 1 . , ' ? = 1 - , 6 2 , ' 8 1 - 9 . ' 6 - * ' 6 ' ' ' ' ' ' " ' ' ' M Q R ' Q + 1 X a T $ % + ' $ ' ' ! * , > ¼ M Q ' Q + 1 X a ' = ' + ' " ' M /,01 - ' R ' Q + 1 ' S ,) ' * O ¾ X ¶ : . ' ? . > * / / 6 2 * 1 ; . ' 8 - , 2 5 . ' 6 2 0 ' . * - ? 1 2 . ' 6 - *' + * - ' 2 ; ^ ? * - 1 ; . ' 6 2 0 ') *' * 0 , * 0 ' ,) *' - " ' ; " "' - 1 ? ' Q ' , 1 ' RK ¼ : . ' ' - " ' 8 6 . ' 6 ' + * - ' . ; > ^ > * . . ; / D 1 1 9 ¼ 2 ' ,) * 1 / 1 5 A 7 ' 1 * 0 * - / * 2 ' . , 1 1 0 ' 6 , ' ,) *' = 1 2 , ' 1 ' , - 6 2 . , 1 2 ' - 1 ? ' ,) *' 1 / 0 ' 4 * - ? 6 2 ' 1 - ,) 1 0 1 L ' , 1 ' ? 1 0 * ? ' 6 , 1 2 6 / . ? % ' 6 2 , * . ' # ' 5 ' D 9 ¼ ' > D ¼ + ¾ 1 * 5 ' M : * D ¼ ' Z (' ' R ' 6 ? ¼ L L ' ' * = , ¼ & G 8 * ' ¶ - ' &) : ' ' .6 ¼ / ' , ,/ * ¾ * = , ¾ ' T 2 ' ' 6 ? ¼ L L ' Q K K ' ' ' (' 6 , * - ' ,) 0 - 6 2 ' = - 1 2 ; 2 > 6 , 1 2 ' * = , ¾ 6 2 ' 0 1 ? , * ' 6 2 0 ' >) * ' 1 + * - . * * - ' 1 ' 9 2 5 ' 6 ; / . ' / 1 > 9 . ' M B 1 . * =) ; . ' 5 ¾ ' 9 * * = * - ' 1 ' ,) *' 9 2 5 . ' ? ; / * . J ' 8 , ¼ + A ' K X ' 8) >) ' . 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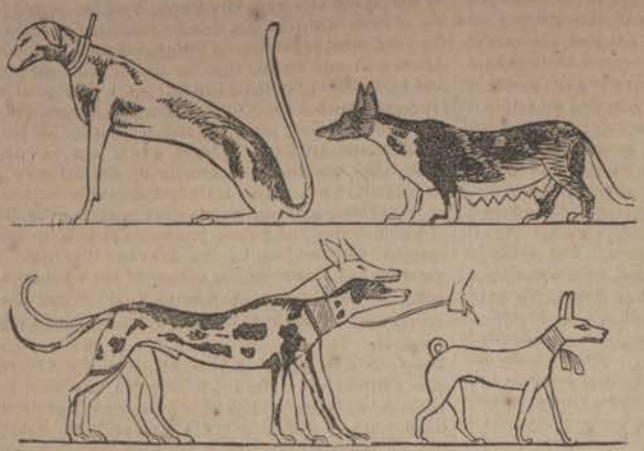
' * L * > ; , * 0 ' 8 ,) ' * _ ; 6 / - * 6 0 2 * . . ' 6 2 0 ' > - ; * / , ' D ' ,) *' 0 1 ? . *' M ' 6 ? ¼ L L ' Q . _ ¾ X ¼ ( ) . ' , - ; > ; / * 2 , ' 6 > , ' > 6 / / * 0 ' 1 - ,) ' 1 2 * ' 1 ' 6 + 0 . ' ? 1 . ; . * * - * ' ? = - * > 6 , + *' = - 6 * - . ' M . 6 ¼ / X ' 1 ' 8) >) ' 0 + 2 * ' 6 2 0 ') ; ? 6 2 ' A ; . , > *' . * * ? ' 6 / 9 * ' , 1 ') 6 + * ' - * _ ; - * 0 ' ,) *' ; / / ? * 2 , ¼ * * ' g + f ' _ ; * . , 1 2 ') 6 . ' 6 - . * 2 ' 1 2 ' ,) *' 2 6 , ; - *' 1 ' ,) *' D ; . 2 * . . ' D ' 8) >) ') *' 8 6 . ' ¬ ' D * 1 - *' ,) *' 1 - O J ' M / , ¾ G H ' Z (P ¾ ($ $ % ' : ; / 5 6 , * ' ' ' " ' 1 f ( ) *' 0 > ; / , ' 8) >) ' / * . ' 2 ' ,) *' 0 * 6 ' ,) 6 , ' 1 * 5 ' 8 6 . ' 6 ' 1 - * 5 2 * - ' 6 2 0 ' . 1 ' 2 > 6 = 6 D / *' 1 ' 6 ' 6 [6 - , *' + 1 8 ' I 1 " f ' N ' L ' ' ; - * 2) ¾ X ') 6 . ' D * * 2 ' * L ^ = / 6 2 * 0 ' D ' ,) *' . ; = = 1 . , 1 2 ') 6 , ') *' 8 6 . ' 6 ' = - 1 . * / , * ' 6 , ^ , * 2 0 2 5 ' ; 2 0 * - ' . 1 ? *' + 1 8 ' 1 - ' . 1 ? *' 6 > , ' 1 ' = ; - > 6 , 1 2 ' 6 , ') *' (6 D * - 2 6 > / *' M > 1 ? = 6 - *' ' 6 ? ¼ L L ' Q X ¼ ( ) * 2 ; . ' >) / ' ' " ' 2 ' / 1 > ¾ X ') 6 . ' > 1 - - * > , * 0 ' 4 * . * > 2 ; . ' 2 , * - = - * , 6 , 1 2 ' > - " ' = ¾ / R X ' 1 ' ,) *' =) - 6 . * ' 6 . ' ? * 6 2 ^ 2 5 ' ' 8 6 . ' ' D * 1 - *' B *) 1 + 6) ¾ J ' =) - * ? ' - ; . ' I , % % - ' Q S X * L = / 6 2 . ' ,) *' , * - ? ' 6 . ' ? * - * / ' 2 0 > 6 , 2 5 ' ,) 6 , ' 1 * 5 ') 6 0 ' 2 , - 1 0 ; > * 0 ') ? . * / ' ,) * - *' . * > - * , / ' 8) * ,) * - ' D ' - 5) , ' 1 - ' 1 ,) * - 8 . * ¼ & ,) ' ,) . ' 6 5 - * * . ' - . , . ' - * 2 0 * - 2 5 ' > # " ! ' D ' = ¼ X ' ,) 6 , ') *') 6 0 ' ' " ' M [; - > 9 D / * D * 2 X ' 6 . ' 6 ' . = ¾ 1 5 ' M K 7 H ' + (2 ' . 1 ' > 6 / / * 0 ' - 1 ? ') . ' : ' - 6 ^ D > ' + : ' 4 - * * 9 ' 8) * 2 > *' 2 5 ¼ " : ' 0 ? 2 ; ^ , + *' ' 1 > > ; - . ' 2 ' 2 ; ? * - 1 ; . ' = 6 . . 6 5 * . ' D 1 ,) ' 1 ' ,) *' / 0 ' 6 2 0 ' ,) *' * 8 ' (* . , 6 ? * 2 , ' M . * *' 1 >) 6 - , ' # / ' ' S R ' . _ ¾ X ¼ 2 ' 6 2 ? 6 / . 1 ' 8 * / / 9 2 1 8 2 ' 8) 1 . *' 2 ; ? * - ^ 1 ; . ' + 6 - * , * . ' > 1 ? *' ; 2 0 * - ' 0 6 / ' 1 D . * - + 6 , 1 2 ' - * _ ; - * . ' 2 1 ' 0 * , 6 / * 0 ' 0 * . > - =, 1 2 ' M . * *' ,) *' % * . ¾ + ¾ X ¼ ( ) * - *' . ') 1 8 * + * - ' 2 ' . 6 ' . , / / * L , 6 2 , ' 1 2 * M = * -) 6 = . ' ? 1 - *' ,) 6 2 ' 1 2 * ' . = * > * . ' ,) 6 , ' 2 * + * - ') 6 + * ' D * * 2 ' ,) *' > 1 ? ^ = 6 2 1 2 . ' 1 ' ? 6 2 ' 6 2 0 ' ,) * - *' 6 - * ' - 6 > * . ' 1 ' ; 2 > * - , 6 2 ' 1 - ^ 5 2 ' ,) 6 , ' ? 6 ') 6 + *' D * * 2 ' 1 - ? * - / ' 0 1 ? * . , > 6 , * 0 ' D ; , ' 8) >) ' 6 - *' 2 1 8 ' * - 6 / ' 6 2 0 ' 6 . ' * - > *' 6 . ' 8 1 / + * . ' ! 8) / * ' 2 ' 6 > > 1 - 0 6 2 > *' 8 ,) ' - * 2 , 6 / ? 1 0 * . ' 1 ' . = * * >) ' ,) * - *' 6 - *' 1 ,) * - . ' * L > * * 0 2 5 / ' 2 ; ? * - 1 ; . ' 2 * ,) * - ' 8 / 0 ' 2 1 - ' 0 1 ? * . , > 6 , * 0 ' D ; , ' * L . , 2 5 ' 2 ' 6 / / ,) *' > , * . ' 6 2 0 ' , 1 8 2 . ' 1 ' ,) *' + * 6 2 , ' 8 ,) 1 ; ' 1 8 2 * - . ' 3 * * 0 2 5 ' 1 2 ' > 6 - - 1 2 ' 6 2 0 ' 1 6 / ' 6 2 0 ' . , / /) 6 + 2 5 ' ,) *' , - ; - *' 2 . , 2 > , ' 1 ' = - 1 , * > , ^ 2 5 ' = - 1 = * - , ' 5 ; 6 - 0 2 5 ' ,) *' 2) 6 D , 6 2 , . ' 1 ' ,) *' 0 . , - > , ' 1 - ' _ ; 6 - , * - ' 8) * - *' ,) * ' 6 - *' , 1 / * - 6 , * 0 ' 6 2 0 ' . 1 ' 6 - ' >) * + ' .) = 0 ' ,) 6 , ' 8 6 , * - ' 6 2 0 ' . 1 ? *' D 1 0 ' 6 - *' 2 1 , ' ; 2 ; . ; 6 / / ' = / 6 > * 0 ' 8 ,) 2 ' ,) * - ' - * 6 >) ' M . * *' B 6 - 0 2 * . ' 7 (N * (G (1 ' L X ¼ ( ) *' , - ; *' 8 / 0 ¾ . = * > * . ' 1 ' $ = = * - ' 6 2 0 6 . , * - 2 ' . 6 ' . ' 6 ' / 1 8 ' .) 6 - = C 2 1 . * 0 ' - * 0 0 .) ' > ; - C O 1 5 ' 2 1 , ' ; 2 / 9 * ' 6 ' 1 L ' D ; ' , 8 ,) ' / * . . ' , 6 / ¼ 2 ' * - . 6 ' 6 2 0 ' (; - 9 * ' ,) * - *' * L . , . ' 6 ' / 6 - 5 * - ' O 1 5 ' - * . * ? D / 2 5 ' 6 ' 8 1 / ' * L > * * 0 2 5 / ' . 6 + 6 5 * ¼ 1 ,) ' 6 - *' 5 - * 5 6 - 1 ; . ') ; 2 , ' 2 ' = 6 > 9 . ' D ; , ' 6 - > ' 1 > > 6 . 1 2 6 / / ' . * * 2 ' 6 / 1 2 * ¼ ( ) * ' 6 - * ' - * 6 0 / ' 0 . , 2 5 ; .) * 0 ' - 1 ? ' 6 ' 8 1 / ' D ' ,) * - ' .) 1 - , * - ' ; 2 ^ ; - 2 .) * 0 ' , 6 / . ¼ 2 ' ,) *' , ? *' 1 ' ,) *' . 1 A 1 ; - 2 2 5 ' 1 ' . ' - 6 * / 2 ' 5 = , ' ,) * - *' 8 * - *' 6 / - * 6 0 ' 2 ' * L . , * 2 > *' 0 1 A * . C ' , >' O 1 5 . ' 1 ' ,) *' = - 2 > = 6 / * - 6 > * . ' 2 1 8 ' * L , 6 2 , ' ' ,) *' > ; - C ' 0 1 5 ' 1 - ' 1 L C O 1 5 ' ,) *') 1 ; 2 0 ' ,) *' 5 - *) 1 ; 2 0 ' 6 2 0 ' * + * 2 ' 6 ' 9 2 0 ' 1 ' / 1 8 C / * 5 5 * 0 ' , ; - 2 . = , ' M & / 9 2 . 1 2 ' & ' 6 %



Ancient Egyptian Dogs.

abridgm. i, 230). All the above, both wild and reclaimed, there is every reason to believe, were known to the Hebrews (see Mishna, *Baba Kamma*, vii, 7), and although the Mosaic prohibition is presumed, yet anterior habits, and, in some measure, the necessity of their condition, must have caused cattle-dogs to be retained as property (Deut. xxiii, 18), for we find one of that race, or a house-dog, actually attending on travellers (Tobit v, 16; xi, 4). It is to be presumed that practically the street-dogs alone were considered as absolutely unclean; though all, as is the case among Mohammedans, were excluded from familiarity. (See Berjeau, *Dogs on Old Sculptures*, etc. Lond. 1863.) In Egypt, anterior to the Christian æra, domestic dogs were venerated. See NIBHAZ. They continued to be cherished till the Arabian conquest, when they, like the unowned street-dogs, fell under the imprecation of Mohammed, who with reluctance, though with good policy, modified his denunciations and sentence of destruction in favor of hunting-dogs, and even permitted game killed by them to be eaten, provided they had not devoured any portion of it (comp. Exod. xxii, 31). The words of the Lord Jesus to the Syrophœnician woman, and her answer (Matt. xv, 26, 27), certainly imply a domestication and domiciliation of dogs; but simple toleration of their presence is all that can be gathered. They lived on what they could get. Among the Moors of North Africa a similar position of the dog is occasionally seen. They "grant him, indeed, a corner of their tent, but this is all; they never caress him, never *throw him anything to eat*" (Poiret's *Barbary*, i, 253). Besides the cattle-dog, the Egyptian hound, and one or two varieties of greyhound, were most likely used for hunting—a pastime, however, which the Hebrews mostly pursued on foot. On the Assyrian monuments they are depicted in hunting

Ancient Assyrian Hunting-dogs.—From a Slab in the British Museum.

scenes. The street-dog, without master, apparently derived from the rufous-cur, and in Egypt partaking of the mongrel greyhound, often more or less bare, with a mangy, unctuous skin, frequently with several teeth wanting, was, as it now is, considered a defiling animal. It is to animals of this class, which no doubt followed the camp of Israel, and hung on its skirts, that allusion is more particularly made in Exod. xxii, 31, for the same custom exists at this day, and the race of street-dogs still retains their ancient habits (Prosp. Alpin. *Rer. Ægypt.* iv, 8, p. 230 sq.; Russel, *Aleppo*, ii, 55; Rosenmüller, *Morgen.* iv, 76). A portion of the Cairo packs annually become *hajis*, and go and return with the caravan to Mecca, while others come from Damascus, acting in the same manner; and it is known that the pilgrims from the banks of the Indus are similarly attended to Kerbela: indeed, every caravan is so, more or less, by these poor animals. But with regard to the dogs that devoured Jezebel, and licked up Ahab's blood (1 Kings xxi, 23), they may have been of the wild races, a species of which is reported to have particularly infested the banks of the Kishon and the district of Jezreel. In illustration of this shocking end of Jezebel, it may be remarked that the more than half-wild street-dogs of the East, living upon their own resources, and without owners, soon make rapid clearance of the flesh of dead bodies left exposed, whether of human creatures or beasts (Bruce, *Trav.* iv, 81). Among other instances, it is recorded that a number of Indian pilgrims were drowned by the sinking of a ferry-boat in which they were crossing a river. Two days afterwards a spectator relates: "On my approaching several of these sad vestiges of mortality, I perceived that the flesh had been completely devoured from the bones by the Pariah dogs, vultures, and other obscene animals. The only portion of the several corpses I noticed that remained entire and untouched were *the bottoms of the feet and insides of the hands*, a circumstance that may afford a corroborative proof of the rooted antipathy the dog has to prey upon the human hands and feet. Why such should be the case remains a mystery" (Kitto's *Daily Illust.* in loc.). Stanley (*S. and P.* p. 350) states that he saw on the very site of Jezreel the descendants of the dogs that devoured Jezebel, prowling on the mounds without the walls for offal and carrion thrown out to them to consume; and Wood, in his Journal to the source of the Oxus, complains that the dog has not yet arrived at his natural position in the social state (compare Strabo, xvii, 821; Burckhardt, *Trav.* ii, 870). The dog was employed, however, in sacrifice by some ancient nations (Pausan. iii, 14, 9; Arnob. iv, 25; Julian, *Orat.* v, p. 176; Pliny, xviii, 69; comp. Saubert, *De sacrific.* c. 28, p. 518 sq.), and was even sometimes eaten (Plutarch, *De sollert. animal.* c. 2; Justin. xix, 1). The cities of the East are still greatly disturbed in the night by the howlings of

Eastern Street or Bazaar Dogs.

.,-**,C015. ' 8)1 ' ,' .**?. ' 8*-*' . ? /6-/ '21 . ' 2' 62^ > *2,' , ?*. ' ,)*' 6>,' D* 25' 21, >*0' 2' .6%' / L ' 4' T' 620' 0; ?D' 1-' . /*2,' 015.' 6-*' 21,' ;2 -*_ ;*2,/ ' .**2' . ;>)' 6.' .6 6)' 6//;0*.',1'M + ' X% ( )*' .6?*' =6..65*')6.' -* *-*2>*' ,1' ,)*' =*>;/ 6-/ ' , ;/ ./**=' 1 ',)*' 015' 620') .' . ;00*2' .,6-,' 6.' '0;- 25' 6' 0-*6?' M.**' B%' 4% W/ >)6*/ . ' , '$!' ' '._%X% 7

( )*' 015' 86. ' ; .*0' D ' ,)*' : *D-*8 . ' 6.' 6' 86,>)' 1-' ,)*' -')1;.*.'M .6% + ' T' >1?=%W[6>V'LL ' NT' , 1 !' L+ ' N RX' 620' 1-' 5;6-0 25',)* -' /1>9.' MW/1D' LLL ' T' >1?=% V?0'd ' QNT' L N KT' 6--1 7% H% RT' 1/;?% + ' KT' .**' ()1?.12' ' ';+' 'N X% ()*2' 6/.1'6.' 218',-11=.'1 ');25- '620'.*? C8 /0'015.' ;.*0' ,1' +*20*-'6D1;',)*' */0.' 620'.,-**,.' 1 ',)*' > , *. ' 0*^ +1;-25' 0*60' D10 *.' 620' 1,)*-' 1 6/'M ' 25.' L + ' T L+ ' T' LL ' R' KNT' LL ' NQT' K' 25.' L ' N4T' B*-% d ' NT' .6% / L ' S X' 620',) ;.' D*>6?*' .;>)' 1DA*>,.' 1 ' 0 ./ 9*' M>1?=% : 6--26-' ' RQ' ._%T' : 1.,' 7 " !' !' 4 +* '=% KR T' B1/ *' =% NK X',)6,' *->*' 620' >-;*/ % *2*? *.' 6-*' =1*, >6//E' ., /*0' 015.' 2' .6% LL ' 'K' M.** B*-% L+ ' NT' >1?=% B1.*=) % L+ ' T' : 1?*-' VV% L+ 'K T' LL 'NN X% <1-*1+*-',)*' 015 'D* 25' 62' ;2>/62' 62 ?6/'M .6% L+ 'NT' <6,,'+ ' T' >1?=% : 1-^ 6>*' 6%!' 'K' KSX' 6.' ., /!' 2',)*' 6.,' M -+ *;L' ' QRT' : 6..*/_ ;.,'=% RX' 620'=-1+*-D 6// ' /,) ' 2' ,.' 110' M -1+% LL+ ' T' K' *,% 'KKX',)*',*--6.' ' ' ' * ('" '8*-*' ;.*0' 6.',*-?.' 1 '-*=-16>)' 1-' 1 ') ; ? /^ , ' 2' .=*69 25' 1 '12*.' .*/ 'M ' 7 % LL + ' T' K 6?% ' T' L' T' L+ 'RT' K' 25.' + ' NX% 21L' -*/6,*.' 6' .,1- ' 1 '6' 21D/*?62' 1 ' * /12' 8)1 'D* 25' 6.9*0' D ' ,)*' 9 25')18' ?62 ' >) /0-*'2')*')60' -*>*' *0' 1;-' ?6A*., .' 015')6.' ,)-*'' =;== *.%J' ()-1;5)1;,',)*' 8)1/*' 6.,' 015J' .' 6',*-?' 1 ' -*=-16>)' 1-' ?=;-*' 620' =-1 62*' =*-.12. ' 620' 2',) .' .*2.*' .' ;.*0' D ',)*' B*8.' -*.=*>, 25',)*' 4*2, /*.' M *+% L T' >1?=6=*' >)1,,5*2 ' # " ' X' 620' D ' <1)6?*062.' -*.=*>, 25')- ., 62.' M& *.,.* 2 ' K T' K X% ()*' 862,12' 26,;-*' 1 ',)*' 015' .' 621,)*-' 1 ' ,.' >)6-6>,*- .^ , >. ' 620' ,)*-*' >62' D*' 21' 01;D,',)6,' 2' >;,% LL ' Q ?*62.' 6' ?6/*' =-1., ,;,*' M %_% >>/;.' LL+ 'K ' +(' " ' ' ' WPM:*. >)% >;+>';L6,, -X% & *.,//';.*',)*' 26?*' 1 '12*' 1 ',)*' 21D/*.,'>-*6,;-*.' 2',)*' 81-/0'6.' 6' ,*-?' 1 '>12,*?=,'M>1?=% ,)72% + 'K X% (1'6.9' 62' $[D*9',1' .*//) .' 8 *' 81;/0' D*' 21' 6 -12,'D;',,1' 6.9') ?',1' .*//) .' 015' 62' ;2=6-0126D/*' 2.;/, ' $ =' "' 1-' 015C.*//*-'D* 25',)*' ?1.,'1 *2. +*'*=,)*,',)6,' 12*' $[D*9'>62'6==/ ',1' 621,)*-% ()*' 600 , 12' 1 ',)*' 6-, >/*' M-1,*')N % ' <6,,' L+' KST' <6-9'+ 'K X' ?^ =/ *.',)6,',)*' =-*.*2>*' 1 '015.' 86.' 62' 1-0 26- ' *6,;-*' 1 ' 6..,*-2' / *' 2' 1;-' 6+ 1;-.',?*% &)*2')- .,' .6 .' 2' <6,,' L+' KS' ' ,' .' 21,' ?**,',1',69*',)*' >) /^ 0-*2 .' D-*60' 620' >6.,' ,',1',)*' 015. J' D ',)*' >) /0-*2' 6-*' ?*62',)*' B*8 .' D ',)*' 015. ',)*' 4*2, /.% 2' ,)*' 6DD 2 >6/' 8-, 25.',)*' _;*.,12' .' =;,' &)6, 01*.' 6' 015' ?*62HJ' 620',)*' 62.8*-' .' 2*' 8)1' .' , 2> ->;?> .*0%J' ()*' 015' 620',)*' .18'6->' ?*2, 12*0' ,15*,)*-' 2' .6% L+' NT' <6,,'+ ' T' K *,% 'KK' 6.' D* 25' 6/ />*' ?=;-*' 620';26>>*=,6D/*% 6;/>6//.',)*' 6/.*' 6=1.,/*.' 015.' 12' 6>>1;2,' 1 ',)*-' ?=;-,' 620' /1+*' 1' 56 2' M) /' 'KT' .**' ?12') $O 1 ' ' ?6/>6/>/' X% ()1.*' 8)1' 6->' .) ;,' 1 ;,' 1 ',)*' 9 2501?' 1 ')*6+*2' 6->' >6//*0' 015. ' .1->*-^ *-.' *,>% M *+% LL ' X' 8)*-*',)*' 81-0' .' 6=/ *0',1' 6// 9 20.' 1 '+ /*'=*-.12.' 6.',' .',1' 6' =6-, >;/6-' >/6..' 2' *;,% LL ' Q% M **' & *? ...' $!' ' !8

15?6'M4-% 11 V66X' 6' 01>,-2*' -*>* +*0' 6.' 62' 6-^ , >/*' 1' 6,)% % 2',)*' >-=,;-*.',)*' 4-**9' 81-0' ')6.' 218)*-*',)*' ?*62 25' 1' 01>,-2*% 2' =)1.% ' 620' 1/% ' ',' 0*21,*.' B*8 .)' 1-0^ 262>*.% 2' 1,)*-'=6..65*.' M ;97' T' >,.' L+ ' T L+ ' X' ,' 0*. 526,*.' ,)*' 0*>-**.' 1Y 1?62' *?=*-^ 1-.% % ( ) .' ,*-?' .' ;.*0' D ' .1?*' 1 ',)1' *6-/ *.,' 8-.*-.' 1 ',)*')- ., 62' 01>,-2*' 1 ',)*')- ., 62' 01>,-2*.% ( ) ; .' D 526, ; .' 2',)*' *= ../*' ,1',)*' <652*. 62.' M>)6=' L X' ,)*')- ., 62' 01>,-2*.' 6-*' >6//*0' ' ' > ' -,8N !H I-[E GN' 620' D ' -5*2' I ' (+',1?% L ' g' KNX' " '1 !' 2' .' 81-9' 656 2.,' */.;.' I ' :' >% NRX')*' >6//.',)*' 8)1/*' 1',)*')- ., 62' 01>,-2*.' ' $ ' 620',)*' 6=1../*.' I-) O '-,N ,- J ()*' *>>/*. 6.,>6/ 8-.,*-.' 1',)*' KO' 620' NO% >*2,;-*.' 6/.1' 6==/ *0',' ,1',)*' ,*2*,.' 1' =) /1.1=) >6/.>)11/.% ;',)*' ?*62 25' " ' 9 ' >6?*' ,1' D*',)*' >1?212' ;.*' 1',)*' 81-0' 2',)*' ,)*1/15 >6/ 620' *>>/*. 6.,>6/ /625;65*' 1',)*' 4-**9' 620' 6, 2' 8-,*-.' 620' -1?',)*' 6, 2',')6.' =6..*0' 2,1' ?1.,'1',)*' ?10*?'/625;65*.T*.=*> 6// ',)1.*' 1' 1?62' 6,)1/>'>1;2,-*.% 2' 25/.)',)*' 81-0' ' 9 ' 2',) .',)*1/15 >6/ .*2.*' .' 12/A' 1',/6,*' >1? 25' ?;>)' 2';.*'D;,' ' ')6.' 5*2*-6// 'D**2' ;.*0' 2^ .,*60' 1',% 15?6, >'()*1/15 'M 6,% >1V_76' ' :' 4*-?% ') ' -" ' ' +8' .' 6' .=*> 6/ D-62>)' 1',)*1/15 ',)*' 1DA*>,'1'8) >)' .',1'=-*.*2,'6' .> *2, >'620'>122*>,*0'+*8'1',)*' 6>>*=.,*0' 01>,-2*.' 1',)*')- ., 62' 6 ,)% 2' 25/.)',)*1/15 ',)*' 26?*')6.' 21,'>1?*' 2,1' 5*2*-6/';.*'D;,' 015?6, >.' 6-*' 2^ >/;0*0' 2' .,*?6, >' ()*1/15 % 2' 4*-?62 ' ,' D*^ >6?*' >1?2?12'=6-, >;/6-/ '6 ,.*-' 6?*;.' 620' 6/%7' ,1' .*=6-6,*' .,*?6, >',)*1/15 ' 2,1' 015?6, >.' 620' *,) >.' 620',) .'6--625*?*2.*' .' 218' 5*2*-6// '601=,*0%3 2',)*' 1//18 25' 6-, >/*' 8*' .=*69' 1 ' 15?6, >' ()*^ 1/15 J' 8 ,)' .=*> 6/-* *-*2>*',1' ,.' >;/, +6, 12' 2' 4*-^ ?62 ' 620',1' ,.' =/6>*' 2',)*',)*1/15 >6/ ,*-6,;-*' 1' 4*-?62 '-*.*-+ 25',)*' 25/.)'/ ,*-6,;-*' 12',)*' .;D^ A*>,' 1-',)*' 6-, >/*' '()*1/15 %J % '$ % ' ' ' !=1-" ' ;2>, 12.' 1' 015?6, >',)*1/15 '6-*',81 1/0% -.,',1'*.,6D/.)' 8)6, 12.,;,;,*.' 6' 01>,-2*' 1',)*' .1;->*.' -1?' 8>)' 015?6, >',)*1/15 ')6.',1'0*-+*' ,.' DD *'?6,*-6/'620' 1',)1'+6/;*' 1',)*' 01>,-2*.' .)182',1'D*' 6-, >/*.' 1',)*')- ., 62' 6 ,)% ()*.*' + *8.' 8*' ?6 '>6/',)*' +62^ 5*/>6/',)1' 1?62' 6,)1/>'620',)*' 6, 126/., >% % -1?',)*' .,620C=1 2,' 1'62' +625*/>6/',)*1/1^ 5 62',)*' D/*' 6/12*' .'-*>152 .*0' 6.',)*'-;/*' 1' 6,) 620' 6.',)*' .1;->*' -1?' 8)>)' 8*')6+*',1' 0*-+1' 1;-*/ 5 1;.' D*/*.' ()*' +625*/>6/ 015?6, >',)*1/1^ 5 62' =-*.;==1.*.',)*' 0+2*' 2.=-6, 12' 1',)*' D/*' 8)>)' 621,)*-'.=*>6/ D-62>)' 1' ..*?6, >',)*1/15 ' =1/15*, >.' M 2' 25/.)' /.*-6,;-*' >1?? 12/ ' >6//*0' + 0*2>*.X')6.',1' 0*?12.,-6,*% :*' 01.',)*' 2',;*' 2,1' 6' ? 2;,*' 2,*-=-*,6, 12' 1',)*' ,-;*' .*2.*' 1',)*' 81-0' 1',)1' D/*' 8)>)' .',)*' =-1=*-' ;2>, 12' 1'*L>C' 5*, >6/,)*1/15 'D;,') .'6 ?' .'D '>1?D 2 25' 6// 8)>)' ,)*' >-=,;-*.',*6>)' 12' 12*' =6-, >;/6-' .;DA*>,',1' *.^ ,6D/.)' 6' 01>,-2*' 1',)*' D/*' ?125',)1.*' 8)1' 6>>*=,',)*' D/*' 6.',)*' 2.=-*0' 81-0' 1' 410' 620' 6.' ,)*' 12/' -;/*' 1' 6,)',)*-*')6.' D**2' -1?',)*' D*5 2^ 2 25' 1',)*')- ., 62');->)' 6' 8 0*' 0 *-*2>*' 1 '1=2^ 12' 6.',1',)*' ?*62 25' 1' ?62 '=6..65*.' 1',)*' D/1C' 81-0% ();.'0 *-*2',)*1/15 >6/ =6-, *.')6+*' 6-.*2' 2',)*')- ., 62' 01>,-2*' 1',)*')- ., 62' 01>,-2*.% ( ) ; .' D 526, ; .' 2',)*' *= ../*' ,1',)*' <652*. 62.' M>)6=' L X' ,)*')- ., 62' 01>,-2*.' 6-*' >6//*0' ' ' > ' -,8N !H I-[E GN' 620' D ' -5*2' I ' (+',1?% L ' g' KNX' " '1 !' 2' .' 81-9' 656 2.,' */.;.' I ' :' >% NRX')*' >6//.',)*' 8)1/*' 1',)*')- ., 62' 01>,-2*.' ' $ ' 620',)*' 6=1../*.' I-) O '-,N ,- J ()*' *>>/*. 6.,>6/ 8-.,*-.' 1',)*' KO' 620' NO% >*2,;-*.' 6/.1' 6==/ *0',' ,1',)*' ,*2*,.' 1' =) /1.1=) >6/.>)11/.% ;',)*' ?*62 25' " ' 9 ' >6?*' ,1' D*',)*' >1?212' ;.*' 1',)*' 81-0' 2',)*' ,)*1/15 >6/ 620' *>>/*. 6.,>6/ /625;65*' 1',)*' 4-**9' 620' 6, 2' 8-,*-.' 620' -1?',)*' 6, 2',')6.' =6..*0' 2,1' ?1.,'1',)*' ?10*?'/625;65*.T*.=*> 6// ',)1.*' 1' 1?62' 6,)1/>'>1;2,-*.% 2' 25/.)',)*' 81-0' ' 9 ' 2',) .',)*1/15 >6/ .*2.*' .' 12/A' 1',/6,*' >1? 25' ?;>)' 2';.*'D;,' ' ')6.' 5*2*-6// 'D**2' ;.*0' 2^ .,*60' 1',% 15?6, >'()*1/15 'M 6,% >1V_76' ' :' 4*-?% ') ' -" ' ' +8' .' 6' .=*> 6/ D-62>)' 1',)*1/15 ',)*' 1DA*>,'1'8) >)' .',1'=-*.*2,'6' .> *2, >'620'>122*>,*0'+*8'1',)*' 6>>*=.,*0' 01>,-2*.' 1',)*')- ., 62' 6 ,)% 2' 25/.)',)*1/15 ',)*' 26?*')6.' 21,'>1?*' 2,1' 5*2*-6/';.*'D;,' 015?6, >.' 6-*' 2^ >/;0*0' 2' .,*?6, >' ()*1/15 % 2' 4*-?62 ' ,' D*^ >6?*' >1?2?12'=6-, >;/6-/ '6 ,.*-' 6?*;.' 620' 6/%7' ,1' .*=6-6,*' .,*?6, >',)*1/15 ' 2,1' 015?6, >.' 620' *,) >.' 620',) .'6--625*?*2.*' .' 218' 5*2*-6// '601=,*0%3 2',)*' 1//18 25' 6-, >/*' 8*' .=*69' 1 ' 15?6, >' ()*^ 1/15 J' 8 ,)' .=*> 6/-* *-*2>*',1' ,.' >;/, +6, 12' 2' 4*-^ ?62 ' 620',1' ,.' =/6>*' 2',)*',)*1/15 >6/ ,*-6,;-*' 1' 4*-?62 '-*.*-+ 25',)*' 25/.)'/ ,*-6,;-*' 12',)*' .;D^ A*>,' 1-',)*' 6-, >/*' '()*1/15 %J % '$ % ' ' ' !=1-" ' ;2>, 12.' 1' 015?6, >',)*1/15 '6-*',81 1/0% -.,',1'*.,6D/.)' 8)6, 12.,;,;,*.' 6' 01>,-2*' 1',)*' .1;->*.' -1?' 8>)' 015?6, >',)*1/15 ')6.',1'0*-+*' ,.' DD *'?6,*-6/'620' 1',)1'+6/;*' 1',)*' 01>,-2*.' .)182',1'D*' 6-, >/*.' 1',)*')- ., 62' 6 ,)% ()*.*' + *8.' 8*' ?6 '>6/',)*' +62^ 5*/>6/',)1' 1?62' 6,)1/>'620',)*' 6, 126/., >% % -1?',)*' .,620C=1 2,' 1'62' +625*/>6/',)*1/1^ 5 62',)*' D/*' 6/12*' .'-*>152 .*0' 6.',)*' -;/*' 1' 6,) 620' 6.',)*' .1;->*' -1?' 8)>)' 8*')6+*',1' 0*-+1' 1;-*/ 5 1;.' D*/*.' ()*' +625*/>6/ 015?6, >',)*1/1^ 5 62' =-*.;==1.*.',)*' 0+2*' 2.=-6, 12' 1',)*' D/*' 8)>)' 621,)*-'.=*>6/ D-62>)' 1' ..*?6, >',)*1/15 ' =1/15*, >.' M 2' 25/.)' /.*-6,;-*' >1?? 12/ ' >6//*0' + 0*2>*.X')6.',1' 0*?12.,-6,*% :*' 01.',)*' 2',;*' 2,1' 6' ? 2;,*' 2,*-=-*,6, 12' 1',)*' ,-;*' .*2.*' 1',)*' 81-0' 1',)1' D/*' 8)>)' .',)*' =-1=*-' ;2>, 12' 1'*L>C' 5*, >6/,)*1/15 'D;,') .'6 ?' .'D '>1?D 2 25' 6// 8)>)' ,)*' >-=,;-*.',*6>)' 12' 12*' =6-, >;/6-' .;DA*>,',1' *.^ ,6D/.)' 6' 01>,-2*' 1',)*' D/*' ?125',)1.*' 8)1' 6>>*=,',)*' D/*' 6.',)*' 2.=-*0' 81-0' 1' 410' 620' 6.' ,)*' 12/' -;/*' 1' 6,)',)*-*')6.' D**2' -1?',)*' D*5 2^ 2 25' 1',)*')- ., 62');->)' 6' 8 0*' 0 *-*2>*' 1 '1=2^ 12' 6.',1',)*' ?*62 25' 1' ?62 '=6..65*.' 1',)*' D/1C' 81-0% ();.'0 *-*2',)*1/15 >6/ =6-, *.')6+*' 6-.*2' 2',)*')- ., 62' 01>,-2*' 1',)*')- ., 62' 01>,-2*.% ( ) ; .' D 526, ; .' 2',)*' *= ../*' ,1',)*' <652*. 62.' M>)6=' L X' ,)*')- ., 62' 01>,-2*.' 6-*' >6//*0' ' ' > ' -,8N !H I-[E GN' 620' D ' -5*2' I ' (+',1?% L ' g' KNX' " '1 !' 2' .' 81-9' 656 2.,' */.;.' I ' :' >% NRX')*' >6//.',)*' 8)1/*' 1',)*')- ., 62' 01>,-2*.' ' $ ' 620',)*' 6=1../*.' I-) O '-,N ,- J ()*' *>>/*. 6.,>6/ 8-.,*-.' 1',)*' KO' 620' NO% >*2,;-*.' 6/.1' 6==/ *0',' ,1',)*' ,*2*,.' 1' =) /1.1=) >6/.>)11/.% ;',)*' ?*62 25' " ' 9 ' >6?*' ,1' D*',)*' >1?212' ;.*' 1',)*' 81-0' 2',)*' ,)*1/15 >6/ 620' *>>/*. 6.,>6/ /625;65*' 1',)*' 4-**9' 620' 6, 2' 8-,*-.' 620' -1?',)*' 6, 2',')6.' =6..*0' 2,1' ?1.,'1',)*' ?10*?'/625;65*.T*.=*> 6// ',)1.*' 1' 1?62' 6,)1/>'>1;2,-*.% 2' 25/.)',)*' 81-0' ' 9 ' 2',) .',)*1/15 >6/ .*2.*' .' 12/A' 1',/6,*' >1? 25' ?;>)' 2';.*'D;,' ' ')6.' 5*2*-6// 'D**2' ;.*0' 2^ .,*60' 1',%

-*.=*>,'8>' ,) 29' >)/* *-?6>)*-' .'>1--*>,'I ' " ' ' D '$ 1' 'RgX' 2' ..,6, 25',)6,' 015?6, >' ,)*1/15 ' D*' 8- ,,*2' -1?' ,)*' =1 2,' 1 '+ *8' 1 '.1?*') ;->)' 12 *.. 12 ' 8) /*' .' *2, -*/ '8-125' 2' ?69^ 25' ,' 6' D-62>)' 1 ' : .,1- >6/' ()*1/15X% -1,*.,62,' 015?6, >.' ,-*6,. ' 21,' 1 ' 1= 2 12. 'D ; ,' 1 '01>,- 2*.' = * '6.' .;>)' D ',)*' /?->)%

P! ()*' 015?6, >' ,)*1/15 ' 1 ' ,)*' 1?62' 6,)1/ >');->)' -*>152 .*.' D*. 0*.' ,)*' >- =,;-*. ' ,)*' ,-60 ^ , 12' 5 ',)*');->)' 6.' =6-,' 1 ',)*' -;/*' 1 ' 6 ,)% ()*' >- =, , -*.' 6-*' 12/ ' ,1' D*' ;20*-.,110' 2' ,)*' .*2.*' 8) >)',)*');->)' 0*>/6-*.' ,1' D*' ,)*' ,-;*' 12*% ()*' 015?6, >' ,)*1/15 ' 1 ' ,)*' 1?62' 6,)1/ >');->)' >12.*_;*2,/ ' >12,6 2.' 12/ ' ,)1.*' 01>,- 2*.' 8) >)',)6,');->)')6.' 0*>/6-*0' ,1' D*' .;>)% //' 1,)*-' .*56.12X' ,- 2*.',)6,')6+*' 21,'-*>* +*0',) .' 1-?6/' 0* 2 , 12' D ' ,)*');->)')18*+*-' >/*6-/ ',)* ' ?6 ' 6==*6-' ,1' D* 5-1;20*0' 2' ,)*' >- =,;-*.' 1-' 0*?12.,-6,*0' D ',)*\n1/15 >6/ .> *2>*')6+*' 12/ ',)*' +6/;*' 1 ' ,)*1/15 >6/ 1= 2 12J' I " 8!' & ,)' -*56-0',1',)*' D/ ^ >6/' =-11 ' 1-',)*' 01>,- 2*.' 1?62' 6,)1/ >' 8-,*-.' 0 ., 25; .)' D*,8**2' D/ >6/' 620' *>>/*. 6.,>6/' 01>C ,-9 *.',)*' /6,,*-' 1 ' 8) >)' >62' 12/ ' D*' =-1+*0' D ',-6^ 0 , 12% ,)*-' 0 ., 2>, 12.' ?60*' D ',)*?' 6-*d ' 1' " ' ' % ' 620' % 2 ' M ;//E' 0* 2*0X' =;-*' M ' ,)*' >62' 12/ ' D*' 92182' -1?' 0 + 2*' -*+*/6, 12X' 620' ? L*0' M ',)*' >62' 6/.1' D*' 0*?12.,-6,*0' D -*6.12X' 2*>*..6- ' M,)1.*' 6' D*/ * ' 2' 8) >)' .' 0*>/6-*0' ,1' D* 2*>*..6- ' 1-' .6/+6, 12X' 620' ;.* ;/ M8) >)' 6-*' 21,' 2*>*..6- ' 1-' .6/+6, 12X% 3

N% ()*' -.', 6, 126/ ., >' 8-,*-.' 1 ' 015?6, >' ,)*1#66>, >6/',;-2' 2',)*' 81-9.' 1 ' <6.,*-' >96-,' (6;/*-' 15A' 0 0' 21,'-* ;.*' D*/ * ' 2' 62 '01>,- 2*',)* ' 1;20' 2' ,)*' D/*T D;,'0*?620 25',)6,',)*' >12 1-? , '1 '*+*-' D/ >6/' 01>,- 2*' 8 ,)' -*6.12' .)1;/0' D*' 0*?12.,-6,*0' ,)*' ,2,-10;>*0' 6' 2*8' 2,*-=-*.6, 12' 1 ',)*' D/*' *L^ =/6 2 25' 686 ' 6' 2 ;?D*-' 1 '01>,- 2*.' 8) >)' ,);.' 6-')60' D**2' 5*2*-6// '6>>*=,*0' D1,)' D ' +625*/ >6/' 620' 1?62' 6,)1/ >',)*1/15 62.% ;D.*_;*2,' .>)11/.' 1 ' 6, 126/ .?' 0*2 *0',)*' 6;,)*2, > , ' 1 ' ?1.,' 1 ',)*')119.' 1 ',)*' D/*' 620' >12.*_;*2,/ ' -*A*>,*0' 6// 01>^ ,- 2*.' 6.' D/ >6/' 8) >)' >1;/0' 12/ ' D*' =-1+*0' D ',)*' D119.' -*A*>,*0' D ',)*?T 620',)*' 6;,)1- , ' 1 ',)*' /0' (*.,6?*2,' 86.' 0=2 *0' ' f 2',)*' *8' (*.,6?*2,' 6' 0 ., 2>, 12' 86.' 0-682' D*,8**2',)*' 1= 2 12.' 1 ',)*' 6=1./*.' 620',)*' 81-0.' 1 'B*.;.' 620' 2 6// / , '>/6 ?^ *0' 1-',)*' /6,,*-' *L>/;. +*/ % 26// ' .>)11/.' 6-1.*' 8) >)' ?6 2,6 2*0',)*' 6// D / , '1 'B*.;.') ?.*/ ' 620' 8) >)' -*56-0*0',)*' 01>,- 2*.' ,6;5),' 2',)*' D/*' 6.' *2, ,/*0',1' 21' ?1-*' 6;,)1- , ' ,)62' 62 '. .,*?' 1 ');^ ?62' 1= 2 12.% **' !

% # ! ' ()*' D*5 22 25.' 1 ' 6' . .,*?6, >' *L^) D , 12' 1 ')- ., 62' 01>,- 2*' 6-*' .**2' 2',)*' =1.^ ,1/ >' 620',)*' >12*' -**0.% ?125',)*' 8-,*-.' 1 ' ,)*' 62> *2,');->)' - 5*2' 2' .' 81-9' %' =-*.*2,*0',)*' -.,' 1;,/ 2*' 1 '8)6,' ?6 'D*' >6//^ *0' 6' . .,*?' 1 'M015?6, >X',)*1/15A% ?125',)*' (+1-9.' 1 ' ;5;., 2*' ,)*' 1//18 25' 8*-*' 1 '6' . ? /6-' >)6-6>,*-d) " ' ' I ' !' %' ' 81' ' ' " ' ' ' ' ' ' ' ' ' ' ' ' ' " :' ' ' ' ' ' ' ' ' ' ' '

Dominicale, a white veil anciently worn by women at the time of receiving the Eucharist. It has been disputed whether the *dominicale* was not a linen cloth which women, in the sixth century, were in some churches required to take to the Eucharist, and with which they covered the hand before the bread was laid upon it. Augustine may refer to this in one of the sermons usually ascribed to him, *De Tempore*, in which he says that it was customary for men to wash their hands when they communicate, and for women to bring their little linen cloths to receive the body of Christ. In the Council of Auxerre, A.D. 590, a rule was enacted that no woman should receive the Eucharist in her bare hand, but nothing further is prescribed. The best authorities, however, are of opinion that the *dominicale* was a veil for the head.—Farrar, *Eccles. Dictionary*, s. v.; Bingham, *Orig. Eccles.* bk. xv, ch. v, § 7.

Dominical Letter, the letter in our almanacs which marks the Lord's Day (*Dies Domini*), usually printed in a capital form. In the calendar, the first seven letters of the alphabet are applied to the days of the week, the letter A being always given to the 1st of January, whatsoever that day may be, and the others in succession to the following days. If the year consisted of three hundred and sixty-four days, making an exact number of weeks, no change would ever take place in these letters. Thus, supposing the 1st of January in any given year to be Sunday, all the Sundays would be represented by A; not only in that year, but in all succeeding. There being, however, three hundred and sixty-five days in the year, the first letter is again repeated on the 31st of December, and, consequently, the Dominical, or Sunday letter for the following year will be G. The retrocession of the letters will, for the same reason, continue every year, so as to make F the Dominical letter of the third, etc. If every year were common, the process would continue regularly, and a cycle of seven years would be sufficient to restore the same letters to the same days as before. But the intercalation of a day every bissextile or leap year causes a variation. The leap-year, containing three hundred and sixty-six days, will throw the Dominical letter of the following year back two letters; so that, if the Dominical letter at the beginning of the year be C, the Dominical letter of the next year will be A. This alteration is not effected by dropping a letter altogether, but by changing the Dominical letter at the end of February, where the intercalation takes place. In consequence of this change every fourth year, twenty-eight years must elapse before a complete revolution of the Dominical letter can take place; and it is on this fact that the period of the solar cycle is founded. The rules for finding the Dominical letter for any year are given in the Book of Common Prayer.—Hook, *Ch. Dict.* s. v. See CYCLE.

Dominicans, an order of mendicants founded by Dominic (q. v.) de Guzman about the year 1215. In England they were generally called Black Friars from their garments, in France Jacobins, from the fact that their first French house was in the Rue St. Jacques, at Paris. They called themselves commonly Preaching Friars (*Fratres Prædicatores*), from their office of preaching.

I. *History.*—Dominic projected the order when he was preaching against the Albigenses (q. v.); but the Council of Lateran, in 1215, declared itself against any increase of the monastic orders. Nevertheless Innocent III was prevailed upon to approve of the order on condition that it should assimilate itself as closely as possible to one already in existence. The successor of Innocent, Honorius III, was less reluctant, and confirmed the Dominicans as a new and independent order. It spread rapidly over all Christian countries. In 1221 thirteen of the friars went to England for the purpose of establishing the order, and Stephen Langton, then archbishop of Canterbury, giving his approval, they fixed their first house at Oxford. Their second house was in London. At the time of the dissolution of the monasteries under Henry VIII there were 58 houses in England and Wales. When the

Dominican Monk. 1. Abroad. 2. In-doors.

second general chapter was held, in 1221, at Bologna, 60 convents, belonging to eight provinces, were represented, and a great many friars were sent out to establish new houses. In 1278 the number of their convents amounted to 417. In 1233 the Inquisition (q. v.) was transferred to them by the Pope. This gave them a powerful and pernicious influence in Spain, Portugal, Italy, and France. They showed so much eagerness in hunting up and prosecuting heretics that a popular pun changed the name Dominicans into *Domini canes* (the dogs of the Lord). Although endowed in 1272 with all the privileges of the mendicant orders, they soon gave up begging, and, after being allowed in 1425 to accept donations, they accumulated great wealth. Together with the Franciscans, they became the chief representatives of the theological science of the Middle Ages, occupied a large number of the theological chairs at the universities, and became in most controversies not only the rivals, but also the bitter opponents of the Franciscans. The greatest theologian among them in the Middle Ages was Thomas Aquinas (q. v.), whom they have ever since followed as a standard authority. Among their other celebrities are Albertus Magnus, Eccard, Tauler, Suso, Savonarola, Las Casas, Vincent Ferrier, and Vincent of Beauvais. As theologians, they were mostly Nominalists, Augustinians, and opponents of the Immaculate Conception. In literature in general they have had great influence, as the *Magister sacri palatii* at Rome, in whose hands is the censorship of books, has always been taken from their order. They secured great popular favor not only by their preaching, but by the establishment of an order of tertiarians, open to laymen. The people were also gained by them especially by the spreading of the use of the Rosary (q. v.), which was introduced by them, and which became, in consequence of the many indulgences attached to it by the popes, a very popular form of worship. The Dominicans also belonged to the most zealous laborers in the foreign missions of the Roman Church. Many of their members were sent to the East; and in Armenia, in particular, they succeeded in uniting a great many Armenians with the Roman Church. After the discovery and conquest of America by the Spaniards, the Dominicans protected the natives from being enslaved, but gave, on the other hand, the first impulse to the importation of slaves from Africa. In America, and in the West and East Indies, they surpassed all other

1-0*-.' 2' =18*-'2; ?D*-.'620'->)*.†2' ;-1=*'12',)*'>12,-6- ',)*'-*=;,6, 12'620'2/;*2>*'1',)*'1-0*-'-6= 0/ '0*>/2*0 ()*'>120;>,'1' (*,[*/M_ +' 2' =-*6>) 25',)*'=6=6/ 20;/5*2>*.'D-1;5),' 10;?';=12',)*'8)1/*'1-0*-'620',)*'0*+*/1=?*2,'1',)*'2_;.^, 12' 2' =6 2';20*-',)*'?6265*?*2,'1',)*'1? 2^>62.'6,,6>)*0',1',)*-'26?*'6'.,6 2'8)>)'8 // 2*+*-'D*'D/1,,*0'1;,' 2',)*'>1;2,-*.'8)>)'*?D-6>*0'-1,*.,62, .?',)*'/1.,'1+*-''>12+*2,.'8)/*'2' 1?62' 6,)1/>'>1;2,-*.',)*'8*-*'5*2*-6// '.;=*-C.*0>/'6.'>12*..1-.'6,',)*'>1;-,'620'6.',*6>)*-.'6,',)*';2+*-.,*.'D',)*'B*.;,.' *+*-6/6,,*?=,.',1'-* 122',)*'1-0*-'8*-*'?60*'2',)*' ,)'620'S,)'>*2^,;-*.'D;'/*0'12/',1',)*'*.,6D/.)?*2,'1' '-*1-?*0'>125-*56, 12.' ()*'8)1/*'1-0*-'86.'2*+*-'D-1;5),'D6>9',1',.'1-5 26/. ?=/>, '620'+51-' *',)*'., //>1;2,*0'2',)*' Q,)'>*2,;-A'?1-*',)62' '>12^+*2,.'1'?129.'620'2;2.'2' '=-1+2>*.' '1'8)>)'8*-*'1;,.0*'1' ;-1=*' 2'>12.*_;*2>*'1',)*' -*2>)'*+1/;,12',)*'/1..'6//,)*-'>12+*2,.'2' -62>*'620'*/5 ;?'2*6-/'6//'2'4*-?62'620'?62'2',6/ †620'2',)*'R,)'>*2,;-A7,)*'8*-*'*2, -*/''.;==-*..*0'2' =6 2' 1-,;56/'620' 6-0 2 6' 2' QNK ,/*'*?^=*-1-'1' ;.. 6'.;==-*..*0'2',)*'.1/*'=-1+2>*'1'<1C) /*8'S' 1? 2>62'>12+*2,.' 2' 6,)*-' 6>1-06 -*',)*'1-0*-'-*>* +*0'6'?*?D*-'1'5-*6,'-*=;,6, 12'620'2 /;*2>*'620',)-1;5)')?',)*'1-0*-'86.'-*C*.,6D/.)^*0'2' -62>*'2' Q ' 2' ;.,-6',)*' 1? 2>62.'-*^/;>,62,/',.;D?.,,*0'2' Q Q',1'>*.,6 2'-* 1-?.'8)>)'),)*' 1=*'1-0*-*0',1'D*' 2,-10;>*0' >>1-0 25',1',)*'=-1+.12.'?60*'6//',)*'21+>*.'6-*',1'D*'D1;20',1',)*'62>*2,'-;/*'8)>)'8 // 6/.1'D*'*.,6D/.)*0'2'*+*-.'>12+*2,'6.'.112'6.',8 //')6+*'6'?6A1-,'1'-*122*0'A2129.' ()*'1-0*-'.'12',)*'2>-*6.*'2',)*'$2,*0'.,6,*.'1'1-,)' ?*-.>6'620'2' -62>*'620'*.,6D/.)^*0',.' -.,'>12+*2,'2' -;..6'2'QS ' ()*'1? 2^>62.'*2,*-*0',)*'$2,*0',6,*.'2' NR'D;',)*'-'?.^.12.')6+*'D**2'/*..'*L,*2.+*',)62',)1.*'1',)*' -62^>.>62.'620'B*.;,.' ()*'/-.'D.)1=1'*8' 1-9';9*' 12>62*2')60'D**2'6..,62,'5*2*-6/1',)*'1-^0*-' '5-*6,'6>,+,'2'D*)6/'1',.'.=-*60 25'86.'6,'6'/6,*-'=*-10'0.=/6 *0'D'6,)*-'M/6,*-'D.)1=X*28>9'6'26,+*'1'A 6-0620'8)1'*2,*-*0',)*'21+^, 6,*'6,' 1-2)*?'*/5;?' :*'*.,6D/.)*0',)*'>12^+*2,'1',.' 1.*' =-25 */0' A'8)>)'.'218',)*'21+,6,*'1',)*'1-0*-'2',)*'$2,*0',6,*.'21+ ' ()*'>12.,,;,12'1',)*'1-0*-'86.'601=,*0'6,'6'5*2*-6/>)6=,*-'2' '620'.'2'6//*.^.*2,6/=1 2,.'/9*',)6,'1',)*'1,)*-'?*20>62,'1-0*-.'',)*')*60'1',)*'1-0*-'.'6'5*2*-6/')8)1'.'*/*>,*0'D'6'5*2*-6/>)6=,*-'1-'/*'620'.'6..,*0'2',)*'*L*-^>.*'1')'.'1>*'D'6'2;?D*-'1'* !()*'1-^0*-'.'0+0*0'2,1'=-1+2>*.'6,',)*')*60'1'8)>)'.'6=-1+2>6/')8)1'.'*/*>,*0'6,'6'=-1+2>6/')6=,*-'D',)*'.;=*-1-.'1',)*')1;.*.'8)1'6-*'>6//*0'=-1-.(/*-')6D,'>12..,.'1'6'8),*'56-?*2,'620'.>6=;/6-'8,)'6'8),*'?62,/*'620')110'*20 25'2'6'=1 2,%'$'%'()*'1?2>62.')6+*.,//>12+*2,.2',6/E'M'2',)*'>,'1'1?*'8,)'6D1;,'?*?C3D*-.X'-62>*'M'2'Q4KX'*/5;?':1//620'25/620'-*/620'M6D1;,'?*?D*-.'2'Q NX'; .,-6'MN'>12^+*2,.'8,)'K K'?*?D*-.'2'Q NX'-;..6'M -.,'>12^+*2,'*..6D/.)*0'2'QS X'1/620'M2'Q IG';)1;.*.'8,)'S'?*?D*-.X'=62';..6'(;-9*A'*<*L>1'*2,-6/620'1;,)'?*-.>6'620',)*'$2,*0',6,*.'8)*-*',)*')6+*'`)1;.*.'2'*8'1-9'')1'*2^>12+*2,.'86.'*.,?6,*0'6,'NS')1;.*.'8,)'='?*?^D*-.'?"'"'*E'":'*/1,,'5:'<6/+*20'&',''1'M1?e'SXT'6.,//1'620'1=*['9'$!'''',(''M<60^-0'S K._'+1/.'1/'XT'2,12;.'*2*2..'"'@''M6-.'Q Q+1X''>1?=/*,*'/.,'1'6//,)*'.62.,.'?6-A-.'8-,*-.'*,>'1',)*'1-0*-'.'5+*2'2'&'1?,2\>6,2>'M6-.'S Q._'N+1/.'1X' ()*'>1?=/*,*'.,6,;,*.'8',)*'1-0*-'?6'D*'1;20 2':1/.,*2''5''M ;5.D;-5'RS'+1/.'1/%%

1?2>62';2.'62'1-0*-'1'2;2.'1;20*0'D+1?2>'M_'+%X'0*'4;[;,62'2'K S'6,'.C1;/*'2*6-'(1;/1;.*' ()*'8*-*'?1./''>12+*-,*0'/D 5 2.*.','),)*',?*'1',)*-'5-*6,*.',=-1.=*-,A',)*''>1;2,*0'6D1;,''>12+*2,.'2';-1=*'620'?*-.>6%()*''*// *6-/*-'2,1'--*5;/6-,*.'620'0.^1-0*-.',)62',)*'?129.%()*',119'=6-,'2'6//,)*'-*1-?.'8)>)'8*-*'2,-10;>*0'6?125',)*'?129.'620'.=/,'2,1'.?/6-'>125-*56, 12.%()*'-.,'>12+*2,'1',)*'1-0*-'2',)*'$2,*0',6,*.'C86.'1-562 [*0'D'6,)*-'()1?6.'& /^.12'2'*2,.>9'2'QKN'-1?'8)>)'.1,21'1,)*-')1;.*.')6+*'.=-;25'2',)*'01>*.*.'1'2> 226,'6.)^+ //*'620'62'-62>.^>1%()*-*'6-*'6/.1'>12^5-*56, 12.'2',)*'01^.*.*.'1'<86;9**620 1?;>62'; ;%-119/ 2%()*')6+*'6/.1'>12+*2,.'2'?1.,'6/62'3.,6,*.2'-62>*'*/5;?':1//620'8,[*-/620'M*-C?62E'25/620';..6%()*-')1;.*'2'1?*'.';2^0*-',)*'??*06,*'0->,12'1',)*'1?2>62.'8)/*'2'?1.,'1,)*-'>1;2,-*.',)*E'6->';20*-',)*A;-.0>, 12'1',)*'01>*.62'D.)1=.%I

1?2>;?'6',*-?'6==/*0'D'62>*2,'8-,*-.',1',)*'1-0.'06',)*'1-0.'===*-'620',)*'1-0.';1);.*'A=-62';.*.',2',81'?*62 25.'2',)*'.6?*=6-65-6=)d %+'''''>,''''''H4''''H'g%''"'4''"''':4I%J''*'I'4%9%''1'P'-*'AC1;'6'->)'620'8*6/,)''?6,-12'620'01'A1;',)29',)6,'1;'-5),/A!'>*/*D-6,*',)*''"(P'M1-0.'06'1-'1-0.'';==*-X``78/1'))6+*'21'-*56-0',1',)*'>1-D62'H8)1'>1?*'.;'3,)*''9(((M,)*'1-0.')1);.*X'8,)1;,'62''.6>-'>*'620'*6,'=6-,'1',)*'.6>-'>*'8)>)',)*'=11-')6+*'1^*-*0HJ'()*'5*2*-6/6==/>6, 12'1',)*'81-0'86.',1',)*'1-0.')1;.*'B*-1?*'.6.',)6,',)*'6?1;.'>);->)'6,'2,1>)'8)>)'86.'>1?7?*2>*0'DA7 12.,62^,2*'620'>1?=/*,*0'620'0*0>6,*0'DA¢ 12.,62,;.')60',)*'26?*'1''2'>12.*_;*2>*'1',.'-*)2*..'620'D*6;,'?'&'.'%+%T6--6-'6!''.'%+%T25)6?'?!6'D9%+'*)'%%

1?2.'*''!5'6'/*6-2*0',6/62',)*1/15 62'86.'D1-2'2'N SS'1'62'62>*2,'6?/'6,'-D6'12',)*'>16.,'1'6/?6,6'620'.,;0*0'6,',)*'B*.;,.'>1//*5*'6,'1-*,,1'620'6,',)*'$2+*-.,'J(60;6%()*'6;,)1-,*.'1',)*';2+*-.,';.*0',)*2/;*2>*',1'20;>*')?',1'*2,*-',)*'1-0*-'1'B*.;,.d,1',)'.')*'6==*6-.',1')6+*'>12.*2,*0'6,'-.,T620'7'8,)/*'=6..25')'.'21+,6,*')*'56+*'2.,-;>,12'2'?6,)*=6,>.'=)A7.>.'620'*/1_;*2>*%'',)*'.6?*',?*')*'*?=/1A7*0')'./*.;-*'2',)*'.,;0'1',)*1/15A%()*'-1;,2*'1'6'>1//*5*/*'21,.;,25')'.6,.*'1?2.'_;,*0'60;6T620'12',)*'-*>1?7*206,12'1',)*'*?=*-1-'101/=);.'D*'86.'6==1 2,*0'D.)1='1'*52''?;>)',1',)*'625*-'1',)*'B*.;,.%(81'*6-.'6,*-86-0.')*'86.'?60*'6>)D.)1='1'=6/6,-1'D;,'8)/*')1/0 25',.'0 52,''>)*'D*>6?*'?D-1/*0'8,)',)*'=1=*'M6;/X'D',69 25'6'=6-,'2',)*'0.=;,*.'D*,8**2',)6,'=12,'620',)*'*2*,62.'-*.=*>,25',)*'*2018?*2,'1'*>>/*.6.,>6/'*.,6D/.)?*2,.'2',)*'1>>6.12')*',)-*8'1;,'6'>*2.;-*'12',)*'>120;>,'1',)*'=1=*'†620')*';-,)*-'56+*'1*2>*'D'*2,*-25';=12

1?;>62';;%

% & ’ & ! " # $!) " #

,)*’ ?=1-,62,’D ; ,’=*-.126// ‘0625*-1 ; .’ . ; DA*>,’1 ‘ -*^ 1-? 25’,)*’ ?622*-.’ 1 ‘)*’ >/*-5 % : *’ -*. 52*0’) .’ 6->)D .)1=- >’ 620’ -*, -*0’ ,1’ *2 >*’ 2’ S ‘ 620’ 2’ S S’)*’ >6?*’ ,1’ 25/620 ‘C7)*-*’ B6?*.’ ‘ 6==1 2,*0’) ?’ 0*62’ 1 ‘ & 20.1-% ` : *’ 218’ =-*=6-*0’) .’ D119’ ‘ ‘5 % ‘ 6 1’ ,)*’ 1DA*>,’1 ‘ 8) >)’ .’ ,’1’ .)18’ ,)6, ’ ,)*’ =1=*’)6.’21’ . ; =-*?6_A ’1+*-’1,)*-’D .)^ 1=.’M 120%=6-,’ ‘ S T =6-,’ ‘ SK T =6-,’ ‘ : 621+% XKK’ 1DX% : *’ *0 ,*0’ 6,)*-’ 6 ; / .’VV .V ’ ‘ ’ ’ 9 ‘ ’- ‘ 2’ 25/ .)% : *’ : 1? 2 .’6==*6-.’ ,1’)6+*’ D**2’ -*. ,/*. .’ 620’ 2>12. ,62, ’ 1-’6 ,*-’ 6’ *8’ *6-.’)*’ *L=-*. .*0’ 6’ 8 .)’ ,1’ -*, ; -2’ ,1’ ,)*’ 1?62’) ; ->) ‘620’)6+ 25’ -*>* +*0’ -1?’ 4 -*51- ’ d ‘ 6’ =-1? .*’ 1 ‘=6-^ 012’)*’ .*, ’1 ; ,’ 1-’ 1?*% 112’6 ,*-’) .’6-- +6/ ’ .1?*’ 2, *->*=, *0’ /*, ,*-.’ 56+*’ 20 >6, 12.’ ,)6, ’) . ’ -*=*2, ^ 62>*’ 86.’21, ’. 2>*-*’ 620’)*’ 86.’ 2’ >12.*_ ; *2>*’ >1?^ ? ,, *0’ ,1’ ,)*’ >6. ,/*’ 1 ’ ,% 25*/1 ’ 8)*-*’ 6 ,*-’62’ ?^ =- .12?*2,’1 ’6’ *8’ ?12,). ’)*’ 0 *0’ *=, *?D*-’ SK % * 25’ >12+ >, *0’ 6 ,*-’ / .’ 0*6,)’ 1 ’)*-*. ’) .’ D10 ’ 86.’0 . 2, *--*0’ 620’ D ; -2, % ’ =6?=)/*, ’ >6//*0’) . 5 ’ ’ ’ ’ ’5 1’6==*6-*0’ 2’ 12012’ 2’ QK ’MQ+1X% : -% *8/620 ’0*62’1 ’ *-=. ’ =; D/ .)*0’ 2’ QS ’6’ ’ ’ % ’ ’’ 2+1 ’ ’ ; ’ ’ ! ’ : 119 ’ 6 !’ ; ’ +’ T 6 ’’ ’ % :’ 1// *-’ 6 !’ # ’+ ’ N ’ ._%

1? 2 ; .’ +1D . > ; ?’ I ’’ ’ ’’ ’ ’’ ’ E’ 6’ 1-?’ 1 ’ .6/ ; ,6, 12’ ; . *0’ 2’ ,)*’ / , ; -5 *.’ 1 ’ . *+*-6/’ 1 ’ ,)*’)- ., 62’ >) ; ->)*.% ’ .’ ,69*2’ -1?’ ,)*’ D119’ 17 ; ,) ’ ,15*,)*-’ 8 ,)’ ,)*’ -*.=12.*’ ’ % ’ ’ ’ 620’ 8 ,)’ ,) ’ .= - ,%J’ ,’ 86.’ 2, -10 ; >*0’ 2,1’)- .^ , 62’ 81-.) =’D* 1-*’ ,)*’ *20’1 ’,)*’ .*>120’ >*2, ; - % ’ >6212’ 1 ’,)*’ -., ’ >1 ; 2> / 1 ’ -656’ 2’ SSN’0 -*>, *0’ 656 2. , ’ 6’ >; . , 1?’ 8) >)’ ,)*’ - .> // 62 . , . ’) 60’ 601=, ^ *0’1 ’ 6. . 52 25’12*’ 1-?’ 1 ’ .6/ ; , 6, 12’, 1’ ,)*’ D .)1=. ’ 620’ 621.)*-’ , 1’ ,)*’ =-*. D , *-. ’ *2A1 2. ’ 6// , 1’ ; . ’ ,)*’ .6?*’ 1-?’ ’ ’ ’ ’’ ’ ,)*’ 1-0’ D*’ 8 ,)’ 1 ; 6 2 0’,)*’ =*1=/*’, 1’ -*=/ ’6 ’ ’ % ’ T ’ ’ % ’ % ’ ’ ’ ’ ’620’ 8 ,)’ ,) .’= - , ’J’6>>1-0 25’, 1’6=1. , 1/ >’620’ 6. , *-2’ >; .^ , 1?% ’ ;5; . , 6’ ’’ 2!’& ’’ ’D9’ + ’ >)% ’ ’g’ + %

1? , 62’ :0 $ ’ $ ’ %@ $ 3’ 1?62’ *?=*-1-’ 1 ; 25*-’ .*2’ 1 ’ *. =6. 62’ 620’ 1? , //6 ’ . ; >>**0*0’) .’ D-1,)*-’ (, ; . ’ 6.’ *?=*-1-’ % ’ Q ’620’ -* 52*0’ ; 2, / % : ’ RS% 2’,)*’ D*5 22 25’1 ’) .’ -* 52’)*’ 6 *>, *0’ 5-*6, ’ [*6/ 1-’,)*’ -* 1-?6, 12’ 1 ’ = ; D/ >’ ?1-6/. ’D ; ,’) .’, -; *’ >)6-6>, *-’ .)18*0’ ..*/ ’/6, *-’ 2’ 6/^ ?1. ,’ ; 2*L6?=/*0’ >-; */, *. % 2’ % ’R ’6’=*-.*>; , 12’ 1 ’,)*’)- ., 62.’ .’ -*>1-0*0’ 2’,)*’) .,1- ’ 1 ’,)*’) ; ->)’ D ; ,’ , ’6==*6-.’ , 1’)6+*’ D**2’ 0 -*>, *0’ =6-, >; ^ /6-/ ’656 2. ,) *’ B*8. ’8 ,)’ 8)1?’,)*’)- ., 62.’ 8*-*’ ,)*2’ >12 1; 20*0’ D ’,)*’ 1?62. % ; *, 12 ; .’ MVO’ ; = f >)% L X’ .>-D*.’,)*’ =-1.>-=, 12.’1 ’,)*’ B* 8. ’ 1-’,)1.*’ 8)1’ / +*0’6 ,*-’,)*’ ?622*-’1 ’,)*’ B* 8. ’ 620’ 8)1?’)*’ ., /*.’ 6.’ ?=-1 *.. J’ ,1’ ,)*’ -6=6>, ’ 1 ’ 1?, 62’ ; .*D ; .’M 2’ X .6 .’,)6, ’ 1? , 62’ ’86.’,)*’ .*>120’ ,)6, ’ -6 .*0’6’ =*-.*>; , 12’656 2.’, ’ ; .’ 620’ *.,6D/ .)*0’) ?.*/ ’6.’ . ; >>*..1-’1 ’ *-1’ 2’) .’)6, -*0’ 620’)1., / , ’, 1’ 410%J’ ()*’ .6?*’ 8-, .*-’M ’ R’ K X’ 1//18 25’ : *5*. ==; . ’, */// .’1 ’6’ . ; ? ?12.’1 ’,)*’ 5-620^ >) /0-*2’ 1 ’B ; 0*’ ,)*’ 6=1. , /*’ , 1’ 6==*6-’ D* 1-*’ 1? C 7 ’, 62% : *’ _ ; *., 12*0’ ,)*?’ 6.’ , 1’ ,)*’ -’ D -,)’ >/6 ? . ’ 7 =-1=*-, ’*, >’ 620’ 8)*2’ ,)*’ ’62. 8*-*0’ ,)6, ’,)*’ 9 25^ 01?’1 ’)- . , ’ 1-’7) >)’,)*A7/119*0’ 86.’=; -*GE’ . = -^ , ; 6/ ’)*’0 . ? . .*0’,)*?% ()*’, -62, ’86.’21, %.1’/*2^ *2, ’ 8 ,)’) .’ 182’ -*/6, +*. ’ /6+ ; .’ /*?*2.’620’ 1? , //6 ’8)1’8*-*’ >)6-5*0’8 ,)’ ,)*. ?’ 620’B*8^ .)’ ?622*-. J’ >)6-5*.’1 , *2’D-1 ; 5), ’656 2. , ’,)*’)- .^ , 62.% /6+ ; .’86.’*L*>; , *0’6 ; 0’ 1? , //6’D62 .)*0’ % R % 1? , 62’) ?.*/ ’86.’6..6.. 26, *0’M % ’ RSX% ’ , -60 , 12’ M21, ’ 218’ D*/ *+*OX% .=*69.’1 ’ , % B1)2’6.’)6+ 25’D**2’ , - *0’D* 1-*’ 1? , 62’620’ ,)6, ’)6+ 25’D**2’ >120*?2*0’ , 1’D*’ =/ ; 2 -*0’ 2, 1’6’ >6/0-12’ 1 ’D1 / 25’1 / ’)*’ >6?*’ 1-,)’ ; 2) ; -, % **’ Bf /?62’ # ’ ’ + 1’D9’ ’ >)% +T 4 DD12’ ; ’ ’@ ’ >)% L+ ’620’ ,)*’6-, >/*’ + $!

1? , //6 ’2 *>*’M1-’8 *X1 ’ /6+ ; .’ /*?*2. ’8)1 86.’ = ; , ’ , 1’0*6,)’ ; 20*-’ 1? , 62’M % + %T ; . *D ’ ’ QX% , ’ .’ 21, ’ >*-, 6 2’ ,)6, ’,)* ’ 8*-*’)- ., 62. ’D ; , ’ , ’ .’6, ’/*6. , ’ =-1D6D/*% 1? , //6’0 0’21, ’. ; *-’ ?6-^ , -01? ’D ; , ’ 86.’D62 .)*0T 62’ ; 286--62, *0’, -60 , 12’ .6 .’,)6, ’.)*’ 86.’6 , *-86-0. ’D ; -2, ’ ; 20*-’ (-6A62%)*’ .’ >1?7*?1-6, *0’6.’6’ .6 2, ’ 2’ ,)*’ 1?62’) ; ->) ’ <6’ K% **’ ; ,/*-’ ’ ’$ ’ <6’ KT (//*C ?12, ’ ’ ’ K T <; -01>) .’ <1.)* ?’ ’ ’’ # ’ % % *O% ’ R%

1? ; .’ I’’ (8’6’0*. 526, 12’1 ’,)*’ >) ; ->) ’1-’1 ’ 6==*2065*.’1 ’,)*’ >) ; ->) ’ 2’62> *2, ’, ?*.’8 ,)’0 .^ , 25 ; .) 25’*= ,)*, .’6, , 6>) *0T ,) ; .%a

; $ 7# ’ : ? % O 8 &%1’)53’$86 (8 ’)53’506#3# 0, ’)53’783 <9’ (*V0%1%1<’)53’756 75 C 6#3K’ ; %1#’N !’ ’%! ’ DT ?%1<5(=’, !’6 !’ ; P’ !%%% ’ 75 !%% ’ \’ F

$ ’ $ >’ ’’ ’ ’’ ’ ’’ ’ 1’ ; .*0’ D ’ (*-, ; // 62’ 1-’6’ >) ; ->)% &) *2’ 8-, 25’656 2. , ’,)*’ 6/*2, 2 62. ’8)1’6 *>, *0’ .*>-*> ’ 2’,)*’ -’01>, -2*. ’)*’ >1?=6-*. ’,)*?’, 1’,)*’ /*; . 2 62’? .,*-*. ’8)1.*’ , *?=/*’ 86.’ .1’5 ; 6-0*0’ 8 ,)’011-.’620’ >; -, 6 2. ’,)6, ’ 6’?62’?; . ; D*’ +*’ *6-.’6’ >620 06, *’ D* 1-*’)*’ >1 ; /0’ D*’ 60?, , *0’, 1’,)*’ ’1’,)*’ 0*.E’1-’ .*>-*, .’1’ ,)*’ .62>, ; 6- % &) *-*6. J’ .6 .’) *’ ,)*’ ’ ’ .’ =/6 2’620’. ?=/*’0*/ 5), .’ 2’) 5)’620’1=*2’ =/6>*. ’6 *>, .’,)*’ / 5), ’ /1+*.’,)*’ 5 ; -*’1’,)*’ :1/’ 4)1., ’620’,)*’1-*2, ’1-’ ?1-2 25’. ; 2’8)>)’ .’,)*’ 5 ; -*’1’)- .,%J’ ()*’)1 ; .*’1’,)*’ 01+*J’ .**?. ’)*-*’, 1’D*’,)*’ .6?*’6.’ ,)*’)1 ; .*’1’)- .,%J’ <*0*’ *L=/6 2.’ , ’,)*’)1 ; .*’1’,)*’ 01+*C/ 9*’ -*/ 5 12’1-’1 ’ ,)*’ 01+*C/ 9*’ 0 .> =/*.’1 ’)- .,’M (*-, ; // 62 ; .’ ’ N ’ >% N ’ > , *0’D ’ 25)6?% , !’6 !’D9% + ’ >D% ’ g’K%

$ ’ ’ $ ’ 5’ $ ’ >> .-%e ’ ’ ’ ’ # ’ ’ ’’ ’ ’’ ’ ’ # ’ ’ ’’ ’ # ’ ’ ’’ ’ ’f M %X ()*’ -.,’1 ’,)*’ .*’ ’’ ’ (’ # ’ 86.’12*’ U*,)*’ *6-/ *.,’26?*.’1 ’,)*’ >) ; ->)CD ; /0 25’ 620’, ’ .’., // 2’ ; .*% ’6). 8*-.’, 1’,)*’ 4-**9’) % = ’ 8) >)’ .1?*’ .; ==1.*’, 1’D*’,)*’ 1-5 2’1 ’1 ; -’81-0’) ; ->)%J’ **’ 6/.1’ $ ’ f MK%X’ ()*’ .*>120’ , ,/*’ ; ’ # ’ 86.’6==/*0’6?125’,)*’ =6562’ 1^ ?62. ’, 1’,)*’ *?=*-1-.’=6/6>*’620’, ’ 86.’-*, 6 2*0’ 2’,) .’ ; .*’D ’ .1?*’)- ., 62’*?=*-1-.% ’ 86.’6/.1’6=^ =/*0’, 1’,)*’) ; ->)T 620’ -1?’,) .’01 ; D/*’ ; .*’ .1?1’ >12 ; .12’)6.’6-.*2’ 2’ 2, *-=-*, 25’62> *2, 8-, *-.% MN%X’ ()*’, ./*’ # ’ ’ ’’ ’ ’’ ’’ 86.’6=*/*0’21, 12/’ , 1’,)*’ >) ; ->)’ *0 >*’ D ; ,’6/.1’, 1’,)*’ D .)1=.’)1 ; .*’ 6, *-’,)*’ ,) -0’ >*2, ; -% ’ 25)6?’, !’6 !’9% + ’ >)% % ’ % 7

126/0.12’ (’ ’’ ’ % %’6’?10*-2’ 6, C , ; 0 26-62’ 0 + 2*’ 620’ .>)1/6-’86.’D1-2’ 2’ 12012’ B ; 2*’ ’ Q % : *’ 86.’*0 ; >6, *0’ -., ’6, ’,)*’ $2 +*-^ . , ’ 1 ’ 12012’620’6 ,*-86-0.’6, ’ (- 2 , ’ 1//*5*’ 6?D-05*’8)*-*’)*’ 5-60 ; 6, *0’6.’ % % 2’ QN ’620’ 1D, 6 2*0’,)*’ .*>120’ =/6>*’ 2’,)*’ -., ’ >/6. ’1’,)*’ >/6.^ . >6/, -=1.% 2’ QN%)*’ 86.’*/*>, *0’ *//18% : .’-*=^ ; , 6, 12’-*., ’ ; =12’) .’2; ?*-1 ; ’620’+6/ ; 6D/*’8-, 25.’ 2’=) /1.1=) ’620’ >/6. . >6/ / , *-6, ; -*’ *% 5%) .’ -" ’ ’ ’ ? + ’ MQ+1’ ?62’ *0 , 12.Xa ’7 ’ ’ M QNR’ NO’ *O% Q RXa ’N ’ M Q X% 7, *-’) .’ 1-0 26, 1 7’) *’ D*>6?*’) *6OC?6. , *-’ 1’ ; -’ , ’ 0^ ?; 20. ’8)*-*’) *’ -*?6 2*0’ .*+*-6/ A7*6, . ’620’ = ; D^ / .) *0’ + ’ ’$ %" ’ M6’, -*6, . *’ 12’ : *D-*8’5-6?^ ?6-X’620’ 26// ’D " ’1-’@ ’& " % ’ 1’ ’# " ’ *, >% M *-/2’ Q T 12012’ QS ’ Q 1X’,)*’ 1DA*>, ’1’8)>)’ 86.’, 1’ -*>12. , -; >, ’,)*’ /1. , ’ D119’1’D " ’ -1?’,)*’ -65?*2, . .>6, , *-*0’,)-1 ; 5)’ ,)*’ % (% ()*’ D119’ .’ ; // 1’8 /0’620’ *L, -6+6562, ’ >12A*>, ; -*. % **’ (f 112’6 , *-’) *’ -*. 52*0’) .’ =/6>*’6, ’ ; -’ , % 0?; 20. ’620’ -*, ; -2*0’, 1’ 6?^ D-05*’8)*-*’)*’ 56+*’6’>1 ; -.*’1’ /*>, ; -*.’12’ 6, 2’ 6 212 ?*.’620’1>>; = *0’) ?.*/ ’8,)’, ; , 12% : *-*’)*’ 8-1, *’6’+1/ ; ?*’*2, ./*0’ ” ’ , ’ ” - ’ 9 ’ ’’ ’ ’ ’

, ?*' 1//18*0' 2' ,)*' ,-6 2'1 '6'0 .)12*.,' D/ 1/6,- %J' 2' Q 4')*' 86.'6==1 2,*0'12** 1 ',)*' >/6.. >6/*L6? 2I' *-.' 2' ,)*' $2 +*-. , '1 ' 12012% : *' 0 *0' 2' 12012' *D ' Q4 % -% 126/0.12' 86.'6' ?62' 1 '5-*6,' 2^ 0;.,- 7/*6-2 25 '620' 2,*5- , 'D ;') .'>- , >6/ 6>;/, ' 86.' 21,' *_;6/ ,1' ,)*' ,6.9.')*' 6?D , 1 ;./ ' 6,,*?=,*0% ( )6,') .' D " '6D1;20.' 2' ? .6==/ *0' /*6-2 25 ' ;2^ >- , >6/ >- , > .? ' 620' ;2.1;20' *L*5*. . ' 86.' 6?=/ ' .)182' 12' ,.' 6==*6-62>*' D ' 86/0' 620' 1,)*-.' 4*-?62' .>)1/6-.' 620'D ' *-182*' 620'1,)*-.' 2' 25/620 ' **' D ' '$ ' 'B;/E ' Q '6-, >/*' '620' >,% QS ' =% K S% " '5 1' >,% QS ' 6-,% %

1 126-% **'0 ' !

126-6'I *1 ' ;9*' LL 'SX'5 ,.' 620'1^ *- 25.',1'601-2',)*');-)% ()*',*-?' 86.'6/.1'6=(*0' 2'/6,*-', ?*.',1'5 ,.',1',)*');-)'8)>)'8*-*');25'12' =//6-.'620'.*,' 2'=;D/>' + *8' 6.' ?*?1-6/.' 1' .1?*' 5-*6,' ?*-> '8)>)' ?*2')60' -*>* +*0' -1?' 410% ' 25)6?', '6 f D9% + '>)% + 'g %

126, 12' 1 ' 12.,62, 2*' 6' 1-5*0' ?=*-6/ *0>,'=;D/.)*0'D*,8**2' % I' S '620' SS'=-1*..25' ,1'>12,6 2'6'5 ,' -1?' 12.,62, 2*' 2',)*' *6-'QK '1' 1?*' 620',6/ ',1' /+*.,*-',)*2' 1=*% ()*' 01>;^ ?*2,'*L .,.'D1,)' 2'6' 4-**9' 620' 6, 2',*L,'620'86.')-.,'=-10;>*0' 2'6'/*,,*-' 1' 1=*' 0-62' ',1')6-/*^ ?652*% 6-12 ;.' 0* *20*0',.' 5*2; 2*2*..' D;,' ,. .=;-1;.2*..' .'218'5*2*-6// '60? ,,*0% ,.'.;D..62>*' .' 6.' 1//18.a '&*' 5 +*' 6.'6' -**' 5 ,',1' 1;-' ?1.,' D/*..*0' 6,)*-' /+*.,*-',)*' 1=*' ,)*' >, '1' 1?*' 620',)*' >, *.' 1 '6// ,6/ ' 6.' 8*// 6.',)*' >, *.' 1 ',)*' 1,)*.' &*.,*-2' >1;2,-*.% (1' ?69*' -11?' 1-') ?'8*' 6DO >6,*' 1;-' .1+*-* 52, '1+*-'6//,)*.*'=-1+ 2>*.' 620' 8*' 8 ,)0-68' -1?' 1?*',-62. *-- 25',)*' .*6,'1'1;-' *?=-*',1' [62, ;?'.2>*' ,' .'21,'A;.,',)6,'6',*--*.^ ,- 6/*?=*-1-'.)1;/0'-*,6 2'62 '=18*-' 8)*-*' 410')6.' =/6>*0',)*')*60' 1'-*/ 5 12%J' >>1-0 25',1',)*/*^ 5*20 J'.6 .' 4 DD12'7,)*' -.,'1',)*')-., 62*?=*-^ 1-.' 86.')*6/*0' 1',)*' /*=-1. '620'=;- *0' 2',)*' 86^ .*-.' 1'D6=,.?'D ' ,% /+*.,*-',)*' 1?62' D.)1=' 620'2*+*-'86.'=) .>62'?1-*'5/1-1;./ '-*>1?=*2.*07' : .'-1 6/=-1.*/ ,*' 8 ,)0-*8' -1?') .' .*7,'620'=6,-^ ?12 '1' ,% *,*-' 0*>/6-*0') .' -*.1/;,12'1' 1;20 25' 6'2*8' >6=,6/ 2',)*' 6.,' 620' ' '% % ' ' '% ' ' ' '1' 1?*' ,6/ '620',)*' =-1+ 2>*.' 1 ',)*' & *.,%J ()*' -6;0'86.'*L=1.*0'D ' 6;-*2, ;.' 6//6% 1-',)*' 126, 12J'620',.' / ,*-^ 6- ') .,1- '.**' 6D->/;.' ; "!'? 1'*0% :6-/*.' + ' SR ' .**' 6/.1' 4 DD12' '@ '>)% L/ L' < /?62' ' " 'D9% '>)% ' // 1,' ' 9 ' '5 'D9% '>)% L +' <$2>)' 2 " ' ' " ' $ " + ' ' ? 'M -* D;-5' QK X' *2*- .' ' ' ' ' ?' 'M *-% QK X

126, ...'I ' ' '86.',)*'26?*',)* ',)*?^ .*/+*.' 6..;?*0X% ;-25',)*' /6.,')6/'1',)*',)-0' 620',)*' -.,')6/'1',)*' 1;-.,)*2,;-*.',)*-*' 86.'6' >1?D 26, 12'1'*/*?*2,.'6,'81-9' 2',)*' D1.1?'1',)*');-)'8)>)' 2'>12.*_;*2>*' 1'620' 2'>122*>, 12' 8 ,)'=*>;/6-'1->*.'1=*-6, +*'12',)*'1;,.0*'=-10;>*0' 6'.*+*-.,-.'6..;?*0X% ;-25',)*' /6.,')6/'1',)*'1;,.0*'=-10;>*0' 6'.*+*-.,-.'6 2';=12',.'.,6D/, '620';2, % ;-25',) .' =*-10',)*-*' 8*-*' -*=*6,*0'620'=18*-;/>*2,-^ ;56/.*20*2>*.'8)>)'56+*' D -,)' .;>>*..+*/',1',)*' 1+6, 62' <*/*, 62'620',)*' 126, .,'.>) .?.% ()*' 1;,86-0').,1-'1',)*.*'.>) .?.'./125'620',.'-*^ ?1,*'>6;.*.'620'1;,86-0'0*,6/.'?;.,'D*'/*6-2*0'-1?');-)')..1-*.% ',)*.*'?1+*?*2,.',)6,'1',)*' 126, .,.' 2' 1-,)' -'>6'86.'D ' 6-',)*' ?1.,' ?=1-,62,'620'8 0*.,' 2 /;*2>*% ;D.,62, 6// ',')60',)*'.6?*'5-1;20' 620'>)6-6>,*-'6.',)*' 1+6, 62% 2',) .'=1 2,' *62' 0*-'+*-''>/*6-/'620'A;0>1;./'.6 .a ()' .'.>) .?' M,)*' 126, .,% ?6'D*' >1?=6-*0' 2' ?62'-*.=*>,.' 8 ,)',)6,'1' 1+6, 62' 2',)*' =-*>*0 25'=*-10% 2',) .',11'8*' .**',)*' >12/>,' 1-' *L6?=/*'1' *=6-6^ ,.?'8 ,)' 6,)1/>.?' 620 ,'.',)*-* 1-*' ?=1 ,62, 2'.1' 6-'6.' ,',*20*0',1'.*.,/*' 620'*.,6D/.)',)*' 21, 12' 1',)*' + . D/*'1;,86-0';2,' P',)*');-)'620'1',)*' 1DA*>,+*' */*?*2,' 2',) 25.' 1'-*/5 12' 620' 1',)*');-)' ()6,'8)>)'0 .,25;.)*.',)*' =-*.*;'>6.*' .',)*' -*6>, 12'=-1>**0 25' 1;',1',)*' *..*2>*' 1',)*')-.,62');-)'620'>6//*0' 2',) .' 2.,62>*' D '6'=*>;/6-'1>>6. 12'656 2.,',)*' >12 1;20 25'1',)*' *>>/*. 6.,>6/'620'=1/,>6/'*/*?*2,.' 12' 8)>)' 1>>6^ .12' 1'-',)*' -.,', ?*',)*' 0*6.'8)>)')-.,62, '6.'1==1.*0',1',)*'=6=6/-*/5 12' 1',)*' ..6,*')60' -.,' ?60*' ?*2' 0 .,2>,/ '>12.>1;.' 1 'D*>6?*' 62' 1DA*>,' 1'>12,*2, 12' 8 ,) 2',)*')-.,62');-)' ..*/ ',)*' 0*6.'>12>*-2 25';2+*-.6/' 26/ *26D/*')?62'-5),.' >12>*-2 25'/D*-, '1'>12.>*2>*'+*>12>*-2 25',)*'-2 25',)*-',1' -**'>12+>,12% ()*'?1-*' ??*0 6,*'620'/1>6/1>^ >6.12'1',)*.*'0.=;.*./6 '2'6'>*-,6 2'.= -,'1' 626, ^ >.?'8)>)'+*+-'.2>*',)*'.=-*60'1'<12,62.?')60' =-*+6/*0'2' 1-,)' ->6'620'6/.1'2'+6-1;.'>->;?^ .,62>*.'.;=*-20;>*0'D',)*' 1>/*, 62'=*-.*>;, 12J M *6-0*-' " "'# ' 1)2.'*0% 'K X% ()*'.;D^ .,62>*'1'8)6,'86.' ...;*' 2',) .'?1+*?*2,'.'5+*2 ,);.'D ' -% >)6 7 '()7' 126, .,'>12,-1+*-.'86.' 6'>12/>,'D*,8**2' *=6-6, .?' 620' 6,)1/>.?'D*^ ,8**2'*>>/*. 6.,>6/=;-.?' 620'*>>/*. 6.,>6/*>/=>,C > .?'D*,8**2',)*' 0*6'1',)*');-)'6.'62'*L>/;^ .+*'>1?;2,'1'-*5*2*-6,*'.6 2,.'620',)*' 0*6'1' ,)*');-)'6.',)*'5*2*-6/')-.,*201?'1'.,6,*'620' =*1=/*% ,'-*+1/+*0'6-1;20',)*'01>,-2*'1',)*'*..*2>*' 1',)*')-.,62');-)'620'2'=6-,>;/6-'1',)*'=-*' >6,*'1')1/2*..' 6.'2',)*'>12,-1+*-.' ,' -*+1/+*0';/,?6,*/'6,'/*6.,'?1-*'-1;20',)*'=-*0>6,*' 1';2, h% ,'-*.;/,*0'2',)*'>1?=/*,12'D ';5;.,2*' 1',)*' 6,D;/>'015?6'1',)*');-)'8)>)'60'D**2' =6-,/A70*+*/1=*0'D ' A=-62'2').'>12/>,'8,)'6'.?^ /6-'.>) .?J M,)*' 1+6, 62h M >)6 .' " "'# ' ' N X%

1 6,.?'.,6-,25',);.' 2'6'02*'1'=*-.*>;,12' 8)*2',)*' ;*.,12' 2'.*56-0',1',)*'-*.,1-6,12'1',)*' 6=.*0'D-1;5),';=' ;20*-'+6-1;.'6.=*>,',)*' _;*.,MH2' 1'6;,)1-,'620'-**01?'620'>-*6,*0'11'6'.*+*-*-' 620'6'?/0*-',)*1-'1'0.>=/2*')60',.'-11,.'2',)* 65*' =-*>*0 25',.'6>,;6/-.;*' ?D*-.'=-*+1;./' .>6,,*-*0'D;',.,//;// 1'/6,*,'-1'/6'-*60'6// 6-1;20',1'>-*6,*'620'**0'6'A*8'-F% `/-*60'2',)*' 1>/*,62'=*-.*>;,12',)*'1/0'>12,-1+*-.'.*,8**2' ,)*-51-.,>'620',)5'?/0*-'=6-,'2'-*56-0',1'0.>^ =/2*'86.'-*+*0% *>;20;.'1'(5..',)*'=-?6,*' 1'; ?06'/*0'12'D '12*' 126,;.'1'6.6H 5-6H' 8-1;5),')?.*/'2,1' ;-'12',)*'.;DA*>,'1'.*+*-*'0.^ >=/2*'60+1>6, 25' =-1?=,'*L>/;.12'12>*' 620% 1-^ *+*-'1'6// 8)1')60'/*0' 2' 0625*-'1-'0*/+*-*0' ;=' ,)*.6>-*0'D119.',1',)*'=*-.*>;,1-.% <*2.;-;.'8,)' A#>/62')..'6->)0*6>12' 620'.;>>*..1-')*60*0',)* ?/0*-'=6-,'60+1>6, 25'?10*-6, 12'620'0.>-*, 12' 620'>6., 25'.;.=>12'12',)*'?1, +*.'1',)*'-51-.,% ()'.',*2. 12',)-*6,*2*0'.>).?'6.'%6/EI7 6.',)*'*6-' Q '2',)*'?6,,*-'1'62'*=.>1=6/*/*>, 12' 1-',)*'>, ' 1' -,6 M >)6 .'# ' '"' " !' " "'1' QS X% ()*'6>,;6/1;,D-*69'86.'2' N % <*2.;-;.'D.)1=' 1' 6-,)65* 0*0'2',)6,' *6-'8)*-*;=12',)*'>/*-5' 620'=*1=/*'1',)6,'0.,->,' 2'6')6., ''?622*-''*/*>,*0' ,)*6->)0*6>12' 6*>/62;.'2').'=6>*'62>.;'2'?12 25'1-'>12.;/,25 77' ,)*'D.)1=.'1' ;?0 6'6'>12, 5;1;.'620'.;D1-0 26,*' =-1+ 2>*' *-)6=.'>1;-,*. '1-'>;.,1?'=*-)6=.'.1?*' -*6/1-' ?65 26-'-5),'86.')*-*' +1/6,*0' 6,62' -6,*'12',) .'5-1;20',)*0.6 *>,*0'=6-,')6.,*2*0',1' -*.*2,',)*./5),'D'-* ;. 25',1'6>9218/*05*',)*'2*8' D.)1=% 2'600, 12',1',)*'./5),'1',)*' ;?0 62' D.)1=.',)*'A;., *0',)*'-'1==1.,12',1')?'12',)*' 5-1;20'1-'=-*,*L',)6,' */L'12*'1',)*'D.)1=.'8)1' 86.'=-1?2*2,'2',)*'>12.*>-6,12'86.'6'- ''),)6,'.'12*'8)1')60'0*/+*-*0'D119.I' ,1',)*'=*-.*>;,1-.% 2' 6-,)65*'6/.1',)*'*/*0*-.'1' ,)*'>125-*56,12'D*.0*.'?62'1,)*-.'620'6?125' ,)*?'6'21D/*'/60 ';>//6'6'8 018'620'+*-.';=*-^ .,,1;.'8*-*'1==1.*0',1')?% *>;20;.'1'(5..

8 ,)' A.*+*2, ' ;? 0 62' D .)1=. ' 6..*?D/*0' 6,' 6-C ,)6Z *' .;?-612*0' 6A> $0Z',1' 6==*6-' 8) >)')*' 6 /C ,1' 01',)* '0*=1.*0'620' *L>1? ? ;2 >6,*0') ?' 620' */*>,*0' 2') .'=/6>*' <6A1- 2;.' ,)*' >)6=/6 2'620' 6+1-C ,*' 1',)*' 8*6/,) '620' 2 /;*2, 6/' 8 018' ;> //6% ^ ,*-' D .' 0*6,)' 2' N ' '6' 5 ,*0' ?62' 1 ' *-A' *2*-5 '620' */1_;*2>*' -*+*-*0' D ') .' 60? -*-.' 6.' 6' 8120*-C81-9*-'620' ., /*0' ' '4 * (' 86.' ?60*') .' .;>>*..1-% -1?') ?' ,)*' 218' 0*+*/1=*0'=6-, ',119' ,)* -'26?*%

6>)' =6-, '218' /6D1-*0',1' .*>;-*' ,)*' >12_;*.,' 1 ' %>);->)*.' 620',) ; .',)*' D-*6>)' 86.' *L,*20*0 '620',)*' .>) .?' 2',)*' 1-,)' ->62');->)' ;// ' * *>,*0% ()*'*?=*-1-' 12.,62, 2*'8)1')60'A;.,'.*>;-*0',)*'.1+^ *-* 52, ' 2',) .'=6-,'1',)*' 1?62'*?=-*' .'.;==1.*0' ,1')6+*'D**2'=-*A;0>*0'656 2.,',)*' -*20.'1'<6A1-^ 2;.' 1-' 2') .' -.,' *0>,') *' *L=-*../ ' *L>/;0*0',)*' =6-, ' -1?',)*'=- + /*5*.' 8) >)')*'D*.,18*0'12',)*' 6,)1/>');->)% ();.' >120*?2*0'8 ,)1;,' 6')*6-^ 25',)*' 126, .,.'=-*.*2,*0'6'=*, ,12',1',)*'*?=*-1-' 8)1' 86.' 6,' ,)*' ,?*' 2' 46;/' 6.9 25') ?',1' 26?*' A;05*.' 2',)6,' >1;2,- ' D* 1-*' 8)1?' ,)*' _;*., 12.' 8) >)')60' 6- .*2' 2',)*' 1-,)' ->62');->)' ?5),' D*' /6 0% :*' 0 -*>,*0',)6,' <*/>) 60*.'M< /, 60*.X' D .)1='1' 1?*' 8 ,)' +*' 1,)*-'46// >'D .)1=.' .)1;/0' 2_; -*' 2,1',)*' 6/ 6 -T ,)6,' 6A> / 62' .)1;/0' 6==*6-' D* 1-*',)*?' 8 ,)',*2'D .)1=.' 8)1' 8*-*',1'=-*.*2,',)*' >)625*.' -56 2.,') ?' 620',*2'1,)*-' D .)1=.' 8)1' 8*-*',1' 0* *20') ?J' M *620*-' " "' # ' 1)2 .' *0% ()*',- 6/',119'=/6>*' 2'N N% <*/>) 60*.'D-1;5),' ,**2'1,)*-' ,6/ 62' /6.)1=.' 620' 126,;.'6/.1'6==*6-^ *0' 12',)*' 1==1. ,*' . 0*' 6.' >) *'6>>;.*-' 1' .*> / 62' 620',)*' .1;/' 1',)*' 2*8' =6-, % : .' >)6-5*.' 8*-*' 1;20',1' D*' ;2.:.,6 2*0'620')*') ?.*/' 86.' 0*^ >/6-*0' 5; /, '1'+6- 1;.' 6>,.' >12, -6- ',1',)*' /68.' 1' ,)*');->)%J ()*' 126, .,.' 7-*' 1'>1;-.*' 0 ..6, . *0' 8 ,)' ,) .' -*.;/,% '.*>120')*6- 25' 86.' 1-0*-*0' 2' N '6,' 8) >)' ,)*' >)6-5*.' 656 2.,' */L',)*' 1-06 2*-' 1' 6*> / 62' 8*-*',1' D*' 2+*., 56,*0% */L' 86.' 0*>/6-*0' 221^ >*2,% ()*' 126, .,.' 218' 6==*6/*0' -1?',) .' *>>/*. ^ 6., >6/'0*> . 12'C,1',)*' *?=*-1-') ?.*/ % :*' 6>>*=,*0' ,)*' -' 6==*6/',)1;5)') *' 62.8*-*0' ,' 8 ,)' + 1/*2,' *L^ =-*.. 12.' 656 2.,',)*?' 620' 6 ,*-'/ .,*2 25',1',)*' 0*/*C 56,*621',)*',81' =6-, *.' 6,' < /62' 2' N S')1' 6/.1' 0*^ > 0*0' 656 2.,',)*' 126, .,.% 3 ()*' ?6,,*-' 218',119' 6' .*+*-*-',;-2% ()*' *?=*-1-' ..;*0'=*26/'68.' 656 2.,' ,)*' 126, .,. ' 0*=- +*0' ,)*?' 1',)*-' >);->)*.' 620' >12 .>6,*0',)*-' =/6>*.' 1'6..*?D/ 7 ().' *L6.=*-^ 6,*0',)*?'620' ;// '0*+*/1=*0',)*-'*2,);.6.?% ()*' .,- *'8*2,' 1-86-0'21,'8 ,)1;,',)*' ;.*'1'>6-26/'8*6=^ 12.' 12'D1,)' .0*.% ()*' 126, .,.' 8*-*' 2'.= -',;2^ .;D0;*0'620'0*,*-? 2*0% $-.6> ;.'8)1'86.'*27=18C *-*0',1'>6-- ',)*' /68.' 2,1' * *>,' 656 2.,',)*?' ;.*0' 1-> /0*' ?*6.;-*.',1' >1?=*/ ,)*?',1' ;2 ,*' 8 ,)',)*');->)% ().' =-10;>*0'6'=18*- ;/' *-?*2,' 620' =;.)*0',)*?',1',)*' =1 2,'1'0*.=*-6, 12% ()*' 0*^ >/6-*0',)6,'21'=18*-' 12'*6-,)' >1;/0' 20;>*',)*?',1' */18.)=' 8,)',)*' -6.>6/J'6.',)*' >6//*0' *>/62% ()*'>6;.*'1',)*' 126, .,.' 86.'*.=1;.*0'D '6'D620'1' 0/*'-1+ 25' 626, >6/6.>*, >.'8)1'8620*-*0'6D1;',)*' >1;2,- '6?125',)*') ;,.' 1',)*'=*6.62,.'M8)*2>*',)*' 78*-*'>6//*0'D ',)*70+*-.6-*.' '_%'+%X% ()*.*')6/ C>-6['D*556-.' 620'=/;20*-*-.' *L> ,*0',)*' =*6.62,.',1'6//'.1-,.'1'+1/*2>*'620'8*2,' 1-,)' 8 ,)' -*' 620' .81-0'6.',)*')- ., 62' >)6?=12.J'I =' 8!' ()*-' ;-'>1.,'D/110'620',)*' ? /,6-'86.'-*^ _;-*0',1' .;==-*..' ,% 1?*' 1',)*' 126, .,.' 8*-*' *L*>;,*0'1.),)*-.' D62 .)*0'620',)*-' >)6?=12.J'I =' /*>*0'1-'>12 .>6,*0% *6,)'?*,' 2',) .' 86 ',)*A' -*56-0*0'6.'?6-, -01?'620' 2.,*60'1'6+1 0 25',)*' 7>1+*0',1' .;==-*..' ,% <62'8)1'0 0'21,'6,,6 2',1',) .'121-'6,' ,)*')620.'1',)*-'*2*? *.' 2',)*-' 626, >6/ [*6/ -*^ .1-,*0',1' .;>0*'>6., 25',)*?.*/+*.' -1?'=-*>=*>*.' 1-' 2,1',)*' -*' 620' *+*2')-*0'1,)*-.',1'9 // ,)*?% ()*'*?=*-1-'.68',)*'?.,69*'1')'+ 1/*2,'?*6.;-*.' 620' 2'NK'5-62,*0',1',)*' 126, .,.' ;// / D*-, ',1' 1/^ /18',)*-'>12+>, 12.' 2' 6 ,)'620'81-.)='6,',)*'.6?*' , ?*'*L)1-, 25',)*' 6,)1/>.',1'=6, *2>*'620'?10*-6^ ,12% ().' .1?*8)6,' .;D0;*0'D;,' 0 0' 21,' *20',)*' .,- *% $20*-',)*' .;>>*..1-'1' 12.,62, 2*' 12.,62.',)*' 6-*0'81-.*'656 2% & *'-*60'1'6' D6,,/*'1' 652 L' 2'8)>)',)*' 126, .,.' 8*-*'0* *6,*0'620'1',/ -,>>2' *6-.'1',;?;/,'620'D/110.)*0% 2'5*2*-6/',)*' 8*-*' .;DA*>,*0',1'.*+*-*'?*6.;-*.% &)*2'B;/62',)*' =1.,6,*'>6?*'2,1'=18*-'6.'*?^ =*-1-',)*' 126, .,.' 8*-*'?;>)'=/*6.*0',)6,')-.,62^ ,')1;/0';20*-'6'=6562'-;/*-'>*6.*',1'D*',)*'01?^ 262,'-*/5 12'1',)*'.,6,*% ();.'2'1S',)*'1D,6 2^ *0'12>*'?1-*',)*-' ;// -**01?'2'-*/5 1;.'?6,,*-.' 620'-1.*',1',)*')5)*.,'0*5-**1'*?2*2>*',)6,'6,'62' ,?*'86.'6,,6 2*0'D ',)*?% ()*' ,119' =1..*..12' 1',)*-'182'>);->)*.'656 2'8 ,)'AD T -*=6 2, 25',)*' *0 >*.'620'5*2*-6// '>/*62. 25',)*'86//.'620'6/,6-.% (186-0.',)*>/1.*'1',)*' ,)'>*2;;- ' -*>6'86.'>1+^ *-*0'8 ,)',)*-'>);->)*.'620')60'1;-')20-*0' 126C ,.,'D .)1=.% (1')*',);.'=/6>*0'12'6'/*+*/?*-*/''8 ,)')*6,)*2' -*/5 12.'620'6//.*>,.'86.')18*+*-'6 ,*-'6//'12/'6' 2*56, +*'>1? 1-,% ,'D '21'?*62.'60A;.,*0',)*'0 ^ >;/,*.'1',)*' 126, .,.' 8 ,)',)*');->)''620' ;20*-' .;>>**0 25'*?=*-1-.',)*-'>6.*' 656 2'D*>6?*' 81-.*% <6L ?;.'6'0*6>12'620' -?62;.'6'D .)1=' 1' 6-^ ,)65*'>1? 25' 2,1' >12/>,' 80,)'*6>)'1,)*-'>-*6,*0' =6-,*.'1;,'1'8)>)'5-*8'.*>,.',69 25',)*-'26?*.'' ,)*' '620',)*' ! ,)*-'0+.12.' 620'0 >;/,*.' 1//18*0'620',)*-*'5-*8';=' 6?125',)*' ?1-*',)1;5), ;/620'-*/*>, 25'1',)*' -*>62'D.)1=.' 6'0*.-*',1')6+*',)*'D-*6>)')*6/*0% *6H12'620'>6/?' 0.=;,6, 12'6/.1'218'?1-*'620'?1-*',119',)*'=/6>*'1' +1/*2>*% '=18*-;/2/;*2>*',186-0'-*>12>/6, 12' D*562',1'D*'*L*-,*0'6D1;,'N S'D ';5;.,2*' -.,'=-*.^ D ,*-'620'6 ,*2+6-0.'D .)1=' 1' :==1'E ';?>/6% :*'8-1,* =-*6>)*0'620'/6D1-*0'=-+6,*/'620'=;D/>^ /'8 ,)'+6-*0'D;',/'5*2*-6//'2>-*6.25'.;>>*.% -1?',).',?*'1-86-0',)*'>6;.*'1',)*' 126, .,.' D*562'5-60;6// ',1'0*>/2*% ,*-'6',)-**C06 .'6-D ^ ,-6, 12'6,' 6-,)65*' 2' '6,,*20*0'D 'KQS 6,)1/>' 620'K R 126, ,'D .)1=.'8)*-*',)*'1/0' ..;*.' 8*-*' -*0 .>;..*0',)*' 126, .,.' 656 2'.,110'0* *6,*0% ,- 2^ 5*2,'>+/68.'8*-*'6/.1'656 2'=6..*0'656 2.,',)*?' 620' 2' ',)*'8*-*' 1-D 00*2'12'=6 2'1'0*6,)7',1')1/0'-*/5 1;.'6..*?D/*+*2' ;5;.,2*'8)1')60' 0*=*20*0'12'>6/?'620'*6-2*.,'0 .>;..12'D* 1-*'218' 60+1>6,*0'1->*'6==*6/25',1' ;9*'L+'KN' >1?=*/ ,)*?',1'>1?*' 2J '620'*L)1-,*0',)*')*.,6,25'1 >*-' 1',)*/68',1'=-1>**0'2',)*'2/>,12'1',)*'6==1 2,*0' =*26/,*.'.6 25',)6,',' 86.' ?;>)'D*,,*-',)6,'.1?* .)1;/0'=*-.)'D ',)*-'182' -*.',)62',)6,',)*')8)1/* D10'.)1;/0'D;-2' 2',)*'*+*-/6., 25' /6?*.'1'4*)*2^ 26',)-1;5)',)*'0*.*-,'1',)*'-' ?=1;.'0..*2. 12J M&600 25,12'# ' '" ' "'=% NX% '2*8' /6?*'1'+1/*2,'0*.=*-6, 12' D-19*' 1;,% 'D .)1=' 46;0*2, ;.'*+*2'+ 20>6,*0'.;>0*'-* *-- 25' 2'A;.^ ,>6, 12',1'K <6>>% L +T'620',)-*6,*2*0' ,)6,' 62' 6,,*?=,'8*-*'?60*',1'0*=-+*')?'1')..'>)';->)'D' 1->*')*'81;/0'D;-2' ?.*/'8 ,)')'.'>125-*56, 12' 2' ,%J 2' KQ'8)*2' ->6'86.'>12_;*-*0'D ',)*' -62' 6206/.',)*' 126, .,.' .;*-*0'21'=*-.*>;, 12' -1?' ,)*?'*L>*=,'6.'60)*-.*2,.',1',)*' >*2*' -*0T'620' ,)*'5-*6,'620'/125'>12,-1+*-.'86.'218'+ -.;6//A!'*20^ *0'D ',)*'5*2*-6/0*.,-;>,12'1',)*');->)' 2' ->6' ,)-1;5)',)6,' 2+6. 12% *,',)*' 126, .,.' >12, 2;*0' ,PV.;-+ +*'6.'6'0 ., 2>,'=6-, '0182',1',)*' .L,)'>*2^ ,;- % .'?6'D*'.**2'-1?'1;-'.9*,>)',)*' 126, .,.' 8*-*' 21,')*-*, >6/'2'62'*..*2, 6/6-, >/*.'1' 6 ,)'21-'8*-*' ,)*'?*?1-6/'2'/ *'*L>*=,'6.',)>*=,'6.',)>*' ?'1'-6,' ?62'2,1'*L>*..*.' *,',)*.*'8*-*'6/86 .'0 .6==-1+*0' D ',)*'D*,,*-'>/6..% <62'1',)*'>/6-5*.'1' ??1l' -6/',' ?60*'656 2.,',)*?'6-*'-*56-0*0'6.';2 1;20*0' 1-'6,'/*6..)6.')5)/ '*L655*-6,*0% ()*.>) .?'D*562' 2'0 *-*2>*.'1'+*8'21-56-0',1'0.>=/2*'620'86.

>1 , ? >0' 620' 8 0*2*0' >12, 2 ;6// ' ?1-*' 620' ?1-*' D ')6., '620' .*+*-*' 6>, 12' 12',)*' =6-,'1 ',)*') ;->)' 620' ,6,*' 620' 5-18 25' 626, > . ? ' .*=6-6, ., >' =- 0*' 620' =6.. 12' 12',)*' =6-,' 1 ',/ *' 126, .,.,% 'A7 >)' /*. .12' 1-' ,)*') ;->)' ,)-1 ;5)' 6// 65*.' B >.' 2',)*') .,1 ' 1 ' ,) .' ->?6-/ 6D/>' .>) . ?' 620' ,)*' . ;D.*_ ;*2, ' >12,-1^ +*-. %

(1',)*' 6D1+*' 6>>1 ;2,' 1 ',)*' 126, .,. ' 8- .,*2' D ' ,)*' /6,*' /6 ?*2.*0' -Y : 6-)6 ;5) ' 81' 6==*20' 6' *8' 21^ , >*.' ' + *8 .')*/0' 8 ,)' -*56-0', 1',)*? ' D ' 8- ,*-.' 8)1' A ;., ',)* -'=1. , 12 ' ?1-*' 1-'/*..' ;// ' -1?',)*' 212C =-*/6, >6/ =1 2,' 1 '+ *8% >)*291/' 2' : *-[15 .' 5 =6 % 'M6-,%') " ' + ' 4 X' .=*69.' 1 ' 126, . ?' 6.' 62' 6,,* ? = ;' M. ? /6-,1',)6,' 1 ',)*' 1+6, 62.X',1' D-*69',)*')6-0' .)*//7 '*L^ ,*-26/* *>>/*. 6., > . ? ' 620', 1' D- 25' 1 ;' 656 2' -1?' ,)*' 0*60' ?6..' 1 '. ?=/ ' D6=, [*0')- ., 62. ',)*' =;-*') ;->)' 1 ',)*' -*5*2*-6,*T', 1' . ;D., , ;,*' 2' 6' 81-0' ,)*')- ., 62' >1? ?;2 12' 1-' 62' *>>/*. 6., >6/ >1-=1^ -6, 12% ' ;5 ;., 2*' 2' 1==1. 25',)*' 126, .,. ' 8*2, .1' 6-' I6% J' >/L ' SX' 6.' ,1' >6// .*=6-6, 12' -1?' ,)*' = .>1=6/) ;->)' 6' >- ?*' 620', 1' .6 ' ,)6, '21' .*=6-6^ , . ,'>1 ;/0' D*' .6+*O%J' ()*' _ ;*., 12', ;-2*0' M >)*29*/ =-1>**0.X' 2' 6>, ' ;=12' ,)6, ' 1 ') ;->)' 620' ,6,*% ()*' 126, .,.' .68',)6, ',)*' ;2 , ' 620' -**01?' 1 ',)*') ;->)' 8*-*' ?=*- //*0' D ' ,.' ;2 12' 8 ,)',)*' ,6,*' 620',)* ' 0*>/6-*0' 656 2..',)*' ,6,*C) ;->)' 01>,- 2*' ,)*2' M;20*-' 12.,62, 2*' 620') .' . ;>>*..1-.X' 6' 2*8' ,) 25 ' ;5 ;., 2*' 21,' 12/ '601=,*0',)*' ,6,*C) ;->)' ,)*1- ' D ;,' =;.)*0' , ',1' ,.' /*5 , ?6,*' >12.*_ ;*2>*' ,)6,',)*' ,6,*' .' D1 ;20' ,1' =;,' 0182' .*=6-6, .,.' D ' 1->*% **' $ $! ', ' .'=*-)6=. '21,',11' ?;>)' ,1' .6 ',)6,',)*' 1?62' 6,)1/ >' >1>/*. 6., >6/ . ..,*?' -*.,.' 12' ;5 ;., 2* .' 01>,- 2*' 1 ',)*') ;->)' 6.' .*,' 1-,)' 2') .' 8- , 25.' 656 2..',)*' 126, .,.% ()*' 126, .,' 01>,- 2*' 86.',)6,',)*' ,-;*') ;->)' , >1?=1.*0' 12/ ' 1 '=;-*')- , 62.T ;5 ;., 2*' 12',)*' 1,)*-')620 ')*/0',)6,',)*' ') ;->)' >12. .,' 1 ',)*' .;?' ,1,6/ 1 '6/',)*' D6=, [*0' 620',)6,',)*' 0*6/ .62>, , ' 1 ' ,)*') ;->)' .' 21,' ?=6 -*0' D ' ?=;-*' */*?*2,.'=L,*-C' 26//E' >122*>,*0' 8 ,)' ,% :*' 2*+*-,' .' 6', -;*')- ., 62' .' ,1' ;.' 6' 6,)1/ >TJ' ;5 ;., 2*' .6 0' 1' ?62' >62')6+*')- .,' 1-') .')*60' 8)1' .' 21,' 6' ?*?D*-' 1 ') .' F10 ' ,)*' M) ;-> /%J' *620*-' ,) 29.' ,/ *-* 1-*' ,)6, ')60',)*' =6-, *.' ;// ' ;20*-.,110' 620' -*>152 .*0',)*' 0 ., 2>^ , 12' 2', /S' 0*6' 1 ',)*') ;->)' 6.' + . D/*' 620' 2+ . D/*J' M8) >)' ;5 ;., 2*' >6?*' 2*6-',1 ' D ;'0 0' 21,' >6-- '1 ;,X' ,)* ' ? 5),')6+*' >1?*' ,1' 62' 65-**?*2,' 8 ,)' *6>) 1,)*-' ID ' ' 1' /620 .' ,-62 ./% ' >O% 1)2' 'N X% ()*' .;DA*>,' .' +*- ' 8*// ,-*6,*0' -1?',) ' =1 2,' 1 '+ *8 'D ;' 8 ,)' .,-125* ' 20*=*20*2,'/*62 25. ' 2' ;2>)6-0 ' # ' ' 1' % ' Q ' +1/% ' >D% $% ,,12' M62' ;2=-*/6, >6/ = .>1=6/ 62X')1/0.' ,)6,' 126, . ?' .=-625' -1?' 6' =- 2> =/*' ,-;*' 2' ,..*/ 'D ;' =;.)*0' D* 120',)*' / ? ,' 1 '.1D- *, J' M ,^ ,12' -" ' " ' "' ' " ' 12012' Q '=% QX% **' 6/.1' 11=*-' -" ' @ ' " "' '& ' " ' M 120% Q N' =% NS ' . %X%

()*' .1 ;->*.' 1-',)*') .,1-E' 1 ' 126, . ?' 6-*' 5 +*2' D ' -% >)6 '># ' ' " ' " ' " "' ' NS a ' ' ;5 ;., 2*' 81-9.' 656 2.',)*' 126, .,.T =,6/ ;.' < C /*+ ,2;<;' M6D1 ;' N X' ' ' $ " ' ' ;' 2 ' ' ' ' ' !' " '% ' M 6-% XT 6 % ' '$ % ' ' ' ' =' ' '% ' 6',)*' >/1.*' 1 ',)*' R,)' +1/% 1 ',)*' *2*0% *0% 1 ' ;5 ;., 2*.' 81-9.% ()*' /.*-6^ , ;-*' 6/*. ;.' ' ' '$ " ! ' ' M6==*20*0', 1') .' >0% 1 ' ;.*D ;.X' & 6/>) ' ' ') / ' *,>%%

f 1/% +' 3 *620*-' " "' # ' M(1--*A7 .' ' KQK' . _%X' 1 ;L ' ' & ' ' ' ' M ;50% 6,% QNQX' DD*>9' ' ' ! 1 ' 1 ' ' ' " ') % '/ & " '$ % ' ! ') " 'M //X*-% Q QX' (//*?12, ' 'M -;L*//*. ' NKX' +A' CRQT -21/0') " != !1) / " ' D9% '>)% + ' 620',)*' 1,)*-' 81-9.' > , *0' 6D1+*% 126, +*' 2' 25' .)*' *>>/*. 6., >6/ /68' .' 6' D*?' * >*' ?60*' D ',)*' 9 25' M1-' 62' . ;DA*>,' D ') ./ >*2.*X' 8)1' 1;20.' 6' >) ;->)' 1-' >)6=*/' 620' 1-06 2.' ,)6, ' .)6// D*' ?*-*/ ' 2' ,)*' 5 ,' 1-' 0 .=1.6/ 1 ',)*' =6,-12' 620' +*.,*0' 6D.1/ ;,*/ ' 2' ,)*' >/*-9' D ' ,)*' =6,-12 ,' 0**0' 1 ' 0126, 12' 8 ,)1 ;,' =-*. *2,6, 12' 2., , ;, 12' 1-' 20 ;>, 12% ( ) .' .' .6 0', 1') 6+*' D**2' 62> *2,/ ',)*' 12/ ' 86 ' 1 '>12 *-- 25' *>>/*. 6., >6/ D*2* >*.' 2' 25^ /620' 1',)*' ?*,)10' 1 ' 2., , ;, 12' D ',)*' D .)1=' 21,')6+^ 25' D**2' *.,6D/ .)*0' D* 1-*' ,)*' , ?*' 1 ' 6->)D .)1=' *>9*,' 2',)*' -* 52' 1 ' : *2- ' %' //' D .)1=- >. ' D*^ 25' 1 ' -1 6/ 1;206, 12' 8*-*' 1- 5 26// ' 0126, +*.% ' 1 : 119 ' " "' ' .%+%

f 1;6, ')$ ' 2', 6/ 62' >6-0 26/ ' 86.' 6' 26, +*' 1 ' *2 >*' 620' *2,*-*0',)*' -62> .>62' 1-0*-' 6, '62' *6-/ ' 65*% : 1' 86.' 12*' 1 ',)*' 1;20*-.C1 ',)*' .>)11/ 1 ',)*^ 1/15 ' 2',)*' $2 +*-.,' 1 ' 1/1526' 8)>)' 2',)*' =6^ =6/ .>) . ?' 1 ',)*' ,)' >*2,;- ' 0*>/6-*0' 1-' $-D62' % 2' N R' $-D62' -*86-0*0' 126,1' 1-',) .' .*-+ >*' D ' >6;. 25') ?' ,1' D*' >)1.*2' 5*2*-6/ 1 ',)*' -62> .>62' 1-0*-.% 2' NQ ')*' 86.' >-*6,*0' >6-0 26/ 1 ' %hf 6-9' 620' 2',)*' 2*L,' *6-' 86.' .*2,' D ' $-D62' 12' 6' ? .. 12' ,1')6-/*.' '9 25' 1 ' 6=/*.' 1-') .' 862,' 1 ' .;>>*.. 2%8) >)' ? .. 12',)*' =1=*' 6--*.,*0') ?' B62% N NQ % :*' 86.' >)6-5*0' 8 ,)' >12.= -6> ' 6/125' 8 ,)' +*' 1,)*-' >6-0 26/. ' 620' 86.' =;,' ,1',)*' ,1-,;-*' 2' =-*.*2>*' 1 ',)*' =1=*') ?.*/ % :*' 86.' 6 ,*-86-0.' 0*>6= ,6,*0% ' .C ?120 ' # ' ' 5 (% " 4 ' '+ ' K T ' : 1*C *-' 7 !' ; !' ? ' L + ' NR' 7 126, ;.' 1 ' 6..*' 5-e% ** ! 126, ;.',)*' 4 -*6,% ** ! 129*-' ;-, ;.' % ' % ' 86.' D1-2' 6,' : *-,15*2D1.>)' 2' Q% ',),)*' 65*' 1 '. L,**2')*' *2^ ,*-*0',)*' $2 +*-., '1 '$,-*>),% : *' 6==/ *0') ?.*/ ' 6,) ;// ', 1') .' .,;0 *.' 620' 0 0' 21,' 6//18') ?.*/ ',1' D*' 0-682' 6. 0*' D ',)*' =1/ , >6/ *L> , *?*2,.' 1 ',)*', ?*% 2',)*1/15 ')*' *2A1 *0',)*' =- + /*51 I 1 ' / . ,*2G7', 1' ,)*' 2.,-;>, 12.' 1 ',)*' 6D/*6-2*0' : *- 256 f+)1')60' D ;,' 6' .)1-,', ?*' D* 1-*' D**2' 20 ;>,*0' 2,1',)*' 1 ^ >*' 1 '=-1 *..1-' 1 ',)*1/15 ' 2',)6,' 2., , ;, 12% : 5)^ / '=- [25' 620' 6 ,) ;// ' ?=-1+ 25',) .' =- + /*5*')*' -* /*>,*0')121-' ;=12') .' 6D/*' 620' 6 ,) ;/ 2.,-;>,1-% ,',)*' 65*' 1 ', 8*2,A C,8 ')*' *2,*-*0',)*' ? 2 .,- '620' 6 ,*-' .=*20 25' 6' *6-' 0-' ?1-*' 2'=/6>*.' 1 '/*..' 21,*')*' 86.' >6//*0', 1' -2)*?' 8)*-*')*' >12, 2;*0', 1' /6D1-' 6 ,) ;// ', 1' ,)*' , ?*' 1 ') .' 0*6,) ' 8) >)' 1>>;--*0' B ;/ ' K QNR% ()*' 2 /;*2>*' 1 ' 129*-' 12',)*' *^ 1-?*0') ;->)' 1 ' : 1//620' 86.' +*- '5-*6,% :*' 86.' 6' =1=;/6-' 620' */1_ ;*2,' =-*6>)*-% : .' ., /*' 86.' =*-^ .=>;1;.' /18 25' 620' + 51-1 ;.% 1-' ,8 >2, ' *6-.' 1-' ?1-*')*' >120 ;>,*0',)*' ? ' ; ' 6',)*1^ /15 >6/ A1 ;-26/ 1 ') 5)' >)6-6>,*-% 2' QK ') .' *..6 ' 12' D ' ' ' ' ' ? ' / ' % " ' ' ' ' ' / ' ' ' ' ' ? ' -*>* +*0',)*' 51/0' ?*06/ -1?',)*' : 65 ;*' 1> *, % 1-' ?62 ' *6-.')*' 86.' * ',)*-' =-*. 0*2,' 1-' + >*C=(*. 0 2, ' 1 ',)*' 4*2*-6/ 210' 1 ',)*' * 1-?*0') ;->)% 2' -*5 ;/6, 25',)*1' 51+*-2 ?*2,' 620' 0 .> =/ 2*' 1 ',)*') ;->) ' 2' 60+62>^ 25',)*1/15 >6/ .> *2>*' 620' 2' */*+6, 25',)*' ..6206-0' 1 ' D D/ >6/ .>)1/6-.) =' 2' -* *-*2>*', 1' >620 06,*.' 1-' ,)*' ? 2 .,- ')*' /6D1-*0' [*6/1 ;./ ' 620' . ;>>*.. ;// %Y 122*' (' ' % %' 0*62' 1 ' ,% 6;/ .' 86.' D1?' 2' 12012' 2' S N% :*' -*>* +*0',)*' 2., ;>, 12.' 1 ' 6' =- +6,*', ;, ,1-' 6,')1?*' ;2, / Q '8)*2')*' *2,*-*0' : 6-,' 1//*5*' L 1-0' -1?' 8)*2>*')*' 8*2, ,1' (- 2 , ' 1/C f /*5*' 6?D- 05*' 2' Q % :*', 119' 21' 0*5-**' 6,'*,)*-' ;2 +*-. , ' 6.') .' =6-*2,.')60' D-1 ;5),') ?' ;=' 2',)*' 1?62') ;->)' 620' 8*-*' ;28 // 25' 1-') ?' ,1', 69*' ,)*' 2*>*..6-77' 16,) .% ',)*' 65*' 1 '.*+*2,**2')*' >1?C

.') .' 6 '26?*0'6D1+*¶ : *' .',)-125)1;,'6'=1/*?^ >'D;,'6' =1/*? >' 6 ,*-',)*' 1-0*-' 1 ' : 119*-' 8)1.*' .1^ 21-1;.'=*- 10.')*' 6/12*' 1 '?10*-2.'- +6/. '8 ,)'5-*6,^ *-'=-*> . 12 '>1--*>,2*.. '620'*/*562>*¶ ()*' D119' .'6' ,-*2>)62,I12./6 ;5),'12' -1,*..62, . ?'620' D*-6/ . ?↑ 62'*6-2*.., ';2_;*., 12 25'60+1>6> '620'*;/15 '1 ' 1^ ?62' 6,)1/ > .?' 620'6//' ,.'62> *2,' ;.65*.'01>,- 2*.' 620'=1/ > ¶ *',',6 1-0.'6'D- 5),'*L) D , 12' 1 '=;-*' 2,*//*>,'620'/1 , '.*2, ?*2,¶ ()*' 8 - .*-' .'6'/15 > 62' D ') . 2,*//*>,'620'.1?*.), 25'1 '6'? ., >'D ') .') *6-,¶ 41 ' .' *+*-' =-*.*2,%,1') .' ? 20 '620',)*' -*0*?=, 12' 1 ' ?62' .' *+*-' 12') .' / =.¶ *' .' 21' 20*=*20*2,' ,?>*-,6 2 '6-D .,6- ') ; ?62' *+1/;, 12¶ ,' .',)*' 0-*60' ,-65*0 '6>,*0' 12' *6-,)' D ' -*.=12. D/*' D* 25.' 2' ,)*' =-*.*2>*' 1 ')*6+*2' 620'1 ')*// '8 ,)',)*' >*-,6 2, '1 ',)*' 12*' 6.' 6' -*>1?=*2.*' 1-' 1 ',)*' 1,)*-' 6.' 6'011?¶ 6, 12.'6.' 8*// 6.' 20 + 0;6/.' 6-*' 12',)*' -',- 6/' 2',)*' 68 ;/6-*26'8)>)' .'=-*. 0*0'1+*-'D ',)*' /? 5), ' =-*=6-*0',1' ..;*') .'*,*-26/ ;05?*2,.¶ ()*' >1;-.*' 1 ',)1;5),' 2',)*' 6 ' .'6D1;,'6.' 1//18.d <62'>-*^ 6,*0' 2',)*' ?65*' 1 ') .' <69*-' 6//.'D '0 .1D*0*2>*¶ 2'*2,*-*0' 2,1',)*' 81-/0'620'0*6,)'D '. 2¶ ()*'>;-.*' .'-*6/ [*0' 2',)*' 6/ *26, 12' 1',)*' . 22*-' -1?'410¶'620' 2',)*' 2,-10;>, 12' 1 '0 .1-0*-' 620' + 1/*2>*' 2,1' 6//,)*' =)6.*.' 1 ');?62'/ *'620' 2,1',)*' 8)1/*' >12.,,;^ , 12'1 '26,;-*¶ ' .>1-0'12',)*'?;. >' *// '620'06-9^ 2*..' 12',)*' 5/1- ¶J' JB()*' 8)1/*' 81-/0'5-162*,)' ;2^ , /'218¶J' : */=/*.. '6==6-*2,/ '0 .>6-0*0'620',;-2*0' 1+*-',1',)*' >1;2.*/.' 620'=6.. 12'?6,)*' .'182'0*=-6+*0')*6-,'?62' 6//.' 2,1'6//,)*' >1--;=, 12.'620'6D*--6, 12.' 1 ')*6,)*2 .?¶ *0**?*0'6,'/6.,'D '0 + 2*' 5-6>*' 620' 6'0 + 2*' *L= 6, 12',)*' 81-9' 1 '-*5*2*-6, 12' 620'-*.^ ,1-6, 12' >1?7*2>*.¶)- ., 62 , '>)625*.',)*' .= 7 ,' 1',)*' 81-/0' 620' -*>-*6,*.' .1> *, ¶ ,' >)625*.' ,)*' -*/6, 12' 1 '?62',1') .' -*6,1-' 620',1') .' */18'0' ?62¶ ()*' / ,,/*' /*6+*2' *-?*2,. ' 620'/*6+*2*,)',)*' 8)1/*' /;?='620'> + / [6, 12' .1 8/ '0*>1?*.']*0' =*-.12' .620.' 2',)*' ,)-1;5)1;,' 2..,*60' 1 '=6562¶ ()*' -625*' 1 ' ?62 .' >12,*?=/6, 12' .' *2/6-5*0'620') .'.E7?=6,)*.' *L=620^ *0↑') .' -*6.12' .' .,-*25,)*2*0') .' 9218/>05N' 6;5^ ?*2,*0') .' 01? 2 12' 1+*-',)1;5),'620' ?6,,*-' .' 2^ >-*6.*0↑D;,' 2',)*' =- 0*' 1 ' 2,*//*>,')*' >/6 ?.'656 2' 3,)*' 9218/*05*' 1 '5110'620'*+ /↑)*' .=*>;/6,*.'6D1;,' 6//',) 25.↑)*' 0-65.'-*+*/6, 12'620',)*' 1-0 262>*.' 1 ' 410'D* 1-*',)*',- D;26/1') .' 182'; 20*-.,620 25↑)*' ?6 2,6 2.',)*' .1+*-* 52, '1 ' <.'182'>6=- >*.')62,6^ .*.'620'=6.. 12.↑)*' 26;5;-6,*.' 12' *6-,)'6'2*8'-*^ +1/,'. ? /6-',1',)6,' 8)>)' >6.',)*' -*D*// 1;.' 625*/.' 1;,'1')*6+*2¶ ()*' =6.. 126,*' +6> //6, 12.' 1-' +656^ - *.' 1',)*' 20 + 0;6/ 1-' 1',)*' ?6..' 6-*' .;D.,;,*0' 1-',)*' 0*>-**.' 1',)*' /? 5), '620'D*2* >*2,' 6,)*-' 1 '6//¶ ()*' ;-1;.' 6==*,*2> *.' 1 '=-0*'5-**0'A*6/^ 1;. '620'/;,'6-*',69*2',1'D*' >6212.' 1 '=1/,>6/ 620' .1> 6/ 8 .01?' 2..,*60' 1 ',)*' =-*>*=,.' 1 ',)*' ?1-6/ /68'620'1 1D*> *2>*',1'>12.,,;,*0'6;,)1-,*.' .2>*' ,)*' =18*-.',)6,'D*' -*.=12. D/*' D* 25.' 2',)*' >12.*_;*2>*.' 1 ' 2 '0 .1-^ 0*-'>-?*'86-'8-*,>)*02*..' ?=1,*2> '*20 25' 2'=1^ /,>6/620'.1> 6/0..1/;,12¶ ()*'/68'1',)*' 41.=*/.' ,)*' /68'1'=*- *>,'/D*-,¶ ()*'>6-26/?20'.'*2?,I' 8 ,)'4101'620',)*' /68'1'?62'.'*2./6+*?*2,',1',)*' =6.. 12.'=-1+19 25' 2+, 257'2*>*.. ,6, 25'620'?6^ ,;-25',)*',-62_A71' 1->*' 12'*6-,)'620'*,*-26/,1-^ ?*2,.')*-*6,*-¶ ;>)' 2'5*2*-6/,*-?.'620'0+*.,*0'1',.'=6-,.62' >1/1-25'.',)*'.;D.,62>*'1',)..'.=/*20 0'*..6 '8)>)' D*/125.',1',)*'.6?*'5*2*-6/, =*'1'.=*>;/6, 12'6.',)*' 5-620'1-'5-6>* ;/=-10;>, 12.'1' 1..;*,' 7<6 .,-*')6,*6;D-620'620'<12,6/*?)*-,¶ ;',)*'6;,)1-.' =1/, >6/6D.1/;,.?'86.'6'D60'2*-*2>*'-1?',)*'.1;20' ,)*1/15 '1') .'6 :'620'8)/*',)*'0-*>,'2/;*2>*' 1 'D .'D119' .'>12.*-+6,+*' ,.';/,?6,*' * *>,'01;D,C' /*..'86.',1'2>-*6.*',)*'6,)* .,>',*20*2> ' 2' ;-1=*' D '>12 1;20 25')-.,62 ,A!' 8 ,)'0*.=1,.?¶ **' 6' 0 .>-?26, 25'*..6 '2',)-" ' " ' =-/' Q4 ' 6-,¶ 1' 6/.1';" '$ ' >,¶ QSS'=¶S R¶ '/ *' 1' 121.1C 1-,*.' 86.' 8-.,,*2' D ' (*A6O6'620' .' *?^ D-6>*0' 2',)*'0 ,12'1') .'81-9.¶

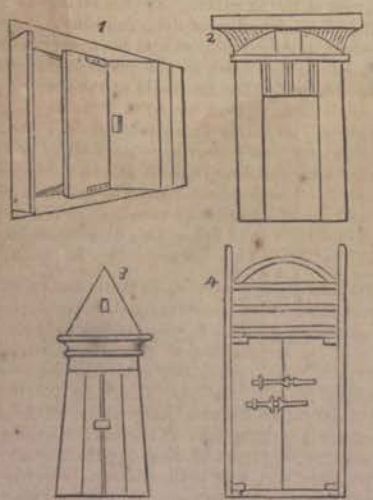
12;?' ;=*-600/,,;?'1-' ;=*-26,;-6/7' 6'0*. 526, 12'1',)*'.>)1/6.,>'01>,-2*'1' .;=*-600C' *0'5-6>*J'5+*2',1' 06?' 2'600 ,12',1') .' 26,;-6/' =18*-.'620'8)>)'5-6>*')*/1.;'D',)*' 6//¶ >>1-0^ 25',1'.1?*'1',)*' .>)1/6.,>'0+2*.'M >1,;.' -5*26' 126+*2,;-6' *,>%X' 1-5 26/ -5),*1;.2*..' 5, 0%¶ ' ! 0' 86.' 600*0',1'?62.' 26,;-6/=18*-.' 5 , ' ! ZA* A' 6.' 6' /, '0, . ¶, ' _;'26.')*/0' M=,¶ '_;¶R '6-,¶RX',)6,'?62'86.'-. ¶. '2'=1..*.. 12' 1 '1-5 26/-5),*1;.2*.. ',//')18*+*-' 6.'6'5-6>*.;C' =*-600*0',1') .'26,;-6/=18*-.%

<1)/*-',);.',6,*.',)*'01>,-2*a' 1' 2,*'D10' >62'*L .,'2'6/+25'?1-6/>1?7;2 12'8 ,)',)*'0*, ' .6+*'D ',)*'>1?7;2 12'1',)*':1/' =-,¶ ()..'-*^ /6, 12'1' 06?',1' 10'6.',*L6/,*0') ?'6D1+*'D;?6;* 26,;-*'620'?60*') ?'=6-,>=6,*' 2',)6,'1' 410 I'.')*2>*',*-?*0'6'.;=*-26,;-6/5 ,'1'5-6>*' % ' ,1',)*'*2018?*2,.'1'26,;-*¶ ().' .'21,'?*-*/'6' =-+6,*'1=2 12'1',)*'1/*15 62.'D;,'6'015?6J'I1$ E =' 'D9¶'=,¶'g' ¶ Q Q+1↑.**'6/.1',)*' =' " '5 ' 'K' R↑ */6-?2'? '% ' " 'K↑>,6, 12.'2'! 2>-' % !'' X¶ -¶B¶:¶*8?62'8)/*' *,' 2',)*');->)'1' 25/620,6;5),',)'01>,-2*↑ &)6,' 06?/1.,'2' .22_5'86.'6'.;=*-26,,-6/*2018?*2,J'I ' ' D ' X↑.1'6/.1'6->)0*6>12' & /D*-1->*a' ()*'/9*2*..'1'410'?;.,')6+*'D**2'.1?*'0+2*' =-*.*2>*' % ',1'=-?,1-*'0+2*' =-*.*2>*' .'-*.,1-*0'D'D6=,.?'.1',)6,'6'D6=,[*0'=*-.12' .620.'2',)*' >120,12'1' 06?'D* 1-*',)*' 6//¶ ')*'51*.'6.,-6')*' .',1'D*'-*.,1-*0'D '>12*.. 12'6D.1/;,12'620',)*' .6>-6?*2,'1'=*262>*¶ **' -0'$ '$ ' M 12012' Q X'g↑' :65*2D6>)'# ' ' ' M ?,)'.'*0,¶'g 'K ↑B6>9.12' 'L'Q'M L^ 1-0X↑ >620*-'# ' '' 'M 1)2.'*0,¶X' ' S ¶ **? ' '& 'g 6< ? !

11/,,*/'M1-' 3'0' <¶I ¶'6' 12>12 1-?.,'0+2*'86.'D1?'6,' 00*-?2.,*-' 25/620'2' SN↑86.'*0;>6,*0'6,' *?D-19*' :6//' 6?D-05*'620'D*>6?*'?2.,*-'1',¶ /=)65*' 12^ 012¶ A*>,*0'2' SSK')*',6;5),'.>)11/2'<11-*/0.' 620'6,*-86-0.'6,' 110 1-0' -05*¶ *,;-2 25',1' 12012'6,*-',)*'=/65;*')*')60'6'?**,25C)1?*'D;/,' 2'<1298*//,-**,' 12¶/12'8)*-*')*'>12,2;*0')' ?2.,-'M8,)'.1?*' 2,*--;=,12.'-1?'=*-.*>;,12¶ ;2,/')'.'0*6,)'<6'K ¶ :'8-,25.'D*>6?*' +*-'1=;/6-↑,)*'=-2>=6/6-*'&'- ' "' $'$ %%¶'M 120¶R,)*0,¶ S K?18ST ' ' " ' ' '6 %'" ' ' '" ' ' M 12012' QN Q?18ST % '" ' ' " ' ' M12' .6¶ L' 8S T&' 51 D ' '$ ' M S N8S T&' % ';' '' 'M KN' 1/X'*,>¶ ' 6-/25' % ';' %" ' 'R ↑ 6/6?' 7 (' 'Q'M*0'1' QX¶ 1

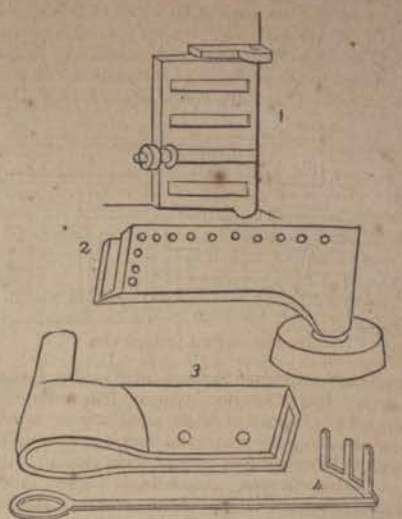
11-'M;.;6// ' ("'.-,>,/',)*' 1-' =6-,',)6,'.8 25.'12',)*')25*.↑8)/* 0*. 526,*.',)*'2,-62>*' 1-' = :' + (' .' -6,)*-'6' :4-¶1 % 8!' -1?'6'>1?=6-.12'1'+6-^ 1;'=6..65*.'1' >-=,;-*7' 8*'/*6-2',)6,'62>*2,/' ¶ 011-.'8*-*'.;.=*20*0'620'?1+*0'D'?*62.'1'=+1,.' 1'8110'8)>)'=-1A*>,*0' -1?',)*' *20.'1',)*',81' 1/0.'D1,)'6D1+*'620'D*18¶ ()*:==*-'=+1,.'8)>)' 8*-*',)*'/125*.,'8*-*' 2.*-,*0'2'.1>9*,.';> *2,/' /6-5*',1'-*>*+*',)*?'1'2',)*'/7',)*'/18*-'12*.' 8*-*'.*>;-*0'2'6'>1--*.=120 25'?622*-'2',)*',)-*.)^ 1/0¶ ()*=+1,.'1-'6L/*.'6-*'>6//*0' % + +(: ,)*'.1>9*,.'2'8)>)',)*'6-*'2.*-,*0' (

(Prov. xxvi, 14). Doors were fastened by a lock (Cant. v, 5), or by a bar (Judg. xvi, 3; Job xxxviii, 10). Those made of iron and brass were not used except as a security to the gates of fortified places or repositories of valuables (Isa. xlv, 2, 3). The lock was nothing more than a wooden slide attached to one of the folds, which entered into a hole in the door-post, and was secured there by teeth cut into it, or catches. Two strings passed through an orifice leading to the external side of the door. A man going out, by the aid of one of these strings moved the slide into its place in the post, where it was so fastened among the teeth, or catches, as not to be drawn back. The one coming in, who wished to unlock, had a wooden key, sufficiently large, and crooked, like a sickle. It was called מַפְתֵּחַ, *miphtach'* (Judg. iii, 25). He thrust the key through the orifice of the door, or key-hole, lifted up the slide so as to extricate it from the catches, and, taking hold of the other string, drew it back, and thus entered. Keys were not made of metal, except for the rich and powerful, and these were sometimes adorned with an ivory handle. A key of this kind, in the days of the Hebrew monarchs, was assigned to the steward of the royal palace as a mark of his office, and he carried it on his shoulder (Isa. xxii, 22). The key-hole was sometimes so large as to admit a person's finger through it, and enable him to lift



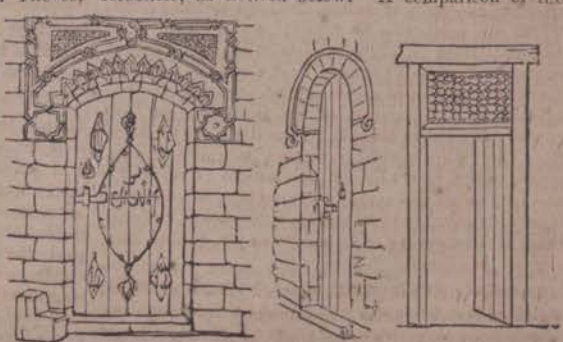
Ancient Egyptian Doors.

the slide; in that case he stood in no absolute need of a key to enter (Cant. v, 4). See KEY. Among the ancient Egyptians doors were frequently stained so as to imitate foreign wood. They were either of one or two valves, turning on pins of metal, and were secured within by bars and bolts. Some of the bronze pins have been discovered in the tombs of Thebes, and two of them, after Wilkinson, are figured below (2, 3). They were fastened to the wood with nails of the same metal. See HINGE. The stone lintels and floor behind the threshold of the tombs and temples still exhibit the holes in which the pins turned, as well as those of the bolts and bars, and the recess for receiving the opening valves. The folding doors had bolts in the centre, sometimes above as well as below; a bar was placed across from one wall to the other, and in many cases they were secured by wooden locks passing over the centre (above cut, fig. 4) at the junction of the two folds. "It is difficult (remarks Sir J. G. Wilkinson) to say if these last were opened by a key, or merely slided backward and forward like a bolt; but if they were really locks, they were probably upon the principle of those now used in Egypt, which are of



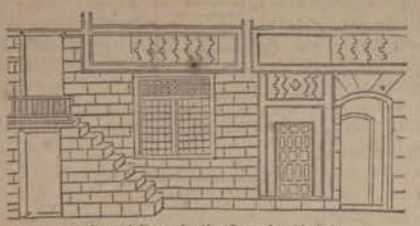
Ancient Egyptian Bolt, Hinges, and Key to a Door.

wood, and opened by a key furnished with several pins answering to a smaller number that fall down into the hollow movable tongue, into which the key is introduced when they open or fasten the lock." See LOCK. For greater security, they are also occasionally sealed with a mass of clay. This was also a custom of the ancient Egyptians, as appears from Herodotus (ii, 121), from tombs actually so closed at Thebes, and from the sculptures, as in the first cut above, fig. 3, where the door is thus closed and sealed. To this custom there is an allusion in Job. See CLAY. At a later period, when iron came into general use, keys were made of that metal, of the shape shown in the above cut, fig. 4. Of the kind thus indicated were probably the lock and key which fastened the summer-parlor of king Eglon (Judg. iii, 23, 25). In this case Ehud locked the door and took away the key; but when the servants became alarmed they easily opened it with another key, which suggests that the lock, as in ancient Egypt or the modern East, was nothing more than a peculiarly constructed open bolt of wood, which the wooden or metal key was adapted to raise and thrust back. The forms of the Egyptian doors may be seen from the cuts. (See Wilkinson, *Anc. Egypt.* abridgm. i, 7-23.) The chief entrance to houses was through a pyramidal pylon on a projecting porch of columns, whose capitals were often ornamented with ribbons. Over the doorway was sometimes a brief hieroglyphical legend (Wathen, p. 101). This last circumstance reminds one of the writing on their doors recommended to the Israelites, as noticed below. A comparison of the



Modern Oriental Street-doors.

ancient Egyptian doors with those now used in the East will probably suggest no incorrect notion of the provision among the ancient Hebrews in this respect. A sort of intermediate idea arising from this comparison will be found to furnish very satisfactory illustrations of most of the passages of Scripture which relate to the subject. (See Lane's *Mod. Eg.* i, 9, 18.) Doors



Oriental Door in the Interior Court.

are generally unpainted throughout Western Asia and in Egypt. In the interior of houses it is not unusual to see curtains instead of doors, especially in summer. This helps to keep the apartment cool, and also enables servants to enter without noise. This custom originated in the use of tents. Accordingly we find that all the entrances of the tabernacle had curtains, although the framework was of wood (Exod. xxvi, 31–33, 36, 37);

Common Oriental Door.

and even in the Temple a curtain or "vail" formed the separation between the holy and the most holy place. See HOUSE. The word "door," in reference to a tent, expresses the opening made by dispensing with the cloths in front of the tent, which is then supported only by the hinder and middle poles (Gen. xviii, 2; Burckhardt, *Notes on Bed.* i, 42).

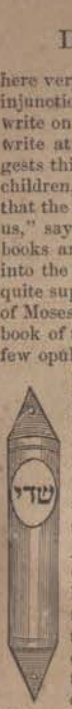
Among the figurative allusions to doors, it may be mentioned that, in Hosea ii, 15, the valley of Achor is called "a door of hope," because there, immediately after the execution of Achan, the Lord said to Joshua, "Fear not, neither be dismayed;" and from that time Joshua carried on his conquests with uninterrupted success. Paul, in 1 Cor. xvi, 9; 2 Cor. ii, 12; Col. iv, 3, uses the symbol of a door opened, to signify the free exercise and propagation of the Gospel. Our Lord applies the term to himself, "I am the door" (John x, 9). The "door opened in heaven" signifies the beginning of a new kind of government (Rev. iv, 1); and in general the opening of anything is said when it may act suitably to its quality; the shutting of anything is the stopping of its use (Wemyss, *Symbol. Dict.* s. v.). See GATE.

DOOR-KEEPER (שׁוֹעֵר, *shŏer'*, 1 Chron. xv, 23, 24, a *gate-tender*, or "porter," as elsewhere rendered; but in Psa. lxxxiv, 11, סָפַף, *saphaph'*, to *sit at the threshold*; Sept. παραπίπτεσθαι; Vulg. *abjectus esse*; Gr. θυρωρός, John xviii, 16, 17; elsewhere likewise "*porter*"), a person appointed to keep the street-door leading by an alley-way to the interior entrance of an Oriental house (q. v.). This was originally doubtless a male, but in later times, in imitation perhaps of Greek and Roman usages (see Kitto, *Pict. Bible*, note on John l. c.; no such custom, however, appears in classical writers; see Smith's *Dict. of Class. Antiq.* p. 514 b, 527 b), a female janitress or portress often held this post (John xviii, 16; Acts xii, 13). See PORTER. In Psa. lxxxiv, 10, the word "door-keeper" does not convey the proper meaning of the original, because the preference of the Psalmist was evidently given to a very humble situation, whereas that of a door-keeper, in Eastern estimation, is truly respectable and confidential. The gods are always represented as having door-keepers, who were of great dignity and power, as they also fought against other deities. In the heathen temples there are images near the entrance called *kaval karan*, guards, or door-keepers. See ANUBIS; ASP. Kings and great men, also, have officers whose business it is to stand at the door or gate as keepers of the entrance. The most dignified native of Ceylon is the *maha modeliar* of the governor's gate, to whom all others must make obeisance. The word door-keeper, therefore, does not convey the idea of humility, but of honor. The marginal reading of our version, however, to "sit at the threshold," at once strikes an Eastern mind as a situation of deep humility. See the poor heathen devotee; he goes and sits near the threshold of his temple. Look at the beggar; he sits or prostrates himself at the threshold of the door or gate till he shall have gained his suit. "I am in great trouble; I will go and lie down at the door of the temple." "Friend, you appear to be very ill." "Yes." "Then go and prostrate yourself at the threshold of the temple." The Psalmist therefore probably refers to the attitude of a beggar or suppliant at the threshold of the house of the Lord as being preferable to the splendid dwellings of the wicked. See BEGGAR.

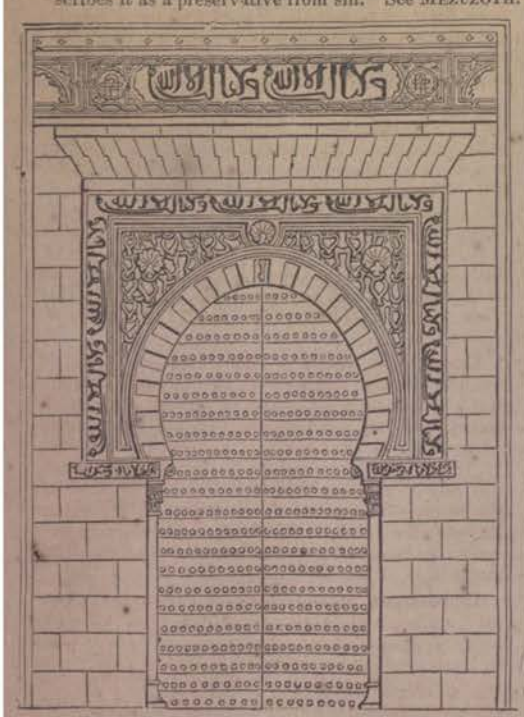
DOOR-KEEPERS (*ostiarii*), in the ancient Church, a class of church officers forming the lowest clerical order. Their duties were to open and close the doors, not only at the termination of religious worship, but during the services, especially after the *missa catechumenorum* (q. v.). In later times, in the Roman Church, their duties became nearly those of the modern sexton, viz. to take care of the church ornaments and vessels, to ring the bell, to sweep the church, etc. The customary forms of ordination are prescribed in the fourth council of Carthage; and the keys were delivered to them by the bishop, with the injunction, "Behave thyself as one who must give account to God of the things that are kept locked under these keys." Their ordinary name was πυλωροί, *ostiarii*, and sometimes *mansionarii* and *janitores*.—Bingham, *Orig. Eccles.* bk. iii, ch. vi.

DOOR-POST (סַף, *saph*, Ezek. xli, 16, the *sill* or "threshold," as elsewhere usually rendered; מַשְׁקוֹף, *mashkoph'*, Ezek. xii, 7; the *lintel*, as elsewhere rendered). In Deut. vi, 9, Moses enjoined upon the Israelites to write the divine commands *upon the posts* (מְזוּזוֹת, *mezuzoth'*, invariably so rendered) *of their doors*, a practice which is understood literally by the modern Jews (Thomson, *Land and Book*, i, 141). It is at this day customary in Mohammedan Asia for extracts from the Koran, and moral sentences, to be wrought in stucco over doors and gates, and as ornamental scrolls to the interior of apartments. The elegant characters of the Arabian and Persian alphabets, and the good taste with which they are applied in running scrolls, the characters being usually white, raised on a blue ground, and intermixed with gilding, have a very pleasing effect, particularly in interior ornament. This custom must have been very ancient, for Moses

here very evidently alludes to it. We understand the injunction not as imperative upon the Hebrews to write on their doors, but as enjoining them, if they did write at all, to write sentences of the law. He suggests this as a means of inculcating the law upon their children, whence it seems that he took it for granted that the children would be taught to read. "Among us," says Michaelis, "where, by the aid of printing, books are so abundantly multiplied, and may be put into the hands of every child, such measures would be quite superfluous; but if we would enter into the ideas of Moses, we must place ourselves in an age when the book of the law could only come into the hands of a few opulent people." The later Jews have exercised their usual ingenuity in misunderstanding this injunction. They conceive the observance to be imperative, and they act on it as follows: Their *mezuzoth*, or door-schedules, are slips of parchment, on which are written the passages Deut. vi, 4–9, and xi, 13–20; these slips are rolled up, and on the outside is written the Hebrew word שדי, *shaddai*, or "the Almighty," one of the names appropriated to God. This roll they put into a reed or hollow cylinder of lead, in which a hole is cut for the word *shaddai* to appear, and the tube is then fastened to the door-post by a nail at each end. As the injunction is in the plural form, they conceive that a *mezuzah* should be placed on every door of a house. It is usually fixed to the right-hand door-post, and those Israelites who wish to be considered particularly devout usually touch or even kiss it as they pass. The Talmud ascribes great merit to having the *mezuzah* fixed on the door-post, and describes it as a preservative from sin. See MEZUZOTH.



Modern Jewish Mezuzah.


Eastern Door inscribed with Passages from the Koran.

DOORS OF THE CHURCH. To insure secrecy in worship, the ancient Christians constructed the doors of their churches with peculiar care. The early fathers, from this usage, derived abundant metaphors, relating to admission to the church, to heaven, etc. There were generally three principal entrances, in imitation of the Jewish Temple. Sometimes the terms πύλη, *porta*, and θύρα, *janua*, were interchanged; but, for the most part, the principal entrance, at the west, over against the altar, was called, by way of eminence, πύλη, and πύλη ὡραία, or βασιλική. Men and women entered by different doors. The doors were constructed of the most durable wood, or of brass richly ornamented. The date of the building or dedication of the church was usually inscribed on the doors. Sometimes the doors bore inscriptions of various kinds, of which the following may be taken as a specimen. On the outside,

> "Pax tibi sit, quicunque Dei penetralia Christi
> Pectore pacifico candidus ingrederis."

On the inside,

> "Quisquis ab æde Dei, perfectis ordine votis,
> Egrederis, remea corpore, *corde* manc."

It was customary, in early times, to place on the doors the names of all excommunicated persons; at a later period, the names of persons intending marriage were posted up in like manner. This was also the place for affixing all proclamations and decisions of the Church, as well as all public notices.—Riddle, *Christian Antiquities*, bk. vi, ch. v, § 6; Coleman, *Christian Antiquities*, ch. ix, § 10.

Doph'kah (Heb. *Dophkah'*, דָּפְקָה, according to Gesenius, a *knocking;* accord. to Fürst, *cattle-driving;* Sept. Ῥαφακά, by error of ר for ד; Vulg. *Dophca*), the eighth place of encampment of the Israelites in coming out of Egypt (Num. xxxiii, 12). It was situated in the desert of Sin, on the eastern shore of the western arm of the Red Sea, probably at the mouth of Wady Feirân. See EXODE. Pococke (*East*, i, 235) thinks it lies east of *Thor*, in Wady Hibran; but this is apparently conjecture. Fürst (*Heb. Handw.* s. v.), after Seetzen (Zach's *Correspond.* xxvii, 71), says it is the modern *el-Tobbacha;* which, if the *el-Tubukah* of Robinson (*Res.* ii, 388, 648), is far away, and probably the ancient Tagoba (q. v.); but if in the valley Kineh (Keil, *Exod.* p. 76), would be precisely opposite our location (Robinson, i, 121, 122).

Dor (Heb. id., דּוֹר, a *dwelling*, but דֹּאר in Josh. xvii, 11; 1 Kings iv, 11; Sept. Δώρ, but joins with preceding word נָפַת or נָפֹת, in Josh. xi, 2 Νεφεδδώρ, in Josh. xii, 22 [second clause] Ναφαδδώρ, in 1 Kings iv, 11 Νεφζαδώρ; Vulg. *Dor;* the *Dora*, τὰ Δῶρα, of the Apocrypha and Josephus, who, as well as Greek writers, also calls it *Dorus*, Δῶρος), an ancient royal city of the Canaanites (Josh. xii, 23), whose ruler was an ally of Jabin, king of Hazor, against Joshua (Josh. xi, 1, 2). It was probably the most southern settlement of the Phœnicians (Scylax, p. 42, ascribes it to the Sidonians) on the coast of Syria (Joseph. *Life*, p. 8; *Ant.* xv, 9, 6). Josephus describes it as a maritime city (*War*, i, 21, 5) on the west border of Manasseh and the north border of Dan (*Ant.* v, 1, 22; viii, 2, 3; *War*, i, 7, 7), near Mount Carmel (*Ap.* ii, 10). One old author tells us that it was founded by Dorus, a son of Neptune, while another affirms that it was built by the Phœnicians, because the neighboring rocky shore abounded in the small shell-fish from which they got the purple dye (Reland, *Palæst.* p. 739). It appears to have been within the territory of the tribe of Asher, though allotted to Manasseh (Josh. xvii, 11; Judg. i, 27). The original inhabitants were never expelled, but during the prosperous reigns of David and Solomon they were made tributary (Judg. i, 27, 28), and the latter monarch stationed at Dor one of his twelve purveyors (1 Kings iv, 11). Reland (*Palæst.* p. 744) thinks it is the *Dura* (Δοῦρα) mentioned by Polybius (v, 409) as the scene of the victory of Antiochus Epiphanes over Ptolemy Philometor. Tryphon, the murderer of Jonathan Maccabæus and usurper of the throne of Syria, having sought an asylum in Dor, the city was besieged and captured by Antiochus Si

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I 1-1,) /.' M 1=1%7c1>' ? = 68',)*' 0*=;, ' 6=^ =1 2,*0' D ' >621-',)*' -1 6/.,*86-0' 1 ' ,1/*?+') /C 60*/=);.',1' *2,*-,6 2',)*' .*+*2, '/*6-2*0' =*-.12.' .*2,' -1?' B*-;.6/*?' ,1',-62./6,*' ,)*' /0' (*.,6?*2,' 2,1' 4-**9' MB1.*=)% & E' L ' K K NX% **' / $

1-1,)*;. '6' 7-*./A ,*-' 1 ' 2, 1>)' ?*2, 12*0' D ' ;.*D ;.' 6.' '6' ?62' 1 ' 2*',6.,*' 2' .6>-*0' /.*-6,;-*' 8)1' 86.' ?;>)' 0*+1,*0',1' ,)*' .,;0 ' 1 ',)*' : *D-*8' /625;65*' .1',)6,')*' -*60',)*' : *D-*8' >-=,;-*.' 8,) 5-*6,' 6> / ,% : *' 6/.1' 86.' 1 '6' +*- ' / D*-6/ ? 20' 620' 21,' ;26>_;6 2,*0' 8,)' ,)*' =-*=6-6,1- ' .,;0 *.' =;-.,*0' 6?125',)*' 4-**9.' D;,' 2' 1,)*-' .*=>,.' 6' *;^ 2;>)' D ;6,;-*')6+ 25' D**2' .;>)' -1?') .' D -,)' 1' ,)6,',)*' *?=*-1-' 12',) .'6>>1;2,' 6.' ' ,' 8*-*' 6 5-*6,' ? -6>/*' -*>* +*0') ?' 2,1') .')1;.*' 620' 6? / ' 620')121-*0') ?' 8 ,)' 62' 6==1 2,?*2,'1+*-',)*' =;-=/*' 0 *' *.,6D/ .)?*2,' 1 ' (-*% : ?' 8*')6+*' D*6-0' 2' ,)*' >);->)' *L=1;20 25',)*' >- =,;-*.' 8 ,)' 5-*6,' A;05^ ?*2,%J .' ;.*D ;.' .6 .' ,)6,')*' /1;-.)*0' ;20*-' -/' 8)1' .' .;==1.*0',1')6+*' D**2' D .)1=1' 2, 1>)' -1?' % %' KQ ',1' N ',)*' 06,*' 1 ' 1-1,)*;.' ?6 ' D1' 5 +*2' 6.' 6D1;,' % %' KR % ' ;.*D ;.' # !' 6 !' D9% + '>% NKT 6-02*-7 + ' M '+1/.%' Q+1X' +1/% ' R%

1-1,)*;.' 1 '(-*' .;==1.*0',1')6+*' D**2' D .)^ 1=' 1 ' (77-*' 6D1;,' % %' N :*' .' .6 0' M21.' D ' >12^ ,*?=1-6- '8-,*-.'D;,'D '/6,*-'?6-,A(1/15 .,.',1')6+*' .;*-*0' 5-*6,/ ' 2',)*' =*-.*>;,12.' ;20*-' 10*% 7 62' 620',1')6+*' .;*-*0' ?6-,-01?' ;20*-' B7/ 627 C % 3 NSN% ()*-*' .' *L,62,' ;20*-') .' 26?*' 6' $ % ' ' ' %" '&% ' ' '2 1 1' ' ' 'M5 +*2' 2' ; "!' !' ' ' K X% ,' .' 218' 5*2*-6// ' 6//18*0',1' D*' 6D;/1;%.' 620' 1 ' /,,/*' 1-' 21' +6/;*%J ' 6-02*-' + ' M '+1/.%' Q+1X' ' S T 6D-> ;.' ; !' ? 'M*0,12' : 6-/*.X' ' KT' 6+*' # !' !' M4*,1+6' K X' ' NT ;0 2' $ % ' 6 " !' ' N

1-1,)*;. 'D .)1=' 1 ' <6-> 621=/*' 2' <>,C. 6' 2' ,)*' ,)' >*2,;-A ' 86.' 6' .,-125' 60+1>6,*' 1 ' *.,1-62C .?% : *' h/ I121;2>*0' 626>)*?6' 656 2.,' 6//' 8)1' 6.^ .*-,*0',)6,' <6-' 86.',)*' - 1,)*-' 1 ' 410% : *' 6,,*20^ *0' 6.' 6' D .)1=',)*' 1;2>/ 1 ' =)*.;.' M1=*2*0' B;2*' KK' N X' 8)>)' 0*21;2>*0',)*' *.,1-62.' 6.' .>) .?6,^ >.' 620')*' 86.' D62 .)*0',1' 6==601> 6' /X+' 1-0*-' 1 ',)*' *?=*-1-' ()*101. ;.% 1;-'/*,,*-.' 1 ') .'6-*' =-*^ .*-+*0' 2',)*' >1//*>, 12' 1 ' % ;=;.'*2, ,/*0'&' '6%" =' ' ' # ' '6% " f M 1;+% QKY K' +0/.% ,1X% ' 6+*' # !' !' M4*2*+% K X' ' K R%

1-1,)*;. '6->) ?620-,*' 1 ' 6/*., 2*' ,)' >*2C ,;-E ' 6' 0 .> =/*' 1 'B1622*.',)*' DD1,' 8-,;>' ,!-2 C E ' B,671=1 ' ' ' ' '5 +*2' M4-' 620' 6,%X 2' < 52*' ' ? 'QQ' =% 4// ._%' 620' 2',)*' 1,)*-' 5-*6,' >D//*>, 12.' 1 ',)*' 6,)*-.% **' 6D- , ;.' ; " ' ? 'M*0% : 6-/*.X' L ' N ._%T 6+*' ! !' ! M4*2*+% K X' ' N N%

?125’) .’!81-9.’6-*’ ’ ’-" ’MNO’*0¶ -62/7¶ SRN’ ,1Xa ’ ; " ’ 7 ’M -629 ¶ S ’ 1/%Xa ’ ’ ’4 ’6 ’M:6?D;-5’ S ,1X D(888¶ ’6%’ ’ ’# ’M -629 ¶ ’ ,1Xa ’@ !’ ’ ’6%!’D 1’8 ,)’4*DC’)6-0 ’ ’ ’6%!’D ’M -629 1-,’620’ * =.¶ ’ ,1X% ’ & 2*-’-" !’ 1’ ’R !’ ,,1’ "% ’ ’SRS 1-,’ 210’1 ’: # $ ’ 3’6’26^ , 126/. 210’1 ’,)*’ $2,*0’ -1+ 2>*.’)*/0’6,’ 1-,’ M 1-0*>),!’ 6,¶; (8’2’ S QC R% ¶’ , ’ ’" ’$ ’ ’’()*’1==1. , 12’1’B6?*.’ -? 2 ;.’,1’,)*’ ;5;., 2 62’620’ 6/+ 2 .,>’01>,- 2*.’ 12’=-*0*., 26, 12’56+*’- .*’,1’6/X ,,*-’>12,-1+*-. ’ 1-’ 62’ 6>>1;2,’ 1’ 8) >)’ ,**’ !’ ,*-’,)*’ 0*6,)’1’ -? 2 ;.’M’ S RX’,)*’ .,- *’ 2>-*6.*0’620’ 8 ,)’600*0’D ,,*-2*..¶ ()*’>/*-5 ’620’/6 , ’1’ : 1 C’ 06?X 6+1-*0’ ,¶ ()*’ ,6,*.’ ;20*-’,)*’5; 062>*’1’ /620’ 8*-*’ 6--6 *0’ 2’ ,81’)1., /*’ 6-? *. ’ 41?6- .,,’a <6;- >*’-*.1/+*0’ 1+¶ S ’,1’>12+19*’6’26, 12^ 620’ -? 2 62.’,)*’ 1-?*-’D* 25’,)*’ ?1.,’2;?*-1;.’ 1/18 25’ *6-’ // D;’ ,)*’ /6,,*-’ 2>/;0 25’ ,)*’ /*60 25’ .>)1/6-.’620’ 1==1. , 12’,1’,)*’ >12+1>6, 12’86.’6,’/6.,’ 1-> D, ’=:,’ ..,6,*.?*2¶ 2’ S ’,)*’ -? 2 62.’=-*.*2,*0’6’=*, ^ 0182’D ’,)*’ 6--*.,’620’ ?=- .12?*2,’1’,)*’ 5-*6,’ , 12’,1’,)*’ ,6,*.’1’ : 1//620’620’ & *.,’ - */620’ /*60*-.’1’,)*’ -? 2 62. ’ 6-2*+*/0, ’4-1, ;.’620’ 8 >)’600*0’D ,,*-2*..¶ ()*’>/*-5 ’620’/6 , ’1’ : 1 C’ : 15*-D**,.’M4 *.*/*-’6 !’ # !’ *0¶D ’ ? ,)’+1/¶ /*,,*-’,1’,)*’ ,6,*.C4*2*-6/’;-5 25’,)6,’,)*’ 6-’ 620’ 6..6;’ ’.*20’6.’0*/*56,*.’.1?*’1’,)*’-’,)*1/1^ 2>*’1’ : 1/620’8)*-*’,)*’ ,81’=6-,*.’8*-*’2*6-/’ 5 62.’,1’6 0’,)*’0*=;,*.’1’,)*’ *5>’);->)*.’2’ *_;6/’2’2;?D*-.’620’2 /:*2>*’1’-’ */.*’6’5*2*-6/’ .*,/25’,)*’>12,-1+*-.*.¶)’ ()*’ * 1-?*0’);->)’ . 210’1’6// -1,*.,62,’)- .,*201?’,1’8)>)’ ;,)*-^ 1 ’ 2)6/,’86.’21,’ 2+ ,*0’21-’8*-*’,)*’ $,)*-62’ 62.’6.’8*/6.’ * 1-?*0’.)1;/0’D1’.;?? 12*0¶ 4-1C’ >);->)*.¶ ()*’6?’1’,)*’ ,6,*.C4*2*-6/’86.’,1’>12^ , ,;.’*.=*> 6// ’M S X’6-5;*0’ 2’ 6+1-’1’6’5*2*-6/’ .,,;.’*’6’D10’)1/0 25’ 6/+ 2 .,>’+ *8.’12’,)*’=1 2,.’ -1,*.,62,’>1;2> /¶ 2’0 .=:,*¶ ()*’ - , .)’0*=;,*.’8*-*’4*1-5 ’ 6-/^ $2 1-,;26,*/ ’=1/,>6/ 2,*-*.,.’6 0*0’,1’ 2>-*6.*’ ,12’D.)1=’1’ ,206 ’B1)2’ 6+*262,’=-1*..1-’1’ ,)*1/15 ’6,’ 6?D- 05*’ 620’B1.*=;’ 6// ’6 ,*-86-0.’D.)1=’ 1’ 1-8 >)¶ ()*.*’,119’,)*.-’.*6,.’6,’,)*’ P*5 22 25’ 1’,)*’.A?10’D;,’ -¶:6//-*,;-2*0’,1’ 25/620’12’6>^ >1;2,’1’.>92*..’620’86.’-*=/6>*0’D ’()1?6.’4110’ 1’ ,¶ 6;/.’ 12012¶ &6/,*-’ 6/>62_;6/’6’ >1,>)’ =-*.D ,*-’86.’6/.1’0*=;,*0’D ’9 25’B62 *.’,1’-*=-*^ .*2,’,)*’ >1,,.)’);->)¶ :*’8-1,*’?2;,*.’8)>)’ 6-*’=;D/.)*0’8 ,)’:6/*.’ *,,*-.’?*2,12*0’D*/18¶ B1)2’:6/*.’1’ ,12’’’,)*’*+>-C?*?1-6/0*’1J 86 ’,)*2’ >)6=/6 2’,1’ -’4;’ 6-/,12’ 25/.)’6?D6..601-’6, ’ ,)*’:65;*’620’2’,)6,’>6=6>, ’6,,*20*0’?62 ’1’,)*’ .*.. 12.’,69 25’?2;,*.¶8)>)’)*’-*5;/6-/’,-62.?,^ ,*0’,1’,)*’6?D6..601-’¶ ()*.*’?2;,*.’6-*’,1’D*’1;20’ 2’:6/*.’?’5 ! ¶’, / ’ ’"’$ ¶’7()* ,6,*.C4*2*-6/’ 1-0*-*0’,)*’0*/*56,*.’,1’,)*’. 210’,1’D*’>)1.*2’6.’1/^ /18.¶ 6>)’=-1+ 2>*’ 86’,1’>6// 6’=-1+ 2> 6/.A7/10’ -1?’8)>)’.L’=*-.12.’1’8)1?’,)-*’*’1-’1;-’.)1;/0’ D*’=6.,1-.’8*-*’,1’D*’>)1.*2’6.’0*/*56,*.’,1’,)*’. 210¶ :1//620’620’$,-*>),’2’8)>)’,)*’ -? 2 62.’P,7-* 2;?*-1;.’8*-*’*L>*=,*0’-1?*’,)’.=-1+ .12¶ ,’86.’ 1-0*-*0’,)6,’,)*’=-1+ 2> 6/. 210’1’:1//620’.)1;/0’ D1’?60*!’;=’1’1;-’1-0 26- ’0*/*56,*.’-1?’*6>)’ /6.C’ -.’2’8)>)’21’.*=6-6, 12’12’6>>1;2,’1’,)*’0.=:,*’)60’ ,69*2’=/6>*1’8)/*’*6>)’ /6..’2’8)>)’.;>)’6’=6-6C’ , 120)60’,69*2’=/6>*’.)1;/0’.*20’,81’ 6/+ 2.,.’620’ ,81’ -? 2 62.¶ ()*’=-1+ 2> 6/. 210’,)’;.’>12.,^ ;;,*0’86.’,1’.*/*>’,.’0*/*56,*.’,1’,)*’26, 126/. 210¶ 2’$,-*>),’620’ 1;,)’:1//620’.*+*-6/ -? 2 62’00¶ + 2*.’M6?125’,)*?’$-,*2D156*-,¶8*-*’0*=1.*0’-1?’ ,)*’?2.,-’D* 1-*’,)*’.*/*>, 12’1’0*/*56,*.’86’6/^ /18*0¶ *+*-,)*/*..’,)-*’*’1’,)*’0*/*56,*.’-1?’ $,-*>),’8*-*’ -? 2 62.’620’ ,)*’ 8*-*’,)*’12/’ -? 2 62.’8)1’)60’.>6,.’2’,)*’. 210¶J ()*¶’8*-*

1 ʻ+6- 1; .ʻ0 .,- >,.ʻ 1 ʻ,)*ʻ $2 ,*0ʻ -1+ 2>*.ʻ 8*-*ʻ B1) 2ʻ 1/ 620*-ʻ 2,)12 ʻ& 6/6*; .ʻ 2,)12 ʻ( ) . ;.ʻ 62 *ʻ/ : * 2. ;.ʻ *.,;.ʻ : 1? ? ;.ʻ 62 *ʻ/ 1/12 ;.ʻ620ʻ B1) 2ʻ 6*,.ʻ ;ʻ -ʻ& -6ʻ 6,*.ʻ 2 1-? .ʻ;.ʻ 2ʻ) .ʻ ʻ &ʻ ,)6,ʻ,)*ʻ ʼ>) * ʻ? *- ,ʻ1 ʻ,)*ʻ=;D/ >6, 12ʻ .ʻ 0;*ʻ ,1ʻ *.,;.ʻ : 1? ? ;.ʻ8)1ʻ86.ʻ6ʻ-*60 ʻ620ʻ*/*562,ʻ8- ,^ *-ʻ620ʻ6.ʻ.*>-*,6- ʻ,1ʻ,)*ʻ. 210ʻ)60ʻ21,*0ʻ8 ,)ʻ5-*6,^ *-ʻ0 / 5*2>*ʻ,)62ʻ,)*ʻ1,)*-.ʻ,)*ʻ ?6,,*-.ʻ,)6,ʻD60ʻ D**2ʻ ,-62.6>,*0ʻI ʻ ()*.*ʻ >,.ʻ ☐8 *-*ʻ=;D/ .)*0ʻ6,ʻ 1-,ʻ 2ʻ ,)*ʻ *6-ʻ SK ʻ 2ʻ 1/ 1ʻ 2ʻ,)*ʻ2*6,ʻ, =*.ʻ1ʻ /[*+ -.ʻ6,ʻ *A70*2ʻ620ʻ 8*-*ʻ .112ʻ6 ,*-86-0.ʻ *L*>;,*0ʻ 8 ,)ʻ 5-*6,*-ʻ>1--*>,2*..ʻ 2ʻ,)*ʻ .6?*ʻ *6-ʻ6,ʻ: 621+*-ʻ 2ʻ _;6-,1ʻ8 ,)ʻ,)*ʻ600 , 12ʻ1ʻ6ʻ>1= 1;g 20*Lʻ -* L*0ʻ ,1ʻ,)*ʻ >,.ʻ.,620ʻ,)*ʻ*= .,/*ʻ1ʻ,)* -ʻ) 5)ʻ? 5), 2*..*.ʻ ,)*ʻ ,6,*.☐4*2*-6/ʻ 600-*..*0ʻ,1ʻ,)*ʻ ?126->).ʻ 620ʻ 9 25.ʻ,1ʻ,)*ʻ =- 2>*.ʻ>1;-,.ʻ> , *.ʻ620ʻ?65 .,-6,*.ʻ M1ʻ,)*ʻ)- ., 62ʻ81-/OXʻ620ʻ+_;*) 25ʻ1-ʻ,)*ʻ 0*/, ʻ 620ʻ6;,)1- , ʻ1ʻ,)*.*ʻ >,.ʻ620ʻ/9*8 .*ʻ,)*ʻ6?=/*ʻ =-* 6>*ʻ1ʻ 62 */ :*2. ;.ʻ600-*..*0ʻ,1ʻ,)*ʻ *1-?*0ʻ >);->)*.ʻ1ʻ)- .,ʻ>12>*-2 25ʻ,)*ʻ1- 5 2ʻ620ʻ =*-*6.*ʻ 1ʻ,)*ʻ ;.>)ʻ>12,-1+*-. *.ʻ 1-ʻ,)*ʻ =;-=1.*ʻ1ʻ6==*6.^ 25ʻ 8)>)ʻ,)*ʻ . 210ʻ)60ʻD**2ʻ>12+*2*0ʻ ()*ʻ >,.ʻ ,)*ʻ?.*/+*ʻ>12. .,ʻ1ʻ,)-*ʻ=6-,.a ʻM ʻ ( )*ʻ-;/*.ʻ 1-ʻ)1/0 25ʻ,)*ʻ . 210ʻ,)*ʻ 1-?ʻ 1ʻ,)*I. 210 >6/ 16,)ʻ 0*>-**.ʻ 620ʻA;05?*2,.ʻ >12>*-2 25ʻ,)*ʻ,-62./6, 12ʻ1ʻ ,)*ʻ D/*ʻ>6,*>) . 25ʻ>620 06,*.ʻ 1-ʻ,)*ʻ .6>-*0ʻ? 2^ .,- ʻ620ʻ>12>*-2 25ʻ,)*ʻ -*?1+6/ 1ʻ,)*ʻ 6D;.*.ʻ 1ʻ =- 2, 25ʻ1ʻ,)*ʻ>6212.ʻ656 2.ʻ,)*ʻ +*ʻ=1 2,.ʻ1ʻ,)*ʻ *☐ 7?12.,-62,.ʻ1ʻ,)*ʻ 12 *.. 12%7ʻ,)*ʻ ;,>)ʻ>);->)*.ʻ ,)*ʻ6==-1D6, 12ʻ1ʻ,)*ʻ 6/6, 2*ʻ 6,*>) .?ʻ1ʻ,)*ʻA;05^ ?*2,ʻ=6..*0ʻ12ʻ,)*ʻ01>,- 2*ʻ 1ʻ 12-60ʻ 1-., ;.ʻ6ʻ 8- , 25ʻ1ʻ,)*ʻ *?12.,-62,.ʻ-*.=*>, 25ʻ,)*ʻ>120 , 12.ʻ 12ʻ8)>)ʻ,)*ʻ. 210ʻ1;5),ʻ,1ʻD*ʻ)*/0ʻ1ʻ,)*ʻ,)*.*.ʻ1ʻ ,)*ʻ *?12.,-62,.ʻ12ʻ,X*ʻ +*ʻ=1 2,.ʻ620ʻ,)*ʻ +6- 1;.ʻ *L>*=, 12.ʻ 620ʻ =-1,*.,6, 12.ʻ 656 2.,ʻ)*ʻ. 210ʻ1ʻ6ʻ 8(, 25ʻD ʻ ?12ʻ = .>1= ;.ʻ 2ʻ 8)>)ʻ)*ʻ 0* *20.ʻ) ?.*/1ʻ,)*ʻ>12 *.. 12ʻ1ʻ,)*ʻ,81ʻD%1,)*-.ʻ4* .,**-*2ʻ 620ʻ/6../ ʻ,)*ʻ1-6, 12.ʻ1ʻ,)1.*ʻ+*- ʻ>*/*D-6,*0ʻ?*2ʻ 6/,)6.6-ʻ 0;.ʻ<6-, 2ʻ4-*5*1- ʻB1.*=)ʻ: 6// ʻB1.*=)ʻ 1/ 620*-ʻB1)2ʻ >-12;.ʻ620ʻ1ʻ,)*ʻ?*?1-6D/*ʻ =.☐ >1= ;.ʻ MK%ʻ()*ʻA;05?*2,.ʻ1ʻ,/ ;ʻ 1-*52ʻ0 + 2*.ʻ 12ʻ ,)*ʻ $3 3 Dʻ ʻ $<2 -6; .ʻ MN%ʻ()*ʻA;05^ ?*2,.ʻ1/,)*ʻ ;,>)ʻ0 + 2*.ʻ12ʻ,)*ʻ.6?*ʻ=1 2,.%J ()*ʻ ʻ ʻ ʻ 6-*5 +*2ʻ;20*-ʻ +*ʻ)*60.á ʻ* ʻ=-*0*., 26, 12ʻ Q 6-, >/*.ʻ ʻ ,)*ʻ0*6,)ʻ1ʻ)- .,ʻ620ʻ1ʻ,/*ʻ -*0*?=, 12ʻ1ʻ?*2ʻ,)*-*D ʻR 6-, ^ >/*.ʻ //ʻ7M ʻ ʻ ?62 .ʻ>1--;=, 12ʻ620ʻ1ʻ) .ʻ >12+*-. 12ʻ ʻ6-, >/..ʻ ʻ ,)*ʻ=*-.*+*-62>*ʻ1ʻ,)*ʻ .6 2,.ʻ ʻ6-, >/*.ʻ ()*ʻ?6ʻD*ʻ 1;20ʻ 2ʻ 25/.)ʻ 2ʻ >1,,.ʻ$ ʻ ʻ ʻ 1ʻ620ʻ2ʻ,)*ʻ Q ʻ ==*20 L*ʻ=ʻ 5 ʻ* "ʻ "ʻ M) /60*/ʻ Q ʻ ==*20 L*ʻ=ʻ K.ʻ_%ʻ ()*ʻ8*-*ʻ1 >6// ʻ-*>* +*0ʻD ʻ :1//620ʻ -62>*ʻ,)*ʻ 6/6, 26,*ʻ620ʻ 8 ,[*-/620ʻD;.ʻ 8*-*ʻ ?*-*/ ʻ>1;2,*262>*0ʻD ʻ 25/620ʻ620ʻ -620*2D;-5ʻ ()*ʻ 25/.)ʻ);->)ʻ6 ,*-86-0.ʻ ʻ-*A*>,*0ʻ ,)*ʻ0*>^ . 12.ʻ1ʻ,)*ʻ. 210ʻ620ʻ6ʻ-1 6/ʻ?6206,*ʻ1ʻB6?*.ʻ ʻ 8)1ʻ6+1-*0ʻ -? 2 62 .?ʻ6.ʻ..-125/ʻ 2ʻ) ./6,*-ʻ *6-.ʻ 6.ʻ)*ʻ)60ʻ6+1-*0ʻ 6/+ 2 .?ʻD* 1-*ʻ 2ʻ SKK ʻ 1-D60*ʻ ,)*ʻ=-*6>) 25ʻ1ʻ,)*ʻ01>,- 2*ʻ1ʻ=-*0*., 26, 12JʻM)*00ʻ # ʻ ʻ ʻ 1ʻ ʻ ʻ*6/ʻ# ʻ ʻ ʻ =ʻ ʻ :6-=*-.ʻ *0%ʻ ʻK KX% ()*ʻ *1-?*0ʻ>);->)*.ʻ 1ʻLX,)*-ʻ>1;2,-*.ʻ0 0ʻ 71,ʻ>12. 0*-ʻ,)*?ʻ6.ʻD 20 25% 7()*ʻ-*>*+*0ʻ 6;.,)1-, ʻ 2ʻ21ʻ1,)*ʻ>1;2,-ʻD;ʻ -62>*%ʻ ()*ʻ0+2*.ʻ1ʻ -*?*2ʻ8*-*ʻ+*-ʻ?10*-6,*ʻ 6,ʻ,)*ʻ. 210ʻ620ʻ6,*-86-0.ʻ)*60*0ʻD ʻ<6-, 2 ;.ʻ ,)*ʻ -A*>,*0ʻ ,.ʻ0*> . 12.% <6-, 2 ;.ʻ 8-1,*á ʻ 1-,ʻ 1-,ʻ &1;/0ʻ,1ʻ 410ʻ)60ʻ2*+*-ʻ .**2ʻ,)**%J ʻ: 6/*.ʻ1ʻ ,12ʻ86.ʻ>12+*-,*0ʻ -1?ʻ 6/+ 2 .?ʻ,1ʻ -^ ? 2 62 .?ʻ6,ʻ,)*ʻ. 210% **I : % Q% ʻ 1ʻ);->)ʻ>1;2>/)6.ʻ5 +*2ʻ- .*ʻ,1ʻ?1-*ʻD ,,*-6/*.ʻ1ʻ ,12ʻ >12,-1+*-. ʻ,)62ʻ,)*ʻ 210ʻ1ʻ 1-,% -? 282ʻ8- ,^ *-.ʻ)6+*ʻ0*21;2>*0%,ʻ 2ʻ,)*ʻ.,-125*.,ʻ/625;65*ʻ6.ʻ ;A781-,)ʻ,)*ʻ26?*ʻ1ʻ6ʻ)- .,62ʻ. 210ʻ8)/*ʻ12ʻ ,)*ʻ1,)*-ʻ)620ʻ 6/+ 2 .,>ʻ8- ,*-.ʻ)6+*ʻ*L,1//*0ʻ ,.ʻ 6 -2*..ʻ620ʻ?=6-, 6/ , % //ʻ0*=*20.ʻ;=12ʻ,)*ʻ=1 2,ʻ 1ʻ+ *8ʻ620ʻ;=12ʻ,)*ʻ21, 12ʻ1ʻ,)ʻ-;*ʻ=;-=1.*ʻ1ʻ ,)*ʻ. 210ʻ8)>)ʻ.ʻ601=,*0% ʻ,) .ʻ>*/*D-6,*0ʻ6.^ .*?D/ ʻ .ʻ>12>* +*0ʻ6.ʻ6ʻ0*/ D*-6, +*ʻ D10 ʻ0*. 52*0ʻ 1-ʻ,)*ʻ ʻ1ʻ,)*ʻ +*ʻ=1 2,.ʻ1ʻ,)*1/15 ʻ2ʻ_;*.^ , 12ʻ,)*2ʻ6//,)6,*,)*ʻ -? 2 62.ʻ)6+*ʻ.6 0ʻ1ʻ ,ʻ 81;/0ʻ D*ʻ 8*// 0*.*-+*0% ʻ 12ʻ,)*ʻ1,)*-ʻ)620ʻ ,ʻD*ʻ>12^ >* +*0ʻ6.ʻ6ʻD10 ʻ1ʻ0 + 2*.ʻ)1/0 25ʻ 6/+ 2 .,>ʻ+*8.ʻ D*/ *+ 25ʻ,)1.*ʻ+*8.ʻ,1ʻD*ʻ,-;*ʻ620ʻ>6//*0ʻ 1-ʻ,)*ʻ =;-=1.*ʻ1ʻ>120*?2 25ʻ620ʻ=-1) D , 25ʻ,)*ʻ >12,-6- ʻ1= 2 12.ʻ 2ʻ,)*ʻ */5 >ʻ>);->)*.ʻ,)*ʻ>1;-.*ʻ1ʻ,)*ʻ. 2ʻ *0ʻ86.ʻ>12. .,*2,ʻ,)-1;5)1;,% 20ʻ,) .ʻ 8*ʻD*/ *+*ʻ ,1ʻD*ʻ,)*ʻ,-;*ʻ+ *8% ʻ 86.ʻ21,ʻ6ʻ -**ʻ6..*?D/ ʻ1-ʻ ,)*70 .>;.. 12ʻ1ʻ>12,-1+*-,*0ʻ=1 2,.ʻ 2ʻ,)*1/15 ʻD;,ʻ 6ʻ26, 126/ʻ*>>/*. 6., >6/ʻ>1;-,ʻ D-ʻ,)*ʻ,- 6/ʻ1ʻ6//*5*0ʻ)*-*, >.% ()*ʻA;05?*2,ʻ1ʻ<1.*.ʻ ,;6-,ʻ8 //=-1D6D/ ʻ D*ʻ5*2*-6// ʻ6>_; *.>*0ʻ2á ʻ()6,ʻ,)*ʻ 210F1ʻ 1-,ʻ .)1;/0ʻ)6+*ʻD**2ʻ) 5)/ ʻ>*/*D-6,*0ʻD ʻ,)1.*ʻ>12,*?^ =1-6-*.ʻ 8)1ʻ. ?=6,) [*0ʻ8 ,)ʻ, 2ʻ **/ 25ʻ620ʻ 2ʻ 01>,- 2*ʻ86.ʻ26,;-6/% :*2>*ʻ8*ʻ 20ʻ,)6,ʻ12ʻ,)*ʻ121ʻ)620ʻ ,ʻ)6.ʻD**2ʻ*;/15 [*0ʻ6.ʻ,)*ʻ?1.,ʻ=*- *>,ʻ1ʻ*>☐ >/7 6., >6/ʻ>1;2> /.ʻ,)6,ʻ)6+*ʻ*+*-ʻD**2ʻ)*/0ʻD;,ʻ6.ʻ 12*ʻ ? 5),ʻ6/.1ʻ*L=*>,ʻ12ʻ,)*ʻ1,)*-ʻ)620ʻ ,.ʻ 1==1^ 2*2,.ʻ)6+*ʻD**2ʻ?1-*/1;0ʻ ʻ=1.. D/*ʻ 2ʻ,)*ʻ-ʻ>1?^ =/6 2,.ʻ,)62ʻ,.ʻ - *20.ʻ2ʻ,)*ʻ-ʻ=-6 .*.% ʻ0**=ʻ.*2.*ʻ 1ʻ2A;-ʻ620ʻ=*-.*>;,12ʻ1ʻ>1;-.*ʻ-*?6 2*0ʻ2 L*0ʻ 2ʻ,)*ʻ? 20.ʻ1ʻ,)*ʻ *?12.,-62,.ʻ620ʻ1ʻ6//8)1ʻ. ?^ =6,) [*0ʻ8 ,)ʻ,)*?ʻ620%,) .ʻ **/ 25ʻ86.ʻ5-*6,/ ʻ65^ 5-6+6,*0ʻD ʻ,)*ʻ6==*6/ ?60*ʻ,1ʻ,)*ʻ> + /=18*-ʻ,1ʻ >6-- ʻ2,1ʻ*L*>;,12ʻ,)*ʻ0*>-**.ʻ1ʻ,)*ʻ. 210ʻD ʻD62^ .)?*2,ʻI ʻD ʻ ?=- .12?*2,ʻ620ʻD ʻ 2*% 1,)ʻ,)*ʻ =6-,*.ʻ ;201;D,*0/ ʻ8*2,ʻ,11ʻ 6-ʻ2ʻ,)*-ʻ=-6 .*ʻ620ʻ ,)*-☐D/6?*% ()*ʻ6 % ʻ1ʻ,)*ʻ. 210ʻ2ʻ_;*., 12ʻ .ʻ62ʻ6D/*ʻ=6=*-ʻ *,ʻ ʻ>6221,ʻ.**ʻ,)6,ʻ1?*=6-*0ʻ8I,)ʻ 1,)*-ʻ0*>/6-6, 12.ʻ1ʻ,)*ʻ/9*ʻ 26,;-*ʻ ,ʻ>6//.ʻ 1-ʻ62ʻ +*-ʻ *L,-6+6562,ʻ*;/15 % *-,6 2/ʻ,)*ʻ&*.,? 2^ .,*-ʻ 12*..12ʻ.ʻ.;=*- 1-ʻ6.ʻ6ʻ8)1/*% <*2ʻ1ʻ5-*6, ,6/*2,ʻ?;>)ʻ/*6-2 25ʻ86-?=*, ʻ620ʻ(+*//c?*62 25ʻ 2,*2, 12.☐D*/125*0ʻ21ʻ01;D,ʻ,1ʻ,)*ʻ 1;2>/1ʻ 1-,ʻ 620ʻ=>-) =.ʻ62ʻ;2;.;6/2;?D*-ʻ1ʻ.;>)ʻ?*2ʻ1ʻD;,ʻ21ʻ 12*ʻ1ʻ,)*ʻ?ʻ)6.ʻ*+*-ʻD**2ʻ.1ʻ0 ., 25; .)*0ʻ6.ʻ6ʻ,)*1^ /15 62ʻ620ʻ6ʻ8- ,*-ʻ6.ʻ?62ʻ1,)*-ʻ?*2ʻ8)1ʻ>62ʻD*ʻ *6. / ʻ26?*0ʻ6?125ʻ,)*ʻ* 1-?*0ʻ>);->)*.% ()6,ʻ ,)*ʻA?*6.;-*.ʻ1ʻ 1->*ʻ8)>)ʻ,)*ʻ.= - ,ʻ1ʻ0 .=;,*ʻ620ʻ 1ʻ,)*ʻ06 ʻ;-5*0ʻ,)*ʻ?ʻ,1ʻ,69*ʻ8*,*ʻ? .A;05*0ʻ1ʻ ;-, ;/ ,*20*2> ʻ620ʻ656 2.ʻ,)*ʻ,-;*ʻ.=-,ʻ1ʻ=-;^ 0*2>*ʻ620ʻ -1,*.,62, .?ʻI ʻ.;==1.*ʻ21ʻ12*ʻ2ʻ1;-ʻ, ?*ʻ 620ʻ2ʻ1;-ʻ>1;2, ʻ8 // +*2,;-*ʻ,1ʻ>6//ʻ2ʻ_;*.,12% ;,ʻ6,ʻ,)*ʻ.6?*ʻ, ?*ʻ,)*ʻ-ʻ1==12*2,.ʻ8*-*ʻ?1-*ʻ>12^ >*-2*0ʻ2ʻ,)*ʻD/6?*ʻ1ʻ,)*ʻ*-*ʻ?*6.;-*.ʻ,)62ʻ,)*ʻ 8*-*ʻ 8 // 25ʻ,1ʻ6//18% ()*ʻ8*-*ʻ+1/*2,ʻ)*6,*0ʻ.6->6.^ ,>ʻ>12,*?=,;1;.% ()*ʻ*/,ʻ6ʻ0**=ʻ.*2.*ʻ1ʻ2A;-ʻ 620ʻ,)*ʻ56+*ʻ+*2,ʻ,1ʻ,ʻ2ʻ21ʻ+*-ʻ?*6.;-*0ʻ,*-?.% ()*ʻ)60ʻ-*6.12ʻ,1ʻ>1?=/6 2ʻ,)6,ʻ,)*ʻ=- 2>=/*.ʻ1ʻ-*^ /5 1;.ʻ/D*-, ʻ8*-*ʻ+1/6,*0ʻ2ʻ-*.=*>,ʻ,1ʻ,)*?ʻ1ʻD;,ʻ ,)*ʻ-ʻ1==12*2,.ʻ?5),ʻ8*//>1?=/6 2ʻ6/.1ʻ,)6,ʻ,)*ʻ =- 2>=/*ʻ1ʻ)-.,62ʻ?10*-6, 12ʻ6)0ʻ/*2 ,ʻ1ʻ?62^ 2*-2*0ʻ2ʻ,)*ʻD/6?*ʻ1ʻ,)*ʻ-*ʻ?*6.;-*.ʻ,)62ʻ,)*ʻ 8*-*ʻ -*_;*2,/ʻD**2ʻ+1/6,*0ʻ12ʻ,)*ʻ=6-,ʻ1ʻ,)*ʻ *?12^ .,-62,.% 1-ʻ>62ʻ,)*-*ʻ)*ʻ62 ʻ-11?ʻ,1ʻ01;D,ʻ,)6,ʻ ,)*ʻ/6,,*-ʻ)60ʻD**2ʻ,)*ʻ01?262,ʻ=6-, ʻ,)*ʻ 81;/0ʻ)6+*ʻ,69*2ʻ2.ʻ* *>,;6/ʻ?*6.;-*.ʻ,1ʻ>6-- ʻ,)*ʻ-ʻ=1 2,.ʻ 6.I,)*ʻ 41?6-.,.ʻ0 0ʻ6/,)1;5)ʻ=*-)6=.ʻ21,ʻ2ʻ,)*ʻ .6?*ʻ86 J'I1& ʻ;ʻ5 % ʻ ʻK QX% ! ʻ ()*ʻ1 >6/ >,.I7 >H2'$ 7 ʻ ʻ "ʻ "ʻ %M SK ,1XT .112ʻ,-62./% 2,1ʻ ;*)T 6/.1ʻ 2,1ʻ -*2>)ʻ &ʻ ʻ $ ʻ ʻ 'M * ^ 0*2ʻ SK ʻ ,1XT D $ ʻ 7 ʻ 5 !ʻ 6 !';!'"ʻ !'ʻ "ʻM 1-,ʻ S Rʻ ,1T ,-62./% "2,1ʻ 25/.)ʻD ʻ //ʻ S RXT *?12.,-62,ʻ>1//*>, 12ʻ1ʻ? 2;,*.ʻ''&ʻ ʻ$ % $ ʻ ʻ ʻ 5 ʻM:6-0*-+>ʻ SK ʻ ,1XT S Nʻ ,1XT ,-62./6,*0ʻ2,1ʻ 6, 2ʻ8 ,)ʻ21,*.ʻ620ʻ600^ .12.ʻD ʻ<1.)*?ʻ ʻ ʻ ʻM:6?D% K XT 6/>62_;6/.ʻ :',)*ʻ6>>1;2,ʻ2ʻ6% +ʻ !ʻ 6 !ʻN ʻM ?.,% SS ʻ=% Kʻ 620ʻ?62ʻ/*,,*-ʻ2ʻ,)6,ʻ>1//*>, 12T :6/*. .ʻ6-0ʻ 6/C >62_;6/.ʻ ʻ2ʻ4*-?62ʻD ʻ% 6-,26>9ʻMU*,[ʻ S K ʻ K?1XT 4% -620,ʻM *?12.,-62,X ʻ#

5 * 'M ?.,*-O% 620' 1,,*-O% SSNC ' '+1/.%T ,-62./% 2,1' 25/ .)'D ')6?D>(/6 2*' *20% K CKN' 'Q M ;/15 ;.' =% " ' !1 !'=% KN T 4 *.*/*-' "'! '+1/.% 1/%T 6/.1' 6D- 05*0' K 'K' +1/.% Q+1XT * C # ' 'g QX% 2.,*60' 1 ' D* 25' 2>/;0*0' 2',)*' 0*99*-'M 6/+ 2 .,X' 6 ' ' '7 2 '$ '1 ' >/6..' 1 ') *-*, >.') *' 1 ;5),' ,1' D*' >/6..*0' 6 ? 125' ,)1.*' ' 'MK =6-,H I' ?.,% C ' ,1X' 6' -*=/ ',1' / ;26, >.' I;)1')6+*' 62> *0',)*? .*/+*.' 0 + 2*' ?*..*2^ / -620,T ,1' 8) >)' -*=/ ') .' .12' B1)% -620, ' -*=/ *0' 5*-.% : .' ?= 1;.' >/6 ?.' >6;.*0' 62' 1-0*-' -1?',)*' 2'N 3 (' ' '" # ' '?';' 'M ?.,% 6?6-,62') 5)C=-*.,' 1-') .' 6==-*)*2. 12T 620' 1C' XT ' ' '" '# ' ' 'M ,*-.*' */*5% .,6-+*0',1' 0*6,)' M = =)62 ; .' # ' L ' >,*0' D ' : 6.. 6>1-; ?X' *0% D ' : *==*' 2' . " ' '" J' <1.)*?'# ! % % Q ' 'K '21,*X% " ' -" ' LL ' KKS . _ T *6/' # ' ' " ' 1' =,% ' >)% T 1// *-' 6 ' # ' 1. ,) *; . ' ,) *' 1;20*-' 1',)*' ;.. 62' .*>',>6//*0' ? ' ; / 'M 120% Q '+ ' '. _ %TXT >)1/.' 6 ,*-') ?' 1. ,)*18.>),.>) 26% : *' ,6;5),' ,)6,' , ' ' '& 'M 120% QK' K' +1/.% Q+1X' 86.' .; > *2,',1' >12 *..' 72* .' . 2.' 620',1' -*>* +*',)*' 'L/$ '620' ' S' . _ %T <1.)* 0'6 '# =' 1-0 .' ;==*-' 12>*' 0+*- ',*2' *6-.' 620'6,',)*' >/1.*' '>*2,'L+ '.*>% '=,% '>)% T 4 *.*/*-' "!' # ! 1'12* .'/ '%' & ! ! % Q ' 'K '21,*X% *0% ? ,)' + ' g NT >)-1>9)')" " " ' ' ! 5 '+'K S' . _ %T >1,,'& ' '" '$ ' ' ',-62./% 8 ,)' 21,*.' M) /6% -*.D% 16-0d .*^ +*-*/ '-*+ *8*0' 2' >)1/.' '& =' 1' +1/% T 6+1-6D/ '-*+ *8*0' 2' " ' , ' L+ ' R '620' 2'$% ' '" ' ' +'KSSX% ()*' ' '' ' 2' 6, 2'6-*' 5 +*2' 2',)*' $ ' 'M L12% Q '=% NS '. _ %XT 2' *?* *-' 2 ' 'M Q '=% SR XT 2' ;5;.,' 9 % ' '$ " 'M /D*- */0' QK '=% RQC' K XT 2' 25/.)' 2' >1,,.'$ ' '' '>',*0' 6D1+*' 6/.1' 2',)*' ==*20 L',1',)*' ' '" '5 ' ' "' '" M) /6% Q Q?1XT 620' 2' : 6//'# 9 ' ' " ' ' 'M 120% Q K'=% NR' H_%X% **' 6/.1' 46..' ? " " ' ' % " ' ' +' ' D9% ' 620' T ;22 25)6?'5 ' '-" ' '" '5 ' ..6'+ T ;22 T 5C')6?'# '-" 1' 1)Y LL+'g' K T' 620',)*' 6-^ ,>/*.' g > / / $ g & $ g 4' (;.T ! 1-,;.' M 1=-1 X' 6' /*60 25' B* 8' >)6-5*0' D* 1-*' # ;60-6,;.'=-*. 0*2,'1' - 6' 8 ,)' 2> , 25') .' >1;2^ ,- ?*2',1' -*+1/,'656 2.,',)*' 1?62.'MB1.*=);.' & ! d d' s' K X% 1- ? *20.' M 1=+7 2T7X' 6,)*-' 1' ,1/*? ' .;-26?*0' <6>-12' M' <6>>% ' NQT K' <6>>% +' SX% .',) .' ,1/*? ' 86.' 2',)*' .*-+ >*C 1' ,1/*? ') /1C ?*,1-' 9 25' 1' 5 =,' D* 1-*B *' 0*.*-,*0',1' 2, 1>);.' = =)62>.',' .' .=1.. D/*',)6,')' .' 6,)*-' .',)*' .6?* 1- ?*2*.' 8)1' 1;5),' 656 2.,' 2, 1>);.',)*' 4-*6,' M 1/ D% ' S X% 3 1. ,)*62.% *6' $ $! 1. ,) * .' I& g I=8',)*' 26?*' 1' .*+*-6/?*2' 2',)*' =1>- =)6 % ' =-*.,' 620' *+ ,* J' 8)1' 6>>1-0 25',1',)* 6=1> (X)6/600, 12.',1',/*' D119' 1' .,)*-' >6-- *0',)*' /*,,*-' 1' <1-0*>6' -*.=*>, 25',)*' *6.,' 1' ;- ?',1' 5 =,' M .,)% L ' CKX% ,' .' .>6->*/ ' / 9*/ ',)6,')*' .7 0*2, >6/ 8 ,)',)*' 1..),)*;.' 8)1' .' ?*2, 12*0' D' B1.*=);.' M- =% ' X' 6.' 12*' 1',)*' `>1? ?620*-.' 1',)*' 1->*.J' 1' ,1/*? ' ') /1?*,1-',)1;5)I)*' =-1D6^ D/ '/ +*0' 2',)*'-* 52' 1',)6,'?126->)% B1.*=);.' 6/.1' .=*69.' 1' 6' 1. ,)*;.' 8)1' D*,-6 *0',1' :*-10' 6')1., /*' /*,,*-' 1' : A>62;.' M-' ! L+' [' KX% I K% 2*' 1',)*' 5*2*-6/.' 1' B;06.' <6>>6D,*;.' MK' <6>>% L ' R' K X% N-' '>6+6/-' .1/0 *-' 2',)*' 6-? '1 'B;06.' <6>>6D6A' ;.' 1',)*' >1?=62' 1' 6>*21-' MK' <6>>% L ' N X% % ' -*2*560*' B*8' 2',)*' >6?=' 1' ,1/*? ') /1' =6,1-' MN' <6>>% ' NX% 1. ,)*;.' 6' 6?6-,62' 2',)*' -.,'>*2,;-AW 8)1' >/6 ?*0',1' D*' <*.. 6)'1-',)*'=-1=)*,'=-1? .*0' 2' *;,% L+ ' Q% ()*');->)' 6,/*-.' 6.>- D*',1') ?' =*>;/^ 6-/ '?62' 01>,-2*7' 8) >)')60' 6/86 .' D**2')*/0' D' ,)*' 6?6-,62.% : *' 86.' >) * / '0 ., 25; .)*0' D' 62' 6.>*, >' / *' 620' 62' 1+*-C.>-;=;/1;.' 1D.*-+62>*' 1',)*' 6DD6,)' M - 5*2' ' ' % ' +' >% %I' #;1' _; .,;*' >1-=1-.' .,;' 2' =- 2> = 1' .6DD6,)' 2+*2,;.' ;*-,' 2' '60' +*.=*-;?' ;_;*' =.'=*-?62*20;?' *..*X' 8) >)' 1- 5 26,*0' *+ 0*2,/' 2' 6' +*-D6/ 2,*-=-*,6, 12' 1' L10% L+ ' KR% .' /6,*' 6.',)*' *6-' QQ',)*' 1//18*-7 1' 1. ,)*;.' 8*-*' *2565*0' 2' 6' >12,-1+*-. ' 8 ,)',)*' 1,)*-' 6?6-,62.' >12>*-2 25',)*' =6..65*' *;,% L+ ' 5*-.% : .' ?= 1;.' >/6 ?.' >6;.*0' 62' 1-0*-' -1?',)*' 2'N 3 (' ' '" # ' '?';' 'M ?.,% 6?6-,62') 5)C=-*.,' 1-') .' 6==-*)*2. 12T 620' 1C' XT ' ' '" '# ' ' 'M ,*-.*' */*5% .,6-+*0',1' 0*6,)' M = =)62 ; .' # ' L ' >,*0' D ' : 6.. 6>1-; ?X' *0% D ' : *==*' 2' . " ' '" J' <1.)*?'# ! % % Q ' 'K '21,*X% " ' -" ' LL ' KKS . _ T *6/' # ' ' " ' 1' =,% ' >)% T 1// *-' 6 ' # ' 1. ,)*;.' ,) *' 1;20*-' 1',)*' ;.. 62' .*>',>6//*0' ? ' ; / 'M 120% Q '+ ' '. _ %TXT >)1/.' 6 ,*-') ?' 1. ,)*18.>),.>) 26% : *' ,6;5),' ,)6,' , ' ' '& 'M 120% QK' K' +1/.% Q+1X' 86.' .; > *2,',1' >12 *..' 72* .' . 2.' 620',1' -*>* +*',)*' 'L/$ '620' ' S' . _ %T <1.)* 0'6 '# ' 1-0 .' ;==*-' 12>*' 0+*- ',*2' *6-.' 620'6,',)*' >/1.*' '>*2,'L+ '.*>% '=,% '>)% T 4 *.*/*-' "!' # ! 1'12* .'/ '%' & ! ! % Q ' 'K '21,*X% *0% ? ,)' + ' g NT >)-1>9)')" " " ' ' ! 5 '+'K S' . _ %T >1,,'& ' '" '$ ' ' ',-62./% 8 ,)' 21,*.' M) /6% -*.D% 16-0d .*^ +*-*/ '-*+ *8*0' 2' >)1/.' '& =' 1' +1/% T 6+1-6D/ '-*+ *8*0' 2' " ' , ' L+ ' R '620' 2'$% ' '" ' ' +'KSSX% ()*' ' '' ' 2' 6, 2'6-*' 5 +*2' 2',)*' $ ' 'M L12% Q '=% NS '. _ %XT 2' *?* *-' 2 ' 'M Q '=% SR XT 2' ;5;.,' 9 % ' '$ " ' 'M /D*- */0' QK '=% RQC' K XT 2' 25/.)' 2' >1,,.'$ ' '' '>',*0' 6D1+*' 6/.1' 2',)*' ==*20 L',1',)*' ' '" '5 ' ' "' '" M) /6% Q Q?1XT 620' 2' : 6//'# 9 ' ' " ' ' 'M 120% Q K'=% NR' H_%X% **' 6/.1' 46..' ? " " ' ' % " ' ' +' ' D9% ' 620' T ;22 25)6?'5 ' '-" ' '" '5 ' ..6'+ T ;22 T 5C')6?'# '-" 1' 1)Y LL+'g' K T' 620',)*' 6-^ ,>/*.' g > / / $ g & $ g 4' (;.T ! 1-,;.' M 1=-1 X' 6' /*60 25' B* 8' >)6-5*0' D* 1-*' # ;60-6,;.'=-*. 0*2,'1' - 6' 8 ,)' 2> , 25') .' >1;2^ ,- ?*2',1' -*+1/,'656 2.,',)*' 1?62.'MB1.*=);.' & ! d d' s' K X% 1- ? *20.' M 1=+7 2T7X' 6,)*-' 1' ,1/*? ' .;-26?*0' <6>-12' M' <6>>% ' NQT K' <6>>% +' SX% .',) .' ,1/*? ' 86.' 2',)*' .*-+ >*C 1' ,1/*? ') /1C ?*,1-' 9 25' 1' 5 =,' D* 1-*B *' 0*.*-,*0',1' 2, 1>);.' = =)62>.',' .' .=1.. D/*',)6,')' .' 6,)*-' .',)*' .6?* 1- ?*2*.' 8)1' 1;5),' 656 2.,' 2, 1>);.',)*' 4-*6,' M 1/ D% ' S X% 3 1. ,)*62.% *6' $ $! 1. ,) * .' I& g I=8',)*' 26?*' 1' .*+*-6/?*2' 2',)*' =1>- =)6 % ' =-*.,' 620' *+ ,* J' 8)1' 6>>1-0 25',1',)* 6=1> (X)6/600, 12.',1',/*' D119' 1' .,)*-' >6-- *0',)*' /*,,*-' 1' <1-0*>6' -*.=*>, 25',)*' *6.,' 1' ;- ?',1' 5 =,' M .,)% L ' CKX% ,' .' .>6->*/ ' / 9*/ ',)6,')*' .7 0*2, >6/ 8 ,)',)*' 1..),)*;.' 8)1' .' ?*2, 12*0' D' B1.*=);.' M- =% ' X' 6.' 12*' 1',)*' `>1? ?620*-.' 1',)*' 1->*.J' 1' ,1/*? ' ') /1?*,1-',)1;5)I)*' =-1D6^ D/ '/ +*0' 2',)*'-* 52' 1',)6,'?126->)% B1.*=);.' 6/.1' .=*69.' 1' 6' 1. ,)*;.' 8)1' D*,-6 *0',1' :*-10' 6')1., /*' /*,,*-' 1' : A>62;.' M-' ! L+' [' KX% I K% 2*' 1',)*' 5*2*-6/.' 1' B;06.' <6>>6D,*;.' MK' <6>>% L ' R' K X% N-' '>6+6/-' .1/0 *-' 2',)*' 6-? '1 'B;06.' <6>>6D6A' ;.' 1',)*' >1?=62' 1' 6>*21-' MK' <6>>% L ' N X% % ' -*2*560*' B*8' 2',)*' >6?=' 1' ,1/*? ') /1C ' D*>6;.*' ,)*' 8*// >122*>,*0' 8 ,)' ') 6./125' =6..^ =6,1-' MN' <6>>% ' NX% *0' 6?125')-., 62.' 620' <1./*?.' 1-',)*' 8*// 2' _;*.^ 1. ,)*;.' 6' 6?6-,62' 2',)*' -.,'>*2,;-AW 8)1' , 12' M 1D 2.12' 5 ' 'N X% ()*',-;*' .,*' 1' 1,/ 62' >/6 ?*0',1' D*' <*.. 6)'1-',)*'=-1=)*,'=-1? .*0' 2' *;,% 86.' 92182',1',)*' B*8 .)',-6+*//*-' 6DD' 6>) ' L+ ' Q% ()*');->)' 6,/*-.' 6.>- D*',1') ?' =*>;/^ 6-/ '?62' 01>,-2*7' 8) >)')60' 6/86 .' D**2')*/0' D' ,)*' 6?6-,62.% : *' 86.' >) * / '0 ., 25; .)*0' D' 62' 6.>*, >' / *' 620' 62' 1+*-C.>-;=;/1;.' 1D.*-+62>*' 1',)*' 6DD6,)' M - 5*2' ' ' % ' +' >% %I' #;1' _; .,;*' >1-=1-.' .,;' 2' =- 2> = 1' .6DD6,)' 2+*2,;.' ;*-,' 2' '60' +*.=*-;?' ;_;*' =.'=*-?62*20;?' *..*X' 8) >)' 1- 5 26,*0' *+ 0*2,/' 2' 6' +*-D6/ 2,*-=-*,6, 12' 1' L10% L+ ' KR% .' /6,*' 6.',)*' *6-' QQ',)*' 1//18*-7 1' 1. ,)*;.' 8*-*' *2565*0' 2' 6' >12,-1+*-. ' 8 ,)',)*' 1,)*-' 6?6-,62.' >12>*-2 25',)*' =6..65*' *;,% L+ ' Q M ;/15 ;.' =% " ' !1 !'=% KN T 4 *.*/*-' "!' # ' 'g QX% 2.,*60' 1' D* 25' 2>/;0*0' 2',)*' >/6..' 1') *-*, >.') *' 1;5),' ,1' D*' >/6..*0' 6?125',)1.*' / ;26, >.' I;)1')6+*' 62> *0',)*? .*/+*.' 0 + 2*' ?*..*2^ 5*-.% : .' ?= 1;.' >/6 ?.' >6;.*0' 62' 1-0*-' -1?',)*' 2'N 3 (' ' '" # ' '?';' 'M ?.,% 6?6-,62') 5)C=-*.,' 1-') .' 6==-*)*2. 12T 620' 1C' XT ' ' '" '# ' ' 'M ,*-.*' */*5% .,6-+*0',1' 0*6,)' M = =)62 ; .' # ' L ' >,*0' D ' : 6.. 6>1-; ?X' *0% D ' : *==*' 2' . " ' '" J' <1.)*?'# ! % % Q ' 'K '21,*X% " ' -" ' LL ' KKS . _ T *6/' # ' ' " ' 1' =,% ' >)% T 1// *-' 6 ' # ' 1. ,)*;.' ,) *' 1;20*-' 1',)*' ;.. 62' .*>',>6//*0' ? ' ; / 'M 120% Q '+ ' '. _ %TXT >)1/.' 6 ,*-') ?' 1. ,)*18.>),.>) 26% : *' ,6;5),' ,)6,' , ' ' '& 'M 120% QK' K' +1/.% Q+1X' 86.' .; > *2,',1' >12 *..' 72* .' . 2.' 620',1' -*>* +*',)*' 'L/$ '620' ' S' . _ %T <1.)* 0'6 '# ' 1-0 .' ;==*-' 12>*' 0+*- ',*2' *6-.' 620'6,',)*' >/1.*' '>*2,'L+ '.*>% '=,% '>)% T 4 *.*/*-' "!' # ! 1'12* .'/ '%' & ! ! % Q ' 'K '21,*X% *0% ? ,)' + ' g NT >)-1>9)')" " " ' ' ! 5 '+'K S' . _ %T >1,,'& ' '" '$ ' ' ',-62./% 8 ,)' 21,*.' M) /6% -*.D% 16-0d .*^ +*-*/ '-*+ *8*0' 2' >)1/.' '& =' 1' +1/% T 6+1-6D/ '-*+ *8*0' 2' " ' , ' L+ ' R '620' 2'$% ' '" ' ' +'KSSX% ()*' ' '' ' 2' 6, 2'6-*' 5 +*2' 2',)*' $ ' 'M L12% Q '=% NS '. _ %XT 2' *?* *-' 2 ' 'M Q '=% SR XT 2' ;5;.,' 9 % ' '$ " ' 'M /D*- */0' QK '=% RQC' K XT 2' 25/.)' 2' >1,,.'$ ' '' '>',*0' 6D1+*' 6/.1' 2',)*' ==*20 L',1',)*' ' '" '5 ' ' "' '" M) /6% Q Q?1XT 620' 2' : 6//'# 9 ' ' " ' ' 'M 120% Q K'=% NR' H_%X% **' 6/.1' 46..' ? " " ' ' % " ' ' +' ' D9% ' 620' T ;22 25)6?'5 ' '-" ' '" '5 ' ..6'+ T ;22 T 5C')6?'# '-" 1' 1)Y LL+'g' K T' 620',)*' 6-^ ,>/*.' g > / / $ g & $ g 4' (;.T ! 1-,;.' M 1=-1 X' 6' /*60 25' B* 8' >)6-5*0' D* 1-*' # ;60-6,;.'=-*. 0*2,'1' - 6' 8 ,)' 2> , 25') .' >1;2^ ,- ?*2',1' -*+1/,'656 2.,',)*' 1?62.'MB1.*=);.' & ! d d' s' K X% 1- ? *20.' M 1=+7 2T7X' 6,)*-' 1' ,1/*? ' .;-26?*0' <6>-12' M' <6>>% ' NQT K' <6>>% +' SX% .',) .' ,1/*? ' 86.' 2',)*' .*-+ >*C 1' ,1/*? ') /1C ?*,1-' 9 25' 1' 5 =,' D* 1-*B *' 0*.*-,*0',1' 2, 1>);.' = =)62>.',' .' .=1.. D/*',)6,')' .' 6,)*-' .',)*' .6?* 1- ?*2*.' 8)1' 1;5),' 656 2.,' 2, 1>);.',)*' 4-*6,' M 1/ D% ' S X% 3 1. ,)*62.% *6' $ $! 1. ,) * .' I& g I=8',)*' 26?*' 1' .*+*-6/?*2' 2',)*' =1>- =)6 % ' =-*.,' 620' *+ ,* J' 8)1' 6>>1-0 25',1',)* 6=1> (X)6/600, 12.',1',/*' D119' 1' .,)*-' >6-- *0',)*' /*,,*-' 1' <1-0*>6' -*.=*>, 25',)*' *6.,' 1' ;- ?',1' 5 =,' M .,)% L ' CKX% ,' .' .>6->*/ ' / 9*/ ',)6,')*' .7 0*2, >6/ 8 ,)',)*' 1..),)*;.' 8)1' .' ?*2, 12*0' D' B1.*=);.' M- =% ' X' 6.' 12*' 1',)*' `>1? ?620*-.' 1',)*' 1->*.J' 1' ,1/*? ' ') /1?*,1-',)1;5)I)*' =-1D6^ D/ '/ +*0' 2',)*'-* 52' 1',)6,'?126->)% B1.*=);.' 6/.1' .=*69.' 1' 6' 1. ,)*;.' 8)1' D*,-6 *0',1' :*-10' 6')1., /*' /*,,*-' 1' : A>62;.' M-' ! L+' [' KX% I K% 2*' 1',)*' 5*2*-6/.' 1' B;06.' <6>>6D,*;.' MK' <6>>% L ' R' K X% N-' '>6+6/-' .1/0 *-' 2',)*' 6-? '1 'B;06.' <6>>6D6A' ;.' 1',)*' >1?=62' 1' 6>*21-' MK' <6>>% L ' N X% % ' -*2*560*' B*8' 2',)*' >6?=' 1' ,1/*? ') /1C ' D*>6;.*' ,)*' 8*// >122*>,*0' 8 ,)' ') 6./125' =6..^ =6,1-' MN' <6>>% ' NX% *0' 6?125')-., 62.' 620' <1./*?.' 1-',)*' 8*// 2' _;*.^ 1. ,)*;.' 6' 6?6-,62' 2',)*' -.,'>*2,;-AW 8)1' , 12' M 1D 2.12' 5 ' 'N X% ()*',-;*' .,*' 1' 1,/ 62' >/6 ?*0',1' D*' <*.. 6)'1-',)*'=-1=)*,'=-1? .*0' 2' *;,% 86.' 92182',1',)*' B*8 .)',-6+*//*-' 6DD' 6>) ' L+ ' Q% ()*');->)' 6,/*-.' 6.>- D*',1') ?' =*>;/^ 6-/ '?62' 01>,-2*7' 8) >)')60' 6/86 .' D**2')*/0' D' ,)*' 6?6-,62.% : *' 86.' >) * / '0 ., 25; .)*0' D' 62' 6.>*, >' / *' 620' 62' 1+*-C.>-;=;/1;.' 1D.*-+62>*' 1',)*' 6DD6,)' M - 5*2' ' ' % ' +' >% %I' #;1' _; .,;*' >1-=1-.' .,;' 2' =- 2> = 1' .6DD6,)' 2+*2,;.' ;*-,' 2' '60' +*.=*-;?' ;_;*' =.'=*-?62*20;?' *..*X' 8) >)' 1- 5 26,*0' *+ 0*2,/' 2' 6' +*-D6/ 2,*-=-*,6, 12' 1' L10% L+ ' KR% .' /6,*' 6.',)*' *6-' QQ',)*' 1//18*-7 1' 1. ,)*;.' 8*-*' *2565*0' 2' 6' >12,-1+*-. ' 8 ,)',)*' 1,)*-' 6?6-,62.' >12>*-2 25',)*' =6..65*' *;,% L+ ' Q M ;/15 ;.' =% " ' !1 !'=% KN T 4 *.*/*-' "!' # ' 'g QX% 2.,*60' 1' D* 25' 2>/;0*0' 2',)*' >/6..' 1') *-*, >.') *' 1;5),' ,1' D*' >/6..*0' 6?125',)1.*' / ;26, >.' I;)1')6+*' 62> *0',)*? .*/+*.' 0 + 2*' ?*..*2^ 5*-.% : .' ?= 1;.' >/6 ?.' >6;.*0' 62' 1-0*-' -1?',)*' 2'N 3 (' ' '" # ' '?';' 'M ?.,% 6?6-,62') 5)C=-*.,' 1-') .' 6==-*)*2. 12T 620' 1C' XT ' ' '" '# ' ' 'M ,*-.*' */*5% .,6-+*0',1' 0*6,)' M = =)62 ; .' # ' L ' >,*0' D ' : 6.. 6>1-; ?X' *0% D ' : *==*' 2' . " ' '" J' <1.)*?'# ! % % Q ' 'K '21,*X% " ' -" ' LL ' KKS . _ T *6/' # ' ' " ' 1' =,% ' >)% T 1// *-' 6 ' # ' 1. ,)*;.' ,) *' 1;20*-' 1',)*' ;.. 62' .*>',>6//*0' ? ' ; / 'M 120% Q '+ ' '. _ %TXT >)1/.' 6 ,*-') ?' 1. ,)*18.>),.>) 26% : *' ,6;5),' ,)6,' , ' ' '& 'M 120% QK' K' +1/.% Q+1X' 86.' .; > *2,',1' >12 *..' 72* .' . 2.' 620',1' -*>* +*',)*' 'L/$ '620' ' S' . _ %T <1.)* 0'6 '# ' 1-0 .' ;==*-' 12>*' 0+*- ',*2' *6-.' 620'6,',)*' >/1.*' '>*2,'L+ '.*>% '=,% '>)% T 4 *.*/*-' "!' # ! 1'12* .'/ '%' & ! ! % Q ' 'K '21,*X% *0% ? ,)' + ' g NT >)-1>9)')" " " ' ' ! 5 '+'K S' . _ %T >1,,'& ' '" '$ ' ' ',-62./% 8 ,)' 21,*.' M) /6% -*.D% 16-0d .*^ +*-*/ '-*+ *8*0' 2' >)1/.' '& =' 1' +1/% T 6+1-6D/ '-*+ *8*0' 2' " ' , ' L+ ' R '620' 2'$% ' '" ' ' +'KSSX% ()*' ' '' ' 2' 6, 2'6-*' 5 +*2' 2',)*' $ ' 'M L12% Q '=% NS '. _ %XT 2' *?* *-' 2 ' 'M Q '=% SR XT 2' ;5;.,' 9 % ' '$ " ' 'M /D*- */0' QK '=% RQC' K XT 2' 25/.)' 2' >1,,.'$ ' '' '>',*0' 6D1+*' 6/.1' 2',)*' ==*20 L',1',)*' ' '" '5 ' ' "' '" M) /6% Q Q?1XT 620' 2' : 6//'# 9 ' ' " ' ' 'M 120% Q K'=% NR' H_%X% **' 6/.1' 46..' ? " " ' ' % " ' ' +' ' D9% ' 620' T ;22 25)6?'5 ' '-" ' '" '5 ' ..6'+ T ;22 T 5C')6?'# '-" 1' 1)Y LL+'g' K T' 620',)*' 6-^ ,>/*.' g > / / $ g & $ g 4' (;.T ! 1-,;.' M 1=-1 X' 6' /*60 25' B* 8' >)6-5*0' D* 1-*' # ;60-6,;.'=-*. 0*2,'1' - 6' 8 ,)' 2> , 25') .' >1;2^ ,- ?*2',1' -*+1/,'656 2.,',)*' 1?62.'MB1.*=);.' & ! d d' s' K X%

* -' ;0'M 6=)6->1, 6X',1' ,, /' .1 ; ,)C*6.,'1 ' *AA;2%' : *' ,) ; .' .=*69.' 1 ' ,d ' ,' .' 218' 6' 2*' 5-**2' ' M921//X' 8 ,)' 6' 1 ; 2,6 2' 12' ,. .1 ; ,) *-2' D6.*' >1--*^ .=120 25'*2, -*/ ',1',)*' =1. , 12' 6 . . 7*0',1' ,' D ' ;^ .*D ; .%' & *' 8*-*' ,1/0' 6,' 6 D60',)6,',) *' 5-*6,' -160' -1?' * .62' 620' U*- 2',1' 6?/*)' 620' 5A =,' . , // /*60.' ,)-1 ; 5)' ,) .' =/6 2 ' *2,*- 25' ,' 8*.' 1 ' B*2 2 ' =6.. 25' 2*6-' * -' ;0 ' 620' D*20 25' .1 ; ,)C8*.,86-0' 6-1 ; 20' 6 D ; 0' ,1' ,)*' 8*.,*-2' =/6 2%' ,' .' *6. ' ,1' .**',)*-* 1-*' ,)6,',)*' < 0 62 ,*. ',1' 8)1?'B1.*=') 86.' .1/0' 2' 1,)62')60' >-1..*0',)*' B1-062' 6,' * .62' 620' 8*-*'=-1>**0 25',1' 5 =,'6/125',)*' 1-0 26- ' -160%' ,' .' 1D+ 1 ; . ' ,11' ,)6,'B1.*=) .' D-*,)-*2' 8*/' 92*8' ,)*' BA*.,' =/6>*.' 1-' =6.,;-65*%' ( )* ')60' *L)6 ; . ,*0',)6,' 1 ',)*' < ; 926' D ')*>)*?' M 6D/; .X '620')60' 6 ,*-^ 86-0.' -*=6 -*0',1',)*' ., // 2*-' =6.,;-.')*-*' 6-1; 20' 1,)62J' > ; " '$ 1' Q N'=' KK KNX%

1, '> ' '86.'D1-2' 2' Q K' 5-60 ; 6,*0'6,' ; ,^ 5*-.' 1//*5*' 2' QN '620' -1?',)*' ( )*1/15 >6/' *?^ 26- '1',)*' * 1-?*0' ; ,>)') ; ->) ' *8' -; 2.8 >9' %B%' 2' QNS'620' 86.' / >*2.*0' 620' 1-06 2*0' 6.' 6' ? .. 126- ',D',)*')*6,)*2' 2',)*' .6?*' *6-%' : *' 86.' 6' ?*?D*2' 1 ',)*' -.,' ? .. 12' .*2,' D ',)*' * 1-?*0' ; ,>)') ; ->)' 620' ,)*' ?*- >62' 16-0' 1 ' 1?? .^ . 12*-.' 1-' 1-* 52' < .. 12.',1'B6+6' 8)*-*')*' /6D1-*0' -1?' QNS',1' Q '8)*2')*' 86.',-62. *--*0',1' 1-2*1' 620'/6D1-*0'6?125',)*' 69.' ; 2, /' Q ' ( )*2>*)*' 86.' -*?1+*0',1') 26' 62078 6.' >122*>,*0' 8 ,)',)*' ?1 ' < .. 12' ; 2, /) .'0*>*6.*' 8)>)' 1>>;--*0'6,'.*6' 12') .' 7*76-2' -1?') 26' 2' <6->)' QS 'D ; ,' 1 ; -'06 .' D* 1-*' ,)*' 6-- +6/' 1 ',)*' .) =' 6,' *8' 1-9%' <-*' 1, ' 86.' 62' *L>*//*2,') 2*.*' .>)1/6-' 620'=-*6>)*-!' 62' 20* 6, 56D/*' >1 ; -65*1 ; . ' ./ C0*2 25' /6D1-*-!' 6' ?62' 1 ' . 25 ; /6-' -6292*.. ' = *, ' 620' [*6/! 620' 86.' >/1.*/ ' 0*2, *0' 8 ,)',)*' >*/*D-6,*0' ? .. 12'6,' ?1 ' -1?' ,.'1- 5 2' 620',)-1 ; 5)'6//',)*'.,*=.' 1 ' ,.'-*?6-9^ 6D/*' .;>>*..%' *8' ?*2')6+*' .;-=6..*0') ?' 2',)*' ,1 /.' 620' 6 ,) ; /2*..' 1 '62'*+625*/ .,%' 1-' *6-.')*' 86.' -*56-0*0' 6.' ,)*' 6,)*-' 1 ' 8)6,')6.' D**2',*-?*0' ,)*' ?10*/' ? .. 12J' 1 ',)*' ?*- >62' 16-0' 620' 1 ' ,)*' * 1-?*0' ; ,>)') ; ->)

1 ; 6 '1-' 1 ; 6 '6',182' 2' -62>*'1 ',)*' *^ =6-,?*2,' 1 ' 1-0T ,' 1-?*-/ ' D*/125*0',1' /620*-.%') / =' ' 2' S ' 1 ; 20*0' 6' ; 2 +*-. , ')*-*' 6 ,*-',)*' ?10*/' 1 ',)6,' 1 ' 1 ; +6 2 ' 2' SQ' 6'B*. ; ,. ' >1//*5*' 86.' 1 ; 20*0' 2' >122*>, 12' 8 ,)',)*' ; 2 +*-. , 'D 'B*62' *2,>* //* -')*60'1',)*'2* 5)D1- 25'6DD* '1 ' ; >) 2 % 8)1'0*+1,*0'=6-,'1',)*'-*+*2;*.'1',)*'6DD* ',1',)*' .;==1-,'1',)*'>1//*5*' 8)>)'.112'D*>6?*'+*- ' =18*-^ ;/%' 6-0 26/ & // 6?' //*2'M_%'+%X'*.,6D/.)*0'6/.1' 6'>1//*5*' 6,' 1 ; 6 ' 1-',)*' *0 ; >6, 12'1 ' 1?62' 6,)1^ />' 25/.)' 1 ; ,)% ' 629*'# ' ' + ' % 1'D9%' + %' 1-',)*' ' ' ; ' .**' !

1 ; D/*' M-*=-*.*2,*0'D ' .*+*-6/' :WD%' 620' 4-**9' 81-0.X')6.`?62 ' . 52 >6, 12.' 2' >- =, ; -*%' ' 01 ; D/*' 56-?*2,J'M L10%' LLL L 'RX' ?6 ' ?*62' 6' / 2*0')6/P ,' . ; >)'6.',)*') 5)C=- *., .' =*>, 1-6/ ' 1-' 6' >1?=/*,*')6D ,' 1-' . ; ,' 1 ' >/1,)*. ' 6' >/169' 620' 6' , ; 2 >' *,>%' ' ')*6-,' ' ,125 ; *' ' ? 20 '6-*' 1==1.*0' ,1I' 6' . ?=/*')12*.,' . 2>*-*')*6-,' ,125 ; *' ? 20 ' *,>%' ' ' ,)*' >1 ; 2,*-=6-,' ,1' 6' _ ; 62, , ' ,1' 6' .=6>*' ,1' ⇘ ?*6. ; -*' *,>%' 8)>)' .' =-1=1.*0' 6.' ,)*' *L*?=/6-%' 1-',)*' ?*62 25'1'8)6,',)*' 8*-*' =-1?=,*0',1' ; ,,*-'M ' *,%' X%' 1?*1',)*' -'=-*0 >^ , 12. ',)*-* 1-*' 6-*' 6 -/ ' . ; .>*=, D/*' 1 '+6- 1 ; '-* *-^ *2>*. ' 620' 8*-*' 01 ; D,/*..' 2,*20*0',1' D*' .1' ,69*2%' 20**0 ' ,' .'6?5110'-;/*' 2',)*' 2,*-=-*,6, 12' 1 ' >- =^ ,;-*' 5*2*-6// ' ,1' 601=',)6,' . 52 >6, 12' 8)>)' .',)*' ?1.,' >1?=-*)*2. +*' 620' 8)>)' -*_ ; *2,/ ' 2>/ ; 0*.' ,81' 1-' ?1-*' .*2.*.' ; =12' 8)>)' >1?7*2,6,1-.')6+*' 5*2*-6// 'D**2'0 + 0*0'D ; ,' ,) . ' 1'>1 ; -.-*' >6221,'D*' 012*' 8)*2',)*-*' ?*62 25.'6-*'0 +*-.-*' 2'=- 2> =' D ; ,' =6..65*'01*.'21,' ?*62',& >*' 6.' ? ; >)' 6.')60'D**2'0*^ .*-+*0'01 ; D/*' 8)6,'86.'A ; . , 'D ; ,' ,)*' 6 -' >1?7*2. ; ^ -6,*'60*_ ; 6,*'-*,-D ; , 12%' ( )*'.6?*'.' ,)*' ?*62 25' 1',) .'=)-6.*' 2'1,)*-'=/6>*.'M .6%' L ' 'T B*-'L+ ' QT' L+ ' Q%' 6/?*,' .'%+%

$ ' ' / $! 2'>*-,6 2'=-1^ =)*, >'=6..65*.',)*-*' .'6'01 ; D/*' ?=1-,'1-',8'1 0'6=^ =/>6, 12' 6' /18*-'620'67') 5)*-' 6' 2*6-*-' 620'6' ?1-*' -*?1,*%' ( )*' 1-?*-'-*/6,*.',1',)*'=-*.*2,'620' ? ?*^ 0 6,*' 8)/*',)*'/6,,*-' ; . ; 6// '-*' *-. ',1',)*'<*.. 62>' =*- 10' 620' .= - ,.; 6/ 0*/ +*-62>*%' ( ) . ' 0 .. 2>, 12')18*+*-')6.' D**2'>12,*.,*0'D ' ?62 %' ,' . ' ; 20*2 6^ D/*',)6,'. *+*-6/'1 ',)*' 6,)*-.' ?6 2,6 2*0',)*' .1C>6//*0' J1 ! ' '1 '=-1=)*> '=6-, > ; /6-/ ' ( )*101-*' 1 '<1=C' . ; *. , 6' 620',)*-*' ./ ,,/*'01 ; D,',)6,'2 ; ?D*-.' 2' ?10^ *-2',?*.')6+*' -*A*>,*0' ,' 12' 6>>1 ; 2,' 1 ',)*' ; 2 1-,;^ 26,*' 6==*//6, 12%' - ' 81 ; /0'D*' ? ; >)' ?1-*' 6==-1=- 6,*T D ; ,' ,)*' 26?*' .' 1 ' / ,,/*' >12.*^ _ ; *2>*%' '-*>*2,' 8- ,*-' 6.9. ' ' : 18' >1 ; /0' . ; >)' =1^ . , 12.' 1-?' =6-,' 1 '6' '8)*2'6 ,*-' 8*)6+*' 6.>*-,6 2*0',)* -' ?*62 25' 8*' 6-*' ., // /* ,'6.' 521-62,' 6.'*+*-'1',)* -' ?=1-,'. 2>*' ; 20*-',)*.*' 81-0.' 621,)^ *-' 0**=*-' ?*62 25' ., // / *.') 00*2IH' *. 0*.')18' 620' ; =12' 8)6,'=- 2> =/*' >62' 8*' *+*-' D*' . ; -*',)6,' 8*')6+*' 6-- +*0' 6,',)*' ,-; *' .*>1206- ' ?*62 25' 1-' ,)6,' 8*')6+*'=*- *>,/ ' *L)6 ; ..*0',)*' D ; -0*2' 1 ',)*.*' =6.^ .65*.' 1-' ,)6,' 1 ; -' 81-9' 6.' >1?7*2,6,1-.' .' 6>>1?^ =/ .)*0'H ( )*-*' ?6 ' D*' 6',) -0 ' 1 ; -,) ' ,)' 1- ' 6.' ,)*' 6DD .' ?6 2,6 2 ' .*+*2, ' ?*62 25.' / ; -9 25' ., // 0**=*-' ; 20*-',)*.*' +*- ' 81-0.J M & 1/ * ' "' ' "' ' =%' LL +X%' ; ,' 2* ,)*-' ,)*' . 25/*' 21-' ,)*' 01 ; D/*' .*2.*' 1 ' =-1=)*> ' >62' A ; .,/ ' D*' 6-5 ; *0' 12' % ' 5-1 ; 20.%' ( ) ; .' -21/0' >$ ' ' K X' ,- *.' ,1' .)18',)6,' 6' 01 ; D/*' .*2.*' 6==*6-.',1' D*' 6' 2*>*.^ .6- '>120 , 12' 1 ',)*'E ' 0*6' 620' 0* 2 , 12' 1 '=-1=)^ *> %6.')6+ 25' .1',1' .=*69'6') ; ?62' 6.' 8*// 6.' 6' 0 ^ + 2*' 6 ; ,)1-%J' ( ) .' /625 ; 65*' 6==/ *.',1' 6//'%2.=-*0' >1?=1. , 12' 620' 81 ; /0',)*-* 1-*' ?=/ ' 6' 01 ; D/*' .*2.*' 2' 6//' >-=, ; -*%' ( )*' ,-; *' 620' 12/ ' =)/1.1=) >6/' ?*,)10' .',1' >12. 0*-',)7' 6>, ; 6/=)*21?*26' 1 '=-1=)^ *>' 6.',)*' / *' D* 1-*' ; .' 2',)*' >-=, ; -*. ' 6 ; 0' .*>' 8)*,)*-',)*' 12*C.*2.*',)*1-' ?**, ; 6//',)*' *=05*2>*.' 2'*+*- '>6.*%

, ',)*' 1 ; ,.*, ' , .' =-1=*-',1' 0*2 ',)6,',)*',)*1-' 1' 01 ; D/*C.*2.*' -*.,.' 8)1// ' ; =12' ,)*' >12.,-; >, 12' =, ; ;=12',)*' 1-?;/.*' D ' 8)>)',)*' %C(%8-,*-.'-*_ ; *2,C' , ' 2,-10 ; >*',)*'_ ; 1,' , 12.' -1?',)*' %' (%'*%5%<6,,' 'KK' M 6' ',)6,' ,?5),'D*' ;/ //*0 J' 620 ,)*'/9*' M & 1/ *'=%' LL+X%' **' $! ( )*'D6.' 1 ' ,) .' ?*,)10' 1 ' 2,*-=-*,6, 12' / *.' 6-' D-160*-' 620' 0**=*-' ,)62',) .'T ' .' 1 ; 20*0' 2'=6-,' 12',)*' % >)6-6>,*-' 1 ',)*' %C(%' 12. ?D1/ >6/ ,-62.6>, 12.' 620',*6>) 25.'T ' .' 0*- +*0' -1?',)*' /62^ 5 ; 65*' 1 '?62 ' 20 + 0 ; 6/=6..65*.' 8)>)' .' D1,)') .^ ,1- >6/' 620') =*-D1/ >6/'T ' .' 2)*-*2,' 2',)*' 26, ; -*' 3,'6',)*1>-6> '/9*',)6,' 1 ',)*' B*8.' 8)>)' 86.' */*^ ?*2,6- ' . ?D1/ >6/', = >6/' =-*=6-6,1- ' ,1' 6' D*, ,*-' 620' 6' .= - ,; 6/ *>121? %' ,' .' -**/ ' 6//18*0',)6,' 6' 01 ; D/*' .*2.*' .)1 ; /0' 21,')*' 60? ,,*0' 8)*2' 621,)*-' *L^ =/626, 12' .' ?1-*' =-1D6D/*%' 1'01 ; D,' ,')6.' 1' >- =^ .; ?*0' 2 71?*' >6.*.',11')6., / T D ; ,%,)*-*' 6-*' >6.*.' 8)>)' >6221,' D*' 6 -/ ' 2,*-=-*,*0' 8 ,)1 ; ,' ,% **' , $ '> 'L ' - ' ' " ' 7 (8!

()*' /625 ; 65*' 1 '=-1=)*>' .' 5*2*-6// ' +65 ; *' 620' 1,.>; -*T ,)*' 0*6.' 1 ' ,)*' .**-. ' ,)*' -' + . 12.' 620' 0-*6?.' I8*-*' , 25*0' 8 ,)' 06-92*..%' 2' ?62EI' 2^ .,62>*.' .' ,' 81 ; /0' .**?',)6,',)* ')60'21,',)*?.*/+*.' 6' >/*6-'=*->*=, 12' 1 '6// ,)*' ?*62 25'1'8)6,',)*' 8*-*' =-1?=,*0',1' ; ,,*-'M ' *,%' X%' 1?*1',)*' -'=-*0 >^ , 12. ',)*-* 1-*' 6-*' 6 -/ ' . ; .>*=, D/*' 1 '+6- 1 ; '-* *-^ *2>*. ' 620' 8*-*' 01 ; D,/*..' 2,*20*0',1' D*' .1' ,69*2%' 20**0 ' ,' .'6?5110'-;/*' 2',)*' 2,*-=-*,6, 12' 1 ' >- =^ ,;-*' 5*2*-6// ' ,1' 601=',)6,' . 52 >6, 12' 8)>)' .',)*' ?1.,' >1?=-*)*2. +*' 620' 8)>)' -*_ ; *2,/ ' 2>/ ; 0*.' ,81' 1-' ?1-*' .*2.*.' ; =12' 8)>)' >1?7*2,6,1-.')6+*' 5*2*-6// 'D**2'0 + 0*0'D ; ,' ,) . ' 1'>1 ; -.-*' >6221,'D*' 012*' 8)*2',)*-*' ?*62 25.'6-*'0 +*-.-*' 2'=- 2> =' D ; ,' 12/ '8)*-*'6.' 2',)*' >6.*' 1',)*'01 ; D/*' -* *-*2>*.'218' .=19*2'1 ',)* '6-*' D ; ,'D-62>)*.'1',)*' .6?*' 8 0*-'*L^ ,*2. 12'1-'6==/ >6, 12.' >1? 25' ; 20*-',)*' .6?*' 626/1^ 5%' ( )6,'12*' *+*2,' 2',) .' ?622*-' -*_ ; *2,/ ' 60 ; ?C IP-6,*.' 621,)*-' 2' >- =, ; -*' .' ; 2_ ; *. , 126D/*' 620',)*

spiritual antagonist, whether in the form of the Seleucid persecutors, pagan Rome, or the papacy. See LITTLE HORN. See Davidson, in Horne's *Introduction*, new ed. ii, 458 sq.; on the other side, Stuart, in the *Biblic. Repos.* 1831, p. 63 sq.; in the *Bibliotheca Sacra*, 1852, p. 459 sq.; comp. Stier, *Words of Jesus*, i, 431 sq., Am. ed.; *Meth. Quart. Review*, April, 1867, p. 195 sq. See HERMENEUTICS.

Doubt (*dubito*, to go two ways). "Man knows some things and is ignorant of many things, while he is in *doubt* as to other things. *Doubt* is that state of mind in which we hesitate as to two contradictory conclusions, having no preponderance of evidence in favor of either. Philosophical *doubt* has been distinguished as *provisional* or *definitive*. *Definitive doubt* is *scepticism*. *Provisional* or *methodical doubt* is a voluntary suspending of our judgment for a time, in order to come to a more clear and sure conclusion. This was first given as a rule in philosophical method by Des Cartes, who tells us that he began by doubting everything, discharging his mind of all preconceived ideas, and admitting none as clear and true till he had subjected them to a rigorous examination. *Doubt* is some degree of belief, along with the consciousness of ignorance, in regard to a proposition. Absolute *disbelief* implies knowledge: it is the knowledge that such or such a thing is not true. If the mind admits a proposition without any desire for knowledge concerning it, this is *credulity;* if it is open to receive the proposition, but feels ignorance concerning it, this is *doubt*. As knowledge increases, doubt diminishes, and belief or disbelief strengthens (Taylor, *Elements of Thought*)." —Fleming, *Vocabulary of Philosophy*, Phila. 1860. See DES CARTES; SCEPTICISM.

Doubts, DISSOLVING OF, Chald. מְשָׁרֵא קְטִרִין, *mesharé' kitrin'*, to *unbind knots*, i. e. solve problems; a form of speech still commonly employed in the East for the determination of difficult questions (see Roberts, Burder, Bush, *Illustra.* in loc.).

Dough (בָּצֵק, *batsek'*, so called from *swelling* in fermentation, Exod. xii, 34, 39; Jer. vii, 18; Hos. vii, 4; "flour," 2 Sam. xiii, 8; עֲרִיסוֹת, *arisoth'*, *grits*, so called as being *pounded*, Num. xv, 20, 21; Neh. x, 37; Ezek. xliv, 30). See COOK. The dough, we are told, which the Israelites had prepared for baking, and on which it appears they subsisted after they left Egypt for a month, was carried away by them in their kneading-troughs on their shoulders (Exod. xii, 34). See KNEADING-TROUGH. In Oriental countries, and indeed in all tropical climates, the process of preparing the materials for baking is very expeditious, and generally performed in the house for each meal, including grinding the meal. See BREAD. The fermentation is often dispensed with altogether. See LEAVEN. From Hos. vii, 8, it appears that the dough had to be turned in the process of baking, in order to be well done. See BAKE.

Arab Women grinding Grain with a Hand-mill, rolling out the Dough, and baking the Bread.

Dougharty, GEORGE, a Methodist Episcopal minister of the South Carolina Conference. The date of his birth is wanting. He entered the itinerancy in 1798, was presiding elder 1802-6, became superannuate in 1807, and died March 23, 1807, at Wilmington, N. C. Mr. Dougharty was one of the greatest preachers of his Conference. His mind and memory were capacious; he had a large fund of knowledge, was indefatigable in labor and study, and "totally dead to the world." He was far in advance of his associates with regard to education, and labored in 1803 to establish a Methodist academy in South Carolina. In 1801 he was attacked by a mob, gathered in the interest of slavery in Charleston. They dragged him to a pump, and pumped water on him till he was nearly exhausted, when a heroic woman interfered and kept the mob at bay till help arrived and saved him from probable death.—Stevens, *History of the Methodist Episcopal Church*, vols. iii and iv; *Minutes of Conferences*, i, 155; Deems, *Annals of Southern Methodism*, p. 228; Sprague, *Annals*, vii, 290.

Doughty, John, was born at Martley, near Worcester, England, about 1598; was educated at Oxford, and became fellow of Merton College. About 1631 he was made rector of Lapworth, Warwickshire; and after the restoration of Charles II he was appointed prebendary of Westminster and rector of Cheam, Surrey. He died at Westminster, Dec. 25, 1672. He published, under the Latinized name Doughtæus, *Analecta Sacra, sive excursus philologici breves super div. S. Scripturæ locis* (Lond. 1658-60, 2 vols. 8vo); 2d ed. with Knatchbull's *Animadver. in N. T.* (Amst. 1694, 8vo); *De Calicibus eucharisticis vet. Christianorum* (Bremæ, 1694, 8vo).—Darling, *Cyclopædia Bibliographica*, i, 949; Orme, *Bibliotheca Biblica*.

Doughty, Samuel, a Methodist Episcopal minister of the Philadelphia Conference, was born in Philadelphia in January, 1794, was converted in 1816, entered the itinerancy in 1823, was stationed successively at New Brunswick, N. J., and at St. George's, Philadelphia, and died at Wilmington, Del., Sept. 17, 1828. Mr. Doughty was one of the most popular, useful, and eloquent preachers of his time. He was an eloquent advocate for the benevolent institutions of the Church, especially for Sunday-schools, of which he was a distinguished promoter, both before and after his entrance to the regular ministry. His literary and theological requirements and talents were of a high order, as his published *Sermons* in the *Methodist Magazine* sufficiently attest, especially one upon "Instability in Religion." He was rapidly rising in influence and usefulness when he was suddenly cut down.—*Minutes of Conferences*, ii, 38; Sprague, *Annals*, vii, 672.

Douglas, Gawin, or **Gavin**, bishop of Dunkeld, Scotland, was the third son of Archibald, earl of Angus, and was born at Brechin in 1474, or the beginning of 1475. He received his education first in his own country, and then on the Continent. On his return to Scotland he was made provost of the collegiate church of St. Giles, at Edinburgh, and afterwards abbot of Aberbrothick. He was also nominated by the queen regent to the archbishopric of St. Andrews, but this dignity he never obtained, owing to the refusal of the pope to confirm the

appointment. He was, however, confirmed as bishop of Dunkeld through the interest of Henry VIII with pope Leo X. His administration fell in a troubled time, and after many vexations he retired to England, where Henry VIII granted him a pension. He died of the plague at London in 1522. Bishop Douglas translated the *Æneid* of Virgil into Scottish verse, printed at London in 1553, 4to. His other works are a poem called *The Palace of Honor*, 4to, and *King Hart*, printed in 1786. His *Virgil* was reprinted at Edinburgh in folio, with a glossary, in 1710.—Kippis, *Biographia Britannica*, v, 338.

Douglas, John, D.D., bishop of Salisbury, was born in 1721 at Pittenweem, Fifeshire, and was educated at Baliol College, Oxford. He was chaplain in the Guards at the battle of Fontenoy, became canon and dean of Westminster in 1762, was made bishop of Carlisle in 1787, and in 1791 was transferred to Salisbury. He died May 18, 1807. Dr. Douglas was intimate with Dr. Johnson, and all the most celebrated of his contemporaries. He was an accurate scholar and critic, and exposed Lander in his *Milton no Plagiary*, and ably attacked Hume in his *Criterion of Miracles*. Both these essays are given in Douglas's *Select Works* (Salisbury, 1820, 4to). He also wrote largely against Archibald Bower, aiming to show that he was a literary and religious impostor, in his *Six Letters to Sheldon* (Lond. 1756, 8vo), and in his *Bower and Tillemont compared* (London, 1757, 8vo). A new edition of his *Criterion* appeared from the Clarendon Press (1833). See Elliott, *Delineation of Romanism* (Lond. 1851), p. 525; Van Mildert, *Boyle Lectures*.

Douglass, Thomas Logan, an eminent Methodist Episcopal minister of the Virginia Conference, and afterwards of the Tennessee Conference, was born in Person County, N. C., July 8, 1781, entered the Virginia Conference on trial in 1801, traveled on important circuits and districts until 1813, was then transferred to the Tennessee Conference, and died near Franklin, Tenn., April 9, 1843. Mr. Douglass was eminently useful both as a preacher and presiding elder, and his influence was very great in the Conferences with which he was connected during more than thirty years. His sermons were pregnant with thought, and his appeals were full of pathos. Few preachers of his time had such command of their hearers. He was an excellent disciplinarian, and thoroughly versed in the history and economy of Methodism. "His piety was uniform and deep, his temper sweet," and his old age was bright and blessed. He was several times elected a delegate to the General Conference.—*Minutes of Conferences*, iii, 457; Sprague, *Annals*, vii, 352; Summers, *Biographical Sketches*, p. 103.

Dove (יוֹנָה, *yonah'*, prob. referring to the sexual *warmth* of that bird; περιστερά; both terms occasionally rendered "pigeon"). There are probably several species of doves or pigeons included in the Hebrew name with its Greek equivalent. It may contain all those that inhabit Palestine, exclusive of the turtle-doves properly so called. See Turtle-dove. In modern systems, the doves are included in the natural family of *Columbidæ*, or pigeon tribe, which comprises the pigeons, doves, and turtles; but naturalists are still divided as to the proper place of the family, and the limits of the respective subdivisions (see Bochart, *Hieroz.* ii, 542 sq.). Syria possesses several species of pigeon: the *Columba anas*, or stock-dove; *C. palumbus*, or ring-dove; *C. domestica*, *livia;* the common pigeon in several varieties, such as the Barbary, Turkish or Persian carrier, crisp, and shaker. These are still watched in their flight in the same manner as anciently their number, gyrations, and other manœuvres were observed by soothsayers. The wild species, as well as the turtle-doves, migrate from Palestine to the south, but stock and ring-doves are not long absent. In the wild state, doves generally build their nests in the holes or clefts of the rocks, or in excavated trees, but they are easily taught submission and familiarity with mankind, and, when domesticated, build in structures erected for their accommodation, called "dove-cotes" (comp. Cant. ii, 14; Jer. xlviii, 28; Isa. lx, 8). Doves are kept in a domesticated state in many parts of the East. The pigeon-cot is a universal feature in the houses of Upper Egypt. In Persia pigeon-houses are erected at a distance from the dwellings, for the purpose of collecting the dung as manure. The allusion in Isa. lx, 8, is to the immense compact masses of these birds that Eastern travellers describe, as they are seen flying to their cotes or places of general resort. They sometimes resemble a distant heavy cloud, and are so dense as to obscure the rays of the sun. Stanley (*Syr. and Pal.* p. 257), speaking of Ascalon as the haunt of the Syrian Venus, says: "Her temple is destroyed, but the sacred doves—sacred by immemorial legends on the spot, and celebrated there even as late as Eusebius—still fill with their cooings the luxuriant gardens which grow in the sandy hollow within the ruined walls." See below. The dove has been by some considered (though in an obscure passage) as an early national standard (Psa. lxviii, 13), being likewise held in pagan Syria and Phœnicia to be an ensign and a divinity, resplendent with silver and gold, and so venerated as to be regarded as holy, and forbidden as an article of food. (See Engel, *Kypros*, ii, 184; Creuzer, *Symbol.*

Syrian pink-and-white Carrier-dove, and Phœnician sacred Ensign of the Dove.

ii, 70–77.) It is supposed that the dove was placed upon the standards of the Assyrians and Babylonians in honor of Semiramis. This explains the expression in Jer. xxv, 38, "from before the fierceness of the dove," i. e. the Assyrian (comp. Jer. xlvi, 16; l, 16). There is, however, no representation of the dove among the sculptures of Nineveh, so that it could hardly have been a common emblem of the nation at the time when they were executed; and the word in the above three passages of Jeremiah admits another interpretation (Gesenius, *Thesaur.* p. 601 a). By the Hebrew law, however (see Mishna, *Yom Tob*, i, 3; *Babâ Bathra*, ii, 5 sq.; *Bab-kamma*, vii, 7), doves and turtle-doves were the only birds that could be offered in sacrifice, and they were usually selected for that purpose by the less wealthy (Gen. xv, 9; Lev. v, 7;

Rock-dove.

xii, 6; Luke ii, 24); and, to supply the demand for them, dealers in these birds sat about the precincts of the Temple (Matt. xxi, 12, etc.). The brown wood-dove is said to be intended by the Hebrew name; but all the sacred birds, unless expressly mentioned, were pure white, or with some roseate feathers about the wing coverts, such as are still frequently bred from the carrier-pigeon of Scandiroon. It is this kind which Tibullus notices (i, 7). The carrier-birds are represented in Egyptian bas-reliefs, where priests are shown letting them fly on a message. All pigeons in their true wild plumage have iridescent colors about the neck, and often reflected flashes of the same colors on the shoulders, which are the source of the silver and gold feathers ascribed to them in poetical diction; and thence the epithet of purple bestowed upon them all, though most applicable to the vinous and slaty-colored species. This beauty of plumage is alluded to in Psa. lxviii, 19, where the design of the Psalmist is to present, in contrast, the condition of the Hebrews at two different periods of their history: in the day of their affliction and calamity they were covered as it were with shame and confusion, but in the day of their prosperity they should resemble the cleanest and most beautiful of birds. The dove was the harbinger of reconciliation with God (Gen. viii, 8, 10, etc.), when Noah sent one from the ark to ascertain if the waters of the Deluge had assuaged. The association of the dove and the olive is not only natural, but highly emblematical (Thomson, *Land and Book*, i, 69). The dove is frequently mentioned in the Scriptures as the emblem of purity and innocence, and so it doubtless was viewed by the Psalmist (Psa. lv, 6–8), although with a special allusion to the swiftness of that bird's flight (comp. Sophocl. *Œd. Col.* 1081; Eurip. *Bacch.* 1090). By an almost anthropomorphic extension of this idea, the dove is, figuratively, next to man, the most exalted of animals, symbolizing the Holy Spirit, a sentiment that appears to be couched in the description of creation (Gen. i, 2), where the Spirit is represented as *brooding* ("moved") over the surface of chaos. (See treatises on this point by Augusti, *Die Taube*, in Gieseler and Lücke's *Zeitschr.* iii, 56–64; Moller, *De columba*, Frib. 1721; Schmid, *De columbis*, Helmst. 1711, 1731; Schwebel, *De columbarum cultu*, Onold. 1767; E. F. Wernsdorf, *De simulacro columbæ*, Viteb. 1773; Id. *De columba sancta Syrorum*, Helmst. 1761; J. C. Wernsdorf, *De columba*, Helmst. 1770; Ziebich, *De columba pentecostali*, Viteb. 1737.) The Holy Spirit descended, as a dove descends, upon our Saviour at his baptism—visibly with that peculiar *hovering motion* which distinguishes the descent of a dove (Matt. iii, 16; Mark i, 10; Luke iii, 22; John i, 32). (See the treatises on this incident, in Latin, by Adler [Sorav. 1822], Böhmer [Jen. 1727], Christ [Jen. 1727], Riess [Marb. 1736], Rechenberg [Cob. 1741], Varemus [Kil. 1671; Viteb. 1713, 1728], Ziebich [Ger. 1772]; in German by Schulthess [in Winer's *Krit. Jour.* iv, 257–294].) The dove is also a noted symbol of tender and devoted affection, especially in the Canticles (i, 15; ii, 14, etc.). The conjugal fidelity of the dove has been celebrated by every writer who has described or alluded to her character (Cant. i, 15). She admits but of one mate, and never forsakes him until death puts an end to their union. The black pigeon, when her mate dies, obstinately rejects another, and continues in a widowed state for life. Hence among the Egyptians a black pigeon was the symbol of a widow who declined to enter again into the marriage relation. These facts have been transferred, by later authors, to the widowed turtle, which, deaf to the solicitations of another mate, continues, in mournful strains, to deplore her loss until death puts a period to her sorrows. (On the emblematical uses of the dove, see farther Wemyss, *Symbol. Dict.* s. v.) The cooing of the dove, when solitary, is often alluded to in Scripture (Isa. xxxviii, 14; lix, 11; Nah. ii, 7). Comp. PIGEON.

In Christian art, the dove is employed as the emblem of the Holy Ghost, following the literal interpretation, which is doubtless the true one, of Matt. iii, 16. After images and pictures began to be allowed in churches, the Holy Ghost was represented by the effigies of a silver dove hovering over the altar, and the baptistery had the same. The place over the altar where it was suspended was called *peristerion*, from *περιστερά*, *a dove* (Bingham, *Orig. Eccles.* bk. viii, ch. vi, § 19).

"From the dove being a symbol of purity, it is generally represented white, with its beak and claws red, as they occur in nature. In the older pictures, a golden nimbus surrounds its head, the nimbus being frequently divided by a cross, either red or black. In stained-glass windows we see the dove with seven rays proceeding from it, terminating in seven stars, significative of the seven gifts of the Holy Spirit. Holding an olive-branch, the dove is an emblem of peace. When seen issuing from the lips of dying saints and martyrs, it represents the human soul purified by suffering. A dove with six wings is a type of the Church of Christ; and when so employed, it has the breast and belly of silver, and the back of gold, two wings being attached to the head, two to the shoulders, and two to the feet. The pyx or box for containing the Host (q. v.) in Roman Catholic churches is sometimes made in the form of a dove, and suspend-

Pyx in the form of a Dove.

ed over the altar, and the dove is often placed on the covers of fonts. In this position it may still be seen in parish churches in England" (Chambers, *Encyclopædia*, s. v.). See also Martigny, *Dict. des Antiquités Chrétiennes* (Paris, 1865, p. 164; Didron, *Christian Iconography* (Bohn), p. 451; Jehan, *Dict. des Origines du Christianisme* (Paris, 1856), art. Colombe.

DOVE-COT. Isaiah (lx, 8) clearly refers to such structures in describing the final restoration of Israel after their long exile: "Who are these that fly as a cloud, and as the doves to their windows?" (כַּיּוֹנִים אֶל־אֲרֻבֹּתֵיהֶם, *like the doves to their lattices*). They doubtless derived their Heb. name from their latticed or window-like form. See WINDOW. Morier illustrates this comparison from what he observed in Persia. "In the environs of the city, to the westward, near the Zainderood, are many pigeon-houses, erected at a distance from habitations, for the sole purpose of collecting pigeons' dung for manure. They are long round towers, rather broader at the bottom than the top, and crowned by conical spiracles, through which the pigeons descend. Their interior resembles a honey-comb, pierced with a thousand holes, each of which forms a snug retreat for a nest. More care appears to have been bestowed upon their outside than upon that of the generality of the dwelling-houses, for they are pointed and ornamented. The extraordinary flights of pigeons which I have seen alight upon one of these buildings afford, perhaps, a good illustration of that passage in Isa. lx, 8. Their great numbers, and the compactness of their mass, literally look like a cloud at a distance, and obscure the sun in their passage" (*Second Journey through Persia*, p. 140). Not only are

Modern Persian Dove-cots.

these birds profitable as food, but both Porter and Morier assure us that their manure is used in Persia. According to the latter, "the dung of pigeons is the dearest manure that the Persians use; and as they apply it almost entirely for the rearing of melons, it is probably on that account that the melons of Ispahan are so much finer than those of other cities. The revenue of a pigeon-house is about a hundred tomauns per annum" (*Second Journey*, p. 141). Porter says "*two* hundred tomauns" (*Travels*, i, 451). See below.

DOVES' DUNG occurs in 2 Kings vi, 25, as a literal translation of חֲרִיֹנִים (*charey'-yonim'*), which in the margin is written חַרְיוֹנִים (*dib-yonim'*), both meaning the same thing. By many the expression is considered to signify literally the dung of pigeons as food in the last degree of human suffering by famine: "And there was a great famine in Samaria, and behold they besieged it, until an ass's head was sold for threescore pieces of silver, and the fourth part of a cab of *doves' dung* for four pieces of silver." Different opinions, however, have been entertained respecting the meaning of the words which are the subject of this article, namely, whether they should be taken literally, or as a figurative name of some vegetable substance. The strongest point in favor of the former view is that all ancient Jewish writers have understood the term literally, and generally as an article of food. That this interpretation is not forced appears from similar passages in Josephus (*War*, v, 13, 7): "Some persons were driven to such terrible distress as to search the common sewers and old dunghills of cattle, and to eat the dung which they got there, and what they of old could not endure so much as to look upon they now used for food;" see also Eusebius (*Eccles. Hist.* iii, 6): "Indeed necessity forced them to apply their teeth to every thing; and, gathering what was no food even for the filthiest of irrational animals, they devoured it." Celsius, who is strongly in favor of the literal meaning, quotes the following passage from Bruson (*Memorabil.* ii, c. 41): "The Cretans, during the siege by Metellus, on account of the scarcity of wine and drinks, allayed their thirst with the urine of cattle;" and one much to the point from a Spanish writer, who states that in the year 1316 so great a famine distressed the English that "men ate their own children, dogs, mice, and *pigeons' dung*." As an additional argument in favor of the literal interpretation of the passage in question may be adduced the language of Rabshakeh to the Jews in the time of Hezekiah (2 Kings xviii, 27; Isa. xxxvi, 12). Other and more modern instances have been adduced, and among them the famine in England during the reign of king Edward II, A.D. 1316, when "pigeons' dung" is mentioned as being eaten by the poor (*Edinburgh Christian Instructor*, No. 122). It may be, however, that the sacred writer means only to say that the famine was so severe, and every thing so exorbitantly dear, that an instance occurred when an ass's head was sold for eighty pieces of silver, and a cab of doves' dung for five; so that the passage may be understood literally, since it is not incredible that persons oppressed by severe famine should devour even the excrements of animals. In the account of the famine and pestilence in Egypt, A.D. 1200, 1201, written in Arabic by the physician Abd-allatif, we have a remarkable illustration of this passage. He says, "The poor, already pressed by the *famine* which increased continually, were driven to devour dogs, and the carcasses of animals and men, yea, even the *excrements* of both." Taking the term, however, in a literal sense, various other explanations have been given of the use to which the doves' dung was applied. Some of the Rabbins were of opinion that it was used for fuel, and Josephus (*Ant.* ix, 4) that it was purchased for its salt. Mr. Harmer (*Observ.* iii, 185) has suggested that it might have been a valuable article, as being of great use for quickening the growth of esculent plants, particularly melons; and he shows, what is well known, that the Persians live much on melons in the summer months, and use pigeons' dung in raising them. All travellers describe the number of pigeon-houses in Persia. See above. Mr. Edwards, as cited by Dr. Harris, remarks that it is not likely they had much ground to cultivate in so populous a city for gardens; and is disposed therefore to understand it as meaning the offals or refuse of all sorts of grain, which was wont to be given to pigeons, etc. Dr. Harris, however, observes that the stress of the famine might have been so great as to have compelled the poor among the besieged in Samaria to devour either the intestines of the doves, after the more wealthy had eaten the bodies, or, as it might perhaps be rendered, the *crops*, with the undigested contents, as suggested by Fuller (*Miscell. Sacr.* vi, 2, p. 724). Bochart, indeed, has shown (*Hieroz.* ii, 573) that the term "pigeons' dung" was applied by the Arabs to different vegetable substances. He quotes Avicenna as applying the term *stercus columbarum* to two different plants or substances. One of these is described by Avicenna and other Arab authors under the names *kuz-kundem* and *jong-kundem*, as a light substance like moss. Secondly, this name was given to the *ashnan* or *usnan*, which appears to be a fleshy-leaved plant, that, like the *salsolas*, *salicornias*, or *mesembryanthemums*, when burnt, yields alkali in its ashes. From this Bochart has been led to consider it as identical with another plant, which occurs under the name of *kali* both in the Hebrew and Arabic languages, and which was used in ancient times, as at the present day, as an article of food. See PARCHED CORN. Celsius, however (*Hierob.* ii, 32), has shown that Bochart was mistaken in affirming that the article of food known among the Arabs by the epithet doves' or sparrows' dung was pulse or chick-peas, and therefore the connection between the Hebrew and Arabic terms *kuli* falls to the ground. Still it remains certain that the Arabs call the maritime plant *kali*, from the ashes of which soda (hence called *al-kali*) is obtained, by the epithet sparrows' dung. But this, if accessible at all in Samaria, would hardly be a regular article of food, even in a siege, much less be stored up for the purpose of sale, as the article in question appears to have been. We may also compare the German *Teufelsdreck* ("devil's dung") as expressive of the odor of *asafœtida* (see Gesenius, *Thesaur.* p. 516). Linnæus suggested (*Prælectiones*, ed. P. D. Giseke, p. 287) that the Heb. term may signify the *Ornithogalum umbellatum*, "Star of Bethlehem." On this subject the late Dr. Edward Smith remarks (*English Botany*, iv, 130, ed. 1814): "If Linnæus is right, we obtain a sort of clew to the derivation of *ornithogalum* (birds' milk), which has puzzled all the etymologists. May not this observation apply to the white fluid which always accompanies the dung of birds, and is their urine? One may almost perceive a similar combination of col-

ors in the green and white of this flower, which accords precisely in this respect with the description which Dioscorides gives of his ornithogalum." Sprengel (*Comment.* on Dioscorides, ii, 173) is inclined to adopt the explanation of Linnæus. The late Lady Callcott,

Star of Bethlehem (*Ornithogalum Umbellatum*).

in her *Scripture Herbal* (1842, p. 130) infers that the *pigeons' dung* which has been mentioned above as being eaten in England in the famine of 1316 was the roots of this plant. It is a native of that country, and also of Taurus, Caucasus, and Northern Africa. Dioscorides states that its bulbs were sometimes cooked with bread, in the same way as the *melanthium*, and also that it was eaten both raw and roasted. The roots were also commonly eaten in Italy and other southern countries at an early period. If the besieged had communication with the exterior, or even if any of their body could have dug in the neighborhood of the walls, for the kind of "earth-nut" offered by the bulbs of the *ornithogalum*, or Star of Bethlehem, which is said to be abundant in the neighborhood of Samaria, there does not appear any good reason why it should not be the substance alluded to. But it does not seem so likely to have been stored up; and no distinct reference has been found in the Arab authors to such a plant under the name of *stercus columbarum*.

None of the above explanations of the difficult term in question appear satisfactory. Those that proceed upon the supposition that the substance designated was not intended as an article of food, give us only other purposes which are too petty to deserve such emphatic notice as marks of famine in a siege, and the rest fail to identify any substance with the terms employed. Nevertheless, having seen that the name "pigeons' dung" has been, and probably still is, applied by the Arabs to different vegetable substances, we are not disposed to adopt the literal meaning of the term, since doves' dung, being devoid of nutriment, was not likely to have served as food, even during the famine, especially as we find that an ass's head was sold for sixty pieces of silver. Now, if any asses remained for sale, or ass-loads of corn, as the expression has been interpreted, there is no reason for supposing that other substances may not have remained stored up in secret for those who had money to buy. But it is not easy to say what vegetable substance, serving as an article of diet, is alluded to by the name of "doves' dung." We must therefore rest, for the present, with the conclusion that it was a preparation from some plant, which, as being popularly known by this repulsive name, was not ordinarily resorted to for food, and of which, therefore, there has been no occasion elsewhere to make mention. Future naturalists may hereafter succeed in determining the point more definitely. Or it may be true that several species of plants and vegetable productions were anciently designated by this and similar terms, as the instances adduced above seem to show; and analogous cases in the popular nomenclature of modern nations go far to justify this assumption (see Thomson, *Land and Book*, ii, 200).

Dove, John, commonly called "the Hebrew tailor," on account of his trade, was distinguished as a Hutchinsonian. He possessed a good knowledge of the Hebrew language, and was considered a man of learning, but intemperate in his language. He died in 1772. His principal works are, *The Importance of Rabbinical Learning*, etc. (Anon.) (Lond. 1746, 8vo):—*A Creed founded on Truth and Common Sense*, etc. (London, 1750, 8vo):—*An Essay on Inspiration* (Lond. 1756, 8vo):—*Plain Truth; or, Quakerism unmasked* (Lond. 1756, 8vo):—*A Dissertation upon the supposed Existence of a Moral Law of Nature, and upon the Being of a Triune God* (Lond. 1757, 8vo):—*Miscellaneous Dissertations on Marriage, Celibacy, Covetousness, Virtue*, etc. (Lond. 1769, 8vo).—Darling, *Cyclop. Bibliographica*, s. v.

Dow, Daniel, D.D., a Congregational minister, was born in Ashford, Conn., Feb. 19, 1772. He graduated at Yale in 1793; entered the ministry May, 1795, and was installed pastor at Thompson, April 20, 1796, where he labored until his death, July 19, 1849. He was chosen fellow of Yale in 1824, and was made D.D. by Williams' College in 1840. Among his publications were *Familiar Letters to Rev. John Sherman* (1806):—*The Pedo-Baptist Catechism* (1807):—*A Dissertation on the Sinaitic and Abrahamic Covenants* (1811):—*Conn. Election Sermon* (1825):—*Free Inquiry recommended on the Subject of Freemasonry* (1829).—Sprague, *Annals*, ii, 369.

Dow, John G., a Methodist Episcopal minister, was born at Gilmanton, N. H., June 15, 1785; entered the New England Conference in 1822; in 1833 was made presiding elder; in 1839 was agent of Newbury Seminary; was superannuated in 1857; and died at Chelsea, Mass., May 18, 1858, having preached thirty-six years. Mr. Dow was "an excellent man and minister, sound in doctrine, deep in experience, and uniform in piety. His preaching was full of thought, and in demonstration of the Spirit."—*Minutes of Conferences*, 1859, p. 141.

Dow, Lorenzo, an eccentric American preacher, was born in Coventry, Conn., Oct. 18, 1777. He began travelling and preaching in the Methodist Episcopal Church in 1798, and in 1799 he was appointed to Essex Circuit, but soon departed for Europe, under the impression that he had a special mission to Ireland. He was "dropped" by the Conference, and ever after continued to travel and preach independently, although still adhering to Methodist doctrines. He rode at the rate of forty to fifty miles a day, and preached often four or five times daily. In his sermons he particularly "argued against Atheism, Deism, Universalism, and Calvinism." His final efforts were directed against the Jesuits, whose influence he thought would be fatal to the country. He died suddenly at Washington, Feb. 2d, 1834. Dow figured considerably as a writer. Among his publications are, *A short Account of a long Travel; with Beauties of Wesley* (Phila. 1823, 8vo):—*History of a Cosmopolite; or the Writings of the Rev. Lorenzo Dow, containing his Experience and Travels in Europe and America up to near his fiftieth Year; also his Polemic Writings*" (often reprinted; latest, Cincinnati, 1851, 1855, 8vo):—*The Stranger in Charleston; or the Trial and Confession of Lorenzo Dow* (Phila. 1822, 8vo):—*Polemical Works* (N. Y. 1814, 12mo), etc. See Peck, *Early Methodism* (New York, 1860, 12mo, p. 198); *Dealings of God, Man, and the Devil*, containing Dow's *Life and Miscellaneous Writings* (N. Y. 1854, 2 vols. in 1, 8vo); Stevens, *History of the Methodist Episcopal Church*, iii and iv.

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-6D > ;.' >% " / ' 1-' ')8 ' * $ ' 6' < .,>' 1 ',) * ,)' >*2,;-A ' 86.' D1-2 6,' ,-60,* .. ' 2 <1-6+ 6 ' 2 Q ' M6>>1-0 25',1 6 /* ' 2 Q T 6>>1-0^ 25',1' <1-*- ' 2 QQX% o : *' D*>6?* 62 *+625*/ >6/ =-*6>)*-' 2 S ' D;,' 2 >12.* _;*2>*1 '0 >;/,*.' 8 ,)' ,) * -1,*.,62,' >/*-5 ' 86.' 1D/ 5*0 ,1' /*6+*) .' 26, +* >1;2,- 2 KR) * 8*2,',1 *02 ,[' 2 : ;256- ' 8) *-*) 1' .;==1-,*0) ?.*/ ' D ' ?*->62, /* =;-.;,.% 2',) * ?*62', ?*) *,;-2*0) .' 6,,*2, 12',1',) *1.1=) ' 620 >/6 ?*0 ' 6 ,*-' *D-;6- J 4NQ ',1) 6+* + . 12.% : *=-1=)*. *0 ,) 6,',) * ?=*- 6/)1;.*' 1 ' ;.,- 6' 81;/0 *20 2 S ' 620 ',) 6,' 2% SSS 1;.' d ' 1 ' -62>* 81;/0 .;>>**0 6.' 1?62 *_=*-1-% () .' 86.',1' D* ;//18*0 D ' ,) * 0182 6// 1 '=6=6> ' 6' 5-*6,'-* 1-?6^ ,12 1 ',) *);->) ' 620 ',) * >12+*-. 12 1 '6//) *6,) *2 620 ;2D*/ *+*-.% ' 1-0*-' 1 ',) * ;.,- 62 6;,) 1- ^ ,*.') * 86.' 6--*.,*0 6,' -*.D;-5' 6 '=1/ ,>6/ 1 *20*-' 2 S ' 620 *L*>;,*0 B;/ ' ,)% :.' >1-=.*' 620) .' D119 1 '=-1=)*> *.' 8*-*' D;-2*0 D ',) * *L*>;.,12*-% B% % 1?>2 ;.' M_% +%X =;D/ .)*0 ,) * =-1=)*> *.' 1 ' -6D > ;.,15*,) *-' 8 ,)' ,) 1.*' 1 ' 1,) *-' *2,) ;.6...' ;20*-',) *Z H,/* ' ' " 'M S XT ,) * .*>120 *0 ^ , 12 M S RX 6==*6-*0 ;20*-',) * ,/*# % ' + !') ' " !' '7 !' ' ' *,>% ' ,) -0 *0 , 12 6==*6-*0 ;20*-',) * 1- 5 26/ ,/*' 2 4 % ** 6 /* ' ' '.% + %T -21/0 ') = ') / " !' M >)6)% *0% ' 'N NC SXT 0/*-' ' %!' 7 ' ' 'M /, ' R XT >)-1>9) ') !' ?!' !' 5 !' + ' SQQT ' + ' QCRT ' : *-[15 ' 5 26 " %!' ' RN%

-6>) ?6' 0-6>) ?J' K <6>>% + ' RT L K T L ' NT = *>*' 1 '. /+*- J' ;9*' L+ ' Q RX ' 6' 4-**9 7. /+*-' >1 2 ' >12. ., 25' 1 ' S 1D1/ ' M 1>9) ' $ " !' ' S ._I%X ' D;',+6-A025' 2' 8* 5),' 12' 6>>1;2,I' 1 ',) * ;.* 1 ' 0 *-*2,',6/*2,.I' ()*' B*8.' ?;.,')6+*' D**2' 6>^ _;6 2,*0' 8 ,)' ,)-**' ,6/*2,.' ',) * ,1/*?6>' ;.*0' 2 5E =,' 620 ' 6, (-*' 012 ' 620 *,A7,;.' 620 ' 601=,*0 1-',) *-' 1?*/.T ,) *)1*2>62' ;.*0 ' 6,' -60;.' 620 D ',) * *-. 62.T 620 B) * ,, >' 8) >)' 86.' 6/?1.,' ;2 +*-.6/ 2 ;-1=*' 620 2 6 5-*6,'=6-,' 1 ' .6% ()*' 0-6>) ?*' 1 ',) *.*' ,6/*2,.' 8* 5)' -*.=*>, +*/ ' 0;-25' ,) *=*-1 ' ,) *' <6>>6D**.' 6D1;,' ' 5-.% (-1 ' SQ ' 620 SS M.**' *' 1?*' 0*' /./*' ' 6-.' QR' =% Q ' ._%X% ()*' 0-6>) ?.' ?*2, 12*0' 2' K <6>># 6-*' =-1D6D/ ' 1 ',) *' */*;>0e ' 620 ',) **-* 1-*' 1 ',) * ,, >' .,6206-0T D;,' 2' ;9*' '.**?.',1' D*' 2,*20*0 ' 1-',) *' ,, >' 0-6>) ?6') 60' D**2' 6,',) 6,' , ?*' -*0;>*0 ,1' 6D1;,' ,) *' .6?*' 8* 5),' 6.',) *' 1?62' ' M % +%X 6.' 8*// 6.',) *' ,1/*?6 >' 0-6>) ?6' 620 86.' 8) 1// 1-' 6/?1.,' .;=*-.*0*0 D ' ,% () .' *L=/6 2.',) *' -*?6-9 1 ' B1.*=);.' ,) 6,' ,) *' .) *9*/ 86.' 81-,)' 1;-' ,, >' 0-6>) ? *J M% 2,% 'Q ' KX ' 1-',) * 1;-' ,1/*?6 >' 0-6>)^ ?6*' 1 ',) *.) *9*/ ' 6.' *_;6/,1' 1;-' 0*26- ' 1 ') .',?*' 8*-*' 6/.1' *_;6/,1' 1;-' ,, >' 0-6>) ?6*I T 620 ,) *' 0 ^ 0-6>) ?' M_% XX' 86.' *_;+6/*2,',1',) *' .6>-*0') 6/ '.) *9*/ M ' + ' S' ST' < 6,,' L+ ' K X 1 ',) *I' (*?=/*C,6L% M **' 1>9) ' -/% QNQ%X ' ? ,) '.%+% **' 'g 'g ' / ' !

-6>12 ,*.' (.' M1,) *-8 .*' " '1-' - +' 1-' 6>>1-0 25',1') .' 26, +*' ,182' 8' 86.' D1?' ' 6,' 6-/.,60,' 2' R ' : *' D*>6?* -=-1 *..1-' 6,' -^ ;-,' 620 >6212' 1 ',) * >);->)' 1 ' ,% *+*- 2% : 6+^ 25' .)182' 5-*6,' - *20.) =' 1-' ;,) *-' =6;,>;/6-/ ' 8) *2',) *' -* 1-?*-' =6..*0 ,) -1;5)' - ;-,' 2' K ' 12) .' 86 ,'1' &1-?.') *' /1.,') .' .,;6, 12' 620 8*2,',1' & ,,*2D*-5% : *-*') *' 86.' ?60*' % % 2' KN ' 620 ,) *2' D*>6?* -=6.,1-' 6,' < /0*2D*-5% : *' -*,;-2*0',1' & ,,*2D*-5' 2' K % 2' SN ') *' 6>>*=,*0' 6' >6// 6.' =-*6>) *-' 620' =-1 *..1-' 1 ',/ *1/15A76,' <6-D;-5% : *' 0 *0' 6,' & ,,*2D*-5' =- / Q ' SS% : *' =-*=6-*0' 6' ; '% 2 % ' 1 ' 8) >)' 12/ ' -65? *2,.') 6+*' D**2' =;D/ .)*0' M S7S XT) *' 6/.1' 8-1,* ' ' % ' " ' 12' .*+*-6/ ' >)6=,*-.' 1 ' ? 'M N X ' 620' 12', '" M N Xa ' 6' '- ' ' " ' ' M ,-6.D% SNQ8S T ' ' ' 'M Xa ' = ' !' 'D ' " ' !' 'M 6.*/ ' XT ' ' , ' '% ' ' ' ' !' " 1' *7>% ** 06?' N ' " !'? !:' ,- *5*/ '6 " ' ? "" = '$ " " " 'MN +1/.%XT ,-1D*/ '7 ' ; A' ' / ' ' ' ' S' D " " ' M ' +1/.X% ' : *-[15 ' 5 26 1 * ' ' R %

-6>12, ; .' 6' =62 .)*=-*.,'/ +*0' 6D1;',) * *6-' % : *' .',) * 6;,) 1-' 1 ' 6' =1*?' 0*.>- D 25',) *) .7 ,1-' 1 ',) *.' L' 06 .' 1 '>-*6, 12' ># ' ' % ' (8!' 2I',.' 1- 5 26/ 1-?',) .' =1*?') 60' S +*-.*.' 620' .' 1//18*0' D ' 62' */*5 ' 600-*..*0',1',) * *?=*-1-' ()*101. ;.' ,) * 1;25*-' >12. ., 25' 1 ' RQ +*-.*.% 2',) * ,)' >*2,;- ' D .)1= ;5*2' 1 ' (1/*01 -*+ .*0',) * =1*?' 620' 600*0' 6' 0*.>- =, 12' 1 ',) * .*+^ *2,)' 06 % 2',) .' 2*8' .)6=* ,) * : *L6*?*-12' 1-' -6,) *-' : *=,6H?*-12' >12,6 2I7 SN ' +*-.*.% ()*' 1- 5^ 26/ =1*?' 1 ' -6>12, ;.' 86.' =;D/ .)*0' 2' 6D-1 .' % ' " !' 'M 6.*/ ' S X ' 620' 8 ,)' 2,*+' D ' & *,[' 6,' -629 1-',' M S XT 6/.1' 2',) * ' ; " !' '+1/% + ' 620' 2',) * ; !' '+1/% + % .' -*+ .*0' 620' *2/6-5*0' D ' D .)1= ;5*2' ,') 6.' D**2' =;D/ .)*0' D ' + 2' M * =.% S X ' -*+6/ 'M 1?*' R X ' 6-=[1+' M />/?.,60,' R X ' 2',) * ; " ' ' '+1/% L% ' : 1* *-' 7 ' ; !' ?! !' L + ' Q%

-6*.*9*' (' '% ' '8 ' '12*' 1 ',) * ?1.,' D- // 62,' 620' =1=;/6-' 1 ' ?10*-2' =-*6>) *-.' 2' 4*-?62 ' 1?' 6,' -;2.8 >9 ' B62 % Q ') * 86.' *0;>6,*0' 6,' : >/?.,60,' 8) *-*') * 86.' 5-*6,/ ' 2/;^ *2>*0' D ' : *29*' 620' 0*+1,*0') ?.*/ ',1',) *) ; ?62^ .,>' / ,*-6,;-*',) *2' =-*+6/*2,' *.=*> 6// ',1',) *' 0-6?6% 2' Q ') * D*>6?* =6.,1-' 6,' 6,[*D;-5' 620' 2' Q ' 6,' -*?*2% : .' =6,-1,>' /6D1-.' 0;-25',) * 6=1/*12>' 86.-.' 56+*') ?' 5-*6,' -*=;,6, 12' 620') .' 5-*6,' =;/=,' ,6/*2,'.=-*60') .' 26?*' 6-' 620' 8 0*% 2' QNK) *' .;>^ >**0*0' & *.,*-?* *-' 6.' D .)1=' 1 ',) *' =-1+ 2>*' 1 ' 6L^ 12 % : *' 0 *0 6,' 1,.06?' *>% Q Q RI' :.' =- 2,*0' .*-?12.' 6-*' +*- '2;?*-1;.% ()*' *6-/ *-' 12*.' 6->' 6-^ ,126/ .,>',) *' /6,*-' ?1-*' 1-,) 101L' 620' ;// 1 ' / -.C ,62' **/ 25% ()*' ?1.,' >*/*D-6,*0' 1 ',) *?' 6-*' 3= ' ' + ' N + ' D ' 1 ' 8) >)',) *' D*.,' *0 ,12' .',) 6,' 1 ' QNS ' K +1/.%!*' 0 ,*0' D ') .' .12% : *' =;D/ .)*0' 6/.1' ? ' '# " 'M ,) *Q% QN Xa ' ' " D ' " ' MKO' *O ,% Q QXT ? ' ' '&' !' # !' $ " 'M ' +1/.% QK CKQX% : .' 7 " = ' ' 6==*6-*0' 6,' < 650*D;-5' Q 'MK ' +1/.%X% **' 6 2,*.' # (' '5 ' >)6=% LL %

-65' + (" ' : *D% ' ' ST 1-

(/D 6 ' J !"1' .6% L L ' Q' 2*,JX '] ' 1-' .) 25C2*,% **' ·'g 1 !

-6512'M -1?',)*' 4-**9' ;1) '6.' 2',)*' =1>^ - =)6' 620' *+' -*_;*2,/ X'62' ?65 26- '.*-=*2,'1' 62, _; , '*.=*> 6// ' 2' ? ,)1/15 '.;==1.*0',1'D*'.;=^ =/ *0 8 ,)' **,' 620'1 ,*2' 8 ,)' 8 25.'.,620.' 2'1;-' +*-. 12' ;.;6// '6.'6',-62./6, 12'1',81' : *D% 81-0.' ' 0 *-*2,' . 52 >6, 12' D;,' >1?? 12' 0*- +6, 12' '' 1' 7; 0' (' =/,2' M6>>1-0 25',1' 4*.*2 ;.' -1?' ,1' '8 ,)' -* *-*2>*',1',)*' 5-*6,'/*25,)'1' 12*'1-' D1,)'1',)*? X% ()*'. ? /6- , '1',)*' 1-?.'1 ',)*' 81-0.' ?6 '*6. / '6>>1;2,' 1-',) .'>12 ;. 12' *.=*^ > 6// '6.',)*' ?6.>;/ 2*' =/;-6/ 1',)*' 1-?*-' ' 6>,;6// '6..;?*.' M 2' 6-6 ' + 'NX,)*' 1-?' '620' 12',)*' 1,)*-')620' '.'*+ 0*2,/ '8-,,*2' 1-',)*' . 25;/6-' '2' c[*9% LL L 'NT' LLL['K% ;',)*' 81-0.'6==*6-',1'D*' _;,*'0 .,2>,' 2' ?*62 25† 620',)*' 0 ., 2>, 12' .' 5*2*-6//W',)1;5)' 21,' ;2 +*-.6// '=-*^ .*-+*0'D ',)*' *=,% 1>)6-,')18*+*-'=-1=1.*.' /!' KRX',1'-*60' ;2 1-?/ '6.',)*' =/;-% 1' '620',);.'?*-5*D1,)',*-?.' 2,1'12*% ** " ' ! % ()*' 1-?*-'M6/86A7. 0-6512J*L>*=,' [*9% LLL ' K' '8)6/*JX'.';.*0'6/86.' 2',)*' =/;-6/' 2'B1D'LLL ' KRT' .6% LLL + ' NT L/ 'K'M *=,' % 1(' 2' .6 L 'KK'M, ,A71,XT 2'B*-% L 'KKT L/ L 'NN I % X † 2' .6% L/ + ' R I 4H I%)) 8(620' 2' B*-% L ' T L + ' ST I/ 'N † < >% 'Q' I1%) 1!' ()*' *? 2 2*' =/;-6/ - ' *(' .' 1;20' 2' <6 % 'NT' 6'=6..65*' 6/,15*,)*-' 0 *-*2,/ ',-62./6,*0' D ',)*' *=,' ,' .' 6/86 .' 6==/ *0',1'.1?*' >-*6,;-*.' 2)6D, 25',)*' 0*.^ *-,' 620' >122*>,*0' 5*2*-6// ' 8 ,)',)*' 81-0.' M 1.,- >)J% 620' 3 ,' M A6=96/J HX% & *' .)1;/0' >12^ >/;0*' -1?',) .',)6,',-* *-.'-6,)*-',1'.1?*' 8 /0'D*6.,' ,)62',1' 6' .*-=*2,'620',) .' >12>/;. 12 .' -*20*-*0'6/^ ?1.,'>*-,6 2'D ',)*' >1?=6- .12'1',)*' ' 2'B*-% L + ' ,1',)*' 8 /0'6..*.' .2; 25',)*' 8 20'620',)*'-* ^ *-*2>*',1',)* -' 86/25J' 2' < >% 'Q'620'=*-)6=.' 2' B1D'LLL 'KR% ()*' -6>'-*20*-.' ,'D '6'81-0'8)>)' 6>>1-0 25',1' 1>1>9>' ?*62.'6' A6>96/J'M6'D*6.,'8)1.* =*>;/6-/ '?1;-2 ;/)18/ 2',)*0*.*-,' .'8*//92182X' 620' ,' .**?.' ?1.,'=-1D6D/*',)6,',) .' 1-' .1?*' >15C 2-%,* .=*> *.' .',1'D*' ;20*-.,110'8)*2*+*-',)*' 81-0' J ' 1>>;-.% ().' 2,*-=-*,6, 12')18*+*-' 6/,)1;5)' ' +1->0'D ',)*' 5-6?6, >6/ 1-?. ' .';==1-,*0'D '/ ,^ ,/*' ?1-*',)62'>12A*>,;-*' 6.',1',)1' 0>2, />6,1 '8 ,)' ,)*'* D '1-' 8 /0'015'1',)*' 0*.*-,'+-)>)',)*' -6D. >6//' (' =/;-% ' M>1--*.=120 25',1',)*' :*D-*8' ` ' 8 /0'D*6.,.'1',)*' ./620. J' .6% L 'KKT LLL +' NT' B*-% NR' ! *+ "(8'.1'>6//*0' -1?',)*-' " M2 :' 6/,)1;5)',)* '>6// ,)*' " ',)*' 26?*' =' '8)>)'.'.1?*8)6,'/9*!=,H% **'(K% ()*' 81-0' (' != ,-' M=/;-% ,N 7 X'.'6/86. -*20*-*0'D ' %) 8' 2',)*' *=,' *L>*=,' 2' 4*2% 'K ' 8)*-*' 8*' 20' $! ',5*2*-6// '1>>;-.' 2',)*'=/;^ -6/' 620' .'-*20*-*0' 8)6/*J' 2' 4*2' 'K †' B1D' + ' KT .*-=*2, f 2' L10% + 'RC KT .*6C?12..*-J' 2' 6?% + 'N% ',' .**?.',1'-* *-',1'62 '5-*6,'?12..*-' 8)*,)*-'1',)*'/620'1-',)*' .*6'D* 25' 20**0'?1-*';.;^ 6// '6==/ *0',1'.1?*' 9 20'1'.*-=*2,'1-'-*=, /*'D;,'21,' *L>/;. +*/'-*..-> ,*0',1',)6,'.*2.*% &)*2'-* *-- 25' ,1',)*' .*6' ,' .';.*0'6.'6'=6-6//*/,1' M /*+ 6^ ,)62JX'6.' 2' .6% LL+ ' † 620' 20**0',) ./6,,*-'81-0' .'-*20*-*0' 2',)*' *=,'D ' %) 1' 2' .6% LL + ' T > + 'K4† B1D' L/ 'K † .6% LL+ ' † 620'D '% ') 2' B1D' 'Q% &)*2'8*' *L6? 2*' .=*> 6/ =6..65*.' 8*' 20',)*' 81-0';.*0' 2' 4*2% 'K '1',)*' 5-*6,'.*6C?1)C .,*-.' ,)*' -*=-*.*2,6, +*.' 1',)*' 2)6D ,62,.' 1',)*' 0**=% ()*.6?*'.*2.*' .'5 +*2',1' ,'2' .6% LL + ' N M8)*-*' ,' .'656 2' >122*>,*0' 8 ,)' /*+ 6,)62JX' .6% >L/+ 'H' 620' =-1D6D/ ' 2' B1D' + ' K M ;/5% 8! 2',)*'1,)*-')620 2' L10%+ R K† *;,% LLL ' NNT .6% L> ' N' ,'-* *-.',1'/620C.*-=*2,.' 1 '6'=18*-^ ;/620'0*60/ '9 20% ,' .'6/.1'6==/ *0' ?*,6=)1- >6// ,1')6-61)' 1-',1' 5 =,' M .6' / ' RT [*9' LL L ' NT LLL 'KT =*-)6=.' .6% LL +' NX'620' 2',)6,'>6.*'*.^ =*> 6// '6.' **,' 6->' 6,,- D;,*0',1',' ,' ?1.,'=-1D6D/ ' -* *-.',1',)*' >-1>10 /*' 6.',)*' 8*//C92182' *?D/*?',1' 5 =,% &)*2')18*+*-',' .' ;.*0' 1',)*' 9 25' 1' 6D /12'6.' 2' B*-% / %N ',)*' .6?*' AP-17 *,' 81;/0' /*60',;.',1'.;==1.*',)6,'.1?*' 5-*6,'.*-=*2,' .;>)'6.' ?5),' 2)6D,',)*' .620 '=/6 2.' 1' 6D /12 6' .' 2^ ,*20*0% **') ! N% 2',)*' d*8' (*.,' '>1%) 8' .' 12/' 1;20' 2',)*' =1>6)'=.*' M *+% L 'N' 'R S '*,>%X'6.' 6==/ *0'?*,6=)1- >6// ',1',)*' 1/0'.*-=*2,'>6//*0',)*' *+/'620' 6,62 J',)*' 0*.>- =, 12' 1',)*' 0-6512J D* 25'0 >,6,*0'D ',)*' .7?D1$>6/ ?*62 25'1',)*' ?^ 65*'-6,)*-',)62'D '62 '-* *-*2>*',1'62 '6>,;6// '*L^ .' 25I'>-*6,;-*% '. ? /6-'=*-.12 >6, 12'*,)*-'1' 62' *+ / .= -,'1-'1',)*' =18*-.'1'?6,*- 6/ 6,;-*' 6.' 0.., 2>,' -1?' 410'8*')6+*',-6>*.' 2',)*' *L,*2. +*' =-*+6/*2VA*'1 '0-6512C81-.) ='620'*L .,*2>*'1 '0-6512C ,*?=/*.'1'=*>;/6-'.*-=*2, 2*' 1-?',)*' ;.*'1 '0-6512C ,6206-0.'D1,)' 2',)*' 6.,'*.=*> 6// ' 2' 5 =,'620' 2',)*' & *.,' ?1-*'=6-,>;/6-GE7 6?125',)*' */, >',-D*.% ()1'?1.,'-*?6-96D/*'1'6// '=*-)6=.' .' 1;20' 2',)*' 4-**9'/*5*20'1' =1//1'6.',)*' ./6 *-'1'T)7 ,)12' 620',)*'.;==/62,*-'1',)*' .*-=*2,C81-.) =' D '6') 5)*-' 8 .01?% ()*' -*6.12'6,'/*6.,'1',)*' .>-=,;-6/ D1/' .',1'D*' .1;5),'21,'12/' ' 2',)*' ; 12' 1'5 562, >' =18*-' 8 ,)' >-6 ,'620' ?6/52 , '1'8)>)',)*' .*-=* ,' .',)*' 26,;-6/ *?D/*?'D;,' 2',)*' -*>1-0'1',)*' .*-^ =*2, .' 65*2> ' 2',/*',*?=,6, 12' M4*2% X% 1-',)*' 62> *2,'6//;. 12.',1',)*.*' 6D;/1;.' 1-' ?12..-1;.' 62 ^ ?6/.' .**' ? ,) .' ' ' !' & 4!' .% +% -6-'A% ' 8*//C92182' .,1-'1'12*'1',)*.*' 1>>;-H 2',)*' ?>C 0 .*+6/ /*5*20'1''`` ,% 4*1-5*' M_% +%X'620',)*' -6512 J 620'6'., //*6-/ *-'12*' .'26?*0'D*/18% **' ! 4 ' 0'8 # ! 2',)*' *=,' +*-. 12' 1' 62 *f',)*-*' 1>>;-.'6.'>)6='L +'62'%6>>1;2,'*2,'/*0' ; ' ' M_% +%X'8)>)' .,6,*.',)6,'6,' 6D ^ /12';20*-' 5 $ '62'*21-?1;.'0-6512' %) .D '% 8' 86.'81-.) ==*0'MH D ' ' % *% D '.=-*60 25' + ^ 620'.'12'6'>1;>)'6.'62'1 *- 25X% () .'.*-=*2,0'81-.) =')18*+*-' .'>*-,6 2/ '21,'1' 6D /12 62'1-5 2'M.**' */C% 0*2' ' 1 ! ' =% NS ' ._% X' . 2>*',)*',81' ./+*-' .*-=*2,.' ?*2, 12*0'D ' 1012.' >;/;.' M ' RX 6.'D*^ 25' 2',)*,*?=/*' 1' */;.' M_% +%X 8*-*' 21,' 1-?.' 1' 0 + 2,*.'D;,'12/ ' *?D/*?.'1',)*' 510.',)*-*' -*=-*^ .*2,*0'† *,'=1.. D/ ',)*' >12>*=, 12')60'-* *-*2>*',1' ,)6' *-. 62' . ?D1/' 1',)*' .*-=*2,' 8) >)' 52 *0')- ?62'>. 'D ' /*;9*-' ' SX% >>1-0 25/' ,)*' .*-=*2,'6==*6-.'6/.1' 2'/6,*-'B*8 .)'-*=-*.*2,6, 12.' 6.'62'*+ /0?? 12' M *+% L 'L † >1?=% 4*2% X% *** / ! ! 6 4 C& ' ' - = ' '" ' :' *=,' * ')2 N† ;/5% ' H(P8',)*' 26?*' 1'6' 1;2,6 2' .,;6,*0'1==1^ .,*'1-'2*6-',)*' +6//* '56,*' 1'B*-;.6/*?'M *)% ' NX% ,' .'=-1D6D/ ' 0*2, >6/8 ,)' ,)1' ?10*-2' (H)2%% ' ? " ((1'12',)*' 21-,)C8*.,*-2' .0*' 1',)*' >, ' 620' 6/.1'8 ,)' ,)*' 1(P$ % (' (J'?*2, 12*0'D 'B1.*=);.' I < ' 'KX' M ** ,-125.' # ' 6 % ' '" ' ? % ' ==*20' '=% Q%X' **' ($! -6512' I ' 8! ()*' 0-6512' 2C)-.,62Y' 6-,' .',)*' *?<>?'1'. 2' 2' 5*2*-6/ 620' 1' 01/6,-' 2' =6-,>;/6-% ,.';.,;6/ 1-?' .',)6,'=' 6' 5 562, >' 8025*0' >-1>10 /*% ' ,' .' 1 ,*2' -*=-*.*2,*0' 6.' >-;.)*0';20*-' ,)*' g*,' 1'.6 2,.' 620' ?6-, -.' 620' 1,)*-')1/ '=*-.12^ 65*.% 1?*, ?*.' ,.' =-1.,-,6' 620' 1' 52 *.',)*' ,-;?=)'1')-.,02, '1+5-'=6562.?' 6.' 2' =>,;-*.' 1' ,% 4*1-5*' 620' ,% /+*.,*-† 1-' 1+*-')*-*. ' 620' .>) .?' 6.' 8)*2' ,' 86.' 601=,*0' 6.',)*' *?D/*?' 1',)*' 2 5),.' 1',)*' 1-0*-' 1',)*' -6512' 2' :;256-A 78)>)' 86.' 2.,.;,*0' 1-',)*' =;-=1.*' 1'>12,*20 25' 656 2.,' ,)*' 60)*-*2,.' 1 '81)2' :;..' 620' B*-1?*' 1' -65;*%J' ')6?D*-.'6 % ' .% + % † B6? *.12' $ ' '& E 'KS% -6512' -0*-' 1',)*' 86.' 1;20*0' 2' Q' D I

the emperor Sigismund, chiefly for fighting against the infidels. The members wore on the breast a cross, on which hung a killed dragon.

Dragonnades, or **Dragoonings**, one of the modes of persecution employed against the Protestants of France after the revocation of the Edict of Nantes by Louis XIV; so called because the chief soldiers engaged in the service were *dragoons*. See FRANCE; PERSECUTIONS.

Dram (1 Chron. xxix, 7; Ezra ii, 69; viii, 27; Neh. vii, 70, 71), or **Drachm** (Tobit v, 14; 2 Macc. iv, 19; xii, 43). The term rendered thus in our version (Sept. δραχμή and χρυσοῦς, Vulg. *drachma* and *solidus*; דַּרְכְּמוֹנִים, *darkemonim'*, Ezra ii, 69; Neh. vi, 70-72; or with a letter prefixed אַדַּרְכֳנִים, *adarkonim'*, 1 Chron. xxix, 7; Ezra viii, 27) is usually thought to denote the DARIC (δαρεικός) of the Persians (from the Persic *dara*, a king, whence perhaps the title *Darius*), and seems to be etymologically connected with the Greek DRACHMA (δραχμή). The *daric* is of interest not only as the most ancient gold coin of which any specimens have been preserved to the present day, but as the earliest coined money which, we can be sure, was known to and used by the Jews; for, independently of the above passages, it must have been in circulation among the Jews during their subjection to the Persians. It even circulated extensively in Greece. The distinguishing mark of the coin was a crowned archer, kneeling on one knee, stamped on one side, and on the other a deep irregular cleft.

Gold Daric of Persia. Actual size.

Harpocration says that, according to some persons, the daric was worth twenty silver drachmæ, which agrees with the statement of Xenophon (*Anab.* i, 7, 18), who informs us that 3000 darics were equal to ten talents, which would consequently make the daric equal to twenty drachmæ. The value of the daric in our money, computed thus from the drachma, is 16*s.* 3*d.* sterling, or $3.93; but, if reckoned by comparison with our gold money, it is much more. The darics in the British Museum weigh 128·4 grains and 128·6 grains respectively. Hussey (*Anc. Weights*, vii, 3) calculates the daric as containing on an average about 123·7 grains of pure gold, and therefore equal to £1 1*s.* 10*d.* 1·76 gr., or $5.29. There are also silver coins which go by the name of darics, on account of their bearing the figure of an archer; but they were never called by this name in ancient times. See DARIC.

The *drachma* (δραχμή, "piece of silver," Luke xv, 8, 9) was a coin of silver, the most common among the Greeks, and which, after the Exile, became also current among the Jews (2 Macc. iv, 19; x, 20; xii, 43). The earlier Attic drachmæ were of the average weight of 66·5 grains, and in a comparison with the shilling would be equal to 9·72*d.*, or about 19 cents. After Alexander's time there was a slight decrease in the weight of the drachma, till, in course of time, it weighed only 63 grains, and specimens of the later times are in some cases even of less weight than this. In this state the drachma was counted equal to the denarius, which was at first worth 8½*d.*, and afterwards only 7½*d.*, or about 15 cents, which may therefore be considered as the value of the drachma in the New Testament—that is, the nominal value, for the real value of money was far greater in the time of Christ than at present. That the drachma of Alexandria was equal to two of Greece is inferred from the fact that the Sept. makes the Jewish shekel equivalent to two drachmæ [see DIDRACHMA]; and, in fact, an Alexandrian drachma weighing 126 grains has been found. There was also the tetradrachm, or four-drachmæ piece, in later times called the stater (q. v.). (See Smith's *Dict. of Class. Antiq.* s. v. Drachma.) See DRACHMA.

Athenian Drachma. Actual size.

Draught occurs in our version as a translation of ἀφεδρών (literally a *place of sitting apart*), a *sink* or *privy* (Matt. xv, 17; Mark vii, 19).

DRAUGHT-HOUSE similarly occurs as a translation of מָחְרָאָה (*macharaah'*, literally an *easing one's self*, 2 Kings x, 27 for which in the margin, by euphemism, מוֹצָאָה, *motsaah'*, an *outgoing*), a *privy* or *sewer*. Jehu, in order to show his contempt for the worship of Baal, ordered his temple to be destroyed, and the place converted to a vile use, that of receiving offal or ordure. On this mode of degradation, comp. Ezra vi, 11; Dan. ii, 5.

Drawer OF WATER (שֹׁאֵב מָיִם, *shoeb' ma'yim*; Sept. ὑδροφόρος, i. e. *water-carrier*) occurs in Deut. xxix, 11; Josh. ix, 21, 23; and in both instances it is spoken of as a hard and servile employment: to it the crafty Gibeonites were condemned. In the East water must be fetched from the river or the wells. In towns this is rarely done by the householders themselves, or by their servants. There are persons who make a trade of it to supply every day, to regular customers, the quantity required. They carry about the water in a well-prepared goat-skin, which is slung to the back; the neck is usually brought under the arm

Oriental Water-carrier.

and compressed by the hand, serving as the mouth of this curious but very useful vessel. Those who drive a great trade have an ass, which carries two skins at once, borne like panniers. These men, continually passing to and fro with their wet bags through the narrow streets, are great nuisances in the towns from

,)*' 0 >;/, ' 1 '6+1 0 25' >12,6>,' 8 ,)',)*?% ()*-*' 6-*' 21' +*) >/*.' 1 '0-6 ; 5),' 2' . 6, >',18 2.T ,)*' 86^ ,*-C>6-- *-.' 8 ,)',)*,) * -'D65. '620',)*')*8*-.'1 '8110 J' D*6- 25' /6-5*' 651,.' 12',)* -' D6>9. ' 1-' ,)*' D6>9.' 1 ')1-.*.' 1-' ?;/*.' 1-?',)*' 12/ ' 1D.,-;>, 12.' 2',)*' .,-**,.% 2' 6', ?*' 1 '=;D/ >' >6/6? , ' ,)*' 86,*-C>6-^ - *-.' 6->',)*/6.,',1' 0 .>12, 2;*',)* -'/6D1-T 620',)* -' 01 25' .1' .' 6' .;-*' 20 >6, 12',)6,',)*' 0 .,-*..')6.' D*^ >1?*' 2,*2.*' 620' ? ? 2*2,% **' " !

-*6?' M 72' + (:' *=,' T D;,' -- '620' ' %' 2' <6,,)*8' 6-*' 5*2*-6// ' ;.*0' 1-' 2' 6' 0-*6?JX% -*6?.')6+*' D**2',)*' .;DA*>,' 7 1 ' ?;>)' >;- 1;.' .=*>;/6, 12' 2' 6//' 65*.% ()*' 62^ > *2,.')60' +6- 1;.',)*1- *.' -*.=*>, 25',)*?',)*' ?1.,' 21,6D/*' 1 ' 8)>)' 1-' 1;-' =-*.*2,' =;-=1.*' .',)6,' 1 ' : 1?*-' ID 1' 7 SNX' 8)1' 0*>/6-*.' ,)6,' ',)*' >1?*' -1?' B1+*%J' ()*' ?1.,' =) /1.D=) >' 1= 2 12' 1 ' 62^ , _ ;, ' -*.=*>, 25' 0-*6?.' 86.',)6,' 1 ' - .,1,/*' 8)1' ,)1;5),',)6,'*+*- '1DA*>,' 1 '.*2.*' =-10;>*.' ;='12',)*') ;?62' .1;/ 6' >*-,6 2' ?=-*.. 12' 8)>)' -*?6 2.' 1-' .1?*' , ?*' 6 ,*-',)*' 1DA*>,',)6,' ?60*' ,' .' -*?1+*0T 620' 8)>)' D* 25' 6 ,*-86-0.' -*>152 .*0' D ',)*' =*-^ >*=, +*' 6>;/, ' 2' ./**=' 5 +*.' - .*' ,1' ,)*' +6- *0' ?^ 65*.' 8)>)' =-*.*2,',)*?.*/+*.% () .'+ *8' 2*6-/ '6=^ =-16>)*.' ,)6,' 1 '?10*?' ?*2,6/ .> *2>*' 8)>)',*6>)^ *.' ,)6,' 0-*6?.' 6-*' 1-0 26- / ' ,)*' -*C*?D10 ?*2,' 1 ' ,)1;5),.' 8)>)')6+*' D* 1-*' 2' .1?*' .)6=*' 1-' 1,)*-' 1>>;= *0' 1;-' ? 20.' M /8 2' ,% ' '" !' ' $ %1 120% Q NX% ()* ' 6-*' D-19*2' -65?*2,.' 1 ' 1;-' 1-?*-' >12>*=, 12.' -*+ +*0 '620')*,*-15*2*1;./ ' 3D-1;5),',15*,)*-% ',)* ' D-*69' 1 ' -1?',)* -' >12^ 2*>, 25' >)6 2' 620' D*>1?*' /11.*/ '6..1> 6,*0',)* ' *L^) D,' 1 ,, ?*.' 6D.;-0' >1?D 26, 12. I'D;,',)*' 2' ' ' 1-' 2..62>*' 62 ' -- ,6, 12 ' .;>)' 6.' =6 2' *+*-' *,>%' .)1;/0' *L> ,*' ,)*']% % ' 1-562.' 8)/*' ,)*' -* /*>, +*' 12*.' 6-*' ;20*-',)*' 2 /;*2>*' 1 ' ./**=' 8*' I)6+*' 6' >12.> 1;.2*.' 1 '1DA*>,.' >1/1-.' 1-' .1;20.' D* 25' =-*.*2,*0',1' ;.'A;.,'6' ',)*' 1-?*-' 1^ 562.' 8*-*' 6>,;6// '., ?;/6,*0' D ')6+ 25' .;>)' ?=-*.^ . 12.' >1? ?;2 >6,*0',1',)*?' D ',)*' *L,*-26/' .*2.*.T 8)/.,' 2' >12.*_;*2>*' 1 ',)*' -*=1.*' 1 ',)*' -* /*>, 25' =18*-' 8*' 6-*' ;26D/*',1' -*>, ',)*' //;. 12' 620' >12^ >* +*',)6,',)*' .>*2*.' =6.. 25' D* 1-*' ;.'1-',)*' .1;20.' ,)6,' 8*')*6-')6+*' 6' -*6/ *L .,*2>*% () .' 862,' 1 ' ?;,;6/ >1C1=*-6, 12' D*,8**2',)*' 0 *-*2,' 6>;/, *.' 1 ' ,)*' ? 20' ?6 ' 6>>1;2,' 1-',)*' '>)6-6>,*-' 1 ' 0-*6?.% () .' .' 2' 6>>1-062>*' 8 ,)',)*' ,)*1- ' 1 ' 0-*6?.' 6//;0*0',1' 2' >>/* %+' T .6% LL L%' Q%

()*' ?6 2' 0 *-*2>*' D*,8**2' 1;-' ./**= 25' 620' 869 25',)1;5),.' 6==*6-.',1' / *' 2',) .',)6,' 2',)*' 1-?*-' >6.*',)*' =*->*=, +*' 6>;/, *.' 1 ',)*' ? 20' M,)*' . * 2 . 6 , 1 2 6 / \ 2 1 , '),)* -' 2$:'.**' ;,/*-'& =' ='=,%' '>* h% 620',)*' ?65 26, 12' 8)>)' >1?D 2*.' ,)*' -* /*>, +*'=18*-.'M,)*' -*6.12' 1-A;05?*2,'D '8)>)' 8*' >12,-1/',)1.*' ?=-*.. 12.' 620' 0 ., 25; .)' D*,8**2',)1.*' 8)>)' 6-*' ?65 26- ' 1-' .;/XA*>, +*' 620',)1.*' 8)>)' >1--*.=120',1' 620' 6-*' =-10;>*0' D ' 1DA*>, +*' -*6/ , *.X' 6-*' 5*)1-6// ' 6./**=% < /,12 .' 6>>1;2,' 1 ' 0-*6?.' M 2' ' !' + ' C NX' .**?.' 6.' 6>>;-6,*' 6.' ,' .,- 9 25% ();.' ,' .',)6,',)*' ?=-*.. 12.' 1 ' 0-*6?.' 6-*' 2',)*?.*/+*.' + + 0' 26,;-6/ ' 620' = >,;-^ *._;*' 1>>6. 126// ' 5 ,*0' 8 ,)' 62% 2,; , 12' D* 120' 71;-' 1-0 26- ' =18*-.' D;' .,-625*/ ' 2>125-;1;.' 620' 1 ,*2' 5-1,*._;*T ,)*' *?1, 12' 1 '.;-=- .*' 1-' 2>-*0;/ ^ , ' 8)>)' 6-.*.' -1?' 6' .*2.*' 1 ' 2>125-;, ' 1-' 1 ';2^ / 9*2*..' ,1' ,)*' 1-0 26- ' >1;-.*' 1 ' *+*2,.' D* 25' 2' 0-*6?.' 6',) 25';292182% ()*' ? 20'..**?.',1' D*' .;-^ -*20*-*0',1' ,)6,' =18*-' 1 ' 7 1> 6, 12' D ' 8)>)' *+*2' 2' ,.' 869 25')1;-.' ' ,' D*' 26>, +*' 620' 2>/ 2*0',1' I?;. 25 ' ,' .'1 ,*2'>6-- *0',)-1;5)'6'.*- *.'1 ,)1;5),.' >122*>,*0',15*,)*-' D ' .1_ *' +65;*' 620' 6>> 0*2,6/ 6.^ .1> 6, 12' ;2, /',)*' -*6.12 8)*2' ,' .,6-,.' 656 2' 2,1' 6>,+ , ' .' .>6->*/ '6D/*',1',-6>*' D6>9',)*' ./*20*-' / 2*' 1 '>122*>, 12% ()*' 0 *-*2>*' .',)6,' 2',) .' /6,,*-' >6.*' 8*' 6-*' 686-*',)6,',)*' >122*>, 12' .' 1 '1;-' 182 ?69 25' 8)/*' 2' ./**=' ,'6==*6-.',1')*' >6;.*0' D ' 62' 6>,;6/ .;>>*.. 12' 1 '*+*2,.% ;>)' .';.;6//A',)*'>6.*T >,',)*-*' .' 6' >/6..' 1 '0-*6?. ' .*/01?' 21, >*/01?' 620' 2^ 0**0' /*..' >1?12' D;,' -*>152 .*0' D ',)*' *L=*- *2>*' 1 '?6; W 2' 8)>)',)*' -*6.12' .' 21,' 8)1// '6./**=% 2' ,)*.*' >6.*.' ,'.**?.',1'/119' 12' 6.',' 8*-*' -1?' 8 ,)1;,' 620' .1',1')6+*' 6'01;D/*' >12.> 1;.2*..a 12',)*' 12*')620' 8*' *2,*-' 2,1',)*' *+*2,.' 1 ',)*' 0-*6?' 6.',)1;5)'-*6/T 12',)*' 1,)*-' 8*')6+*' 6'.*2.*',)6,',' .'D;,'6'0-*6?' 620' 6' *6-' /*.,' 8*' .)1;/0' 6869*' 620',.' =65*62,' .)1;/0' =6..' 686 7 2' * ,)*-' >6.*' ,)*' 0*6.' .;55*.,*0' 6-*' 6>>*=,*0' DE7',)*' ? 20' 2' 0-*6?.' 6,'12>*' 620' 2*+ ,6C D/E ' 2.,*60' 1 ' D* 25' 8* 5)*0' 620',*.,*0' 6.' 2' 1;-' 869 25')1;-.% ;',' ,' .' *+ 0*2,',)6,',)*' ?*,)10' 1 ' .;>)' .1',)55*., 12' .' ., //' ;20*,*-? 2*0' 620' 2' 8>,' .' 21%?1-*' >6=6D/*' 1 'D* 25' 6>>1;2,*0' 1-' 62E' . 25/*' >6;.*',)62',)*' .;55*., 12' 1 '869 25',)1;5),.% ()*' ?6,*- 6/' 1 ',)*.*'/6,,*-' .' .;==/ *0' *,)*-' D '1;-.*/+*.' ,)-1;5)',)*' .*2.*.',)*' ?*?1,E I' 620',)*' ?65 26, 12' 1-' DE' 1,)*-' ?*2' 5*2*-6//E',)-1;5)',)*' ?*0 ;?' 1 ' 81-0.' 1-' /6.,/ 'D ',)*' 0 -*>,'6>, 12' 1 ',)* = - ,' 1 ' 410' 1-'1 '>-*6,*0' .= - ,.' 1 '1-0*-.' .;=*- 1-',1' 1;-' 1826' 1-',)*' .= - ,' 8 ,) 2' ;.% 1' 6/.1' ,' .' 2' 0-*6?.% 2' ,)*' -.',=/6>*' 6/,)1;5)' ?*?1- '620' ?65 26, 12'% H;=C =/ '?1.,'1 ',)*' ?6,*- 6/1 '0-*6?.' E*,'=) . >6/ .*2.6^ , 12.' 1 '>1/0' 620')*6, ' 1 '=6 2' 1-' 1 '-*/ * ' *+*2' 6>,;6/ ?=-*.. 12.' 1 ' .1;20' 1-' 1 ' / 5), 8 // 1 ,*2' ?1;/0' 1-' .;55*.,' 0-*6?.' 620',)*' =)E . >6/ 1-562.' 1 ' .=**>)' 8 // 1>>6. 126// ' D*' ?60*' ;.*' 1 ',1' *L=-*..',)*' *?1^ , 12.' 1 ',)*' 0-*6?*-% 2',)*' .*>120' =/6>*' 2.,62>*.')6+*' D**2' 92182' 8)*-*' 6' .*8' 81-0.' 8) .=*-*0' 2,1' 6' ./**=*-.' *6-')6+*' =-10;>*0' 6' 0-*6?' >1--*.=120 25',1' ,)*' -' .;DA*>,% 2',)*.*' ,81' =1 2,.' *L=*- *2>*' 5 +*.' ;201;D,*0',*., ?12E T 6.',1' ,)*' ,)-0' , '>62' -1?' ,)*' 26,;-*' 1 ',)*' >6.*' .-*69%D;,' +65;*/EI7 620' ;2>*-,6 2GE% ()*' >- =,;-*' 0*>/6-*.' 21,' 6.' 62 ',-625*',)25 'D;,'6.' 6',)25' 1 '>1;-.*',)6,',)*' 2 /;^ *2>*' 1',)*' = - ,' 1 ' 410' ;=12',)*' .1;/ *L,*20.',1',.' ./**= 25' 6.' 8*// 6.' ,.' 869 25',)1;5),.% ,' 0*>/6-*.' ,)6,' 410' >1? ?;2 >6,*.' 8 ,)',)*' .= - ,'1 '?62' 0 -*>,/ ' 2' 0-*6?.' 620' 6/.1',)6,',)*' =*-? ,.' >-*6,*0' .= - ,.' ,1')6+*' 6' / 9*' >1? ?;2 >6, 12' 8 ,)',% ,.' 0*>/6-6, 12' ,1' D*' 8* 5)*0' 21,' 6.' 62' .1/6,*0',)25' D;,' 2' >12^ 2*>, 12' 8 ,)',)*' 5*2*-6/ 01>,- 2*' 1 '.= - ,;6/ 2 /;*2>*' D*>6;.*' 62 ',)*1- ' 1 '0-*6?.' ?;.,' D2' -%56 010' 6.' 6' =6-,' 1 ',)*' 5*2*-6/ ,)*1-E' 1 ',)*' 1- 5 26, 12' 1 ' 6// ,)1;5),J M ?,)X%

&)6,*+*7?6 'D*',)*' 0 >;/, *.' 6,,*20 25',)*' .;D^ A*>,'., // 8*' 9218',)6,' 0-*6?./)6+*' 1-?*0' 6' >)62F 2*/',)-1;5)'8)>)'B*)1+6)'86.'=/*6.*0' 2' 1-?*-', ?*.' ,1'-*+*6/).'>)6-6>,*-' 0' 0 .=*2.6, 12.',1').'=*1=/*% () .' ?*,)10' 1 '0 + 2*' >1?2;2 >6, 12' .' 6//;0*0',1' 2' B1D' LLL ' % (1' ?1.,C-*?6-96D/*' 2..62>*.' -*^ >1-0*0' 2',)*' /0' (*.,6?*2,' 6-*',)1.*' 1 ' D ?*/*>)' ,)-*56-0' ,1' D-6)6?*' M4*2%' LL ' NX' B6>1D' 12').' 86 ',1' 6062C -6?' M4*2%' LL+ ' QX' 620' 656 2' 12' -*,;-2 25',)*2>*' M4*2%' LLL ' X' 6D62' 2' =;-.; 25' B6>1D' M4*2%' LLL ' K X' B1.*=)' -*.=*>, 25',) .' ;,;-*' 60+62>*?*2,'M4*2' LL+ ' SC X' 4 0*12' MB;05%+ X' 620' 1/1?12' M ' 25.' ' X% 2',)*' *8' (*.,6?*2,' M6.' 86.' =-*0>,*0' B1*/ ' KQX' 8*')6+*',)*' *_;6// '>/*6-'>6.*.' 1 'B1.*=)'-*.=*>, 25',)*' 2 62,'B*.;.'M<6,,' 'K T ' K N RX' 6;/' M >,.' L+ 'RT' L+ 'RT' LL+ I KNX' 620' =*-)6=.' /6,*.' 8 *' M<6,,' LL+ ' RX% ,' ?;.,'D*' 1D.*-+*0',)6,' 2' 6>>1-062>*' 8 ,)',)*' =- 2> =/*' *2;2> 6,*0' D ' 6;/ 2' ' 1-%L+ ' 0-*6?.' 2' 8)>)',)*' ;20*-..620 25' .' 6./**=' 67-* -*>152 .*7' 20**0' 6.' 6' ?*,)10' 1 '0 + 2*' -*+*/6, 12' D;,'=/6>*0' D*^ /18',)*' + . 12.' 1 '=-1=)*> ' 2' 8)>)',)*' ;20*-..620^ 25' =/6 .' ,.' =6-,% ',' .',-;*',)6,',)*' D119' 1 'B1D' ,.620 25' 6.',' 01*.' 12',)*' D6.' 1 ' ' 26,;-6/ -*/ 5 12 ' 08*//.' 12' 0-*6?.' 620' `+ . 12.' 1 ' 0**=' ./**=' 6.',)*' >)1.*2' ?*,)10' 1 '410 .' -*+*/6, 12' 1 ' ) ?.*/ ',1' ?62' M.**' B1D' + ' NT' + ' T' LLL  ' X%  ;,' 2  ;?% L ' ST' *;,' L  ' 'N' T' B*-% LL+  ' RT' B1*/  ' KQ' *,>%' 0-*6?*-.' 1 '0-*6?.' 8)*,)*-',-;*' 1-' 6/.*' 6-*' =/6>*0' D*/18' `=-1=)*,. '620' *+*2' D*/18' `0 + 2*-.620' . ?C

/6-/7!' 2' ,)*' >/ ?6L' 1 ' ' 6?%LL+ ' 4' 8*' -*60' ,)6,' `,)*' 1-0' 62. 8*-*0' 6 ;/ 21, ' 2* ,)*-' D ' 0-*6?. ' 21-' DEC $- ?' \D ' . ?D1/h' 21-' D ' =-1=)*,.%' $20*-' ,)*)- ., 62' 0 .=*2.6, 12 ' 8) /*' 8*' -* ;*2,/ ' -*60' 1 ' ,-62>*.' M,A>1-11 ,>% 620' + . 12.' M1 (--61 6, ' 1=1=6-1X' 0-*6?.' 6-*' 21,' -* *--*0' ,1' 6. -*A7 ;/6-' +*) >/*.' 1 '0 ^ + 2*' -*+*/6, 12%3 2' *L6>,' 6>>1-062>*' 8 ,)' ,) .'=- 2^ > =/*' 6-*' ,)*' 6>,, ;6/ -*>1-0.' 1 ' ,)*' 0-*6?.' .*2,' D ' 410% ( )*' 5-*6, *-' 2 ; ?D*-' 1 ' . ;>)' 0-*6?.' 8*-*' 5-62, *0 ' 1-' =-*0 >, 12' 1-' 1-' 86-2 25 ',1' ,)1.*' 8)1' 8*-*' 6/ *2.', 1' ,)*' B*8 .)' >1+*262,% ( ) ; .' 8*')6+*' ,)*' -*>1-0' 1 ' ,)*' 0-*6?.' 1 ' D ?*/*>)' M4*2% LL ' Nr XT' 6D62' M4*2% LLL ' K XT' 1 ' ,)*' >) * ' D ; ,/*-' 620' D69*-' M4*2% L/ ' XT' 1 ')6-61)' M4*2% L/ ' CQXT' 1 ' ,)*' : 0 62 ,*' MB ; 05% + ' NXT' 1 ' *D ; >)602*[[6-' M 62% ' ' *, >%T + ' C QXT' 1 ' ,)*' ?65 ' M<6,, ' ' KX' 620' 1 ' /6, * . ' 8 *' M<6,, ' LL+ ' RX% <62 ' 1 ' ,)*. *' 0-*6?. ' ?1-*1+*-' 8*-*' . ?D1/ >6/ 620' 1D. >; -*' .1' 6. ' ,1' -*_ ; -*' 62' 2, *-^ =-*, *-% 56 2 ' 8)*-*' 0-*6?.' 6-*' -*>1-0*0' 6. ' ?*62. ' 1 ' 410 .' -*+*/6, 12', 1') .' >)1.*2' .*-+62, . ' ,) * ' 6-*' 6/^ ?1., ' 6/86 .' -* *--*0' ,1',)*' =*- 10. ' 1 ' ,)*-' *6-/ *., ' 620' ?1., ' ?=*- *>, ' 9218/*05*' 1 ') ?% 1' , ' .' 2',)*' >6.*' 1 ' D-6)6?' M4*2% L+ ' K ' 620' =*-)6=.' CRX ' 1 ' B6>1D' M4*2% LL+ ' KC X ' 1 ' B1.*=)' M4*2% LLL+ ' C X ' 1 ' 1/1?12' M ' 25.' ' X ' 620' 2',)*' % (%' 6 . ? /6-' 626/15 ' =-*+6 /.' 2',)*' >6.*' 1 ',)*' 1,)*-8 .*' ; 2 2.= -*0' B1.*=)' M<6,, ' K T ' N R KKX% , ' .', 1' D*' 1D. *-+*0' ?1-*1+*-',)6, ',)* ' D*/125' *.=*> 6// ', 1' ,)*' *6-/ *.' 65*' 620' D*>1?*' /*..' -* _ ; *2, ' 6.',)*' -*+*^ /6, 12.' 1 '=-1=)*>E' 2>-*6. *% (F*' 12/ ' *L>*=, 12' ,1' ,) .' M6, '/*6., ' 2', /A*' %' (%X .' 1 ; 20' 2',)*' 0-*6?.' 620' `+ . 12.' 1 ',)*' 2 5), ' 5 +*2', 1' 62 */' M ' RT' + ' G3X' 6==6-*2,/ ' 2' 1-0*-', 1' =; ', 1' .)6?*',)*' 6/.*)110.' 1 ',)*')6/02*62' D*/ * ' 2' =-1=)*, >' 0-*6?. ' 620' 2',)*' =18*-' 1 ' 2, *-=-*, 6, 12 ' 620' *, ', 1' D- 25' 1 ; ',)*', -; ,)' /6, *2, ',)*-* 2' M>1?=% 6 ; / .' ? -6>/*.' 6, ' =)*. ; . ' >, .' L L ' K ' 620',)* -' * *>, ' QCK X% ( )*' 5*2*-6/ >12>/ ; . 12',)*-* 1-*' .' -., ',)6, ',)*' >- =, ; -*' >/6 ?.',)*' 0 *6?' 6.', ' 01*.' *+*- ' 1,)*-' 6>^ , 12' 1 ',)*') ; ?62' ? 20 ' 6.' 6' ?*Z/ ; ?' ,)-1 ; 5)' 8) >)' 410' ?6' .=*69', 1' ?62' * ,)*-' 0 -*>, / ',)6, ' .' 6.' 8*' >6// ' '=-1+ 0*2, 6// '1-A20 -**, / ' 2' + -, ; * 1 '6' 5*2^ *-6/ 2 /; *2>*' ; =12' 6// ') .',)1 ; 5), .' 627' .*>120/ ',)6, ' /6 .' 6-' 5-*6, *-' .,-*.' 12',)6, ' 0 + 2*' 2 /; *2>*' D ' 7) >)',)*' ; 20*-., 620 25' 6/.1' .' 6 *>, *0 ' 620' /*60.' ; .', 1' D*/ *+*' ,)6, ' 6.' .; >)' 2 /; *2>*' *L, *20.' ?1-*' 620' ?1-*' -*+*/6, 12' D ' 0-*6?. ' ; 2/*..' 2' +*-A ' =*^ >; / 6-' >->; ?1', 62>*0' ? 5), ' D*' *L=*>, *0', 1' =6. ' 686 J' M ? ,)X% M **' ,)*' \ ?%h' " !'5 !' > % Q %X ( )*' -*2, 6/. ' 620' 2' =6-, >; /6-',)*' : *D-*8. ' 5-*6, ^ / ' -*56-0*0' 0-*6?. ' 620' 6==/ *0' 1-' ,)* -' 2, *-=-*, 6, ^ , 12', 1',)1.*' 8)1' ; 20*-, 119', 1' *L=/6 2',)*?% ; >)' 0 + 2*-.')6+*' D**2' ; . ; 6// ' >6//*0' '620',)*' 6-', ,-*/ ! & *' .**',)*' 62, _ ; , ' 1 ',) .' >; ., 1?' 2',)*') .,1- ' 1 ')6-61) . ' D ; , /*-' 620' D69*-' M4*2% L/ ' /CKNPT' 620')6-61)') ?.*/ ' 620' *D ; >)60^ 2*[[6-' 6-*' 6/.1' 2., 62>*.% **' . % , ' .' _ ; , *>/*6-' -1?',)*' 2.= -*0') .,1- ',)6, ' 0-*6?. ' 8*-*' I/119*0' ; =12' D ',)*' *6 0 *., ' 26, 12.' 1 ' 62, _ ; , ' 6.' =-*^ ?12, 12.' -1?',)*' -' 01/510.' 1 ' ; , ; -*' *+*2, .% 2*' =6-, ' 1 ' B*)1+6) .' 5-*6, '=/62' 2' -*+*6/ 25 ',)-1 ; 5)',) .' >)622*/ ') *' 0*. 52.' , 186-0.' 5 =, ' B1.*=)' 20 + 0 ; ^ 6// ' 620') .' D-*,)-*2' 5*2*-6//E7' 86.', 1' >1-->, ',) .' 21, 12% ( )*' .6?*' =- 2> =/*' .' 6==6-*2, ' 2',)*' 0 + 2*' =18*-' D*. , 18*0' ; =12' 62 */, 1' 2, *-=-*, ' 0-*6?. % B*^)1+6)' *L=-* ../ ' 1-D60*') .' =*1=/*' -1?' 1D. *-+ 25' 0-*6?. ' 620' -1?' >12. ; /, 25' *L=/6 2*-.' 1 ',)*?% ' =* >120*?2*0', 1' 0*6,)' 6// 8)1' =-*, *20*0', 1')6+*' =-1= =)*, >' 0-*6?. ' 620', 1% 1-*, */' *+*2, . ' 0+*2',)1 ; 5)' 8)6, ',)* ' 1-*, 1/0' >6?*', 1' =6.. ' ',)* ')60' 62 ', *2^ 0*2> ', 1' =-1?1, *' 01/6, - ' M *; , % L ' C X% ; , ',)* ' 8*-*' 21, ' 1-D 00*2 ' 8)*2',)* ',)1 ; 5), ',)* ')60' 6' . 5^ 2 >62, ' 0-*6?', 1' 600-*. .,)*' =-1=)*, .' 1 ',)*' 1-0 ' 1-' ,)*') 5)C=-*. , ' 2') .' *=)10', 1')6+*' , ' *L=/6 2*0' M ; ?%L ' 4T >1?=6-*',)*' >6.*' 1 ' 6 ; /' ' 6-6 ' LL+ ' S X% 6/.*' 620', -; *' 0-*6?. ' 6-*' *L=-*../ ' >12, -6., *0' 2' B*-% LL ' K ' KQ% **' * ' 4 .!

-*5.' " (1' ' 1 ' 8 2*' \6.' *+*- ^ 8)*-*' -*20*-*0' *L>*=, ' 2h% .6% LL+ ' QT' .1' >6//*0' -1?' .*, ,/ 25' 1-' D* 25' D % :' - = ' " " (" ' .6%/ ' ' KK ' ? *62.' 6' = 1' ? *-*/ X% **') ! ()*' D*. , ' 8 2*, ' 1 ',)*' 6., ' 6-*' ? ; >)' ? L*0' 8 ,)' 0-*5. ' 2' ,)*' +*. . */.' 2' 8) >)',)* ' 6-*' =-*. *-+*0' .1',)6, ' >1?^ ?12/ ' 8)*2' 0-6 8 2' 1 ; ',)*' / _ ; 1-' .' . ,-6 2*0' 1-' ; .*% , ' . ,1',) .' >120, 12' 1 ',)*' 8 2*',)6, ',)*' .6/? .', 6=^ =*6-., ' 1' -* *-d ' : *' =1 ; -*,)' 1 ; ' 1 ',)*' .6?*T D ; ',)*' 0-*5. ') *-*1 ' 6//',)*' 8 >9*0' 1 ',)*' *6-,)' .)6// 8 - 25' ,)*?' 1 ; , ' 620' 0 - 29',)*?J M .6% LL+ ' QX% () . ' . ' =-1D6D/ ' 2, *20*0', 1' 0*21, *' ,)6, ',)*' =; -*' 620' >/*62' 8 2*' .)1 ; /0' D*' 5 +*2' 6.' 6' 8 2*' 1 ' D/*.. 25', 1',)*' - 5), *1 ; . ' 8) /*',)*' 8 >9*0' .)1 ; /0' 0 - 29',)*',) >9' 620' , ; -D 0' -*. 0 ; *% ()*' =; 2 .),)*2, . ' 8) >)' 410' 2 / >, . ; =12',)*' 8 >9*0' 6-*' >1?=6-*0', 1' 6' >; = ; / 1 ' *-?*2, ^ 25' ? L*0' 8 ,)' 2, 1L >6, 25')*-D. ' 1 ' 8) >)' 6//,)1.*', 1' 8)1?' , ' .' 5 +*2' ? ; ., ' 0 - 29',)*' 0-*5. ' 1-' .*0^ ?*2, % ()*' .6?*' ?65*' 1>>; -. ' 2' .*+*-6/ -6D 62' =1*, . % ( ) ; . ' (66 XD6, 6') 6262' .6 . ' (1',)1.*' 1 ' ,)*', -D*' 1 ' : 106 / 8*' 56+*',)*' >; =' 1 ' 0*6,) ' 8)1.1' 0-*5. ' 8*-*' >12 ; . 12' .)6?*' 620' -*=-16>)%J' **' [8+ -*/ 2>1 ; -, ' . ' 62' *? 2*2, ' ? 2 ., *-' 1 ' , / * * 1-?*0') ; ->) ' 1 ' -62>1 ' 86. ' ID1-2' 6, ' *062' B ; / ' R % : *' 86. ' *0 ; >6, *0' 6, ' 6; ?2-' 620' 2' Q D*>6?*' =6., 1-' 2*6-' 625-*. % 2' SK ')*' 86. ' >6//*0', 1',)*' =6., 1-6, *' 1 ',)*' >) ; ->)' 6, ')6-*2, 12' 2*6-' 6- . ' 8)*-*')*' .*-+*0' 6,) ; // ' 620' 8,)' *L^ >*//*2, ' -*=; , 6, 12% : *' 0 *0' 6, ' 6- .' 1+% N' BS4RT' -*/ 2>1 ; -, ' 86. ' 6' +*- ' +1/ ; ? 21 ; . ' 8 - , *-% 1-' / ,.. I' 1 ' 6//) .' +- , 25. ' .**' >*-12 ' 1' +1/% L+T : 665 ' @ ' 1' + ' NNK% ?125',)*) ' 6-*' % ' ' $ ' ! N +1/. ' Q+1 ' 1 , *2' -*=- 2, *0a ' ' ' ' ' ' ' ' M ' *0 , 12. XT ,-62./6, *0' -" ' " (1' ' "' M N,)' *0% 12012 ,NK' Q+1' 8 ,)' ?*?1 -Xa ' 'N ' " (2 % ' 2' '% ' ' M)6-*2, 12' R' ' +1/. % K?1' ,-6 7./6, *0' 2, 1' . L' /625 ; 65*. X% ' 6 /*' ' 1' . % + %T : 1* *-' 7 !' ; ' ? ' L + ' S% -*. ' M01*. ' 21, ' 1>>; -' 2' >-=, ; -*' 2',)*' .*2.*' 1 ' " ' D ; ' 12/ ' 2',)*' 1/0*-' 6>>*=, 6, 12' % % ' 1-' 2N 1' **' $#!7 % ' ()*.*' 8*-*' +6-1 ; . ' 620' ? ; /, =/ *0' 8 ,)',)*' 60+62>*' 1 ' > + / [6, 12% ()*' *6-/ *., ' 620' . ?=/*., ' -1D*' 86. ' ?60*' 1 ; , ' 1 ',)*' /*6+*.' 1 ' 6', -**' M2AL2 ' % % 5C, -**J ' 620' >1?=',)*' =-*. *2, ' -6^ D >' 26?*' 1-',)*' 5' - 2X' =1-, 12. ' 1 ' 8) >)' 8*-*' .*82' ,15*,)*-' .1' 6. ' , 1' 1-?' 62' 6=-12' M4*2% ' X% .>*, >' B*8. ' 1>>6. 126// ' ; .*0' 6' . ? /6-' ?6, *- 6/ 2' /6, *-' , ?*, *' B1.*=) ; . ' I ' 'KX' -*>1-0.',) .' 1 ' 62 ; .' I ?"-' % ' , --' $+ 1% * ' 8)*),)*-' ' 86. ?60*' 1 ',)*' /*6+*.' 1-',)*' D6-9' . ' ; 2>*-, 6 2% , *-' ,)*' 6// ',)*' .9 2.' 1 ' 62 ?6/.' . ; ==/ *0' 6' ?1-*' 0 ; -6D/* ?6, *- 6/ M4*2% 'K X ' 8) >)' 86. ' 606=, *0', 1' 6' -; 0*' ., 6, *' 1 ' .1> *, ' 620' . ' ., 6, *0', 1I') 6+*' D**2' ; . *0' / ' +6- 1 ; . ' 62> *2, ' 26, 12.' M *0% >% ' NT' ' QQT' -^ - 62 ' D ! ' NX% 9 2.' 8*-*' 21, ' 8)1//E' 0 . ; . *0' 6, ' /6, *-' =*- 10. d ',)*' ("' M-fh7 27X' 81-2' D ' / A6)' 6==*6-.', 1')6+*' D**2',)*' .9 2' 1 '6' .)***=' 1-' .1?*' 1,)*-' 62 ?6/ 8,)',)*' 811/ /*, '12' M 2',)*' =*, ',)*' 81-0' .' -*20*-*0' % *O *' ' 25.' L L ' N RT' K' 25.' ' NT' $ % ' 4*2% LL+ ' K T' 620' U*>)% L ' T' 620', ?6 ' D*' >122*>, *0' 8 ,)' % ' *, ?1/15 >6// ' 66/C >) ; , [' & " ' ' RT' 4* *2 ; . ') 18*+*-' =-* *-.',)*' 21, 12' 1 ' % ' 2' 8) >)' >6.*' 1 < >% 'QT' -" '=% KRX% ()*' .6?*' ?6, *- 6/ .' ?^ =/ *0' 2',)*' 0*. >- =, 12' 1 ' / A6)' T *=, ' **0% M :' % ')6 - ' ?62 J' K' 25.' ' QX' ,)1 ; 5)',)*.*' 81-0.' ?6 ' 6/.1' D*' ; 20*-., 110' 1 ',)*')6 -' 1 ',)*' =-1=)*, T' 620' 2',)*' >1?=6- .12' 1 ' .6 ; ' .9 2', 1' . ; >)' 6' -1D*' M4*2% LL+ ' K X% ,' 86. ' >)6-6>^ , *- ., >' 1 ' 6' =-1=)*, .' 1 >*' -1?', .' ?*62' 6==*6-62>' X

,1')6+*' D**2' ?6 2,6 2*0' 6?125' ,)*' : *D-*8 .a' ,)*' 6D /12 62.' 620' 1,)*-' 6..*-2' 26, 12.' MB1.) '+ 7K T' [*9% .L+ 'K X' 6.' 8*// 6.' ,)*' 5A=, 62.' M [*9% LL+ ' X'*L>*//*0' 2' ,% 1-' 01*.' ,)*' 6-,' 1 '0 * 25' 6==*6-',1')6+*' D**2' 1//18*0' ;=' 2' 6/*., 2*a 0 *0' -1D*.' 8*-*' ?=1-,*0' -1?' 1-* 52' >1;2,-*.' MU>=)' QX' =6-, >;/6-/ ' -1?')1*2>6 ' 620' 8*-*' 21,' ?;>)' ;.*0'12' 6>>1;2,'1 ',)*-'*L=>). +*)*..a =;-=/*'M -1+% LLL 'KKT ;9*' L+ ' RX 620'.>6-/*,'MK' 6?% 'K X 8*-*' 1>>6. 126// ' 81-2' D ',)*' 8*6/,) % ()*' .;--1;20 25' 26, 12.' 8*-*' ?1-*' /6+ .)' 2' ,)*-' ;.*' 1 ',)*?a ,)*' 8*6/,) '(- 62.'M [*9%LL+ ' X',)*' < ,/ 62 , .)'9 25.' MB;05' + 'KSX',)*' .. - 62' 21D/*.' M [*9% LL 'SX' 620' *-. 62' 1 >*-.' M .,%+ ' X'6-*' 6//*-*=-*.*2,*0' 2' =;-=/*% ()*' 5*2*-6/');*' 1 ',)*' *-. 62' 0-*.' 86.' ?1-*' D- // 62,' ,)62' ,)6,' 1 ',)*' B*8 .a')*2>*' [*9 */ MLL ' KX'0*.>- D*.',)*' .. - 62.'6.'

" ' '% :' 6>>1-0 25',1',)*' *=,' % % 1' 8*6- 25' -1D*.' 8 ,)' " ' ,)' -*56-0' ,1',)*1')*6OC0-*..' 2' =6-, >;/6-' 0*.>- D*0' 6.'

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,)*' =-*.*2>*' 1 ',)*.*' 6-, >/*.% 2' 621,)*-' B2.,62>*' ,)*' 5;-*.' 6-*' . ?=/ '0-*..*0' 2' 6' .)1-,';;2>'8,)' ./**+*.' -*6>) 25'2*6-/ ',1',)*' */D18 '620' >12 2*0' 6,' ,)*' 86 .,' D '6' 5 -0/*' 6' .,/*' 1 '0-*..' 8)>)' 86.' .1' 8 0*/ '.=-*60',)-1;5)1;',)*' 6.,',)6,' ,' .' ?=1.. D/* ,1' =-121;2>*' 8)6,'=6-,>;/6-' 26, 12',)*' ?6 ')6+*' D*/125*0',1a',)*' ., /*' 1 ')*6OC0-*..' .**?.' 62' 1/XA*>C' , 12',1',)*' .;==1. , 12',)6,',)*A!' 6-*'B*8%IH% ()*.*' 5^ ;-*.' 6-*' 5 +*2' 2' 121? .' 7 "'=%N: % ()*'>1..;?*'1 ',)*' ?*2'620' 81?*2' 86.'+*-A' . ? ^ /6-'T ,)*-*' 86.' .; >*2,'0 *-*2>*')18*+*-',1' ?6-9' ,)*' .*L '620' ,' 86.' .,-;>,/ ' 1-D 00*2',1' 6' 81?62',1' 8*6-',)*' 6==*2065*.'M!'(=T ; % !) 8*8' .;>)'6.',)*' .,6 ' . 52*,C- 25'620' 1,)*-' 1-26?*2,. 'WP' 6>>1-0 25' ,1'B1.*=);.'I& ' +'Q NX' A7* 8*6=12.' 1'6' ?62T 6.' 8*//6.',1'6' ?62',1'8*6-',)*' 1;,*-'-1D*' M /7 6D X'1'6' 81?62'M *;,'LL 'SXa',)*' -*6.12' 1',)*' =-1) D , 12' 6>>1-0 25',1' <6 ?12 0*.' I !'7 "!' ' X'D* 25' ,)6,'.;>)'86.',)*'=-6>,>*' 1' 01/6,*-.'M>1?=% 6-=[1+' &%% <'=' XT' D;.' ?1-*'=-1D6D/ ' .' 86.' D6.*0';=12' ,)*' 5*2*-6/=- 2> =/*' 1 '=-1=-*, % M *' < //' ' '=% RS _ %T 6-=[1+' ' ' ' ' " ' ' =' 1.,% K%X ! 1D*.' >1? ?12',1',)*' .*L*.% M %X ()*'+ " ("' 8)*2>*',)*' 4-**9' 8' 86.',)*'?1.,'*..*2^ ,6/6-, >/*' 1 '0-*..% .' 86.'6'>/1.*/ C ,, 25'56-?*2,' -*.*?D/ 25' 2' 1-?' 620' ;.*' 1;-' " ',)1;5)';2 1-^ ,;26,*/ ',-62./6,*0' '>16,J' 2',)*' % % I ()*?6,*-6/ 1'8)>)',' 86.'?60*' 86.'*,)*-' 811/'>1,,12'1-' 2*2% '?'B1.*=);. .'1D.*-+6, 12'M O V% X' 8 ,)'-*56-0' ,1',)*' 'M,),6,',' 86.'1 Z' ' O'- %-%*% (8' 8*' ?6 '=-1D6D/ ' 2 *-',)6,',)*' 1-0 26- 'R "(G "' 1-' ;2>' 86.' ?60*' 2',81' =*>*.' 8)>)' 8*-*' .182' ,1^ 5*.,)*-',)6,',)*' .0*.% 2',)' >6.*',)*' .*6?/*.' .)-,' IO1- ' %% % 8'81-2' D '1;-' 1-0' MB1)2' L L 'KNX' 86.' *,)*-'6' .25;/6-'12*' 1-'1.' .' ?1-*'=-1D6D/*' 86.',)1' ;'=*-',;/2>'1-' ! ()*'=- ? ,+*'+ + +'/ 6.'8,)^ 1;,' ./**+*.' 620' -*6>)*0'12/ ',1',)*' 92**' /9*',)1' 1- >' T ,' ?6 '6/.1')6+*' D**2'/9*',)*' /6,,*-=6-,6// '1=*2*0'6,'12*' .0*'.1',)6,'6'=*-.12' 2' -6= 0' ?1, 12' 86.' *L=1.*0' MK' 6?% + 'K X' 21,)*-'9 20' 8)>)'8I*?6 '>1?=6-*' 8,)',)*' 12 62' <*0',1',)*' 8- .,' 620' 629/*.a'.;>)'86.' =-1D6/ / ',)1' + 1+ "'% '81-2' D 'B1.*=)'M4*2% LLL+ 'N KNX' 620' (6?6-'MK' 6-6'L 'QX'620',)6,'8)>)',)*' =- *.,.' 81-*' MB1.*=);.' 27% 'KX% ,'86.' 2' *,)*-'>6.* 9*=,'>/1.*',1',)*' D10 'D '6'5 -0/*' M_ '+%X'620',)*' 1/0' 1-?*0'D ',)*'1+*-/6== 25'1',)*'-1D*' .*-+*0'6.'62' 2^ 2*-'=1>9*,' 2'8)>)'6'/*,,*-'1-'62 '1,)*-'.?6// 6-- >/*' ?5),' D*' >6-- *0' MB1.*=)% 6!' L+ ' ' X% '=*-.12' 8*6-25',)*' " " +'6/12*' 86.'0*.>- D*0'6.' ! J '26C' " S' 8*' ?6 '>1?=6-*',)*';.*'1',)*',*-?' % 0 '6.' 6==/*0',1',)*' =6-,62' + -5 2.' M /;,% ! X' 1',)*' 6, 2' 'M -5 /' ? ' 'KRRX'620' 1'1;-'*L=-*.^ .12' %% ! ();.' .' .6 0' 1' 6;/'6 ,*-')6+ 25' ,69*2'1 ') .' %% '56-?*2,.' 6?'L L 'K XT 1' .6 6)'M .6% LL 'KX' 8)*2')*')60' =;,'1 ') .' .6>9C' >/1,)'8)>)'86.';.;6// '81-2' 1+*-',)*',;2>'M>1?=% B12% 'SX'620' 12/ '12' .=*> 6/ 1>>6. 12.'2*L,',)*' .9 2' MK' 25.'+ 'N XT' 1'6'86-- 1-'8)1')6.'>6..'1 ') .' ? /^ ,6- '>/169'M ?1.' ' ST' >1?=% +EI' 'KN' 4 X T 620'1' *,*-'8 ,)1;') .' .)*- .'>16,'MB1)2' LL ' X% ()*.6?*'*L=-*.. 12' .'*/.*8)*-*'6==/ *0',1',)*' =11-/ '>/60' MB1D' LL ' ST' .6% + ' T B;?>6' X% ()*'622*L*0'81100>;,'M 5' X' -*=-*.*2,.',)*' .?^ =/*.',., /*' 1 ' -*2,6/' 0-*..' 6' /125' /11.*' .)-,'1-' + 1' " "' 8,)1;,'6'5 -0/*'-*6>) 25' 2'6-/ ',1',)*' 629/*' ()*' .6?*' -1D*' 8,)',)*' 600, 12' 1',)*' 5 -0/*' .)182' 2' 5% % 2' 5% K' 8*')6+*',)*' 1-0 26- '0-*..' 1',)*' ?10*-2' *01; 2T',)*',;2>'1+*-/6=.',)*' 5 -0/6' 6,',)*' 86.,'/*6+ 25' 62' 6?=/*' 1/0' 8)>)'.*-f!*.' 6.' 6' =1>9*,% +*-',)1',;2>')*' 8*6-.'7*' "" '1-'.,- =*0' =/6 0' 8)>/7>1?=/*,*.')'.>1.,;?*%

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Fig. 1. An Egyptian.

Fig. 2. A Bedouin.

per of fine linen (Sept. *σινδών*), which might be used in various ways, but especially as a night-shirt (Mark xiv, 51; comp. Herod. ii, 95; Schleusner's *Lex. in N. T.* s. v.). (The Hebrew term is given in the Syriac N. T. as =*σουδάριον*, Luke xix, 20, and *λέντιον*, John xiii, 4.) The material or robe is mentioned in Judg. xiv, 12, 13 ("sheet," "shirt"), Prov. xxxi, 24, and Isa. iii, 23 ("fine linen"); but in none of these passages is there anything to decide its specific meaning. The Talmudical writers occasionally describe the *tallith* under that name, as being made of fine linen: hence Lightfoot (*Exercitations* on Mark xiv, 51) identifies the *σινδών* worn by the young man as a *tallith*, which he had put on in his haste without his other garments.

(3.) The *meil'* (מְעִיל) was an upper or second tunic, the difference being that it was longer than the first. It is hence termed in the Sept. *ὑποδύτης ποδήρης*, and probably in this sense the term is applied to the *kethoneth passim* (2 Sam. xiii, 18), implying that it reached down to the feet. The sacerdotal *meil* is elsewhere described. See PRIEST. As an article of ordinary dress it was worn by kings (1 Sam. xxiv, 4), prophets (1 Sam. xxviii, 14), nobles (Job i, 20), and youths (1 Sam. ii, 19). It may, however, be doubted whether the termed is used in its specific sense in these passages, and not rather in its broad etymological sense (from עָטָל, *to cover*), for any robe that chanced to be worn over the *kethoneth*. In the Sept. the renderings vary between *ἐπενδύτης* (1 Sam. xviii, 4; 2 Sam. xiii, 18; 1 Sam. ii, 19, Theodot.), a term properly applied to an upper garment, and specially used in John xxi, 7, for the linen coat worn by the Phœnician and Syrian fishermen (Theophyl. in l. c.), *διπλοΐς* (1 Sam. ii, 19; xv, 27; xxiv, 4, 11; xxviii, 14; Job xxix, 14), *ἱμάτια* (Job i, 20), *στόλη* (1 Chron. xv, 27; Job ii, 12), and *ὑποδύτης* (Exod. xxxix, 21; Lev. viii, 7), showing that, generally speaking, it was regarded as an upper garment. This further appears from the passages in which notice of it occurs: in 1 Sam. xviii, 4, it is the "robe" which Jonathan first takes off; in 1 Sam. xviii, 14, it is the "mantle" in which Samuel is enveloped; in 1 Sam. xv, 27, it is the "mantle," the skirt of which is rent (comp. 1 Kings xi, 30, where the שַׂלְמָה, *samlah'*, is similarly treated); in 1 Sam. xxiv, 4, it is the "robe" under which Saul slept (generally the בֶּגֶד, *be'ged*, was so used); and in Job i, 20; ii, 12, it is the "mantle" which he rends (comp. Ezra ix, 3, 5): in these passages it evidently describes an outer robe, whether the *simlah*, or the *meil* itself used as a *simlah*. Where two tunics are mentioned (Luke iii, 11) as being worn at the same time, the second would be a *meil*; travellers generally wore two (Joseph. *Ant.* xvii, 5, 7), but the practice was forbidden to the disciples (Matt. x, 10; Luke ix, 3).

The dress of the middle and upper classes in modern Egypt (fig. 3) illustrates the customs of the Hebrews. In addition to the shirt, they wear a long vest of striped silk and cotton, called *kaftan*, descending to the ankles, and with ample sleeves, so that the hands may be concealed at pleasure. The girdle surrounds this vest. The outer robe consists of a long cloth coat, called *gibbeh*, with sleeves reaching nearly to the wrist. In cold weather the *abba* is thrown over the shoulders.

Fig. 3. An Egyptian of the upper Classes.

(4.) The ordinary outer garment consisted of a quadrangular piece of woollen cloth, probably resembling in shape a Scotch plaid. The size and texture would vary with the means of the wearer. The Hebrew terms referring to it are —*simlah'* (שַׂלְמָה, occasionally שַׂלְמָת), which appears to have had the broadest sense, and sometimes is put for clothes generally (Gen. xxxv, 2; xxxvii, 34; Exod. iii, 22; xxii, 9; Deut. x, 18; Isa. iii, 7; iv, 1), though once used specifically of the warrior's cloak (Isa. ix, 5); *be'ged* (בֶּגֶד), which is more usual in speaking of robes of a handsome and substantial character (Gen. xxvii, 15; xli, 42; Exod. xxviii, 2; 1 Kings xxii, 10; 2 Chron. xviii, 9; Isa. lxiii, 1); *kesuth'* (כְּסוּת), appropriate to passages where covering or protection is the prominent idea (Exod. xxii, 26; Job xxvi, 6; xxxi, 19); and, lastly, *lebush'* (לְבוּשׁ), usual in poetry, but specially applied to a warrior's cloak (2 Sam. xx, 8), priests' vestments (2 Kings x, 22), and royal apparel (Esth. vi, 11; viii, 15). A cognate term, *malbush'* (מַלְבּוּשׁ) describes specifically a state dress, whether as used in a royal household (1 Kings x, 5; 2 Chron. ix, 4) or for religious festivals (2 Kings x, 22): elsewhere it is used generally for robes of a handsome character (Job xxvii, 16; Isa. lxiii, 3; Ezek. xvi, 13; Zeph. i, 8). Another term, *mad* (מַד), with its derivatives מִדָּה, Psa. cxxxiii, 2, and מִדְוֶ, 2 Sam. x, 4; 1 Chron. xix, 4), is expressive of the *length* of the Hebrew garments (1 Sam. iv, 12; xviii, 4), and is specifically applied to a long cloak (Judg. iii, 16; 2 Sam. xx, 8), and to the priest's coat (Lev. vi, 10). The Greek terms *ἱμάτιον* and *στόλη* express the corresponding idea, the latter being specially appropriate to robes of more than ordinary grandeur (1 Macc. x, 21; xiv, 9; Mark xii, 38; xvi, 5; Luke xv, 22; xx, 46; Rev. vi, 11; vii, 9, 13); the *χιτών* and *ἱμάτιον* (A. V. "coat," "cloak," Vulg. *tunica, pallium*) are brought into juxtaposition in Matt. v, 40, and Acts ix, 39. The *beged* might be worn in various ways, either wrapped round the body, or worn over the shoulders, like a shawl, with the ends or "skirts" (כְּנָפַיִם; Sept. *πτερύγια*; Vulg. *anguli*) hanging down in front; or it might be thrown over the head so as to conceal the face (2 Sam. xv, 30; Esth. vi, 12). The ends were skirted with a fringe, and bound with a dark purple ribbon (Num. xv, 38): it was confined at the waist by a girdle, and the fold (חֵיק; Sept. *κόλπος*; Vulg. *sinus*) formed by the overlapping of the robe served as a pocket in which a considerable quantity of articles might be carried (2 Kings iv, 39; Psa. lxxix, 12; Hag. ii, 12; Niebuhr, *Description*, p. 56), or as a purse (Prov. xvii, 23; xxi, 14; Isa. lxv, 6, 7; Jer. xxxii, 18; Luke vi, 38).

The ordinary mode of wearing the outer robe, called

abba or *abáyeh*, at the present time, is exhibited in figs. 2 and 5. The arms, when falling down, are completely covered by it, as in fig. 5; but in holding any weapon, or in active work, the lower part of the arm is exposed, as in fig. 2.

Figs. 4, 5. Egyptians of the lower Orders.

b. The dress of the women differed from that of the men in regard to the outer garment, the *kethoneth* being worn equally by both sexes (Cant. v, 3). The names of their distinctive robes were as follows: (1) *mitpach'ath* (מִטְפַּחַת; Sept. *περίζωμα*; Vulg. *palŭum, linteamen*; A. V. "veil," "wimple"), a kind of shawl (Ruth iii, 15; Isa. iii, 22); (2) *maataphah'* (מַעֲטָפָה; Vulg. *pallium*; A. V. "mantle"), another kind of shawl (Isa. iii, 22), but how differing from the one just mentioned we know not: the etymological meaning of the first name is *expansion*, of the second *enveloping*; (3) *tsa'iph* (צָעִיף; *θέριστρον*; "veil"), a robe worn by Rebekah on approaching Isaac (Gen. xxiv, 65), and by Tamar when she assumed the guise of a harlot (Gen. xxxviii, 14, 19)—it was probably, as the Sept. represents it, a light summer dress of handsome appearance (*περιέβαλε τὸ θέριστρον καὶ ἐκαλλωπίσατο*, Gen. xxxviii, 14), and of ample dimensions, so that it might be thrown over the head at pleasure; (4) *radid'* (רָדִיד; "veil"), a similar robe (Isa. iii, 23; Cant. v, 7), and substituted for the *tsaiph* in the Chaldee version—we may conceive of these robes or shawls as resembling the *peplum* of the Greeks, which might be worn over the head (as represented in Smith's *Dict. of Ant.* p. 753), or again as resembling the *habarah* and *milayeh* of the modern Egyptians (Lane, i, 73, 75); (5) *pethigil'* (פְּתִיגִיל; *χιτὼν μεσοπόρφυρος*; "stomacher"), a term of doubtful origin, but probably significant of a gay holiday dress (Isa. iii, 24)—to the various explanations enumerated by Gesenius (*Thesaur.* p. 1137), we may add one proposed by Saalchütz (*Archæol.* i, 31), פֶּתִי, *wide* or *foolish*, and גִּיל, *pleasure*, in which case it = *unbridled pleasure*, and has no reference to dress at all; (6) *gilyonim'* (גִּלְיֹנִים, Isa. iii, 23), also a doubtful word, explained in the Sept. as a transparent dress, i. e. of gauze (*ἐπάρατνῆ Λακωνικῇ*)—Schroeder (*De Vest. mul. Heb.* p. 511) supports this view, but perhaps the word means, as in the A. V., "*glasses*." The garments of females were terminated by an ample border or fringe (שׁוּלַי, שׁוּל; *ὀπίσθια*; *skirts*), which concealed the feet (Isa. xlvii, 2; Jer. xiii, 22).

Figs. 6 and 7 illustrate some of the peculiarities of female dress: the former is an Egyptian woman (in her walking dress); the latter represents a dress, probably of great antiquity, still worn by the peasants in the south of Europe: the outer robe, or *hulaliyeh*, is a large piece of woollen stuff wound round the body, the upper parts being attached at the shoulders; another piece of the same stuff is used for the head-veil, or *tarhah*.

Fig. 6. An Egyptian Woman.

Fig. 7. A Woman of the southern province of Upper Egypt.

c. Having now completed our description of Hebrew dress, we add a few remarks relative to the selection of equivalent terms in our own language. It must at once strike every Biblical student as a great defect in our Auth. Vers. that the same English word should represent various Hebrew words; e. g. that "veil" should be promiscuously used for *radid* (Isa. iii, 23), *tsaiph* (Gen. xxiv, 65), *mitpachath* (Ruth iii, 15), *mosveh* (Exod. xxxiv, 33); "robe" for *meil* (1 Sam. xviii, 4), *kethoneth* (Isa. xxii, 21), *addereth* (Jon. iii, 6), *salmah* (Mic. ii, 8); "mantle" for *meil* (1 Sam. xv, 27), *addereth* (1 Kings xix, 13), *maataphah* (Isa. iii, 22); and "coat" for *meil* (1 Sam. ii, 19), *kithoneth* (Gen. iii, 21); and conversely that different English words should be promiscuously used for the same Hebrew one, as *meil* is translated "coat," "robe," "mantle;" *addereth* "robe," "mantle." Uniformity would be desirable, in as far as it can be attained, so that the English reader might understand that the same Hebrew term occurred in the original text where the same English term was found in the translation. Beyond uniformity, correctness of translation would also be desirable: the difficulty of attaining this in the subject of dress, with regard to which the customs and associations are so widely at variance in our own country and in the East, is very great. Take, for instance, the *kethoneth*: at once an under garment, and yet not unfrequently worn without anything over it—a *shirt*, as being worn next the skin, and a *coat*, as being the upper garment worn in a house: deprive the Hebrew of his *kethoneth*, and he was positively naked; deprive the Englishman of his *coat*, and he has under garments still. So again with the *beged*: in shape probably like a Scotch *plaid*, but the use of such a term would be unintelligible to most English readers; in use unlike any garment with which we are familiar, for we only wear a *great-coat* or a *cloak* in bad weather, whereas the Hebrew and his *beged* were inseparable. With such difficulties attending the subject, any attempt to render the Hebrew terms must be, more or less, a *compromise* between correctness and modern usage, and the English terms which we are about to propose must be regarded merely in the light of suggestions. *Kethoneth* answers in many respects to "frock;" the sailor's "frock" is constantly worn next the skin, and

* ,)*-' 8 ,)' 1-' 8 ,)1;,' 6' >16,' 1+*-' ,T' ,)*' .?1>9C -1>9J' .' 6? / 6-',1';,' 6.' 62' ;==*-' 56-?*2,' 620' ., //6.' 6' 9 20' 1 ' ;20-*..%' 2' .)6=*' 620' ?6,*- 6/',)*.*' >1--*.=120' 8 ,)' + "' 620' / 9*' ,' ,)*' ,*-?' -1>9J' .' 6==/ *0',1' D1,)' .*L*.%' 2',)*' .6>*-01,6/ 0-*..' 6' ?1-*',*>)2 >6/',*-?' ? 5),' D*' ;.*0a' +*.,^ ?*2, J' 2' ,' .=*> >' .*2.*' 6.' b',)*' >)6. D/*' 1-' 1' 81)/0' -*=-*.*2,' ,' +*- '6=,/ %' 2' ?6 '=*-)6=.' D*' D*.,' -*20*-*0' '5182 J' 1-',) .' ,11' 6==/ *.',1' D1,)' .*L*.T' 620' 8)*2',1' ?*2' 6/86 .' 2' 6)' 1 >6/ .*2.*' 6.',) ,'6>60*? >' 5182',)*' 6/0*-?62 .' 5182',)*' D6-^ - .,*- .' 5182' A;.,'6.' 2'6==*6-.',1')6+*'-*=-*.*2,*0' 62' 1 >6/' 1-' 6,'6//*+*2,.' 6' .=*> 6/ 0-*..% 2' .6>*-P 01,6/ 0-*..' 7 DJ' *L6>,/ ' ?**,.' ,' 620' -*,6 2.' ., //' 2',)*' 4-**9');->)',)*'+*- '26?*'% 1'D '8)>)' ,)*' ' .' 0*.>- D*0' 2' ,)*' F *=,% ()*' .6>*-01,6/ *=)10' 6==-16>)*.' =*-)6=.' ?1.,' 2*6-/ ',1',)*',*-?' =6// J',)*' 81 U3 % ' 1',)*' 4-**9');->)' 8)>)' 8*' ?6 '>1?=6-*' 8,)',)*' H 3 '1',)*' *=,% & =' '"62.8*-.' 2'.*+*-6/-*.=*>,.',1' '=*/ ..*'J'6/,)1;5)',) .',*-?' .' 218' 6==/ *0' 6/?1.,' *L>/;, .+*/ ',1' *?6/*' 0-*..% A *2/2b' / 2*2' 8-6==*-%J' 8*' 81;/0 -*20*-*' 56 ?>2, J' 620' 2',)*' =/;-6/ >/1,)*. J' 6.' ,)*' D-160*..',*-?' 1',)*' 9 20T" ' +*.,?*2, J' 6.' D* 25' 1 '.;=*- 1-' _;6/ , T '" -1D* J' 6.' ., // .;^ =*- 1-T' >/169 J' 6.' D* 25' /125T' 620' 0-*.. J' 2',)*'.=*> >'.*2.*' 2'8)>)',)*',*22' .' 21,' ;2 -*_;*2,/ ';.*0'6.' 0-*..% 2' *?6/*'>1.,;?*' % '" '" ? 5),' D*' -*20*-*0' .)68/ J' %+ ' ?62,/* J' %"')620.1?*'0-*.. 7' ' >/169%J !' 2' 600, 12',1',)*.*',*-?.'8)>)' 8*')6+*',)*' 6-',*L,-6>,*0' -1?',)*' D/*' 8*')6+*' 2',)*' (6/?;0C >6/ 8-,*-.' 62' *2, -*/ '2*8' 21?*2>/6,;-*% ()*' 2')' .' -*_;*2,/ '21, >*0á',' 86.' ?60*' 1' 2* / 2*2' 620')60' 6' - 25*' 6,,6>)*0',1',' / 9*',)*' " :' ,' 86.' 1' 6?=/*' 0 ?*2. 12.' .1',)6,',/ .' D*60' ? 5),' D*' *2+*/1=*0' 2' ,' 6.' 86.' ;.;6/ 6?125',)*' B*8.' 2',)*' 6>,' 1' =-6 *-% ()*' D (86.' =-1D6D/ 621,)*-' 26?*' 1-',)*' 2 "' 0*- +*0 -1?',)*' 4-**9') E T = =)62 ;.' M' X-*=-*.*2,.',)*' 1-1d6>' 1' ,)*')6-.**.' 6.' 0*2, >6/ 8 ,)',)*' ' '1-',)*' :',)*' /6,,*-' 6.' 92182',1';.' 86.' 6'>/1.*',;2>' 8 ,)1;,' ./**+*.% ()*' " +(M=77 :X' 86.' 6' 811/^ /*2' .) -,' 81-2' 6.' 62' ;20*-',;2 >% ()*' (86.' 6' ?62,/*' 1-' 1;,*-' 56-?*2,' M>1?=% 5/, 11,' 6 '12' <6,,' +' T <6-9' L +' S T ;9*' L' N' *,>%X% 4/1+*.' 1-'= X' 6-*' 6/.1' 21Ta ,>*0' I " 1' L+ 'ST' LL +' T' LL+ 'NX' 21,')18^ *+*-' 6.' 81-2' 1-'/;L;- 'D;,' 1-',)*'=-1,*>,12' 1')*')620.' 2' ?62;6/ /6D1-% & ,)'-*56-0',1' 1,)*-' 6-,>/*.' 1 '0-*..' .**' 6 % ' T %) ' 1' % % ' 1' ') ' 6 ' 1' (% 1' (1' A 1' 6/.1',)*' .*+*-6/ 81-0.' 6D1+*' ;.*0' 2',)*' % ! ()*' 0-*..*.' 1 ' 6-*' 1>>6. 126// '-*^ *--*0',1' 2',)*' D/*T,)6,'1',)*' *-. 62.' .'0*.>- D*0' 2' 62% 'K' 2',*-?.' 8)>)')6+*' D**2' +6- 1;./ ';2^ 0*-.,110' D;,' 8)>)' ?6 'D*' 0*2, *0' 8 ,)',)*' ..6,*^ ?*2,.' 1' :*-101,;.' M' R T + % /X' 2',)*' 1//18 25' ?622*-á M X' ()*' (T % % '>16,.JXb 1 %1 '1-' '8)>)'8*-*',)*'0 .,2>,+*' *6^ ,;-*' 2',)*' *-. 62' 6.' >1?=6-*0' 8 ,)',)*' :*D-*'8' 0-*..T MKX',) * A P 6, , T % %)1.*2JXb ,R1X-' 1 8) 'E ' 22*-',;2 >T MNX')*' " (% %)6,JXb6d d1' % ' ?4 '1-';=' =*-',;2 >'>1--*.=120 25',1',)*' '1',)*' :*D-*8.T M X',)*' "(% % 56-?*2,JXbLd6&7,1+ E) '1-'>/169'8)>)' 86.' 81-2'/9*',)*' '1+*-' 6//% 2'600, 12',1',)*.*',*-?.'8*')6+*' 21, >*' 1'6' -1D*' 1'.,6,*' 1' 2*' / 2*2' + +' + '% (8'.1'>6//*0' -1?',.' 6?=/*' 0 ?*2. 12.' M .,)% + ' X% ()*' .6?*' *L=-*.. 12' .' ;.*0' 2',)*')6/0**' 1-'% % ' ' 2' [*9% LL+ ' S%

()*'-* *-*2>*.',1'4-**9'1-' 1?62'0-*..'6-*' *8T,)*') % 'MK' <6>*' L 'N T <6,,'LL+ 'KQX' 86.' *.,)*-' 1 ' % 1 ',)*'I' ? / ,6- ' .>6-' 1',)*' *?62' .1/0 *- '1-',)*'4-**9' " ' ,.*/ '8)>)'86 ' 2,-1^ 0;>*0';20*-',)*' *?=*-1-.' M ? ,) .' ' ' '& !' .%+%)/6? .XT ,' 86.' *.=*> 6// '81-2' D '1 >* I.% ()*' ,-6+*// 25' +'I1 O -* 8 -* *--*0',1' D ' 6;/ MK' (?% +' NX' .'5*2*-6// ' 0*2, *0' 8 ,)',)*' 1?62'% ' 1 '8)>)' ,' ?6 'D*' 6' >1--;=, 12T ,)*' (6/? 0>6/ 8-,^ *-.')6+*' 6' . ? /6-' 26?*' 1-' Z7N 6X% ' . I)18*+*-'1,)*-8 .*' *L=/6 2*0' 6.' 6',-6+*// 25' >6.*' 1-' >6-- 25'>/1,)*.' 1-' D119.' M 12 D*6-*' $!' ' ' RRX% % ()*' >;.,1?.' 620' 6..1> 6, 12.' >122*>,*0I' 8 ,)' 0-*..' 6-*' 2;?*-1;.' 620' ?=1-,62,'?1../ '6-. 25' -1?' ,)*' =*>;/ 6-' 1-?' 620' ?10*' 1' 8*6- 25',)*' 1;,*-' 56-^ ?*2,.% ()*' ' 1-' 2.,62>*' >1;/0' D*' 6==/ *0',1' ?62 '=;-=1.*.' D*. 0*.' .' =-1=*-' ;.*' 6.' 6' +*.,?*2,T ,' 86.' .1?*, ?*.' ;.*0',1' >6-- '6' D;-0*2' M L10% L ' N T B;05% + ' K T -1+% LdL' X' 6.' ;,)' ;.*0')*-' .)68/ M ;,)' ' XT 1-',1' 8-6=';='62' 6-, >/*' M ' 6-6% LL 'RXT' 1-' 656 2' 6.' 62' % % ' .600/*' M <6,,' LL X% ,.' ?1.,' ?=1 ,62,';,.*')17+*+*-' 86.' 6' >1+*-/*,' 6,' 2 5),' M L10% LL 'K T ;,)' 'RT [*9% L+ 'QX' 8)*2>*',)*' 81-0' .'.1?*, ?*.',69*2' 1-'D*0C>/1,)*.' M ' 6? % L L ' NT ' 25.' ' XT ,)*' *01; 2' 6==/ *.') .' ',1' 6' . ? /6-'=;-=1.*' M *D;)-' ' % '=' SX% 2',) .'6>>1;2,'6'>-*0 ,1-'>1;/0'21,'-*,6A2' ,'6 ,*-'.;2^ .*,' M [*9% LL 'KST *;,% LL + ' K NT' >1?=6-*' B1D LL 'ST' LL + ' T ?1.' 'QX% ()*' >;.,1?' 1 '=6>25 56-?*2,.' 2' =682'6==*6-.',1')6+*' D**2'+*- '>1?7?12' .1' ?;>)'.1',)6,'1 N1% 1 '56-?*2,' M *;,% LL + ' K NXT,)*' 6>>;?;/6, 12' 1'.;>)'=/*05*.' .'-* *--*0',1' 2' :6D% 'S I " ' " "' " ' '" % *% % :' 8)*-*',)*' % % 1//18 25',)*' *=,' 620' ;/5% -*60.' N7 N H ' ,) >9' >/6 JXT',) .' >;.,1?' =-*+6 /*0' ',)*' ,?*' 1 '1;-' 1-0' 8)1' D 0.') .' 0 .>=/*.' 5 +*';=' ,)*' E - 0k ' 2' 8)>)',)*' ./*=;'6.' 8*// 6.',)*' O1-2 'M<6,,% ' X' ,',)*'=-*.*2,'06 ' ,' .' 21,';2^ ;.;6/,1'.* [*',)*' ' >1?=*2.6, 12I 1-' 62' 2A;- á 62' 2.,62>*' .' 5 +*2' 2' &1-,6D*, .' $ ' KRN% ()*' /11.*' /18 25' >)6-6>,*-' 1',)*' :*D-*8' -1D*.' 60?,,*0' 1' 6' +6- *, ' 1' .?D1/ >6/ 6>, 12.á -*20 25I',)*'?' 86.' *L=-*.. +*' 1' +6- 1;.' *?1, 12.' 6.' 5- *' M4*2% LLd+ 'KR' N T B1D' 'K T K' 6?% I KX' \.**' # B ' *6-' M ' 25.' LL ' RX' 20 526, 12' MK' 25.' +' T' L ' T <6,,' LL+ ' S X' 1-' 0*.=6 -' MB;05% L ' N T .,)% +' Xá' 5*2*-6// ',)*' 1;,*-' 56-?*2,'6/12*' 86.',);.' -*2,' M4*2% LLL+ ' N T B1D' 'K T ' KX' 1>>6. 126// ',/,*' 22*-' MK' 6?% d 'NKX' 620' 1>>6. 126// 'D1,)' M [-6' L 'NT' <6,,' LL+ ' S '>1?=6-*0' 8 ,)' <6-9' L +' SNX%)69 25',)*' 56-^ ?*2,.' 1-'.)69 25',)*' 0;.,' 1 ',)*?' 86.' 6' .52' 1 '-*^ 2;2>6, 12' M >,.' L 'SXT' .=-*60 25',)*?' D* 1-*' 6' =*-.12' 1 '/1 6/, '620' A1 1;.' -*>*=, 12' MK' 25.' L ' NT' <6,,' LL 'QXT' 8-6== 25',)*?' -1;20',)*')*60' 1 ' 68*' M ' 25.' L L ' NX' 1-' 1 '5- * 'MK' 6?% L+ 'N 'T .,)% + ' KT' B*-% L + 'N' XT' >6., 25',)*?' 1 '1 '*L> ,*?*2,' M >,.' LL 'KNXT' /6 25')1/0' 1',)*?' 1' .;==/ >6, 12' M ' 6?% d ('K T .6% 'ST' +' T' U*>)% + 'KNX% ()*'/*25,)'1',)*'0-*..'-*20*-*0' ,' 2>12+*2 *2,' 1-' 6>, +*' *L*-> .*T)*2>*',)*'1;,*-'56-?*2,.' 8*-*' *,)*-' /*,' 2',)*')1;.*D '6' =*-.12' 81-9 25' >/1.*' D 'M<6,,% I' LL +' QX' 1-' 8*-*',)-182' 1 '8)*2',)*' 1>>6. 12' 6-1.*' M<6-9' L ' T B1)2' L ' T >,.'+ ' QX' 1-' ',) .' 86.' 21,'=1.. D/*' 6.' 2',)*'>6.*' 1 '6' =*-.12',-6+*// 25',)*AJ 8*-*' 5 -0*0';=' M ' 25.' L+ ' ST' K' 25.' +' KRT' L T ' *,' ' NXT' 12' *2,*- 25' 6')1;.*',)*' ;==*-' 56-^ ?*2,' 86.' =-1D6D/ '/6 0' 6. 0*' 620'-*.;?*0' 12' 51 25' 1;,' M >,.' L 'QX% 2' 6' .,, 25'=1.,;-*',)*' 56-?*2,.' >12>*6/*0',)*' **,T,) .' 86.')*/0',1' D*' 62' 6>,' 1 '-*+^ *-*2>*' M .6% + T' KT' .**' 18,) .' 21,*X% ()*'=-1+*-D 6/ *L=-*.. 12' 2' ' 6?% LL+ 'KKT' ' 25.' L +' T' LL ' K T' K' 25.' L' Q'=-1D6D/ ' 18*.' .' 1- 5 2',1',)*' /*25,)' 1 ',)*' 56-?*2,.' 8)>)' ?60*' 621,)*-')6D ,' ?1-*' 26,;-6/ M>1?=% : *-10' 'N T d*21=)% %!

K T ? ? 62% < 6->*// ' LL ' SXT ,)*' *L=-*.. 12' .' +6- 1; ./ ' ;20*-.,110' ,1' ?*62' ,)*' ' 1-' ,)*' =' '1 ',)*' =*1=/*' M4*.*2%D(+ '=% NR T B6)2 'P/-C + &*f ' Q ' g K X% (1' >; ',)*' 56-?*2,.' .)1-,' 86.',)*' 5-1..*.,' 2.:/, ',)6, '6'B*8'>1;/0' -*>* +*' MK' 6?% L ' T' ,)*' 81-0' ,)*-*' ;.*0' .' =*>;/ 6-/ ' *L=-*.. +*' 1 ' ,)*' /*25,)' 1 ',)*' 56-?*2..X% (Z% -6 .*' ,)*' D1-0*-' 1-' .9 -,' 1 '6' 81?62 .' 0-*..' 86.'6' . ? /6-' 2.;/, ' ?=/ 25')*-' ;2>)6., , ' M .6% L/+ ' KT' B*-% L ' KK' K4T 6)% ' X% ()*' =;,, 25' 12' 62 ' 1 ' 1 ' 56-?*2,. ' 620' ,)*' *6.*' 8 ,)' 8)>)' ,' 86.' 6>>1?=/ .)*0' 6-*' -*_:*2,/ ' -*'C *--*0' ,1T ,)*' : *D-*8'*L=-*.. 12.' 1-',)*' -.,' 1 ',)*.*' 1=*-6, 12.' 6.' -*56-0.',)*' 1;,*-'-1D*' 6->' "E '% ' 12' 6 6VV' : N R V "E 620' / ,% ' ',)*' /6,,*-' ,)-**')6+ 25' .=*> 6/-*.*-*2>*' ,1',)*' 6?=/ ,;0*' 1 ',)*' -1D*.T 620' 1-',)*' .*>120' % " E' / ,% ' % 1'8) >)' 86.',)*' 26, ; -6/-*.:/,' 1' ,69 25' 1 '6' 8 0*' /11.*' 56-?*2,% ()*' *6.*' 1 ',)*.*' 1=*-6, 12.' 1-?.' ,)*' =1 2,' 1 ' >1?=6-.12' 2' .6% > ' KST B*-% L/ ' K% ?,)*' >6.*' 1 '>/1.*/E!C ,, 25'-1D*.' ,)*' *L=-*.. 12' .' " (1' / ,% ' 1'8) >)' .' 6=^ =/ *0', 1',)*' *=)10' M ' 6?% ' QT' K' 6?% + ' X', 1' .6>9>/1,)' MK' 6?% 'N T .6% LLL/ ' T B*-% + ' QXT ,)*' ;.*' 1 ',)*' ,*-?' ?6 ' //:.,-6,*' 4*2% ' '8)*-*' ,)*' 56-?*2,.' ;.*0' D ' 1;-' -.,' =6-*2,.' 6-*' >6//*0' 2 : A2 ' " +(M % % 6=-12.JX' =-1D6D/ ' ?*62 25' .;)' 6.' >1;/0' D*' 81;20' -1;20',)*' D10 % ()*' >12^ +*-.*', *-?' .' 2 -. '% + +(1' ' '1-' " 'M .6% ddd' T (.6% dd' KX% ()*' 2;?D*-' 1 '.;.' =1..*..*0' D ',)*' : *D-*8.' 86.' >12. 0*-6D/*T 6' . 25/*' .:,' >12. .,*0' 1 '62' ;20*-' 620' ;==*-' 56-?*2,' 620' 86.', *-?*0' M *=,% 1-1 VX % '>% %% ' :' B;05% L+ ' X% '&)*-*' ?1-*',)62' 12*' .' .=19*2'1 ',)*' .;' 6-*', *-?*0' -7 7D2' > O) % ' 1-1 d6,T % % >)625*.' 1 ' -6 ?*2,TJ' >1?=6-*' :1?*-' , ! + ' K R' % ') *=' 71,VN6X% ()*.*' 1-?*0' 2' 62> *2,', ?*.' 12*' 1 ',)*' ?1..' ;.;6/ =-*.*2,.' 6?125' - *2,6/.' M! : 6-?*-', 1' La)625*.' MK' 25.' + ' X' 8*-*',) ;.' =-*.*2,*0' 8) /*' 6.' ?62 '6.',) -, ' 8*-*' =-1=1.*0' 6.' 6' 865*-' MB;05% L + ' K RX% 3 ()*') 5)*.', ,19*2' 1-6 *>, 12' 86.', 1'=-*.*2,' ,)*' -1D*' 6>,;6// ' 81-2' D ',)*' 5 +*-' M ' 6?% L+ ' T' >1?=% : 1?*-' ! + ' KN T : 6-?*-' ' NQQX% ()*' =-*.^ *2,6, 12' 1 ' 6' -1D*' 2' ?62 ' 2.,62>*.' 6?1;2,*0', 1' 2^ .,6//6, 12' 1-' 2+*., , ;-*' M4*2% L/ ' KT .,)% + ' T' .6% LL 'K T >1?=' <1-*-'$ 'D '=% RNXT 12' ,)*' 1,)*-')620', 69 25' , '686 '6?1;2,*0', 1' 0 .? ..6/ -1?' 1 >*' MK' <6>>% + ' NQX% ()*' =-10;>, 12' 1 ',)*' D*., '-1D*' 86.' 6' ?6-9' 1 '.=*> 6/)121-' 2' 6')1;.*)1/0' M ;9*' d ' KKX% ()*' 2;?D*-' 1 '-1D*.',) ;.'-*>* +*0' 1-' 9*=;' 2' .,1-*' 1-' =-*.*2,.' 86.' +*- '/6-5*' 620' 1-1' 0' 12*' 1 ',)*' ?6 2' */*?*2,.' 1 '8*6/,)' 2',)*' 6.,' MB1D' LL+ (4T <6,, ' + ' RT B6?*.' + ' KX' .1',)6, ' " " T ' D*' 8*6/,) ' 620' =18*- ;/ M .6% ' S' XT 2' 5-620' 1>>6. 12.',)*' *2,*-,6 2*-' 1 *-*0' D*>1? 25' -1D*.', 1') .'5;*..' M (-*2>)' 12' '=% KN X% : *2>*' 2' /6-5*')1;.*)1/0.' 6' 86-0-1D*' 86.'-*_; -*0 71-',)*' -' =-*.*-+6, 12' MK' 25.' L ' KKT >1?=6-*' : 6-^ ?*-' 'NQKX' .;=*- 2,*20*0' D ' 6' .=*> 6/ 1 >*-' 26?*0' A.2' + % ' '" ' 'MK')-12% LLL + KKX% 1)*.' -*.*-+*0' 1-' .=*> 6/ 1>>6. 12.' 6-*', *-?*0' M % % >)A625*6D/*' .; ,.TJ' .6% // KKT' U*>)7' X' D*>6;.*/6 0' 6. 0*' 8)*2',)*' 1>>6. 12' 86.' =6., ()*' >1/1-' 1 ',)*' 56-?*2,I' 86.' 6.' 8*')6+*' 6/-*60 ' 1D.*-+*0' 5*2*-6// ' 8), *T)*2>*' 6'.=1,' 1-' .,6 2'-*60^ / ' .)18*0' ,..*/ ' M .6% L 'QT' B;0*' KNT *+% ' XT' -* *-*2>*' .' ?60*' 2' *+% L ' ' ._ ',1I' 6' 57**2 7)' 1-' -*00 .)' .=1,' 1 '6' /*=-1;.' >)6-6>,*-% B6)2' M7' " ! ' Q ' g N X>12>* +*.',) .', 1' D*' 21,',)*' -*.:/,' 1 '/*=-1. ' D;', ,)*' 0*=-*06, 12.' 1 '6' .?6// 2.*>,T D;,' >) / 25' > ' ' % ' =% RKX .,6,*.',) 6, '/*=-1. ' ,6 2,.' >/1,)*. 620' 600.' ,)*' .=1,.' 6-*' 6/,15*,)*-' 20*/ D/*' 620' .**?' -6,)*-', 1' .=-*60') 62' /*..*2' D ' 86.) 25J' M 21D*/' ' 2' % >%X% -*_;*2,' 86.) 25.' 620',)*' 6==/ >6^ , 12' 1 ',)*' ;//*-.' 6-' 8*-*' 2*>*..6 IE', 1' =-*.*-+*',)*' =;-, A71 ',)*' : *D-*8' 0-*..% ** (Cf < ()*' D;. 2*..' 1 '?69 25' >/1,)*.' 0*+1/+*0' ;=12' 81?^ *2' 2' 6' 6? / ' M -1+% LL ' KKT >,.' L ' NRXT / ,,/*' 6-,' 86.' -*_;-*0' 2' 8)6,' 81' ?6 ', *-?',)*', 6 /1-25' 0*^ =6-,?*2,'T ,)*' 56-?*2,.' >6?*' 1-,)' 1-',)*' ?1..' =6-,' -*60 ' ?60*' -1D ',)*' /11?' .1',) 6, ',)*' 8*6+*-' .;=^ =/62,*0',)*', 6 /1-% ()*' -*-*2>*.', 1', .*8 25'6-*',)*-*^ 1-*' *8 d ,)*', *-?' : :' %" (M4*2% A T B1D' L+ ' T >>/*.% ' T [*9% L ' QX 86.' 6==/ *0' D ',)*' /6,*-'B*8.', 1' '-6,)*-',)62' ?69 25'>/1,)*.% ()*' : *D-*8.' 8*-*' /6D/*', 1',)*' >)6-5*' 1 '*L,-6+6^ 562>*' 2' 0-*..T .6 6)' 2' =6-, >;/6-' M ' S ._%X 0 /;,*.' 12',)*' 2;?*-1;.' -1D*.' 620' 1-26?*2,.' 81-2' D ',)1' 81?*2' 1 ') .' 06 % ()*' .6?*.:DA*>,' .'-* *--*0', 1' 2' B*-% + ' N T [*9% L+ ' T U*=)% ' Q ' 620' >>/;.% L ' 620' 2' /6,*-'65*' (?% ' RT ' *,' 'N% ' ? ,)' .% ' 1?=% ! 1' ! 1' # 1' 6 > 1' $ '*,> '2<' # . ' **' A -*8 ' 2+=>' %<%' 62' 25/ .)' <*,)10 .,' /1>6/ =-*6>)*-' 620' ?*,6=) .>6/ 8-,*-' 86.' D1-2' <6->)' N' S ' 2',)*' .;D;-/XQ' 1 ', % ;.,/*' 1 '6' =11-' 6? / ' 620' /*6-2*0',)*' .)1*?69*-.' ,-60*% 2' Q ' ;20*-',)*' =-*6>) 25' 1 ' 06?' /6-9*')*' D*>6?*' 6' /1>6/ =-*6>)*-% -*8')60' -*>* +*0' 21' *6-/ ' 2.,-;>, 12');',)*' =6.. 12' 1-' -*60^ 25' 86.' 26,;-6/ ,1') ?' 620')*' *6-/ ' D*>6?*') ?.*/' 62' 6;.,)1-% ;') .' 56 2.' -1?' / ,*-6,;-*' 0 0' 21,' .;^ >* 1-' D .' ?6 2,*262>*', // Q R' 8)*2')* 26// '_;,^ ,*0',)*' .)1*CD*2>)% 2' Q R' D* 86.' 2+,*0', 1' +*-^ =11/ ,1', 69*',)*' ?6265*?*2,' 1 ',)*' % ' 9 / ' =;D/.)*0' DA7',)*' 6L,12.% : *' 6>>*=.,*0' I ,' 620' 2') .')D20.',)*' *2,*-=-.*' 86.' +*-' '.;>>*.. ;/% <-% -*8'>12, 2:*0',1'*0 ',),)*' ?656[2*'6 ,*-.' -*?1+6/ ,1' 12012 ';=', 1',)*' *6-' 1 '/ .' 0*6,)% 2' QK ')*' -*>* +*0',)*' 0*5-**' 1 ' %<% -1?' <6-.>)6/ B1//*5*' 7*-0**2% : .' / ,*-6- '/6D1-.' &*-*', *-' 6D;2062,' 6=6-,' -1?',)*' L/+'T KKX 620' *+*2', *2 ,/*2' La)625*.' MK' 25.' + ' X' 8*-*',) ;.' =-*.*2,*0' 8) /*' 6.' ?62 '6.',) -, ' 8*-*' =-1=1.*0' 6.' 6' 865*-' MB;05% L + ' K RX% 3 ()*') 5)*.', ,19*2' 1-6 *>, 12' 86.', 1'=-*.*2,' ,)*' -1D*' 6>,;6// ' 81-2' D ',)*' 5 +*-' M ' 6?% L+ ' T' >1?=% : 1?*-' ! + ' KN T : 6-?*-' ' NQQX% ()*' =-*.^ *2,6, 12' 1 ' 6' -1D*' 2' ?62 ' 2.,62>*.' 6?1;2,*0', 1' 2^ .,6//6, 12' 1-' 2+*., , ;-*' M4*2% L/ ' KT .,)% + ' T' .6% LL 'K T >1?=' <1-*-'$ 'D '=% RNXT 12' ,)*' 1,)*-')620', 69 25' , '686 '6?1;2,*0', 1' 0 .? ..6/ -1?' 1 >*' MK' <6>>% + ' NQX% ()*' =-10;>, 12' 1 ',)*' D*., '-1D*' 86.' 6' ?6-9' 1 '.=*> 6/)121-' 2' 6')1;.*)1/0' M ;9*' d ' KKX% ()*' 2;?D*-' 1 '-1D*.',) ;.'-*>* +*0' 1-' 9*=;' 2' .,1-*' 1-' =-*.*2,.' 86.' +*- '/6-5*' 620' 1-1' 0' 12*' 1 ',)*' ?6 2' */*?*2,.' 1 '8*6/,)' 2',)*' 6.,' MB1D' LL+ (4T <6,, ' + ' RT B6?*.' + ' KX' .1',)6, ' " " T ' D*' 8*6/,) ' 620' =18*- ;/ M .6% ' S' XT 2' 5-620' 1>>6. 12.',)*' *2,*-,6 2*-' 1 *-*0' D*>1? 25' -1D*.', 1') .'5;*..' M (-*2>)' 12' '=% KN X% : *2>*' 2' /6-5*')1;.*)1/0.' 6' 86-0-1D*' 86.'-*_; -*0 71-',)*' -' =-*.*-+6, 12' MK' 25.' L ' KKT >1?=6-*' : 6-^ ?*-' 'NQKX' .;=*- 2,*20*0' D ' 6' .=*> 6/ 1 >*-' 26?*0' A.2' + % ' '" ' 'MK')-12% LLL + KKX% 1)*.' -*.*-+*0' 1-' .=*> 6/ 1>>6. 12.' 6-*', *-?*0' M % % >)A625*6D/*' .; ,.TJ' .6% // KKT' U*>)7' X' D*>6;.*/6 0' 6. 0*' 8)*2',)*' 1>>6. 12' 86.' =6., ()*' >1/1-' 1 ',)*' 56-?*2,I' 86.' 6.' 8*')6+*' 6/-*60 ' 1D.*-+*0' 5*2*-6// ' 8), *T)*2>*' 6'.=1,' 1-' .,6 2'-*60^ / ' .)18*0' ,..*/ ' M .6% L 'QT' B;0*' KNT *+% ' XT' -* *-*2>*' .' ?60*' 2' *+% L ' ' ._ ',1I' 6' 57**2 7)' 1-' -*00 .)' .=1,' 1 '6' /*=-1;.' >)6-6>,*-% B6)2' M7' " ! ' Q ' g N X>12>* +*.',) .', 1' D*' 21,',)*' -*.:/,' 1 '/*=-1. ' D;', ,)*' 0*=-*06, 12.' 1 '6' .?6// 2.*>,T D;,' >) / 25' > ' ' % ' =% RKX .,6,*.',) 6, '/*=-1. ' ,6 2,.' >/1,)*. 620' 600.' ,)*' .=1,.' 6-*' 6/,15*,)*-' 20*/ D/*' 620' .**?' -6,)*-', 1' .=-*60') 62' /*..*2' D ' 86.) 25J' M 21D*/' ' 2' % >%X% -*_;*2,' 86.) 25.' 620',)*' 6==/ >6^ , 12' 1 ',)*' ;//*-.' 6-' 8*-*' 2*>*..6 IE', 1' =-*.*-+*',)*' =;-, A71 ',)*' : *D-*8' 0-*..% ** (Cf < ()*' D;. 2*..' 1 '?69 25' >/1,)*.' 0*+1/+*0' ;=12' 81?^ *2' 2' 6' 6? / ' M -1+% LL ' KKT >,.' L ' NRXT / ,,/*' 6-,' 86.' -*_;-*0' 2' 8)6,' 81' ?6 ', *-?',)*', 6 /1-25' 0*^ =6-,?*2,'T ,)*' 56-?*2,.' >6?*' 1-,)' 1-',)*' ?1..' =6-,' -*60 ' ?60*' -1D ',)*' /11?' .1',) 6, ',)*' 8*6+*-' .;=^ =/62,*0',)*', 6 /1-% ()*' -*-*2>*.', 1', .*8 25'6-*',)*-*^ 1-*' *8 d ,)*', *-?' : :' %" (M4*2% A T B1D' L+ ' T >>/*.% ' T [*9% L ' QX 86.' 6==/ *0' D ',)*' /6,*-'B*8.', 1' '-6,)*-',)62' ?69 25'>/1,)*.% ()*' : *D-*8.' 8*-*' /6D/*', 1',)*' >)6-5*' 1 '*L,-6+6^ 562>*' 2' 0-*..T .6 6)' 2' =6-, >;/6-' M ' S ._%X 0 /;,*.' 12',)*' 2;?*-1;.' -1D*.' 620' 1-26?*2,.' 81-2' D ',)1' 81?*2' 1 ') .' 06 % ()*' .6?*.:DA*>,' .'-* *--*0', 1' 2' B*-% + ' N T [*9% L+ ' T U*=)% ' Q ' 620' >>/;.% L ' 620' 2' /6,*-'65*' (?% ' RT ' *,' 'N% ' ? ,)' .% ' 1?=% ! 1' ! 1' # 1' 6 > 1' $ '*,> '2<' # . ' **' A -*8 ' 2+=>' %<%' 62' 25/ .)' <*,)10 .,' /1>6/ =-*6>)*-' 620' ?*,6=) .>6/ 8-,*-' 86.' D1-2' <6->)' N' S ' 2',)*' .;D;-/XQ' 1 ', % ;.,/*' 1 '6' =11-' 6? / ' 620' /*6-2*0',)*' .)1*?69*-.' ,-60*% 2' Q ' ;20*-',)*' =-*6>) 25' 1 ' 06?' /6-9*')*' D*>6?*' 6' /1>6/ =-*6>)*-% -*8')60' -*>* +*0' 21' *6-/ ' 2.,-;>, 12');',)*' =6.. 12' 1-' -*60^ 25' 86.' 26,;-6/ ,1') ?' 620')*' *6-/ ' D*>6?*') ?.*/' 62' 6;.,)1-% ;') .' 56 2.' -1?' / ,*-6,;-*' 0 0' 21,' .;^ >* 1-' D .' ?6 2,*262>*', // Q R' 8)*2')* 26// '_;,^ ,*0',)*' .)1*CD*2>)% 2' Q R' D* 86.' 2+,*0', 1' +*-^ =11/ ,1', 69*',)*' ?6265*?*2,' 1 ',)*' % ' 9 / ' =;D/.)*0' DA7',)*' 6L,12.% : *' 6>>*=.,*0' I ,' 620' 2') .')D20.',)*' *2,*-=-.*' 86.' +*-' '.;>>*.. ;/% <-% -*8'>12, 2:*0',1'*0 ',),)*' ?656[2*'6 ,*-.' -*?1+6/ ,1' 12012 ';=', 1',)*' *6-' 1 '/ .' 0*6,)% 2' QK ')*' -*>* +*0',)*' 0*5-**' 1 ' %<% -1?' <6-.>)6/ B1//*5*' 7*-0**2% : .' / ,*-6- '/6D1-.' &*-*', *-' 6D;2062,' 6=6-,' -1?',)*' L/+'T KKX 620' *+*2', *2 ,/*2' La)625*.' MK' 25.' + ' X' 8*-*',) ;.' =-*.*2,*0' 8) /*' 6.' ?62 '6.',) -, ' 8*-*' =-1=1.*0' 6.' 6' 865*-' MB;05% L + ' K RX% 3 ()*') 5)*.', ,19*2' 1-6 *>, 12' 86.', 1'=-*.*2,' ,)*' -1D*' 6>,;6// ' 81-2' D ',)*' 5 +*-' M ' 6?% L+ ' T' >1?=% : 1?*-' ! + ' KN T : 6-?*-' ' NQQX% ()*' =-*.^ *2,6, 12' 1 ' 6' -1D*' 2' ?62 ' 2.,62>*.' 6?1;2,*0', 1' 2^ .,6//6, 12' 1-' 2+*., , ;-*' M4*2% L/ ' KT .,)% + ' T' .6% LL 'K T >1?=' <1-*-'$ 'D '=% RNXT 12' ,)*' 1,)*-')620', 69 25' , '686 '6?1;2,*0', 1' 0 .? ..6/ -1?' 1 >*' MK' <6>>% + ' NQX% ()*' =-10;>, 12' 1 ',)*' D*., '-1D*' 86.' 6' ?6-9' 1 '.=*> 6/)121-' 2' 6')1;.*)1/0' M ;9*' d ' KKX% ()*' 2;?D*-' 1 '-1D*.',) ;.'-*>* +*0' 1-' 9*=;' 2' .,1-*' 1-' =-*.*2,.' 86.' +*- '/6-5*' 620' 1-1' 0' 12*' 1 ',)*' ?6 2' */*?*2,.' 1 '8*6/,)' 2',)*' 6.,' MB1D' LL+ (4T <6,, ' + ' RT B6?*.' + ' KX' .1',)6, ' " " T ' D*' 8*6/,) ' 620' =18*- ;/ M .6% ' S' XT 2' 5-620' 1>>6. 12.',)*' *2,*-,6 2*-' 1 *-*0' D*>1? 25' -1D*.', 1') .'5;*..' M (-*2>)' 12' '=% KN X% : *2>*' 2' /6-5*')1;.*)1/0.' 6' 86-0-1D*' 86.'-*_; -*0 71-',)*' -' =-*.*-+6, 12' MK' 25.' L ' KKT >1?=6-*' : 6-^ ?*-' 'NQKX' .;=*- 2,*20*0' D ' 6' .=*> 6/ 1 >*-' 26?*0' A.2' + % ' '" ' 'MK')-12% LLL + KKX% 1)*.' -*.*-+*0' 1-' .=*> 6/ 1>>6. 12.' 6-*', *-?*0' M % % >)A625*6D/*' .; ,.TJ' .6% // KKT' U*>)7' X' D*>6;.*/6 0' 6. 0*' 8)*2',)*' 1>>6. 12' 86.' =6., ()*' >1/1-' 1 ',)*' 56-?*2,I' 86.' 6.' 8*')6+*' 6/-*60 ' 1D.*-+*0' 5*2*-6// ' 8), *T)*2>*' 6'.=1,' 1-' .,6 2'-*60^ / ' .)18*0' ,..*/ ' M .6% L 'QT' B;0*' KNT *+% ' XT' -* *-*2>*' .' ?60*' 2' *+% L ' ' ._ ',1I' 6' 57**2 7)' 1-' -*00 .)' .=1,' 1 '6' /*=-1;.' >)6-6>,*-% B6)2' M7' " ! ' Q ' g N X>12>* +*.',) .', 1' D*' 21,',)*' -*.:/,' 1 '/*=-1. ' D;', ,)*' 0*=-*06, 12.' 1 '6' .?6// 2.*>,T D;,' >) / 25' > ' ' % ' =% RKX .,6,*.',) 6, '/*=-1. ' ,6 2,.' >/1,)*.

6,',)*'2*8/ C*.,6D/ .)*0' ;2 +*-. ,E'1 ' //8625*2% 2' Q ')*' 86.' ,-62. *--*0 ' 8 ,)' ,)*' 8)1/*' ,)*1/15 >6/ 6>;/, ',1' ,)*' $2 +*-. , ' 1 ' (;D 25*2 ' 6,' 8) >)')*' /*>,; -*0' 12' 015?6, >' ,)*1/15 ') .,1- ' 1 ' 01>,- 2*. ' 6=1/15*, >. ' 620' ,)*1/15 >6/ *2> >/1=6AO 6'M -1?' QNQ 12/ ' 12' ,)*', 81' /6.,-26?*0' D-62>)*.X% : *' -*. 52*0' 2' Q S' 620' 0 *0' 6,' (;D 25*2' 12' *D-;6-A' R' Q N% -* ' 86.' 12*' 1 ',)*' 6D/*..',>)1/6-.' 1 ' 1?62' 6,)1/ >' 4*-?62E% : *' .'*.=*> 6// ' 92182' 1-') .' 5-*6,' 81-9' 12' =1/15*, >.' I " " '&% +1' <6 2[' QNQC '3 N' +1/.%X% : *' 6/.1' 8-1,*' 62' 2,-10 ;>, 12',1',)*' ,;0 ' 1 ' ()*1/15 ' I6 ' ' '$ ' -" ' (;D 25% Q RX' *.*6->)*.' 12',)*' =1.,1/ >6/ 12.. ,;^ , 12.' 620' 6212.'M2 " ' ' ' 2 ' ' '&% 1' (;D 25*2' QNKX' 620' .*+*-6/ 1,)*-'81-9.% : *'*.,6D/ .)*0 '8 ,)' 4-6,['M_%'+%X' 620' : -C .>)*-'M_%'+%X' 2' Q R',)*' -" " ' " 1' 8) >)' .' ., //'M QSQX' 12*' 1 ',)*' 6D/*.,'A1 ;-26/.' 1 '.> *2^ , >',)*1/15 '=;D/ .)*0' 2',)*' 1?62' 6,)1/ >') ;->)% : *' 6/.1' >12,- D;,*0' 6' /6-5*' 2;?D*-' 1 '6-, >/*.' ,1',)*') " 1 + ' 1 ' & *,[*-' 620' & */,*% **' : * */*' 2' & *,[*-';% & */,*') "!A !' L 'N %

- *01 ' 1-' - 01*2. ' (' 6' 1?62' 6,)1/ >' 0 + 2*' 86.' D1-2' 6,' (;-2)12,' 2' -6D62,% : *' .;'0^ *0' 6,',)*' $2 +*-. , ' 1 ' 1;+6 2 ' 8)*-*')*' 86.' 6' =;^ = /' 1 ' 0- 62' /1-*2,' 6 ,*-86-0.' 0- 62' ' 620' D*^ >6?*' =-1 *..1-' 1 ',)*1/15 ',)*=*% 2',)*' >12,-1+*-. ' D*,8**2',)*' ;,)*-62.' 620' 1?62' 6,)1/ >.')*' ,119' 62' 6>, +*' =6-,I' 620' 6>>1-0 25',1',)*',*., ?12 ' 1 ' -6.?;.' 2' 12*' 1 ') .' /*,,*-.' 0 .=;,*0' D1,)' >11// ' 620' /*6-2*0/ % : *' 0 *0' 6,' 1;+6 2' 2' N % : *' 8-1,*' !' DN' ' $ % ' ' ' " ' 6 2=' F S ' !' ' ' ? ' ' ' & S T ' ' ' 1' ' '& = ' S T ' ' % =' ' ' % ' ? ' # :' 620' ' ' ' " ! ' <1-*- '> ,*0' D ' : 119' 6 !' ; ! + ' $ % - *..*2 ' ' 86.' D1-2' 2',)*' *6-' SQ ' 6,' ,,6-0 ' 86.' .;>>*.. +*/ ' .*,,/*0' 6.' =6.,1-' 6,' <6*.C ,- >/ ,' 620' $,-*>),' 620' 86.' 2' ' 26;5;-6,*0' 6.' =-1 *..1-' 1 ',)*1/15E' 2',)*' $2 +*-. , ' 1 ' 4-12 25*2% ( ) .' =1. , 12' I)*')*/0' , /' -*/*6.*0' D ' 0*6,) ' 1+I% Q% : *' 86.' 6' ?62' 1 ' . 2>*-*' = *, ' 620' *? 2*2,' /*6-2 25 ' 620' 86.' 6-0*2,/ ' 6,,6>)*0' ,1' ,)*' 01>,- 2*.' 1 ',)*' / * 1-?*0');->)% : *' 86.' 8 ,)6/' 6' ?62' 1 ' ?*/62>)1/ >',*?=*-6?*2,' 620' 1 '62' 2,1/*-62,' .= - ,% : .' [*6/ 1-',-;,)' ' 8)6,')*' -*56-0*0' 6.' .;>)' 2^ +1/+*0') ?' 2' ?62 ' ;2=/*6.62,' >12,-1+*-. *.' 620' ,)6, ',11' 8 ,)' .1?*' 1 ',)*' ?1.,'*? 2*2,'0 + 2*.' 1 ') .' 06 ' 8 ,)' & ,,>) ;.') .' >1//*65;*' 620' 6.' 6' >12.*^ _;*2>*' 1 ',)6,' 8 ,)' (6>1' +62' 0*2' : 12*-,' =-1 *..1-' 6,' * 0*2' D1,)' 1 ' 8)*?')*' 6>>;.*0' 1 ' = 21[.?7' 8 ,)' 6?=*' 620' =-1 *..1-' 0*' 1 ' $,-*>),' 8)1?')*' 6>>;.*0' 1 ' 1>// .?' 1-')*,*-101L' + *8.' -*.=*>, 25' ,)*' *,*-26/ 5*2*-6, 12' 1 ',)*' 12' 620' ,)*' =-1>*.. 12' 1 ',)*' : 1/ ' = -,' -1?',)*' 6,)*-' 620',)*' 12',)*' >)6-5*' D* 25' 1;20*0' ;=12' 6?=*.' 2,*-=-*,6, 12' 1 ' B1)2' KS' 620' L+' KST' 8 ,)' ,)*' >*/*D-6,*0' *2*?6' 8)1?')*' >)6-5*0' 8 ,)' -? 2 62 .?' 620' 8 ,)' ,)*' /*6-2*0' >);/,*2.' D*>6;.*')*' *20*6+1-*0' ,1' */;>^ 06,*',)*' : *D-*8' D ',)*' 6 0' 1',)*' 9 20-*0' 0 6/*>,.' *.=*> 6// ' D ',)6,'1',)*' -6D >% ()*.*'>12,-1+*-. *.' 8*-*' 6// >6-- *0' 12' 2' 6, 2 ' 620' 8*-*' 12' D1,)' .0*.' >)6-6>,*- [*0' D ',)*' 6>- ?12 ' >1?7?12',1',)*1/15 >6/ 0 .=;,*.' 2',)1.*' 06 .% : .' 8- , 25.' 6-*' +*- ' +1/;^ ? 21;.' >) * / ' 1 '6' =1/*? >' >)6-6>,*-' 620' ?1../ ' 2' 6, 2% : .' ,-*6, .*' 12' 6 1' ' "' " 'N 1' .' 8- ,,*2' 2' ;,>)%

- 29'M,)*'+*-D' .' *L=-*..*0' 2' : *D% D ',)*' >15^ 26,*',*-?.' " + "(' 620' " " +(:' 4-**9' - *8% ()*' 0- 29.' 1 ',)*' : *D-*8.' 8*-*a% % ' M_' %XT' K% ' M_%'+%XT' N% & ' 4 ' M N 7 ' =6 ' .,-125' 0- 29J' \.**' ' ;9' % N ' M_%' %X%' .' 0- 29 25' ;,*2. /.' ,)*' ?60*' ;.*' 1 '+6- 1;.' 1-?.' 1 '+*..*/.a ',)*' %' M_%'+%X ',)*' ?D.,' 5*2*-6/ ,*-?' M XT' ,)*' ' M KK' ' + 8' 1- ' D6. 2J' M_I'+%X' -1?' 8)>)',)*' /; 0' 86.' =1;-*0' 2,1' ,)*' >)6/ >*' " % WI' >1?=%B*-% LLL+' X' 620 D18/M */, ' ? L 25C>;=' X'T N',)*' 'M %2.7A' '>-;.*JX' 1-' =,>)*-T' 620' ',)*' 'M2%K=' % 8' 1-' .)6//18' / D6, 12' 0 .)' M_%'+%X' : 1-2.'C8*-* =-1D6D/ ' ;.*0' 2',)*' *6-/*..', ?*.% **' + 8 # ()*',*-?' %0- 29J' .' -* ;*2,/ ';.*0' 5;-6, +*/ ' 2' ,)*' >-=,;-*.' M.** ()1?.12' ' ' ; +1' ' RSX% ()*' 8 .*' ?62' *L)1-,.') .' 0 .> =/*' M -1+%'+' SX' ,1' 0- 29' 86,*-' 1;,' 1 ') .' 182' >=,*-2TJ',1' >12,*2,') ?.*/' 8 ,)' ,)*' /68 ;/*=/*6.;-*.' 1 ' ?6-- 65*' 8 ,)^ 1;,' 8620*- 25' 2') .' 6 *>, 12.% (1' *6,' 620' 0- 29' .' ;.*0' 2' >>/*.%'+' Q',1' . 52 '=*1=/*.' *2A1 25',)*?^ .*/+*.'T' 620' 2',)*' 41.=*/' 1-'/ + 25' 2' 6'>1?? 12' 620' 1-0 26- ' ?622*-'M<6,,' L ' QX' ()*'6=1.,/*.' .6 ',)*' 6,*' 620' 0-629' 8 ,)')- .,' 6 ,*-') .' -*. ;--*>, 12',)6,' .',)*' >12+*-.*0' 620' / +*0' 2',)*' -' ;.;6/ ?622*-' -**/ ' 8 ,)') ?' M >,.' L ' X% B*-*?6)' M ' QX -*^ =-16>)*.',)*' B*8.' 7 ,)')6+ 25')60' -*>1;-.*',1' 5 =,' 1-' ?;00 ' 86,*-',1' 0- 29' 620',1' .. -6',1' 0- 29',)*' 86,*-'1',)*-'- +*-T',)6,' .',)*' 86,*-'1',)*' /*' 620' 1',)*' ;=)-6,*.' ?*62 25' .1/>, 25',)*' 6.. .,62>*' 1',)1.*'=*1=/*% - ' +' ' . 52 *.',1' D*' .6, 6,*0' 8,)' ./6;5),*-' M [*9% LLL L' QXT ;-' 1-0' >1?^ ?620.' ;.',1' 0- 29').' D/110' 620',1' *6,') .' /*.)' MB1)2' + X& 8*' *6,' 620' 0- 29' D1,)' 5;-6, +*/ ' 2',)*' ;>)6^ -.,% (1' 0- 29' 86,*-' D ' ?*6.;-*' M [*9% f' X' 620',1' D; ' 86,*-',1' 0- 29' M 6?% +' X' 0*21,*' *L$%?*' .>6-> , ' 620' 0*.1/6, 12% 2' 6.,C06 .' ,' *' B*8.' 6D^ .,6 2*0' -1?' 0- 29 2570;- 25',)*' 8)1/*' 06 ' PI*/*+ 25' ,',1' D*' *_;6// ' 1 ',)*' *..*2>*' 1 '6' 6.,' 71' .;*-',) -.,' 6.',1' .;/*-');25*-% **'<

' (# '.,620.' 2',)*' % *6.',)*'-*20*-^ 25' 1 ',)*' : *D% 81-0' : ' " + (M4-.*> [*0') 2' ;9*' ' XI78)>)' 2' ,.'*, ?1/15 >6/ .*2.*' 6==/*.',1' 62' D*+*-65*',)6,')60' ' ;6/ , *.a ,' .'5*2^ *-6// ' 1;20' >122*>,*0' 8 ,)' 8 2*-' *,)*-' 6.' 62' *L^)6;., +*' *L=-*.. 12' 1-' 6// 1,)*-' /_;1-.' M*' 5% B;05% L ' T ;9*' ' X' 1-' 6.'=6-6//*/ ,1' ,'=6-, >;/6-/ ' 2' =1*, >6/ =6..65*.' M*% 5% .6% +' T < >% ' XT 2' ;?% LL+ ' ' 620' .6% L L' K')18*+*-' ,' .,620.' X' ,.*/ ' 620' ?;.,' D*' -*56-0*0' 6.' 2>/;0 25' 8 2*% ()*' D/*' ,.*/ ',)-18./',,/*'/5),' ;=12',)*' 26,;-*' 1 ',)*' ? L,;-*.'0*.>- D*0' ;20*-',) .',*-?% & *' ?6 ' 2^ *-' -1?' 62,' + ' K',)6,',)*' : *D-*8.' 8*-*' 2',)*')6D ,'1 '*L=-*.. 25',)*'A;>*' 1 '1,)*-' -;,.'D*. 0*.',)*' 5-6=*' 1-',)*' =;-=1.*' 1 '?69 25' 8 2*'a ,)*' =1?*5-62^ 6,*' 8)>)' .',)*-*' 21, >*0' 86.' =-1D6D/ ' 12*' 1;,' 1 ' ?62 ' -;,.' .1';.*0% 2' .6% LL +' R ,)*-*' ?6A7D*' 6' -* *-*2>*',1',)*' ' 1 '.1?*9 20' 1 '.,-125' 0- 29% 2' ;?% LL+ ' ' +' .'>/*6-/A' ;.*0' *_;+^ 6/*2,',1' 8 2*' 8)>)' 86.' 1-0*-*0' 2' L10% LL L' % & ,)' -*56-0',1',)*' 6==/>6, 12' 1 ',)*' ,*-?')'/6,*-' ,?*.' 8*')6+*',)*' *L=/>;',.6,*?*2,' 1 'B*-1?*' I;%!' ' 7 % !81' 6.' 8*//' 6.' 1,)*-' .1;->*.' 1 ' 2 1-?6, 12' -1?' 8)>)' 8*' ?6 '.,6,*',)6,',)*' 1//18 25' D*+*-65*.' 8*-*' 92182',1',)*' B*8.a % ; 1' 8)>)' 86./6-5*/A' >12.;?*0' 2' 5E=,';20*-',)*' 26?*1'/ " 'M:*-10' ' T 10% >% 'N X' 620' 86.',)*2>*' 2,-10;>*0' 2,1' 6/>.,2k M< .)26' " ' ' X% ,'86.' ?60*' 1 'D6-^ /* T >*-,6 2')*-D.' .;>)' 6.' /;=2' 620' .9 --*,' 8*-*' ;.*0' 6.' .;D.,;,*.' 1-')1=.' M 1/;?% L' RRb8% ()*' / +' >' ' 5A=,.' ?60*' 1 'D6-/* CD-*60' >-;?^ D/*0' 2' 86,*-' 620' /*,';2,/',)6.' *-?*2,*0' M 62*' ' N Xa',)*' -6D 62.' ? L' ,' 8,)' .=>*.' M ;-9)6-0,.' & 1' K NX' 6.' 0*.>-/X*0' 2' .6% 'KK% ()*' < .)26' IR' >%X' .** ?.',1' 6==/ ',)*',*-?' + + ' ?1-*' *.=*> 6// ',1' 6' <*0 62' 0- 29 '=-1D6D/ '6' 9 20' 1 'D**-' ?60*' 2',)*' .6?*' ?622*-' 6.',)*' ?10*-2' / ":',)*' 01?,*' " 1' $' 21, >*0' 2',)*' =/6>*' 86.' =-1D6D/E7' 621,)*-' 9 20' 1 'D**-' 620' ?6 ')6+*')*/0',)*' .6?*' =1. , 12' 6?125',)*' B*8.',)6,'D ,,*-'D**-'01*.' 6?125'1;-.*/+*.% K% (' 8)>)' .'21, >*0' 2',)*' < .)26' I- ! L 'KX' 6.' %% = ! N# = ' 1 '8)>)',)*-*' 8*-*',81' .1-,.' 12*' / 9*',)*' % O' 1 ',)*' 4-**9.' 8)>)' .'21C

ticed in the Mishna (*Shabb.* xx, 2; *Terum.* xi, 1) under a Hebraized form of that name, consisting of a mixture of wine, honey, and pepper; the other a decoction of the juice of the grape, termed *debush* (honey) by the Hebrews, and *dibs* by the modern Syrians, resembling the ἕψημα of the Greeks and the *defrutum* of the Romans, and similarly used, being mixed either with wine, milk, or water. 4. *Date-wine*, which was also manufactured in Egypt (οἶνος φοινικίτης, Herod. ii, 86; iii, 20). It was made by mashing the fruit in water in certain proportions (Plin. xiv, 19, 3). A similar method is still used in Arabia, except that the fruit is not mashed (Burckhardt's *Arabia*, ii, 264): the palm wine of modern Egypt is the sap of the tree itself, obtained by making an incision into its heart (Wilkinson, ii, 174). 5. Various other fruits and vegetables are enumerated by Pliny (xiv, 19) as supplying materials for *factitious* or home-made wine, such as figs, millet, the carob fruit, etc. It is not improbable that the Hebrews applied *raisins* to this purpose in the simple manner followed by the Arabians (Burckhardt, ii, 377), viz., by putting them in jars of water and burying them in the ground until fermentation takes place. —Smith, s. v. See WINE.

DRINK-OFFERING (נֶסֶךְ, *ne'sek*, or נְסִיךְ, *nasik'*; σπονδή, compare σπένδεσθαι, Phil. ii, 17). One form of this consisted, according to the ritual law, of wine (Num. xv, 5; Hos. ix, 4; Sirach i, 15 [17]; compare Curt. vii, 8, 18; Pliny, xiv, 14; *Iliad*, i, 463; x, 579; *Odys.* xii, 362; on the best sorts of wine for this purpose, see the Mishna, *Menach.* viii, 6 sq.), which, according to Josephus (*Ant.* iii, 9, 4), was poured around the altar (περὶ τὸν βωμόν, i. e. the burnt altar, Exod. xxx, 9), and not, as the Jews understand it (Mishna, *Succah*, iv, 9), in a channel or tube of it. Drink-offerings were commonly joined with meat-offerings (Num. vi, 15, 17; 2 Kings xvi, 13; Joel i, 9, 13; ii, 14), an addition to the burnt and thank offerings (not the sin and trespass offering), which consisted of quadrupeds (Num. vi, 17; xv, 5, 10; 1 Chron. xxix, 21; 2 Chron. xxix, 35), and were, like these, presented, sometimes by private persons and sometimes in the name of the people, daily (Exod. xxix, 40; Num. xxviii, 7), on the Sabbath (Num. xxviii, 9), and on feast-days (Num. xxviii, 14; xxix, 6, 16, 24), in such proportion that one lamb was reckoned to require one fourth of a hin of wine, one ram a third of a hin, and one bullock a half hin (Num. xv, 5 sq.; xxviii, 7, 14). In the (second) Temple liquors were kept ready for drink-offerings (Joseph. *War*, x, 13, 6), and were dispensed (Mishna, *Shekal.* v, 1, 3 and 4) by the præfect of libations (עַל הַנְּסָכִים). The Israelites frequently devoted drink-offerings also to foreign deities (Isa. lvii, 6; lxv, 11; Jer. vii, 18; xix, 13; xliv, 17; Ezek. xx, 28), as throughout antiquity libations of wine were made to heathen gods (see Smith's *Dict. of Class. Antiq.* s. v. Sacrificium, p. 846). On the water-libation at the festival of booths, see TABERNACLES, FEAST OF. Libations of water occur in individual cases even prior to the exile (2 Sam. xxiii, 16; 1 Sam. vii, 6). On the other hand, Elijah poured water on the altar (1 Kings xviii, 34 sq.) merely to heighten the effect of his miracle in contrast with his idolatrous competitors (Josephus, *Ant.* viii, 13, 5). On the oil-libation of Gen. xxxv, 14, see STONE. Psalm xvi, 6 (but probably not Zech. ix, 7) appears to contain an allusion to heathenish drink-offerings consisting of wine mingled with blood (*vinum assiratum*), which, especially when persons bound themselves to a fearful undertaking, it was customary to drink (Sallust, *Catil.* xxii, 1; Sil. Ital. ii, 426 sq.).—Winer, ii, 629. See OFFERING.

Dromedary stands in the A. V. for the following Heb. words: בִּכְרָה, *bikrah'*, Jer. ii, 23 (Sept. mistranslates ὀψέ, as if reading בְּקֶרֶה; Vulg. *cursor levis*), a *young* camel (see Bochart, *Hieroz.* i, 82 sq.; Gesenius, *Thesaur.* p. 206); רֶכֶשׁ, *re'kesh*, 1 Kings iv, 28 (Sept. ἅρμα; Vulg. *jumentum*; A. V. "mule" in Esth. viii, 10, 14; "swift beast" in Mic. i, 13), a *steed* or fleet courser (see Bochart, *Hieroz.* i, 95); רַמָּךְ, *rammak'*, Esth. viii, 10 (Sept. and Vulg. altogether paraphrase), a *mare* (fully בְּנֵי הָרַמָּכִים הָאֲחַשְׁתְּרָנִים, *ha-achasteranim beney ha-rammakim, the mules, sons of mares*, A. V. "young dromedaries"). See HORSE; MULE. The dromedary is properly the African or Arabian species of camel (*Camelus dromedarius*), having only one hump (Wellsted, i, 204), in distinction from the Bactrian (Aristotle, *Anim.* ii, 2; Pliny, viii, 26; Apulej. *Asia.* vii, p. 152, Bip.), which has two (דַּבֶּשֶׁת, Isa. xxx, 6). It is thus the kind usually spoken of in Scripture (Heb. גָּמָל, *gamal'*) and in the East (Arabic *jaml*), where it is a widely-found and exceedingly useful animal. It has a slender bodily frame, long neck, small head and ears, and is of a gray or brown (very seldom black) color of skin, and usually 6½ feet high. (The Talmud, *Shabbath*, v, 1, speaks of a peculiar variety, נאקה, which the Gemara interprets to mean the *white* camel.) The double-humped (called also *Turkish*) camel is the largest and strongest (being capable of carrying from 800 to 1500 pounds), but is so much affected by the heat of the sun as to be unserviceable during the summer months. The one-humped camel, or proper dromedary, which is everywhere met with in Syria and Palestine (Seetzen, xviii, 448), is the one referred to in Isa. lxvi, 20 (see Gesenius, *Comment.* in loc.) by the term כִּרְכָּרוֹת, *kirkaroth'* (the versions all vague or wrong: Sept. σκιάδια, Vulg. *carracæ*, A. V. "swift beasts"), so called from their *bounding* motion (Bochart, *Hieroz.* i, 90), which is very rapid (Burckhardt, *Bedouins*, ii, 76), and is sometimes accelerated by musical instruments (Sadi Gulist. p. 190). Its greater speed is in consequence

Camel of the Hauran.

of a finer and more elegant structure (Russel, *Aleppo*, ii, 44; Prosp. Alp. *Rer. Æg.* iv, 7, p. 223 sq.; Sonnini, *Trav.* i, 369), so that it can not only make more miles per hour (Shaw, *Trav.* p. 149), but maintain this pace for a great number of days together (Pococke, *East*, i, 309; Volney, ii, 260; Höst, *Nachr. v. Marokko*, p. 289). They carry only 500 to 700 pounds. A dromedary is properly a camel, distinguished from the common one only by its breed and training, as a saddle-horse is distinguished from a cart-horse. This breed is called swift with respect to other camels, not with respect to other animals; for the camel is not eminently a swift animal, and those most renowned for their fleetness are not in any way comparable to the horse. The best-trained camels cannot sustain a gallop above half an hour, in which, at forced speed, they may make about eight or nine miles. This is their

highest exertion. A forced trot is not so contrary to the camel's nature, and it will support it for several hours without evincing any symptoms of fatigue; but even here the utmost degree of celerity of the very best-bred dromedary does not exceed about twelve miles an hour; and it is therefore in this pace also less expeditious than a moderately good horse (Kitto, *Pict. Bible*, note on Jer. ii, 23). "It is not therefore," says Burckhardt, to whom we owe this statement, "by extreme celerity that the *hejeins* and *delouls* are distinguished, however surprising may be the stories related on this subject both in Europe and the East; but they are perhaps unequalled by any quadrupeds for the ease with which they carry their rider through an uninterrupted journey of several days and nights, when they are allowed to persevere in their own favorite pace, which is a kind of easy amble, at the rate of about five miles or five miles and a half in the hour" (*Notes on the Bedouins*, p. 262). In proportion to its weight, the camel takes but little nourishment (Philostr. Apol. i. 41): it eats in twenty-four hours a single meal of barley or beans (husks, Mishna, *Shabb.* vii, 4; comp. Minutoli, *Nachtr.* p. 259; see Wellsted, i, 206); also dough or cakes; and in the want of all these, grass and thistles, about a pound's weight; it drinks slowly (Cotovic. *Itiner.* iii, 21), after it has made the water muddy with its feet, and can go even 16 (some say 20) days without drinking (Aristotle, *Anim.* viii, 10, and Pliny, viii, 26, give only four days; but this probably means its ordinary intervals between drinking times: see Russel, *Aleppo*, ii, 34); although the herbs wet with dew in the desert constantly supply moisture; besides, the camel's double cell-formed stomach apparently serves as a receptacle of water, from which it moistens its usually dry fodder, and by means of rumination can even assuage its thirst. Travellers suffering from want of water in the desert not unfrequently slaughter a camel, and allay their thirst with the water from its stomach, which is clear and pure. (On the diseases of the camel, see Browne, *Trav.* p. 365.) Camels were in use as early as the patriarchal ages (Gen. xii, 16; xxiv, 10 sq.; xxx, 43; xxxi, 17; xxxii, 7; compare Job i, 3; xlii, 12; see Aristotle, *Anim.* ix, 10), and in later times these animals were a very valuable possession to the Israelites (1 Chron. xxxvii, 30; Tob. x, 11; Ezra ii, 67; comp. Harmer, iii, 355); although they appear to have been less precious than with the neighboring Arabic tribes (Judg. vi, 5; vii, 12; 1 Sam. xv, 3; xxvii, 9; Gen. xxxvii, 25; Jer. xlix, 32; comp. Mishna, *Shabb.* xxiv, 3; see

Saddling a *Deloul*, or Dromedary.

Leo Afric. *Descr. Afr.* ix, p. 145; *Descr. de l'Egypte*, xvi, 186). They were generally used, however (especially in the caravans of the desert), for transportation of wares and baggage (Gen. xxxvii, 25; Judg. vi, 5; 1 Chron. xii, 40; 1 Kings x, 2; 2 Chron. xiv, 14; 2 Kings viii, 9; Isa. xxx, 7; lx, 6; comp. Josephus, *Life*, 24; Curt. v, 6, 9), since they carry a large load (Volney, ii, 311; Lorent, *Wand.* p. 120; Russel, ii, 34; see Diod. Sic. ii, 54), and are more sure-footed in hilly regions than the ass (Wellsted, i, 205; ii, 68). They were also used for riding (Gen. xxiv, 64; 1 Sam. xxx, 17; comp. Troilo, *Trav.* p. 455; Niebuhr, *Trav.* i, 215), and women, seldom males, generally sat in a kind of basket or sedan-chair (כַּר, see Gesenius, *Thes.* p. 715), which was fastened on the back of the camel (Gen. xxxi, 34), being spacious, and covered on all sides (see Kämpfer, *Amoen.* p. 147; Pococke, *East*, 1, pl. 58). On account of its long but slow stride, and its light gait (Tischendorf, *Reis.* i, 258), the beast has a regular rocking motion, not disagreeable in itself to the rider, but so uniform as at length to become wearisome (Lorent, *Wander.* p. 119). Cyrus trained camels to fight (in order to make the horses of the enemy

Ancient Assyrians pursuing an Arab on a Dromedary.

turn, Herod. i, 80; Ælian, *Anim.* iii, 7; comp. Pliny, viii, 26; Polyæn. vii, 6, 6), and had even a camel troop (camels ridden by horsemen, Isa. xxi, 7; comp. Xenoph. *Cyrop.* vi, 2, 8; vii, 1, 27, 48 sq.; Herod. vii, 86; on the military use of camels among other people, see Diod. Sic. ii, 54; iii, 45; Livy, xxxvii, 40; Appian, *Syr.* 32; Pollux, *Onom.* x, 8; Herodian, iv. 15, 4; Veget. iii, 23; comp. Gesen. *Comment. z. Jes.* i, 661; and Judg. vii, 12). Bonaparte, when commanding the French army in Egypt, formed a military corps mounted on dromedaries. In loading or mounting the camel, it is made, on a given signal, to fall on the knees and breast (חִבְרִיחַ; comp. Arnob. *Adv. gent.* ii, 25), and receive the burden, which hangs over the back on both sides; and when it is too heavy the animal utters a mournful cry (Pliny, viii, 26; compare Schweigger, *Reise*, p. 264; Höst, *Marokko*, p. 288; Cotovic. *Itiner.* p. 404). On the Assyrian monuments a kneeling

Loading a Camel. From the Sculptures at Kouyunjik.

camel receiving its load is found, designed with considerable truth and spirit: the legs bent under, the tail raised, the foot of the man on the neck of the animal to keep it from rising, while a second adjusts the burden from behind, form a group seen every day in the Desert and in an Eastern town (Layard, *Nin. and Bab.* p. 495). They are often stubborn and vicious, although generally tractable, except in the time of

)*6,'M *1' - >% L 'N T)6-0 2 'N 1' 'N QT>1?=% B*-% ' KNXT 6?125',)*' -6D.' ,)* ' 6->' -*56-0*0' 6.' +*- '-*+*25* ;/M>1?=6-*' /*6-% - !' =%N; T)*2>*' 6/.1',)* -' 26?*% -1?' ,1' '*+ /T 4*.*2 ;.' -" !' =% KRNX% ()* '6-*',6;5),',1'51'D '6',1;>)' M ?= *-' & !' =% K X' 620'6-*' 5; 0*0'D '>*-,6 2' M5;,,;-6/X' .1;20.T 620',)* -' 2*>9.'6-*') ;25' 8 ,)' 1-^ 26?*2,.' MB;05% + A ' K ' K4T .**' &*//.,*0 ' ' K RX% 6?*/C0- +*-.' 6-*' >6//*0' 2' ,)*' (6/?;0' A77 N ' =' 'MBV77-66' ' T ' X% 6?*/.' ? /9')6.' 6/^ 86 .' D**2') 5)/ '*.,**?*0' 2',)*' 6.,' 6.' 6' >11/ 25' 0- 29'M / 2 ' L ' RST LL+ ' NNT - .,1,/*' & ! 1' K T 10% >% ' T *D;)-' (6;% 'N T ;..*/' & %% 1' ' ST ;>9 25)6?' % '=% KT :1.,' ++ '=% KQQT (.>)*201- ' 5 1' ' K QXT 8)*2' *-?*2,*0',')6.'62' 2,1L >6, 25' _;6/, 'M 6//6.' 5 ! ' K X% ()*' /*.)' *.=*> 6// '1',)*');2 =' M -*AC,65' ' !' !' & !' N !=% X' .' *6,*2'D ',)*' -^ 6D.' 8 ,)' 5-*6,' -*/ .)' M - .,1,/*' & !< ' KST 10% >% ' T : *-10' ' KNT B*-1?*' 2'D !' '4T : 1.,' "!=% KQQT ;%..*/' 'NK . _%T 1.*2?;//*-' ! ' SN._%XT,1',)*' :*D-*8.' ,' 1-D 00*2'M *+% L T .**' _1.*2?;//*-' 2' 1>D6-, KT < >)6*/.'11 ! 5 "! +' K IK% ',)*')6 -' M(6/?;0' 1' < .)26' !+ ' X' 8)>)' 2',)*' .=- 25' 6//.' 1 '1' ,..*/ '6-*' ?60*' >16-.*' >/1,).' 620'56-?*2,.'M<6,, ' X' 620',*2,C>1+*-.'M ;>9 25)6?'- !' Q4T %! =% KI' ;..*/' ' T : 6-?*-' 'N ST ,)1 !'5 !'=% T 1* ',*L,;-*.F1'>6?>/.C)6-'6-*' 6/.1'?*2, 12*0' /62'& !'L+ 'N X% ',)*') 0*' .6206/.'620'86,*-C.9 2.'6-*' ?60*'620',)*'0;25' .*-+*:' 6%. ;*/M 1/2* ' 'KRSX% ()*' =-1+*-D' 1'/ 6,,% L L' K '6/.1'1>>;-.' 2',)*' 1-62'M ;-% + 'NQX'620',)*' (6/^ ?;0.,.'*?=/1' 2',)*' .6?*' .*2.* ' %" ' ' (' 1'M ;L,1- ' !' - !'>1/% KKX% 2' <6,,'LL 'K '620'1,)*-' -6D'620' 6DD 2 >'=-1+*-D.' 8)>)'6-*' .=19*2'1',)*' >6?*/'.**' 1>)6-,' , " - ' K % ** 5*2*-6//A7 1C >)6-,' 'N' .%T 6D-'6 1' 'NQ' ._%T + ;->9)6-0,' ; '=% ._%T N '._%T + 17 +' ' 7 '._%T (/*. ;.' 2',)*'#!'6 + %!'LL 'KQ'._% ' 2*-' 'S % 1?=6-*' !

-12,)* ?'M 62.)' - "* E'6'>, ' 2' 1-^ 86 '8 ,)'6'=1=;/6,12'2' QS'1' RKQ' 2)6D ,62,.% D1;,' K',)*' -.,'*= .>1=6/.**' 1' 1-86 '86.'*.^ ,6D/.)*0'6,' -12,)* ?'8)>)'86.',)*2>* 1-86-0',)*' >*2,-*'1',)*' ?.. 126- !'* 1-,.' 1-',)*')-., 62 [6, 12' 1',)*' >1;2,- % ' -.',)*'D .)1=- >'D*/125*0',1',)*' *A .>1=6/ =-1+ 2>*' 1' : 6?D;-5C -*?*2T 12',)*' */*^ +6, 12'1' ;20',1'D*'62'6->) *= .>1=6/.**' -12,)* ?' 8 ,)'6//',)*' >620 26+ 62'0 1>*.*II'D*>6?*.;D1-0 26,*' ,1',)*' 6->)D .)1=' 1' ;20% 2' K -12,)*?' 86.' ?60*',)*' ?*,-1=1/,62'.**' 1-'6// 1-86 '620'6.' .;>)' ,'*?D-6>*0'.*+*2'.; -6562'D .)1=.'26?*/' *-5*2' ,6+625*-' :6?7*-' 620' 2./1'M =./1X' 2' 1-86 ' 1-/-12' 2',)*' -92* ' ./620.':1/ ?' 2' >*/620'620' 46-0*' 2' 4-**2/620% ()*' >6,)*0-6/1' -12,)* ?' >12,6 2*0',)*' -*/>.'1'9 25' /6+',)*' 6 2,'8)1' 86.' +*2*-6,*0'D ',)*' 8)1/*' 9 2501?' 6.' ,.' =6,-12'620' 3'8)1.*' 5-6+*' 86.' >12.*_;*2,/ '+ . ,*0'D '2;?*-1;. 3=/5- ?.% ,'86.'6/.1',)*'>6=,6/1' 1-86 '620')60' A* 1-*',)*' * 1-?6,12',*2')>);-)*.'620' +*'>12+*2,.% 2>*',)*' * 1-?6,12',')6.'-*?6 2*0',)*' .>6,'1'6' ;,)*-62'D .)1=% ** * #! '/.,'1',)*'D .)^ 1=.'1' -12,)* ?' .'5 +*2' 2' (1-.*;.'2" '7 = I%' *,[*-';% 7>/,*')" 1 + 1' 'N %

-1=. '6'8*//C92182'0 .*6.*'M?*2,12*0'12/' 2' ;9*'L +'K' 2',)*'>6.*'1',)*'0-1=.>6/?62'2*=1T-MC 1>'#;-*>,'' '1;-' 6+1;-'12',)*' 6DD6,)X'?62 7..*0' D '6' ?1-D 0'>1//*>, 12'1'86,*- '6>>-*, 12' 2' 62 '1' 3,)*'>6+,*.'1',)*'D10 % *> !

-1..'M I=' 1'12>*'\ [*9% LL ' Q',*L,h' !8)6,' ' * '-* 2 25X',)*' '1-' ?=;-,*.' 1'0 +*-'.*=6-6,*0'-1?',)*'1-*'1-'-;.,*0'1-'60;/,*-6^ ,*0'1-?.'D ',)*'=-1>*..'1'?*/, 25'M -1+% LL+' T' LL+ 'KN7T .6% >L L' RXT 6/.1',)*' #1-'?L^ ,;-*' ,.*/''=-1-',1'.?*/, 25'M .6% 'KK'K T [*9% LL ' Q RX% **' !

-1.,*'[; .>)*- 25' ' $ '8 64' 1L' '6->)D .)1=' 1' 1/152*' 86.')1-2' 6,' <;2^ .,*-' 7*.,=)6/6'B62;6-'K' N% :*' .,;0*0',)*1/^ 15'620'=)/1.1=)'6,'<;2.,*-'620'86.'*6-/'2,-1^ 0;>*0'2,1'%,)*/,*-6-'>->/*' 1',)*'=-2>*..' ?6/6' 1'46//,[2'M %+%X% ,*-',-6+*// 25' 1-'.1?*',?*'2' ,6/'8)*-*')*0*+1,*0') ?.*/',1',)*'.,;0'1'6-,')*' 86.'>12.*>-6,*0'6'=-*.,'6,'<$2.,*-'12'<6' RQ' D')./D-1,)*-' 6.=6-'<6L ?/62'8)1')60'D**2'.2>*' R'6..,62,'D.)1=' M8*)D.)1X'1'<;2.,*-% 2' Q ')*'86.'*/*>,>0A7',)*')6=,*-'+>6-'5*2*-6/'620' 6.'.;>)'60?2.,*-*0',)*')*'01>*.*',2,/ Q N'8)*2' 6^ =1/*12'6=6=1 2,*0',)*'D6-12' 12' =*5*/D.)1=' 1'<$2^ .,*-% 2'1-0*-',1'6+1 0'6'.>) .?' -1.,*'>12 *--*0',)*' 60?2.,-6,12'1',)*'01>*.*' ;=12',)*'2*8'D.)*=% ;-25',)*' 125-*..'1' 7*226')*'8*2,'1' 1?*',1' ?69*'6'-*=1-,'12',)*'.,;6,12'1',)*');->)'1' *?*' 2'4*-?62 % 2') .'-*;,-2'<6->)' Q ')*'=;D/.)*0' 6'=6=6/D-* '8)>)'0..1/+*0',)*')6=,*-'*.,6D/.)*0' D' 6=1/*12'620'-*/*+*0',)*'D6-12'+12' =*5*/ -1?' ,)*'60?2.,-6,12'1',)*'01>*.*% ()*'=6=6/0*>-*' 86.'-*>152.*0'D',)*'9 25'1'-;..6'8)1')60'D*>>?1' ,)*'.1+*-*52'1'<;2.,*-'D;',.112'>12/>,.'6-1.*'D*^ ,8**2',)*' -;..62'51+*-2?*2,'620' -1.,*'8)1')60' 656 2',69*2*>)6-5*'1',)*'60?2.,-6,12'1',/>'01>*.*% :*' 1-D60*' 1?62' 6,)1/>',)*1/15>6/.,;0*2,.',1' .,;0'6',)*'2*8' -;..62'$2+*-.,'1' 122% ,*-')*'>12>/;.12'1',)*'>12>1-06,'D*,8**2' -;..6'620' ,)*'=1=*' -1.,*'656 2'-*,-*0' 2,1'=-+6,*/ *'620'0*^ +1,*0') ?.*/'8)1// ',1',)*'*L,*2.12'1'6'2*8'6..1>6^ ,12'1' .,*-.'1')6-,'8)>)')*')60' 1;20*0% 2' QK')*'86.'>12.*>-6,*0'6.. D 2,'D.)1=' 1' <;2.,*-% 2' QN')*'86.'*/*>,*0'6->)D.)1=' 1' 1/152*')*)6+^ 25'=-*+1;./E!'=-1?.*0',1'60)*-*',1'62'65-**?*2,' >12>/;0*0'D*,8**2',)*' -;..62'51+*-2?*2,'620',)*' /6,*'6->)/ .)1=' 1' 1/152*'>12>*-2 25'?6-- 65*.'D*^ ,8**2' 1?62' 6,)1/>.'620' -1,*.,62,.% ;'.112' 6 ,*-') .' 2,)-12 [6, 12',)*' 2*8'6->)D .)1=' 86.' 2^ +1/+*0' 2'.*- 1;.' >12/>,.'8 ,)',)*'51+*-2?*2,% :*' ?6 2,6 2*0',)6,')*')60'D**2'0*>*+*0'D',)*' -;..62' 51+*-2?*2,'6.',1',)*',-;*'?*62 25'1',)*'65-** 2* ' D*,8**2',)*'51+*-2?*2,'620'6->)D .)1=' =*5*/ I ' " "' ' " ' " % ' = ' " ' ' ' " = ' " 81'620'0*>/6-*0',)6,')*'81;/0'.,- >,/'>6-- ' 1;',)*' + *8.'1',)*'=1=*% :*'6/.1' =-1>**0*0'+',)' 5-*6,'- 51-'656 2.',)*':*-?*. 62.'MM'%+%X' ')>'*'+Z8.')60'D**2'-*=*6,*0/'>120*?2*0'2' 1?*' D;,' 8/a1' 8*-*' =6,-12 [*0'DX!',)*' I-;..62'51+*-2?*2,'=12' -1.^ ,*',1'6DO >6,*')6+25'6/*0')*'86.'12' 1+% K QN' 6--*.,*0'620'.*2,',1',)*'1-,-*..7'<20*2% 112'6^ ,*-',)*'6>>*..12'1' -*0->)' 7/)*/?/7,1',)*',)-12*' 1' -;..6',/*0 >;/,*.'D*,8**2',)*',6,*'620');->)' 1' 1?*'8*-*'.*,/*0'D'6'>1?=-1?.*'620' -1.,*'-*^ .,1-*0',1'/D*-,%' :*')60')18*+*-',1'6>>*=,'6'>160^ A;,1-'MD.)1=' 4*..*/'1' =-*.X',1'8)1?')*'8)1// '/* ',)*'60?2.,-6,12'1',)*'01>*.*% :*'6%I7I-*;.*0' 6'>6-0 26 .')6,'8)>)'86.'1 *-*0',1')?'D',)*'=1=*% :*'0*0'6,'<;2.,*-'12' >,% R Q S% :*=;D/.)*0' .*+*-6/=6?=)/*,.'12',)*'-*/6,12'D*,8**2'M D;->/'620' ,6,*'12**6.>*,>6/D119'620'6'+1/;?*'1'.*-?12.' 212*'1'8)>)'6-*'1'=*-?62*2,'+6/;*% ' >,[*-';% V >/,1')" =(+ ' 'N S' :*-[15'51 1=6 1' ' S% $ g g + $!

-1;5),'M- K N'" ' "1' '1'-6 2'B*-% L+ 'QT 0*6-,)J'L+'T N7:' " "' 1 1'4*2% LLL ' T B*-' ' NQT :65' ' T */.*8)*-*)*6, ' *,>%T 1-' + " !',)*.6?*' .6% LLL ' T - 2 B 6' " " "E' % 1'.6'+ ' T +E'B1D'LL+' RT B*-% ' S'6' ' '6.'*/.*^ 8)*-*';.;6// '-*20*-*0T (' % "

-2 0.' 9*=,' 62 ' 8- ,,*2' 1-' 1,)*-' -*>1-0.' 1 ',)* -' 1-^ 0*-' 212*' . ;-+ +*0',)*' 1+*-,)-18' 1 ',)* -' =18*-' 620' 2 /;*2>*') ',)*' 1?62. ' 8) /*',)*' *8' *L,62,'21, >*. ' 1 ',)*?' D ' 4-**9'620' 1?62' 6;,)1-.' 6-*' +*-A' D- * ' 620' ;2.6, . 6*,1-A(*.=*> 6// ' 2',) .' -*.=*>,% ()*' 0+ *8.' 1 '?10*-2' 8- ,*-.' >62' >/6 ?' 21') 5)*-' 6;,)1-^ , ',)62' .=*>;/6, 12.' D6.*0' 12' 5-1; 20.' ?1-*' 1-' /*. ' =-1D6D/*' *,'21,'>*-,6 2% 1?*' -65?*2,6- ' & */.)' =1*?. ' 92182' -1?' ,)*' =*>;/ 6-' 1-?' 1 ' >1?=1. ^ , 12' 6.' ,)*' - ' 6-*' .;==1.*0',1' =-*.*-+*' .1?*' 1 ',)*, -60 , 12.' >;--*2,' 6?125',)*' & */.)' D6-0.' 2' -*56-0',1',)*') .,1- ' 01>,- 2*. ' 620' >;.,1?.' 1 ',)*' -; 0.! 620 '6>>1-0 25',1',)*.*',- 60. ',)* '>6?*' 2,1' 46;/ -1?',)*' 6.,' 0;- 25',)*' -.,' 2+6. 12' 1-' ? ^ 5-6, 12' 1 ',)*' ?- ' ;20*-' : ;C 606?' 1-' : ;' ,)*' < 5), % ()*' 1= 2 12',)6,',)* ' 8*-*' 1 ' 6.,*-2' 1-^ 5 2 ' 620' ?60*',)* -' 6==*6-62>*' 2' -,6 2' 620' 46;/ 6,' 6' +*- ' *6-/ ' =*- 10' .' .;==1-,*0' D ',)*' . ?/6-, ' 1 ',)* -' 01>,- 2*. ' - ,*. ' 620' 6->),*>,;-6/ ?12;?*2,. ,1',)1.*' 1 '>*-,6 2' *6-/ ' -*2,6/ 26, 12.% ()*' -;C 0 >6/ 1-0*-')6.' D**2' D ' +6- 1;.' 6;,)1-.' >122*>,*0' 8 ,)',)*' *-. 62',)*' : 2011',)*% 5 =, 62 '620',)*')1*2 > 62' =- *.,/ ' >6.,*' 620',)*' ,)651-*62' -6^ ,*-2 , I' 8) /*',)* -' >)1 >*' 1 ' 5-1+*. ' *.=*> 6// ' 1 ' 169 ' 6.' =/6>*.' 1 '-*. 0*2>*' 620' 81-.) = ' 620',)* -' = /^ /6-.' 620' 6/,6-.' 1 '-1;5)' .,12*' 6-*' 0**?*0' D ' .1?*' .,- 9 25' >1 2> 0*2>*.' 8 ,)',)*' ;.65*.' 1 '=6,- 6->)6/ , ?*.' 6.' 0*.>- D*0' 2',)*' *2,6,*;>)% 6*.6-C.=*69.' 1 ' -,6 2' 6.',)*' =6-*2,' .*6,' 1 ' -; 0 .?' 6 -? 25' ,)6,',)1.*' 2' 46;/ 8)1' .1;5),' 6' ;//*-' 9218/*05*' 1 ' ,' 8*2',),)*-',1'/*6-2% ( ) .'..6,*?*2,'6>>1-0.' 8*//8 ,)',)*',)*1- ' 1 ',)* -')1*2 > 62' 1- 5 2 ' . 2>*' 1=^ =1-,;2 , ' Z20' ?1, +*' 1-' ,)* -' *6-/ ' 6==*6-62>*' 2' -,6 2' ?6 ' D*' 1;20' 2',)6,' *6-/ ' 620' *L,*2. +*' >1?2*-> 6/ 2,*->1;-.*' D*,8**2',)* -,.)' ./*.' 620' /? 2ZI62 ?*->)62,.' 2' .*6->)' 1 ', 2',1' 8) >)' 8*' =-1D6D/ ' 18*',)*' 26?*' 1 ' -,6 2' %>%',)*' /620' 1 ', 2 ' 6>>1-0 25',1' .1?*' -1?',)*' */, >" ' , 2 ' 620' '/620' 6>>1-0 25',1'1,)*-.' -1?'6')1*2 > 62' 81-0' 8)1.*' ?10*-2' -*=-*.*2,6, +>' .' 1;20' 2',)*' -6D >" = '1-'" 2 ' ,' .',,6,*0',)6,',)*' -; 0.')*/0',1',)*' D*/ * ' 2' 12*' .;=-*?*' 410',)*' -*6,1-' 620' ;/*-' 1 ' 6//',) 25.' 2',)*' 6// 1 ' ?62 ' 620' 6' ;,;-*' .,6,*' 1,' -*86-0.' 620' =;2 .)?*2,.% (1',)*.*' *.1,*- >' 01>,- 2*.' 86.' 600*0',)*' =;D/ >' 81-.) =' 1 ',)*' .;2' 620' ?112 ' 620' 1 ' -*' 6.' 8*// 6.' 1 ' 0 + 2 , *.' >1--*.=120^ 25' 2' ;2>, 12.' 8 ,)',)1.*' 1 '4-**>*' 620' 1?*' *% 5% <*->;- ' 6.' (*;,6,*.' <6-6' 6.' : *.; ' B ; = ,*-' 6.' (6(-62 . ' 7=1//1' 6.' */ 2 ' =-1D6D/ ' ,)D' 66/ 1 ',)*' 6.,' < 2*-+6' 6.' */ .6?6 ' 620' : *->;/*.' 6.' 5? ;.% & *' 6-*',1/0',)6,' 621,)*-'-*?6-96D/*' =- 2> =/*' 1 '=- ? ^ , +*' 2 0 .?' 6==*6-.',1')6+*' D**2',)*' 81-.) =' 1 ',)*' .*-=*2,' 6' .;=*-., 12'.1' 8 0*/ '*L,*20*0' 6.F,1'*+ 2>*' ,.' 0*- +6, 12' -1?',)*' ?1.,'62> *2,',-60 , 12.' 1 ',)*') ; ?62'-6>*' 620' / 2 ')6./1 , ' ; .' 6' >;- 1; .'6>>1; 2,' 1',)*' 625; 2; ? '1-' .*-=*2, .' *55 ' 81-2' D ',)*' -; 0.' 6.' 6' 0 ., 25; .) 25' D605*' ,.' 2)-+*//1;.' 1- 5 2' ;// ' 65-** 25' 8 ,)',)*' 8120-1;.' + -,;*.' 6.>- D*0',1' ,% ()*' .6?*' 6;,)1-',*.., *.',1',)* -' +*2*-6, 12' 1-',)*' ? .,/*,1*' 8) >)' 6.' ,' 6//.' .' >6;5),' 2' 6' -1D*' 6/.17) 5)' >1;-,' 1 '6==*6/.' 620 =*->)6=.' 6'/ 9*' 12*' 1-' -,' 8) ,*% ()*' + >, ?.' 6-*',)*2' ? ? 1/6,*0' 8 ,)',)1' =-6 *-',)6,' 410' 81;/0' ?69*') .' 5 ,' =-1= , 1;.',1',.' ,)*' 62> *2,' <126% -*> = *2,.%J' 2' 621,)*-'=/6>*' / 2 '6/.1' ?69*.' ?*2^ , 12',)6,' 6' .6>-6?*2,' 1 'D-*60' >*20' 8 2*' 1-?*0' =6-,' 1 ',)*' >*-*?12 *.' 1D.*-+*0' 2' 56,)*- 25',)*' =/62,'.*(o /651% & *')6+*' 6/.1',)*' - ,*' 1 ' D6=, .?' -*>912*0' 6?125',)*' -'>*-*?12 *.% I -1?'1,)*-'>/6.. >' 6;,)1-.' 8*' /*6-2',)6,',)*A7)*/0' ,)*' 01>,- 2*' 1 ',)*' ??1-,6/ , '1',)*' .1;/'8) >)'6. ,)* ' ,6;5),' 01*.' 21,' =*- .)' D;,' =6..*.' 6 ,*-' 0*6,)' 2,1' 1,)*-' D10 *.' * ,)*-' 0->,/ ' 1-' 6 ,*-' 6' >*-,6 2' , ?*% ()*' ;.*0',) .' D*/ *' 6.' 62' 2>*2, +*',1' +6/1-' 6?125',)*' -'>1;2,-A7?*2' . 2>*'0*6,)' 86.' 12/ ',)*' *2^ ,-62>*(86 ',1' 6') 5)*-' 620' D*,,*-' / *' 1-',)*' D-6+*' ?62' 620' 2' 9**= 25' 8 ,)' ,) .' 6 ,)' ,)*' ;' 1' ',)*' .*,,/*?*2,' 1' 6>>1;2,.' 620',)*' *L6>, 12' 1' 0*D,.' ,1' ,)*' ;,;-*' ?**, 25' 2' 621,)*-'/ *'620'6/.1'D;- *0' 8 ,)' ,)*' 0*6A' 6-, >/*.' ;.* ;',1',)*' / + 25' 1' 8) >)' =-6>, >*' 8*' 20'=-11' 2',)*' >12,*2,.' 1 ',)*' -'D6--18.' 1-',1?D.' *L) ;?*0' 2' -*>*2,' , ?*.% 6*.6-.' 6>>1;2,' ;-,)*-' ?=/*.' 6' -*>152, 12' 1 ',)*' +>6- 1;.' 26,;-*' 1 ' .6>- ^ >*.% ,-6D1' .6 .',)6,',)* ',6;5),',)6,',) .' ?6,*- 6/ 81-/0' 81;/0' 2'+*-')*' 622) /6,*0 'D;,' ;20*-51' 6' .;>^ >*.. 12' 1 '-*+1/;, 12.',)-1;5)',)*' 65*2> ' 1 ' -*' 620' 86,*-A ,) .' /6,,*-' *'*?2,' ,'381;/0 6==*6-' -1?'1,)*-' 6>>1;2,.' ,)* '6/.1')*/0' .6>-*0 '620' 2' .1?*' .1-,' 81-^ .) ==*0% 15*2*.' 6*-, ;.',;?.';=',)*' -'*,) >6/ . .^ ,*?' 8 ,)',)6,' 1',)*' : 2011' 5A ?21.1=) .,.' 2',)*' -' 6+1- ,*',-60' 1-?' ',1') 121-',)*' 510.',1' 01' 21' *+ /' 620',1' =-6>, >*' ?62/ 2*..%J' >>1-0 25',0' : 55 2.' ,)*')6-6>,*-.,>.'1' -; 0 .?' 2'6//65*.' 620' 26, 12.' 8*-*' ',)*' 81-.) =' 1 '12*' .;=-*?*' * 25',)*'01>,- 2*' 1 ' ?*,*?=. >)1. .' 620' ;,;-*' -*86-0.' 620' =;2 .)^ ?*2,.' 7T-*0' 1 ' ?65*.' 1=*2' > ->;/6-',*?=/*.' ,)*' 81-.) =' ?' -*' 6.',)*' *?D/*?'1',)*' .;2',)*' >*/*D-6^ , 12' 1',)*' ?1.,' 62> *2,' (6;-' *., +6/'620',)*' =1.^ .*.. 12' 1' 6' .*+*2,**2C/*,,*-' 6/=)6D*,' 6/,)1;5)',)*' -' 2.,-;>, 12.' 8*-*' 6/86 .' 1-6// ' 5 +*2%J 2',)*' -')6-6>,*-' 1 '=- *.,.',)* ')60' >12,-1/' 1 '6//? 6,,*-.'=*-,6 2 25',1' 0 + 2*' 1' 6>,*0',)=' 1 >6,*0' 6,',)*' =;D/ >' 620'=- +6,*' .6>- >*.' 620' 1,)*-'>*-*?12 6/-.,*.% 2',)*' 5/11?' -*>*..*.' 1 ',)* -' 0**=/ C.)60*0' =69C' 5-1+*',*?=/*.') ;?62' + >, ?.' 8- .,)*0' ;20*-',)*' D6-^ D6- >' >-;*/, ' 1 ',)* -' ./*.' 1 '.6>- >*% 1?*, ?*.' ,)*' + >, ?' 86.' .,6DD*0' 6D1+*',)*' 0 6=)-65?' .1',)6, 0;- 25' 6' / 25*- 25' 0*6,)' 6;5;- *.' ? 5),' D*' 0-682' -1?' ,/B*' >12,1-, 12.' 1 ',)*' .; *-*-' 620',)0' >;--*2, 620' /18' 1 ') .' D/110% 1?*' 8*-*' >-;> *0' .1?*' .)1,',1' 0*6,)' 8 ,)' 6--18 .% 1?*, ?*.') ;5*' ?65*.' 1 ' 8 >9*-C81-9' 8*-*' //*0' 8 ,)' / + 25' ?*2' 1-' ?*2' 62, ' 62 ?6/.' 620',)*2' .*,' 12' -*' .1',)6,' 6// =*- .)*0' ,15*,)*-% 101-;.' ..,6,*.' ,)6,'>- ? 26/.' 8*-*' 9*=,' ;20*-' 5-1;20' 1-' +*' *6-.' 620',)*2' .6>- >*0',1',)*' 510.' D ' D* 25' ?=6/*0' 620' D;-2*0' 2' 5-*6,' -*.' ,1^ 5*,)*-' 8 ,)' +6.,' _;62, ,*.' 1 '1,)*-'1 *- 25.! 620',)6,' =- .12*-.',69*2' 2' 86-' 8*-*' ?? 1/6,*0' 620' 8 ,)',)*?' ,)*' >6=,;-*0' >6,,/*' 0*.,-1 *0% 6*.6-.6 =',)6,',)* ')*/0' >- ? 26/.',1')*',)*' ?1-*' 6>>*=,6D/*' 1 *- 25',1' ,)*' 510.' D;,' 2' 0* 6;/,'1' .;>)' +>, ?.',)* ' .6*- >*0' ,)*' 221>*2,% & *' ?6 ' .;==1.*',)6,' 2' .1?*' 1',)*' >6.*.' > + / 620' 21,' -*/ 5 1;.' *20.' 8*-*' .1;5), ' =;2^ .)?*2,' 620' 21,' .6>- >*% % 2',)*' >6=6>, ' 1 'A;05*.',)* ',119' >152 [62>*' 1 ' 6// _;*.,12.' > + / 620' >- ? 26/ ' =;D/ >' 620' 2 1-> 25',)* -'0*>-**.' D ',)*',*-- D/*' =18*-' 1 ' 62' 2^ ,*-0 >,' 6==/ *0',1' >1?? ;2 , *.' 6.' 8*// 6.' 20 + 0;6/.' 8) >)' *L>/;0*0',)*' -*>;.62,.' -1?',)*' .6>- >*.' 620' 12.* _;*2,/ ' -1?',)*' 6..1> 6, 12' % " ' 1,)^ *-.' 8)1' .);22*0',)*' *L>1? ?;2 >6,*0' 6.' D* 25' 8 ,)^ 1;',)*' =6/*' 1 ')?62' 1-' 0 + 2*' =-1,*>, 12' 620' 2 *>,^ 25' 8 ,)',)*' -'5;/,'620' =1//;, 12' 6// 8)1')*/0' 62 ' 2^ ,*->1;-.*' 8 ,)',)*?% >>1-0 25',1' 6 .6-'*6>)' *6-' 6,'6'..6,*0' =*- 10',)*' -;0.' 8*-*' 812,',1' ?**;' 2' 6'>12.*>-6,*0'=/6>*' 8 ,) 2',)*',*-- ,1- *.' 1 ',)*' 6-7I' 2;,*.' 8) ,)*-' 6// / , 562,.' -*=6 -*0',1')6+*',)* -'>12^ ,-1+*-. *.' 0*> 0*0% ().' 81;/0' .**?',)6+*' P**2' 6' ?.

: 69 ?') ?.*/ ' 86.' ,)*' -*6/ 6;,)1-' 1 ',) .' ?= 1;.' 36..; ?=, 12' 620',)6,',)*' 1,)*-.' D*>6?*') .' 65*2.,.' 1 ' =-1.*/ , .?' D ',)*' =-1? .*' 1 '6' -1 6/ -*86-0 ()*' .*>,' 5-*8' 2' 2 /;*2>*' ;2, /',)*' >60 ' 8)*2' 2',)*' ?1._;*' 86.' .;? ?12*0',1' *?D-6>*' ,)*' 2*8' 6 ,)'T D;',)*' 6,,*?=,' 86.' 6,6/',1',)*' 2*1=) ,*' 8)1' ?60*' ,'6.')*' 620').'6,,*2062,.' 8*-*' .'6 2 ()*=-*.;?=^ , 12' 1',)*' >6/ =)' 86.' *_;6/',1',)*' >-*0;/ ,A!' 1 ') .'0 .^ > =/*. &)*2',)*' 0 + 2*' /6?*' 86.' 6.>- D*0',1',) ?')*' 8 // 25/ '-*>* +*0' ,' 620' 1=*2/ '=-1>/6 ?*0') ?^ .*/ ',1' D*',)*' >-*6,1-' 620' -;/*-' 1 ',)*' D*2* >*2,' /*' -1?' 8) >)',)*' /620' -*>* +*0' 6// ,.' /;L;- 62>*' 620' ,)*' =*1=/*' 6// ,)* -' =-1.=*-, J' I1 '@ 1' B62 QS '=' RX : *' 86.' ./6 2' 6,' /6.,T D;' /6 2.6',)*' 6=1.,/*' .;-+ +*0' 620' 8-1,*' D119.' 8) >)' 6-*' ., // -*^ 56-0*0' 6.',)*' 1-6>/*.' 1 ',)*' -;.*.% -1?',)*' ,*2,)' >*2,;- '1286-0',)*' -;.*.' ?6 2^ ,6 2*0',)* -' .*=6-6,*' -*/ 5 12' 620' 6' 4 '26, 126/ , ()* '/+>0' ;20*-',)*' 1-0*-.' 1 '.*=6-6,*' >) *,6 2.'1-' .)* 9.' 8 ,)1;,'62 '.;=-*?*' 6;,)1- , '620' >1?? ,,*0' 0*=-*06, 12.' 12',)*' 2* 5)D1- 25' (;-9 .)' >1;2,-*.% -*_;*2,' >1?=/6 2,.' 8*-*' =-*.*2,*0' 656 2.',)*?' ,1' ,)*' 1-,*' 1-' 0*=-*06, 12.' >1?? ,,*0' 620' <;-60' ' 26// ' .*2,' 62' *L=*0 , 12' 656 2.',)*2f 2' QQ';20*-' ,)*' 1-0*-.' 1 ' D-6) ?' 6>)6 ()*' (;-9.' 8*-*' .;>>*..^ ;/'*.,6D/.)*0' 12*' 1 ',)*-' 182' *? -.' 6.' 9 25' 1+*-./*' -;.*.' 620' *L6>,*0',- D;,*' -1?',)*?% ()*' *? -.' ,)*2' ;2,*0' 656 2.',)*' >1? ?12' *2*? '620' D*>6?*' 0625*-1;.',1',)*' 1-,*'=6-,>;/6-/ ',)*'*? -' 69 -' 0C 0 2' 8)1' 2',)*' ,)'>*2,;-E 'D*>6?*'.1'.,-125',)6,',)*' 1-,1' 0*,*-? 2*0' 12',69 25',)*' ?1.,'6>,+*' ?*6.;-*.' 656 2.,') ?% 69 -' 00 2' /*0',1',6/ '/*6+ 25') .'.12 3 // 6.'-*5*2,' 2') .'=/6>*' 7)*7/6,,*-'0-1+*',)*' (;-9.' 686 '620' -*.,1-*0' =*6>*'T D;' 69 -' 00 2')6+ -*' 2*,';?*0' 6 ,*-' ?D $25',)*' /1+*' 1' .=/*201-' 8) >)'E,)-1;5)1;',)*' ?12,)'1'B;2*'T,)*' <6-12 ,*.' ;-*-0' 0.,25;.)*0',)*' >1;-,'1',)*' <*0> '/6 0' .;>)')*6+ ',6L*.'12',)*' =*1=/*',)6,'6'-*+1/;,12' D-19*' 1;,% ()*' 1-,*' .*2,' 621,)*-' *L=*0 , 12' 656 2.,') ?' 2' SNK : .'.12' // */*' 2' D6,,/*' 6'.*>120' .12' 86.' ?60*' =- .^ 12*-' 620' 69 -' 00 2') ?.*/ ' 86.' 1D/ 5*0',1' /**',1' ,)*' ?1;2,6 2.% : 1' 86.' D*,-6 *0' D ') .' 182' 1//18^ *-.' 2' >,1D*-' NN' 620' 86.' .,-625/*0' 6,' 12.,62, ^ 21=/*' 2' SN % : .' 0*.>*2062,.') */0',)*-' =1. , 12' 6.' *? -.' 2' .;/ A*>, 12',1',)*' 1-,*' ,*-',)*' *L, 2>^ , 12' 1 ',) .' 6? / ',)6,' 1 ', /*' $ " " '1- 5 26// ' -1?' <*>>6'D*>6?*' *? -.% ()*' =18*- ;/ <*/)*2' M C RX -*.,1-*0',1',)*' -;.*.' .1?*' 1',)*' =18*-' ,)* ')60'/1.,'6 ,*-',)*' 0182 6// 1' 69 -' 00 2% ? -' *.>) -'D1-2' 2' SN' .' 12*' 1',)*' ?1.,' 21,*0' 1',)*' -*>*2,'*? -.% 2' Q R')*',119'=6-,' 2',)*' 2.;--*>, 12' 1' DO6//6)'620' 86.' 0*=1.*0' 2' >12.*_;*2>*' D;,' 86.'=6-012*0'D',)*' 1-,*' 2' QKN',)-1;5)',)*' 2 /;^ *2>*' 1' <*)*?*,' :% 2' 2.;--*>, 12' 1',)*' -;.*.' 656 2.,',)*' + >*-1 ',119' =/6>*' 2' QN' D;,' 86.' .;D^ 0;*0' D' D-6) ?' 6>)6' 2' QN' 620',)*' -;.*.' 1' *D6212' 8*-*' 0 .6-?*0% ? -' *.>) -',)*2' .0*0' 8 ,)',)*' 5E =, 62.';2,/' Q '8)*2',)*' 86.' 0*=1.*0% ,*-' D-6) ?' 6>)6',)60'-*, -*0' -1?' -6',)*' /620' 1',)*' -;.*.'=6..*0' 656 2';20*-',)*' 0 -*>,' 01? 2 12' 1',)*' (;-9. ',)*' .6?*' ,?*' D/110 ' >12/>,.' D-19*' 1;'D*,8**2-,)*' -;.*.' 620',)*')- ., 62' <6-C 12,*.% (1'=;,' 62' *20',1',)*.*' ,-1;D/*.',)*' *? -. X1,)'=6-,*.' 8*-C*' >6//*0',1' 12.,62, 21=/*' 2' BQ K' 0*=1.*0' 620' ?6-' 6.)6' 86.' 6==1 2,*0' (;-9 .)' 60^ ? 2 .,-6,1-' 2',)*' -'=/6>*% :*' 86.' .*2',1' *D6212',1' >12./>,' /;' 8 ,)',)*' =- 2> =6/>)*' .'1',)*' -;.*.' 620',)*' <6-12,*.' 8)1' 8*-*',1' 1-?' 6'=*-?62*2,' >1;2> / 1' 60? 2 .,-6, 12% ;',)*' ,81' =6-,*.' .112' ;2,*0' 656 2.,' ?6-' 6.)6' 620' 1=*2' >12 />,' .=**0 /' 1/^ /18*0% ()*' D6,,/*' 1')0*2' >,% N' Q K'=-1+*A0' 6' .;>>*..' 1-',)*' ?6/>12,*2,.% 2' *0 >,'1' *>% Q K' 5-62,*0',1',)*' -;.*.' 620' <6-1 ,*.',)*- 5),'1'.*/ C 51+*-2?*2,' 620',)*' <1)6??*062' 6 ?696?',1'-*^ . 0*' 6,',)*' .1;,)',)*')- ., 62' 6,',)*' 21-,)% *,' 6.' ,)*' =1=;/6, 12' 6-*' 21,',),;.' 5*15-6=) >6// ' 0 + 0*0' D;,' 12',)*' 12,-6- '-6,)*-' ?' L*0',>*' 0 >,' 0 0' 3' 21,' .6, . '*,)*-'=6-, % *8',-1;D/*.' D-*69 25' 1;,% ,)*' 1-,*' .*2,' : 6/ /' 6>)6' 620' .1/0 *-.' 2,1',)*' /620% 2' 6..*?D/ '1',)*' ?1;2,6 2' >) *,6 2.')6+^ 25' D**2' >6//*0' D ' : 6/ /' 6>)6' 62' 6--625*?*2,' 86.' ?60*'T D;,')6-0/ ')60' :6/ /' 6>)6' /*,',)*' >1;2,-' 8)*2',-1;D/*.' D-19*' 1;,' 6?125',)*' <6-12,*.',)*?^ .*/+*.' 6- . 25' -1?'-*/ 5 1;.' 0 *-*2>*.% '?1D' 1' =*6.62,.' 0-1+*',)*' =6,- 6->)' -1?').' -*. 0*2>*% ',)*' .6?*' ,?*',)*' 1/0')6,-*0' 1',)*' -;.*.' 656 2.,',)*' <6-12,*.' 86.' -*+ +*0% %()*' 1-,*' 6,'/6.,'.*2, K '?*2',1' *D6212'8)*-*' .1?*' 1-,'>) *.'1',)*' -;.*.' 620' <6-12,*.' 8*-*',69*2' =- .12*-.% 2*' 1' ,)*' =- 2> =6/<6-12,*.' U6)/>' 86.' .;00*2/ '0 .6-?*0' >,% S Q '620',)*' 1,)*-.' 1//18*0' 8,)1;,'62 '.;>^ >*.. ;/-*. .,62>*' D* 25' ?60*% 2',)*' .=- 25' 1' Q S' ,)*' 1-,*' 5-62,*0',)*' >1;2,-' 6' 2*+-' 12.,;,,12' 8)*.-*D' 6' =*-?62*2,' >1;2> / 86.' 600*0',1' *6>)' 1' ,)*',81' 6 ?696?.% ()*.*' >1;2>/.' 6-*',1' D*' >1?^ =1.*0' 1' ?*?D*-.' 1' ,)*' 0 *-*2,' .*>,.' 2)6D, 25' *D6212' MK' <6-12,.*.' K' -;.*.' K' $2,*0' 4-**9.' K' 12C;2,*0' 4-**9.' K' (;-9.' 620' % <;, /6/ X ()*' .,-*' D*,8**2',)*' -;.*.' 620',)*' <6-12,*.' >12, 2^ ;*0')18*+*-' 620' 621,)*-' 6==*6/ 86.' ?60*',1',)*' ;-1=*62' =18*-.' 2' Q ' *,' 8,)1;,'62 '-*.;/,'12' 6>>1;2,'1',)*' >12,*20 25' >/6 ?.'1',)*' 1?62' >12+*2,;6/01?6 2.' 1',)*' 1,)*-'-*/ 5 1;.' =6-,*.' 1',)*' -;)' /620182*-.' 620'1',)*' (;-9.)'1 >6/.% ',*-- D/*' 1;,D-*69' 656 2' 1>>;--*0' 2' <6 ' QS % ()-1;5)1;',)*' *D6212',)*' -;.*.' 6,,6>9*0',)*' <6-12,*.' =/;20*-*0' 620' D;-2*0' ,)* -' + //65*.' 620' ?6..6>-*0' 6' /6-5*' 2;?D*-' 1' =*-^ .12.' 8,)1;,' 0 .,2>,12' 1' 65*' 1-' .*L% ()*' (;-9^ .)' 6;,)1-,*.' ?60*' 21' * 1-,.',1'.,1=',)*.*' 1;-65*.' 620' 2' .1?*' 2.,62>*.' (;-9.)',-11=.' *+*2',1M 9' =6-,' 2',)*' ?6..6>-*.' 620' = //65*.% ()*' 86-' >12, 2;*0' 8)/*' 25/620' 2>-*6.*0',' /**,12',)*' <6-12,*.' ;' *-*0' ,*-- D/ '620' 2' 6?6.>;0' .1?*' S ')- ., 62.' 8*-* -*=1-,*0',1')6+*' =*- .)*0% $=12',)S' 2*8.' 1',) .' 26..6>-7' -62>*' .*2,' 6' >1-=.' 1' K '?*)' 7' - 6' 8)/*' 25/620' 2>-*6.*0',' /**,12',)*' >16.,' 2' 1-^ 0*-',1' 6.. .,' '2*>*..6 ',)*' -*2>)' 2' -*(*..6D/ .)^ 25' 1-0*-% ()*' >1?620*-' 1',)*' -*2>)',-11=.'=-*^ +6 /*0' ;=12' ;60' 6.)6' 8)1')60' D**2' .*2,' D ',)*' (;-9 .)' 51+*-2?*2,' 2',1' -6' 6.' *L,-61-0 26- ' >1?^ ? .;12*-',1' 1-0*-',)*' *L*>;,12' 1' Q 1',)*' >) *' >>1?=/ >*.' 1',)*' ?6..6>-*% 112' 6 ,*-'*+*2' >)?*',I 6.)6',)*' 51+*-21-' 1' 6?6.>;.' 620' 6' 2;?D*-' 1' =-1? 2*2,' (;-9 .)' 1 >*-.' 8*-*' *L*>;,*0*+*-6/ >) *.' 1',)*' -;.*.' 8*-*' 6/.1'.*2,*2>*0',1'0*6,)'D;,' ,) .'.*2,*2>*' 86.' 1-'?1.,'1',)*?' >1?2;,*0' 2,1' / ^ /125' ?=- .12?*2,' 2',)*' S,)'1' >,1D*-' 62' 2,*-^ 26, 126/ >1?? .. 12' 1'=/*2 =1,*2, 6-*.' 1' ;-1=*62' =18*-.' ?*,'6,' *-;',1' 2+*.,56,*',)*' >6;.*.' 1',)*' /6,*0 .,;-D62>*.' 620',1' .*>;-*',)*' =;-- .)?*2,' 1',)*' 5;/, ' 620' 20*?2 >6, 12' 1',)*' .; *-*-.% 2',)*' 86 '1'=;2 .)?*2,620' 20*?27 >6, 12' /.,/*' 86.' 1D^ ,6 2*0' D;',)*' -*=-*.*2,6, +*.' 1',)*' 5-*6,' =18*-.' =-*+6 /*0' ;=12',)*' (;-9 .)' 51+*-2?*2,',1' 65-**' 12' B;2*' R QS ',1'6' .=*> 6/',-*6,E'>12>*-2 25',)*' 60? 2^ .,-6, 12' 1',)*' /*/ 6212% >>1-0 25',1',) .' =1., 12' 6;0C C *20 '6' 1?62' 6,)1/>' -?*2 62'8)1'6 ,*-',)*' *L^ = -6, 12' 1') .' -.,',*-?' 1'1 >*' 86.' -*6==1 2,*0' 1-' 7+*' *6-.% 1' 0 .,;-D62>*' ,119' =/6>*' ;20*-' //.' 60^ ? 2 .,-6, 12'6.' 6-'6.',)*' -;.*.' 8*-*' >12>*-2*0% 2 '5 ' %' ()*' -;.*.' 6-*' 1' 6;>6^ . 62' *L,-6>, 12% ()*' 6-*' + 1/*2,' >;22 25' ,-*6>)^ *-1;.'>1+*,1;.' 86-/ 9*'/1+*' 20*=*20*2>*' 620',)6+*',)=' .;>>*..;// '0* *20*0',)*-' /' D*-.% ',)*')6+*',)=' 6;/,.'1' 6.,*-2' 26, 12.',)*' '6/.1'=1..*..',)*' -') 5)C ' *.,' + -.,;*.,' ,)*' 6-*')1.= ,6D/*' 1D/ 5 25',S' 6' >*-,6 2' *L,*2,' >6-*' ;/' >/*62' 620' 20;.,-1;.' D;,' 8 ,)')6-0^ / '62' 2,*//*>,;6/>;/,;-' *60 25' 620' 8-, 25' 6-*' 6/?1.,' ;2921822' 6?125',)*?' ,)*' /119' ;=12' -*C

+*25*' 1-' D/110.)*0' 6.' 6' .6>-*0' 0 ;, ⅋' ( )* ' -6 .*' 2') .' >1;2,2 ⅊ : *' -*=/ *0',)6,',)*-*' 8*-*' 620',)6,'
5-6 2 ' 8 2* ' ,1D6>>1 ' 620' . /9⅋ ( )* ' -' /625;65*' .' 6' ,)* ' -*60',)*' 1-62⅋ : *' 86.'-*_;*.,*0',1'.)18')18'
0 6/*>,'1 ',)*' -6D >⅂ ,)* -'-*/ 5 127' 6' ? L,;-*' 1 ' 01/^ ,)* ' =-6Ⱥ*O⅋ ' &)1' .' 8 ,)1;,' =-6Ⱥ*-'N' 86.' ,)*' -*^
6,- ' B;06 . ? ' <1)6? ?*062 . ? ' 620')- ., 62 , ⅋ =/ ⅋ ;,' ,)*' .)* 9' ,)*2' 8 .)*0',1' 9218' 2' 8)6,'
( )*Ⱥ7⅊?69*' 21' .*>-*,' 1 ',)* -' 01>,- 2*. ' 620' *,',)* ' ?622*-' =-6Ⱥ7*-' 1 ;5),' ,1' D1' =-*.*2,*0' ,1' 410⅋ ( )*'
6-*' D;,'/ ,,/*' 92182⅋ ( )* '/119' +=12' ,)*' >6/ =)' : 6^ 1996/ =-1>**0*0' ,1' .6 ⅆ ' &)*2' '*2,*-',)*')1;.*' 1 '
9 ?' 1 ' 5 =, '6.')1/ '3 ,*6>)' ?=. >)1. .' 620',)*' 410 ' '*20*6+1-' ,1' 01' .1' 8 ,)' =;-*' ,)1;5),.' 620' 6'
.*>120' 60+*2,' 1 ',)*' =-1=)*,' Ⅿ 2>6-26, 12' 1 ' 410Ⅺ⁋ >/*62')*6-,' 620' >6// 1;,' ( )*-*' .' 211410' D;,' 410 '
,)* '=*-? ,'=1/ 56? 'D;,' .' 12/ ' =-6>,.*0' D ',)*' 620' <1)6? ?*0' .',)*' =-1=)*,'1 '410⅊J '/ .,*2',1',)*'
" ' >/6..*.⅋ ( )*-*' .' 21' -*5;/6-' 1-0*-' 1 '=- *.,ℂ 81-0.' 1 ',)*' D119' 8 ,)' 62' *6-2*..' 620',*6>)6D/*' .= -^
)110',)*' 1 >*' D* 25' //*0' D '>12.*>-6,*0' 1-' /*6-2*0')110' /119' 0182' 2' >12,-, 12' 620' =*2 ,*2>*' 620 '
=1-.12 ' >6//*0' &++ '>1?=- . 25'*.=*> 6// ',)*' *? -.' ,⅋ ' =-6Ⱥ 25',)6,' ' =1-.12 ' >6//*0' &++ '>1?=- . 25'*.=*> 6// ',)*' *? -.' D18 25'01&2' ? ')*60' 9 *.',)*' *6-,)' =-6Ⱥ 25',)6,' '
620' .)* 9.' 8)1' 1-?' 6ℂ .*>-*,' 1-562 [6, 12' 0 + 0*0' ?6 ' D1' *26D/*0',1' 86/9' 2') ; ? / , '620',)*' *6-' 1 '
 2,1' .*+*-6/ 0*5-**.' 9**=',)*' .6>-*0' D119.' 620')1/0' 410' 620',1'-*. 52' ?Ⱥ7.*/' 2' 6//,) 25.',1') .' 8 // 620'
.*>-*',' -*/ 5 1;.' 6..*?D/ *.⅋ ()* 5-*6,' ?6..' 1 ',)*' 0*>-**.⅂ ,1',) 29',)6,')*6+*2' .' 12' ?Ⱥ' - 5),.')620'
=*1=/*' 6-*' 6/?1.,' 521-62,' 1 '62 ' =- 2> =/*.' 1 '-*/ 5^ 620')*// 12' ? '/* ,⅂ 620',1' D*6-' 2' ? 20',)6, '8)*-^
 12⅋ ( )* ' -*>152 .*' 2* ,)*-' >*-*?12 *.' *., +6/.' *+*-' '51' '6?' 6/86 .' 2',)*' =-*.*2>*' 1 ' 410 ' 620'
21-' ! ,)6,')1' .' *+*-' D* 1-*' ?*⅋ ( )6,' .' *21;5)⅋ : .'
 ( )*' 1//18 25'.;??6- ' 1 ',)* -' 01>,- 2*.' .' 5 +*2')1.,' 1 ',)*' >, ',;-2 25',1',)1.*' =-*.*2,' .6 0' ` //
2',)*' '5 1' >,⅋ Q '=⅋ S ⅆ ' & *' 6-*',1/0' 1;-' =-6f>-.' >1?=6-*0',1',)6,' 6-*' ;.*/*..⅋' ( )*'
,)6,',)*-*' .' 12*' 410' ;2921828' 620' ;2921806D/*⁋ ,)*' 6996/.' 6->',)*' ?1-*' 0*+1,*0' =-1 *..1-.' 1 ',)*' -;.*'
-*6,1-' -*.*-+*-' 620' B;05*' 1 ',)*' ;2 +*-.*⅋ & *' -*/ 5 12' 620',)* 7?6 ' D*' 1 ' *,)*-' .*L⅋ ( )*Ⱥ 6-*'
>6221,' .=*69' 1 ') ?' D ' >1?=6- .12' 1-' D ' 2*56, 12⅋ 21,' =- *.,. ' 620' 2* ,)*-' .*6>)' 21-' *L*> . *' 0 .> =/ 2*⅋
`:*' .' /6// 8*' >62' .6 '1 ') ? ⅆ 620' '8*' 51' ;-,)*-' ()*E!' ? ;,.';-*?6 2' 6' *6-' 12',- 6//D* 1-*',)* ' >62' D*'
,)62',) .' 81'D- 25' 2',)*') ; ?62' */*?*2,' 620',)*-.*^ 60? ,,*0',1',)*' .*>-*,.' 1 ',)*' -6,*-2 , ⁋ 6 ,*-',)6,'
1-*' 6/,1'.*,' 1-,)' ,)*',-;,)⅋ (/ *-*' >62' D*' 21' -*=^ ,)* ' ?6 ' 8*6-' 6' 8) ,*' ,;-D62' 6.' 62' *?D/* / 1 ',)*'
-*.*2,6, 12' 1 ' 410' D*. 0*' ,)*' 1-?' 1 ' ?62 ' 8)1' -* =;-,' ',)* ' 6-*',1' >;/, +6,*⅋ ( )* '0-*..' 2'=/6 2' 56-'
/*>,.' ,)*' ?65*' 1 ' 410' 6.' ,)*' ? --1-' -* /*>,.' ,)*' ?*2,..' 8*6- 25' 21' 1-26?*2, ' 620' 6-*' -*_;-*0',1' D1'ℂ
1DⱭ*>,' D* 1-*' 8) >)' ,' .'=/6>*0⁋ 620' ?62' .' >)1.*2',1' . ?=/*' 2',)* -' ?622*-.' 6 ,0' >6-* ;/ 2',)* -' ?10*' 1 '
D*',)*' +* / 1 ' 410' 6.' D* 25',)*' 21D/*.,' 81-9' 1 ') .' .=**>)⅋ ',',)* -' ;2*-6/.',)*' '-*>* +*' ?6-9.' 1 '5-*6,'
>-*6,;-.*⅋ ( )*-*')6+*' D**2' 2 2*' 6+6,6-.' 1 ',)*' 12*' -*.=*>,⅂ 620',)* -',1?D.'6-*' 6 ,*-86-0.'+ . .*0'D 119.⅂
410' 8)1')6.'6==*680' 2',)*' 1-?' 1 '?*2 'D;,' 8 ,)^ -1D*' .;=*-.,,1;. ' 8)1'81-.)=',)*' 0*=6-,*0' .= -',' 620'0*^
1;,' ?62 .' ?=;- ,Ⱥ' 1-' >1--;=, 12⅋ ( )* ' 8*-*' 21,' =-1=*-/ ' 2>6-26, 12.⅋ 410' 0 0' 21,'D*>1?*' /*.)' D;,' >*6.*0⅋ : ?2.' 6-*' .;25' 2',)*' -;.*',*?=/*. ' 620' I
6..;?*0',)*' +* / 1 ' /*.)' 6.',)*' ?62' 8)1' 2*-.' 1 ',)*' 12*' 1?D.' 6-*' 6 ,*-86-0.'+ . .*0'D 119.⅂
-1D*' .', // 0 ., 2>,' -1?',)*' -1D*⅋ ( )*' -;.*.' 60? ,' .;=*-.,, 1;. ' 8)1' 81-.)=',)*' 0*=6-,*0' .= -',' 620'0*^
,)*' 01>,- 2*' 1 ' -*' 8 //Ⱥ2' 1==1. , 12',1' ./6?' 620' =-1=*-/ ' 2>6-26, 12.⅋ 410' 0 0' 21,'D*>1?*' /*.)' D;,' >*6.*0⅋ : ?2.' 6-*' .;25' 2',)*' -;.*',*?=/*. ' 620' I
,) 29',)6,'=-*0*., 26, 12' .' --*>12> /6D/*' 8 ,)'*,*-26/ 6..;?*0',)*' +* / 1 ' /*.)' 6.',)*' ?62' 8)1' 2*-.' 1 ',)*' 12*' 1?D.' 6-*' 6 ,*-86-0.'+ . .*0'D 119.⅂
Ⱥ;.,>*' 6-*' +*' 2+ . D/*' 2,*/ 5*2>>.'1 '6',:^ -1D*' .', // 0 ., 2>,' -1?',)*' -1D*⅋ ( )*' -;.*.' 60? ,' .;=*-.,, 1;. ' 8)1' 81-.)=',)*' 0*=6-,*0' .= -',' 620'0*^
=*-1-' 1-0*-' 6//' 1 ' 8)1?')6+*' D**2' ?=*-.126,*0 2' 1=1. , 12',1' ./6?' 620' =-1=*-/ ' 2>6-26, 12.⅋ 410' 0 0' 21,'D*>1?*' /*.)' D;,' >*6.*0⅋ : ?2.' 6-*' .;25' 2',)*' -;.*',*?=/*. ' 620' I
6.' ?62 ' -;.*',*6>)*-.' 1 ' 8)1?' :6?.6' 86.' ,)*' 6..;?*0',)*' +* / 1 ' /*.)' 6.',)*' ?62' 8)1' 2*-.' 1 ',)*' 12*' 1?D.' 6-*' 6 ,*-86-0.'+ . .*0'D 119.⅂
>) * ⅋ ( )*.*' 2,*// 5*2>*.' 6-*' -*56-0*0' 6.' ?*0 6,1-.' -1D*' .', // 0 ., 2>,' -1?',)*' -1D*⅋ ( )*' -;.*' 60? ,' .;=*-.,, 1;. ' 8)1' 81-.)=',)*' 0*=6-,*0' .= -',' 620'0*^
 2' D*)6/ 1 ',)1.*' 8)1' 2' *6-2*.,' .*9' 8 .01?⅋ ( )*' =-1=*-/ ' 2>6-26, 12.⅋ 410' 0 0' 21,'D*>1?*' /*.)' D;,' >*6.*0⅋ : ?2.' 6-*' .;25' 2',)*' -;.*',*?=/*. ' 620' I
.1;/.' 1 ' ?*2 ? 5-6,*' 2,1' 1,)*-') ; ?62' D10 *.' 620' =-1=*-/ ' 2>6-26, 12.⅋ 410' 0 0' 21,'D*>1?*' /*.)' D;,' >*6.*0⅋ : ?2.' 6-*' .;25' 2',)*' -;.*',*?=/*. ' 620' I
- .*',1') 5)*-'5-60*.' 1 ' 2,*// 5*2>*' D '62' 6,,*2, 12',1' 1;,*-' 0;,*.' 620' .;D? .. 12',1',)*' 6 + 2*' 8 //⅋ 2' `,)*' 6/ ' .' 21,' 6.>*-,6 2*0' 8 ,)' >*-,6 2, ⅋ ( )*'
,)*-*/ 5 12.',)6,'6==*6-*0' 2',)*' 65*.' =-*>*0 25' : 6^ -;.*.' 6-*' *L,-*?*/ ' .*2. , +*' 8)*2' 2_; - *.' 6-*'
9 ?',)*-*' 86.'6' ? L,;-*' 1 ',-;,)⁋ D;',)*.*' 8*-*' 12/ ' 60?*' 1 ',)*?' -*.=*>, 25',)*' -'-*/ 5 1;.' =-6>, >*.' 620'
6.' ..6-/ 5),'-*+*/6, 12.' 6//' 1 ' 8) >)' 8*-*',1' D*' 1+*-^ ;.*' ?*,' 8 ,)' D ' -⅋ & /.12'6,' :6.D* 6',1/0') ?'
=18*-*0' D ',)*' -60 62>*' 1 ',)*' ;//ℂ1-D*0' .;2' 8) >)' ,)6,',)*-*' .' / ,,/*' 0 *-*2>*' D*,8**2',)*' -' >-**0' 620'
-1.*' 2' ,.' =*- *>,' ?6Ⱥ*., ' 8)*2',)*' . .,*?' 1 ',)*' 1D.*-+62>*.' 620',)1.*' 1',)*' 1-,)101L' <;.:,/?62.'
-;.*.' 86.'=-1>/6 ?*0',1',)*' 81-/0' ()*ⅈ7)6+*' .*+^ 8) /*1,)*-.',*//' ;.',)6,',)*' *.=*>,')- .,'620'6D)1-'
*2' 5-*6,'=-*>*=,.ⅆ ⅋ (1'.:=*69',)*',-:,)⅋ K⅋ (1'-*2^ <1)6? ?*0⅋ 1'12*')6.'D***2' ?1-*' 6+1-6D/ ' . ;6^
0*-',1'*6>)' 1,)*-' ? ;,;6/ 6.. .,62>*⅋ N⅋ (1'-*21;2>*' ,*0',)62' >1/12*/) ;->) // 1-'/*6-2 25',)*' -' -*6/ .*2^
6// *--1-⅋ ⅋ (1' .*=6-6,*' *2,-0 ' -1?',)*' 8 >9*0' , ? *2,.' 620' >;.,1?.' D;' *+*2')*' 86.'1,25',1',)*-?.,,*0'
620',)*' 521-62,' S⅋ (1' 6..*-,' 12' 6// 1>>6.12.',)*' 620',1'=*2*,-6,*' 2,1',)*' ? ,.*-*.' 1 ',)*' -' 6 ,)⅋ `(81'
+-/6., 25';2 , '1 '410⅋ S⅋ (1' D*' .;D? .. +*' ;20*-' 1DⱭ*>,.'')*.6 .''*25-1..*0' ?'6,,*2, 12 ',)*'-*/ 5 12'
- 69' ⅋ (1'-*.,'>12,*2,*0' 2' 8)6,*+*-' . ,;6, 12',)*' 1',)*' -;.*.' 620',)*'=6.,') ,.1-' 1 ⅊,)*'-6>*.' 8) >)'
?6 ' D*' =/6>*0' 8)*,)*-'1 'Ⱥ1 '1-'.1--18⅋ ()*' -.,' ,' 218'1>>;= ',)*' ?1;2,6 2'-625*' 1 ',)*' *Ⱥ9.' 6996/.' 620'=*6.I'
,)*'=- 2> =6/ =-*>*=,⅋ ;',)*.*' 1D/ 56, 12.' 6-*' 21,' +6 2' ,-*0',1' ?69*',)*',*-?.' 1 '*L,-*?*' - *20.) =' 62>*.' 6-*' 21' 1-26?*2,.' 620',)*' -' .6>-*0' *0 >*.' 6-*' 1;20' 620' 2, ?6> ' 8)>)' *L ..*0' D*,8**2' ? .*/' 620',)*' 62,.' 6/ 9*' D6 /*0' ? ' 2_; - *.' * ,)*-' D 'Ⱥ1>1.*' *+6^
6?125',)*' .)6018.' 1 ') 5)',-**.' 1-'12',)*' .;??,'1 ',)*' . 12.'1-' D '0 -*>,'2*56, 12⅋J -;.*.' 6+6 /6D/*' 1-',)*' =;-=1.*' 1 ' 2 1-? 25' ? .*/ '
>*-*?12 *.' 8*')6+*' / ,,/*' 1-' 21' 2 1-?6, 12' 1 '6' >)6-^ ,' 6-*' 1;,)*' -.,'1 ',)*-*' =1 2,.⅋)*Ⱥ9.' 6996/.' 620'=*6.I' 12',)*' -.,'1 ',)*-*' =1 2,.⅋)*Ⱥ9.' 6996/.' 620'=*6.I'
6>,*-';=12' 8)>)' 8*>62' -*/ 7' 2',)*-',*?=/*.',)*-*' 62,.' 6/ 9*' D6 /*0' ? ' 2_; - *.' * ,)*-' D 'Ⱥ1>1.*' *+6^
6-*' 21' 1-26?*2,.' 620',)*' -' .6>-*0' *0 >*.' 6-*' 1;20' . 12.'1-' D '0 -*>,'2*56, 12⅋J ,'6' ?**, 25'1',)*' 1 6/ . 6,>' 1>*,' 12012'
6?125',)*' .)6018.' 1 ') 5)',-**.' 1-'12',)*' .;??,'1 ',)*' <6->)' K QS ',)*' *+⅋ (*2'-*60'6'=6=*-'*2, ,/*0'
21,'1 6-'=-6 *-⅋ &)*2'1;,86-0/ ' 12 1-? 25',1',)*' ' -;.*' */ 5 12' $2+* /*0 J' 8)>)',)-18.' / 5),';=12'
=-6>,>*.' 1 '1,)*-',*>,.',)*' '-* -6 2' -1?',)*' =-6 *-' ,)*'=-*.*2,'01>,- 2*.'620',65*.'1',)*' -;.*.⅋ `7 ;,^
1',)*')*6-,⅋ ( )*-*' 6-*' 2..62>*.' 2' 8)>)' 6' .= - ; 86-0/ ',)*' -;.*.'>12 1-?',1',)*'1D.*-+62>*.' 1 ' <1^
?1-*' 2'6>?*062 .?',)1;5)',)*' *.,'?*2,*-,6 2'-*6// ' ,)*' ;,^)6? ?*062 .?',)1;5)',)*' *.,'?*2,*-,6 2'-*6// ' ,)*' ;,^
D;,' *+*2',)*2',)*-*' .' 2>12. .,*2>E'D*,8**2',)*' =-1⅋ ?1.,'6+*-. 12',1',)6,'-*/ 5 12⅋ ( )* 'D*/ *+*',)* '6-*'
7 *.. 1 ' 620',)*' =-6>, >*⅋ 2'6996/ ' 12' + . , 25' 6^ ?6.>;.' 6.' 81'/*6-2' -1?' >1/12*/) ;->) // ')6+ 25' 0*=6-*'*2,.' 620',)*' -' .6>-*0' *0 >*.' 6-*' 1;20' 6/ 5),*0' 6,',)*')1;.*' 1 ' 6' .)* 9' 1 ' ./6?' ',)*' ,81' 81-.)=',)6,'6-*' 5;6-0*0' -1?' 2,-;. 12⅋ ( )* '>)62,'
- *20.' *2,*-*0' 2,1' >12+*-.6, 12' 8)*2' ,)*' .)* 9' 62' 2+1>6, 12',1',)*' 0* , '6',-62./6, 12' 1 ' 8)>)' 86.'
6.9*0',)*' -;.*' ',)*-*' 8*-*' 62 ',-;*' <;..;/?62.

-*60' D ' N -% (*2 ',>.*? D/ 25' 6' /6 ? *2,6, 12' 1 ' ,) *' .^ -6*/ , *.' 2' >6=, + , ' ?=/1- 25' 1-' ,)*' -*.,1-6, 12' 1 ' =18*-' 2 /*-; .6/*-6 ' ,1' 8) >)' ,) * ' 600' 6' =-6 *-' 1-' ,) *' 0*. ,-; >, 12' 1 ' < *>>6% ( ) * -' .6>-*0' D119.' 6-*' >12^ ,6 2*0' 2' 6' . /+*-' >6.9*,' >6-* ;// ' =-*. *-+*0 ' 8) >)' .' >12. 0*-*0' / 9*' ,) *' 6-9% ( ) * ' 6-*' 2+*,*-6, *' ,1' ,) *' <1) 6? ? *062.' 620' ,1')- ., 62. ' ,) 1 ; 5)' =-1 * .. 25' ,) *' -*/ 5 12' 1 ' ,) *' 1-? *-' 620' 6,,*20 25' ,) *' ? 1._ ; *.% ( ) *' 01>,- 2*' 1 ' ? *,*? =. >) 1. .' .' .,-125/ ' D*/ *+*0' 2' 8 ,)' .1? *' >; - 1 ; .' ? 10 >6, 12.% ( ) *' 0* , ' 8) 1 ?' ,) *' 81-.) = ' ; 20*-' ,) *' , /*' 1 ' /' : 69 ? ' .' . ; ==1.*0' ,1') 6+*' 6==*6-*0' 12' ,) *' *6-,)' 6, ' ,81' 0 / *->2, '=*- 10. ' 8 ,)' 0 *-*2, '26? *.' 620' 6,, D ; , *. ' 620') .' =- 2> =6/ 65*2, '6/.1' .'D*/ *+*0' ,1') 6+*' 6. . ; ? *0' 0 *-*2, ' 1-? ') 6>^ ,' ,) *' >-*6, 12' 1 ' ,) *' <1-/0' ,' .' 6. . ; ? *0' ,) 6, ' 6' >*-^ ,6 2' 2 ; ? D*-' 1 ' .1 ; /.' +6.' >-*6, *0' 8) >)') 6.' 21, ' . 2>*' D**2' 600*0' ,1' 21-' 0 ? 2 .) *0' 1' *+*- ' .1 ; / ' 8) *,) *-' 2') ; ? 62' 1-' 2' 62 ?6/ 1-? ') 6+ 25' D**2' 12' 0*6,) ' , -62. ^ *--*0' ,1' .1 ?*' 1,) *-' D10 ' * ,) *-' ?1-*' */*+6, *0' 1-' ?1-*' 0*D6. *0 ' 6>>1-0 25', 1' ,) *' >120 ; >, ' 1 ' ,) *' 20 + 0^ ; 6/ 1-' 62 ?6/ 0 ; - 25' / *% 2' 12*' 1 ' ,) *' .*+*2' D119. ' ,) *-*' .' 6' >6, *>) .? ' -1 ?' 8) >)' < -% (*2' -*60' .*+*-^ 6/ _ ; *., 12. ' 620' 62. 8*-. ' >12, 6 2 25' 62' *L=1. , 12' 1 ' ,) *% =- 2> =6/ 6-, >/*.' 1 ' 6 ,)' 1 ' ,) *' -; .*. % ( ) *' D119. ' 6-*' 8 - ,,*2' 2' -6D >' 1 '+*- ' 62> *2, ') 6-6>, *-% ( ) *' - .*. ' 6-*' 0 + 0*0' 2, 1' ,) -**' >/6. .*. ' 1-' >6. , *. ' 6>^ >1-0 25', 1' -*/ 5 1 ; . ' 0 ., 2>, 12.% (1' *26D/*' 12*' -; .*' ,1' -*>152 .*' 621,) *-' 6' . .,*?' 1 '=6. . 81-0. ' .' 601=, *0' 6. ' D ' -**?6.12. ' 8 ,) 1 ; , ' 62' 2, *->) 625*' 1 ' 8) >)' 21' >1? ? ; 2 Z6, 12' .' ? 60*' ,) 6, ' ? 6 ' 5 +*' 62' 0*6' 1 ' ,) * ' -*/ 5 1 ; . ', *2*, .%J

% ' & 1/ ' M) / = X ' N ' ' ' ' " ' N :' 4 DD12 ' ' ' 6-6-' @ ' M 1. , 12 ' Q ' K ? 1f ' N ' M620' *.=*> 6// ' < /? 62 .' 21, *X' *' 6> ' @*(% ' ' ' ' ' ' ' M 6- . ' QNQ ' K' +1/. %X' 4% & %)6. .*6 ; 0 ' -" ' ' ' ' ' " ' ' :' " ' 1' ' ' # ' M 12012 ' Q ' Q+1X') ; ->) //' !' :' ' - ' < 1' 5 ' ' Q K C K ' 8 ,)' . ; ==/*? *2, 6- ' +1/ ; ? *' 12' -" ' ' ' ' " ' ' ' - ' +" ' 5 ' M 120% Q C4K ' ' +1/. % Q+1X' @ ' ' 5 1' LL L ' =% K ' *-*-' 2 = + ' .% + % ' 1 A 2.12 ' ; ' 5 9 ' " ($' M 120% Q X' ; " ' $ ' Q N ' =% ' D ' $ ' ' L L ' Q ' 7 ' 6 9 ' B62 ; 6- ' QS ' 6-,% ' *// ' $ ' ' " ' # ' ' M>1? = /*0' -1 ?' ; ->9) 6-0, ' 620' 1,) *-. ' 12012 ' Q+1 ' 2% 0 X ' >) 6= ' L ' ( ) 1 ? .12 ' ' ; ' + ' ' K S ' K RX' 6*-26-+12 ' 5 ' ' " ' 7 ' ' " ' 5 ' M 120% QS X' : ' 4 ; . ' ' 7 ' ' ' M 6- . ' QSNX' : % 4 ; . ' -" ! ' ' " ' N ' ' ' % ' ' 4 ' M 6- . ' QSNX' 4% 0*' /6 ; L ' ' " ' 2' ,) *' 5 ' ' ' ' QS ' B ; / ' ' 620' QSS ' < 6 ' ' & !' 5 2@ + % ' .% % -; . //6 ' M =1 Z-*dd-X' 1 ; 25*. ' 06 ; 5) , *-' 1 ' : *-^ 10' 5- ==6' ' D ') .' 8 *' AP_X-1N' 620' . . , *-' 1 ' : *-10' 5- ==6' ' 86. 12/ ' . L' *6-. ' 1/0' 8) *2') *-' 6,) *-' 0 *0' 2' % % ' MB1. *=) ; . ' & !' L L ' R ' LL ' ' 620' KX% * 25' >*/*D-6, *0' 1-') *-' D*6 ; , A ' .) *') 60' 6/-*60 ' D**2' =-1? .*0' 2' ?6-- 65*' , 1' =) 62*. ' .12' 1 ' 2, C 3D>) ; . ' 9 25' 1 ' 1? 65*2*' D ; , ' ,) *' ? 6, >)' 86. ' D-19*2' 1 ' 2' >12. *_ ; *2>*' 1 ' =) 62*. ' -* ; . 25', 1' =*- 1-?') .' =-1? .*' 1 ' >12 1-? 25', 1' ,) *' B*8 .)' -*/ 5 12% : *-*; =12' [[; . ' 9 25' 1 ' 0*. . 6 ' 1D, 6 2*0' -; . //6' 6. ') .' 8 *' 620' =*- 1-? *0' ,) *' >120 , 12' 1 ' D*>1? 25' 6 ' B*8 ' MB1. *=) ; . ' & !' L ' ' X% ,*-86-0. ' */ L ' ,) *' =-1>; -6, 1-' 1 ' B ; 0 *2 ' *// 2' /1+*' 8 ,)') *-' 620' 2^ 0 ; >*0') *-', 1' /*6+*' [[; . ' 6' >1 ; -. *', 1' 8) >)' 7) *' 86. ' =-1? =, *0' 21, ' 12/ ' D ' ,) *' 6 -' AA-1? .*. ' 1 ' */ L ' D ; , ' D ' 6' 0*. -*', 1' *. >6=*' ,) *' 6221 62>*', 1' 8) >)' .) *' 86. ' 7. ; DA*>, *0' D ' ,) *' *2+ ' 1 ') *-' . . , *-' *-*2 >*' 8) 1' ,) 1 ; 5) ', *2' *6-.' 1/0*-' + *0' 8 ,)') *-' 2' D*6 ; , ' MI %KX%) *' ,) 1 ; 5) , ' =*-) 6=. ' ,) 6, ' */ L ' 8) 1? ' .) *' 6>>*=, *0' 6. ' 6' . *>120') ; . D620' 81 ; /0' D*' D*, , *-' 6D/*' , 1' =-1, *>, ') *-' ,) 62' [[; . ' 8) 1? ' .) *' 0 +1->*0% 2' ,) *' >, . MLL + ' K X' .) *' . ' ? *2, 12*0' 2' . ; >)' 6' ? 622*-' ,) 6, ' .) *' ? 6 ' 26, ; -6// ' D*' . ; ==1. *0' , 1') 6+*' D**2' =-*%. >2, ' 8) *2' 6 ; / =-*6>) *0' D* 1-*' */ L' 2' % % */ L' 620' -; . //6') 60' 6' .12 ' 5- ==6 ' 8) 1' =*-. / *0' 2' 62' *-; =^ , 12' 1 ' *. ; + ; . ' MB1. *=) ; . ' & !' L L ' T' LL ' SX% (6>^ , ; . ' >#! % RX' .6 .' ,) 6, ' */ L' ? 6-- *0' -; . //6 ' 6' 5-62006 ; 5) , *-' 1 ' /*1=6, -6' 620' 2,) 12 % (-*' -; ^ . //6') *' -* *-.' , 1' '62 ' . ; >)' =*-. 12' *+*-' *L . , *0' ? ; . , ') 6+*' D**2' 6' 06 ; 5) , *-' 1 ' B ; D6' 620' /*1=6, -6' */*2*' 1-' ,) *' 26? *. ' 620' 6, *' 1 '6// ,) *' 1,) *-' 0*. >*2062, . ' 1 ' /*1=6, -6' 620' 2,) 12 ' 6-*' 92182' -1? ' 1,) *-' .1 ; ->*. % ; , ' ,) *' 6>>1 ; 2, ' 5 +*2' D ' B1. *=) ; . ' 1 ' ,) *' =6-*2, 65*' 1 ' -; . //6' .' ?1-*' >12. . , *2', ,) 62',) 6, ' 1 ' (6> , ; . ' 8 ' ,) ' ,) *' 21, >*' 2' ,) *' >, . ' D ' 8) >)' , ' 6==*6-. ' ,) 6, ' .) *' 86. ' 6' B*8 *. % 1? *') 6+*' . ; ==1. *0' ,) 6, ' */ L' ? 6-^ - *0' 2' . ; >>*.. 12', 8 ' -; . //6H' 620' >1 ; 2, *262>*' .' /*2, ' , 1' ,) .' 1,) *-8 .*' ?=-1D6D/*' >12A*>, ; -*' D ' 62' *L^ =-*.. 12' 1 ' ; *, 12 ; .' > ' LL+ X' 8) 1' >6//.' */ L' ,) *') ; . D620' 1 ' ,) -**' _ ; **2. %J' M *>' 1/0 ' # !' D !' =% S ' . _ %T & 6/>) ¯ ' ' @ ' B*2% ' =% SN ._ %X **' . !

2 . ; . ' (' ' : ' (3 ' 62' *? ^ 2*2, ' >-, >' 620' - *2, 6/ . , ' 86. ' D1-2' 6, ' ; 0*26-0 ' 2' /620*-. ' B ; 2*' KQ '620' 86. ' *0 ; >6, *0' 6, 4) *2, ' 620' 1 ; +6 2% : .' 6,) *-') 6+ 25' D**2' 1 ; , /68*0' 2' S ' 620' 0*=- +*0' 1 ') .' *. , 6, *' -*, -*0' , 1' 25/620 ' 620' -; . ; .' .112' 1//18*0') ?% : .' ?1,) *-' 8) 1' >12^ , 2 ; *0' 6' 1?62' 6,) 1/ > ' 0 0' 6// .) *' >1 ; /0' , 1' =-*+*2, ') ?% : .' . , ; 0 *.' 8*-*' , 69*2' >6-*' 1 ' 620' ?6. , *-. ' =-1+ 0*0' 1-') ?T 620') *') 60' .112' 62' 1==1-, ; 2 , ' 1 ' /*6-2 25' : *D-*8' ; 20*-' 2,) 12 ' *+*// *-' 8) 1' 8 >. ' >1? *' 1+*-', 1' 25/620 ' 620', 6,) , ' ,) 6, ' /625 ; 65*' = ; D^ / >/ ' 2',) *' $2 +*-. , ' 1 ' 6? D- 05*% -; . ; .' /105*0' 6, ') . ') 1) ; . *' 620') 60' 6' 5-*6, ' .) 6-*' 2') .' - *20.) =% ' *' 0 0' 21, ' -*, ; -2', 1' 12012', // ' 620' 8') /*') 1' 86. ' =-*=6- 25', 1' 51', 1' -62>*' ,) *' 2*8. ' 1 ' ,) *' ?6. ^ .6>-*' 12' ,% 6-,) 1) ' ? *8' HA60*') ?' >) 625*' B . ' -*. 1^ / ; , 12% 112' 6 , *-' ,) .') *' 86. ' 2+ , *0', 1' 6? D- 05*' D ' 6-, 8 - 5) , ' ,) *' =-1 *. . 1-' 1 ' 0 + 2 , ' 620',) *' - ^ *2, 6 / 625 ; 65*. ' ,) *-*' 6, ' ,) *' 65*' 1 ' , 8 *2, C, 81% : *' , 6 A5) , ' 6, ' L 1-0' 1 ; -' *6-. ' 8 ,) ' 5-*6, ' . ; >>*. . ' 6 , *-' 8) >) ' D* 25' 0*. -1 ; . ' 1 '-*, ; -2 25', 1') .' 182' >1 ; 2, - ') *' 8*2, ' , 1' 1 ; +6 2' 8) *-*') *' . , ; 0 *0' ,) *' > + / /68% ( ) *' , -1 ; D/*. ' 12' ,) *' 6>>1 ; 2, ' 1 '-*/ 5 12' 1D/ 5*0') ?' , 1' >1? *' D6>9' , 1') .' 6,) *-' 6, ' 12012 ' D ; , ' ; ==2' ,) *' =6^ > >6, 12' 1 ' 4) *2, ' S' ,) *' D=,) ' -*, ; -2*0' , 1' 1 ; ^ +6 2J' >7 ' ? !' ' ' + ' SX% : *' 86. ' ?60*' =-1 *. . 1-' 1 ' - *2, 6 / 625 ; 65*. ' 6, ' * 0*2' 2' '620' 1 ' : *D-*8' 6, ' -62*9*-' Q ' 8) *-*') *' 0 *0' *D% K ' S S% : .' 81-9. ' 8) >)' 6-*') */0' 2' 5-*6, ' *. , **? ') 6+*' D**2' 1-' ,) *' ? 1. , ' =6-, ' 2>1-=1-6, *0' 2, 1',) *' ' $!' ?125' ,) *' ? 1. , ' ? =1-, 62, ' 6-*' N ' % ' ? ' ' - ' ' ' M -2) *? . *' SKK ' , 1Xa ' & ' ' D ' " ' - ' M -62>9% S K ' , 1Xa ' 6 ' ? ' ' ' M -62>9% S ' , 1Xa ' ' $ ' ' ! M -62*9% ' , 1Xa ' ' $ ' ' % ' ' N ! ' - ' ' 2 ' 4 ' ' 7 ' ' M -62>9% QQ ' , 1Xa ' ' ' & ' ' ' D ' " D ' - ' M ? . , % SNK ' , 1X% 1-' 6 ' / . , ' 1 ') . ' 8 - , ^ 25. ' . ** >*-12 ' ' LL ' S T' . ** 6/. 1' >)^ 6-0' ? 12 ' # ' ! ' 7 ! ' -!' M 6- . ' SQ XT' ; C - 620*-' N ' ' ' M -62> % S SXT' 6 /* ' ' ' .% % T : *-[15 ' 5 =6 + %! ' KR%

2 ,) ? 6- ' g 6' ? 129' 2',) *' 6DD* ' 1 ' 1-D* ' 2',) *' 2 2,) ' >*2, ; - ' 86. ' D1 ? ' 2' _ ; , 6 2* ' 620' 6 , *-86-0. ' , 6 ; 5) , ' 2',) *' ? 126. , *- *. ' 1 ' , 6, +*/1' 620' < 6/ ? *0 ' 2',) *' 0 1>*. *' 1 ' 5*% : *' /* , ' 6' >1? ^ ? *2, 6- ' 12' , % < 6, ,) *' 8 ' M , -6. D ; -5 T' : 65 ; *26 ; ' N ' 1DX% ' , ' >12, 6 2. ' .1?*' 1= 2 12. ' -*. =*>, =5' , -62. ; D. , 62, 6, 12' 0*> 0*0/ '1==1. *0', 1',) 1. *' 1 ' ? 10^ *-2' 1? 62 . ? ' ,) 1 ; 5) ' ,) * ' 8 *-*' -*56-0*0' 6. ' S, ,) 1C 01L' 6, ' ,) *' , ? *' 1 ') .' 8 - , 25% : *' >1? ? *2>*0' 6' >1? ? *2, 6-A 7 2' , % ; 9*' 620' , % B1) 2 ' 8) >)') *' 0 0' 21, ' / +*', 1' 2 .) % 1-' , % < 6-9') *' -* *-. ') .' =; = /.

,1' 6' >1? ?*2,6- ' 1 ' *0*% l : .' >1? ?*2,6- ' 12' ,% ' ;9*' 620' ,%B1) 2' 86.' =- 2,*0' 6,' : 65; *26;' 2' B ' 2' ,) *' ; " ' 'M,%L+ ' =%QSX% ()*' *0 , 12' 1 ' : 65; *26;' 86.' *0 ,*0' D 'B1) 622' *>*-'6' ;,)*-62 ' 620' & *,[*-' ;20' & */,*' >) " = &" 1' 'NIK X .6 ' ,) 6,')*' =*-+*-,*0' 620' 56-D/*0' ,)*' ,*L,' .1' 6.' ,1' ?69*' ,' 1==1.*' ,-62. ;D.,62, 6, 12% : .' ,*L,' -; 2.a' : 1>' >.-,' >1-=:,.' ?*; ?' ; % *% 2' 6>-6?*2,1' % % % ,-62. *-*2.' % ' >1-=;.' 2' =62*?' 2' + 2; ?' .625; 2*?%J 2' ,)*' 1,)*-')620 ' X L,;.' 1 ' *26' 6..*-,-' ,) 6,')*' 1;-,0' 6' < % 2' ,)*' -62> .>62' ?126.,*- ' 6,' 12. ' 2' 8) M7' ,)*' 81-0.' -; 2a' : 1>' *.' >1-=:,' ?*; ?' " ' *.,' +*-*' ' ' " ' % % % % ' >,' ' ' 1' *#' & *,[*-' ;% & *,*/,*') " = + 2# %>%T ;= 2' 6 ' 1' >*2,' L T <1.)* ?M VO# # 1' >*2,' L' >)6=' ' 2% ST * // *-' A/;V*6-.' 6 2 4 1' 6- .' QSK' L ' R' ._%% : *-[15' 5 26 # %' ' N % - 620*-% *#' > - ' ' - .06/* ' (' ' % %' 62' *? 2*2,' 0 + 2*' 1 ',)*') ;->)' 1 ' >1,/620' 86.' D1?' 2' QT *2,*-*0' ,)*' $2 +*-. , ' 1 ' 0 2D;-5)' 2' NKT D*>6?*' ? 2 .,*-' 1 ' ;9/ .,12' 2' QT 6==1 2,*0' ? 2 .,*-' 1 ',)*' (-12' >);->)' 620' 6/.1' 9 25 .' >)6=/6 2' 2' S T 620' 0 *0' 2' QQ% : *' 86.' 12*' 1 ',)*' /*60*-.' 1 ',)*' ?10*-6,*' =6-^ , ' 2',)*');->)' 1 ' >1,/620' 620' 86.' .;==1.*0',1' D*' 2>/ 2*0',1' -? 2 62 .?% #*').' $ 1' S "' ' " ' ' / 'M 0 2D% RN K'+1/.% I 3! ;6/ .? ' 2'=) /1.1=) ' .',)6,'. .,*?' 8) >)' *L^ =/6 2.' ,)*' =)*21?*26' 1 ',)*' ;2 +*-.*' D ' 6..; ? 25' ,81' % '% % ' 2.,*60' 1 ' 12*' M<12 .?X% 2' ,)*1/15 ' ;6/ .?' *L=/6 2.' *+ /' D ' 6..; ? 25',81' 1- 5^ 26/' =- 2> =/*.' 1-' D* 25. ' 12*' 5110' ,)*' 1,)*-' *' /% ()*' 0*>)-,- 2*' 1 ',81' =- ?6/ >6; .*. ' 12*' 5110' 620' ,)*' 1,)*-' *+ /' >12.,62,/ ' 86-- 25' 8 ,)' *6>)' 1,)*-' /6 ' 6,' ,)*' 1;206, 12' 1 ',)*' . .,*?' 1 'U1-16..*-' M % +%X% ' 86.' 6/.1' 0*+*/1=*0' /6,*-' 2' <62 >)*. ?' M % +%X T 6?125' ,)*' >/6+12 62.' 8)1' 0; - 25',)*' _2.*-+6/' D*^ ,8**2',)*' -' ;20 .,; -D*0' 6 ,)' 2',)*' -' 26, 126/ ? ,)1/^ 15 ' 620',)*' -' >12+*-. 12',1')- ., 62 , ' 600*0',1',)*' 81-.) =' 1',)*' 5110' D* 25',)6,' 1 ' 6' .;=-*?*/ ' *+ / 12*' + [% [*-2*D15' M,)*' /6>9' 410X I '5 1' =- /' Q '=% X% ' ,86.' 2',) .' >/6+12 >' .1 / ,)6,' ,)*' -*2,6/ 0;6/ .?' 1;20' 6' >125*2 6/)1?*' 620' -1?' ,' .**?.' ,1')6+*' 1- 5 26,*0',)*' 0;6/ .?' 1 ',)*' 6,)6-' 620' 1,)*-' .*>,.' 0;- 25',)*' < 00/*' 5*.% *>' ' ! ,.' -11,' .' 6/86 .' 1;20' 2' ?=*- *>,' .=*>;/6, 12' 12' ,)*' -*/6, 12' 1' 410',1',)*' 81-/0' 620 12',)*' 1- 5 2' 1 ' *+ /% ,' .' 6=,',1' .=- 25';=' 6/.1' 2',)*'=-6>, >6/ .=)*-*' -1?',)*' ,*2.*' 1 '=*-.126/ . 2' 8)>)' .**9.' -*/ *' ' 2' 6' ,-62. *-' 1Y5; /,' -1?',)*' -*6/ .*/ ' ',)*' ?62 ' ,1' .1?*^ ,) 25' 1;.. 0*' 1 ') ?' *% 5% ,1',)*' =) 7. >6/ . 0*' 1 ') .' 182' 26,;-*' 1-',1',)*' 5*2*-6/ /68 .' 1 ' 26,;-*% % , ' ' ! ' ()*') 2*.*' 6,' 6' +*-A' *6-/ ' =*- 10' 601=,*0' 6' 026/ ., >' =) /1.1=) ' 620',)*1/15 % ()*' 1-0 26- ' .=**>)' 1',)* -' =) /1.1=)*-.' 86.' 0;6/C ., >' ?=/ 25',81' =- ?6/ *..*2>*.' 12*' 6' =18*-' 1-' >6; .*',)*' 1,)*-' 6' ?1-*' =6.. +*' .1?*,) 25' 12' 8) >)' ,)6,' =18*-' 1-' >6; .*',)*' >1; /0' 1=*-6,*% ()*' 1-?*-' ?6%I7 D*' ., /*0',)*' ;/, ?6,*' ' '=- 2> =/*' 1',)*' ;2 ^ +*-.*' M *X' ,)*' .*>120' >12. ., 25' 1',)*-*6/ ?6,,*-' .',)*' ;/, ?6,*' =- 2> =/*' I) P8' ()*' /6,,*-' 656 2' .' 0;6/ I '620' [8X'+ [%',)*' =6,*-26/ 620' ?6^ ,*-26/' =- 2> =/*.' 2' 26,;-*% <62' .',)*' =-10;>,' 1' ,)*' ?6-- 65*' 1',)*' ?6/*' 620' *?6/*' =- 2> =/*.' 2' 26^ ,;-*' < '620' '>1*L ., 25' 6.',)*' ?6,*- 6/ 5-1; 20' 2' 8)>)',)*' ;/, ?6,*' =- 2> =/*' I 6 1',69*.' * *>,' *2,*-' 2,1',)*' >1?=1. , 12' 1 '-6, 126/ 6.' 8*//' 6.' 1 ' 2'6, 126/ D* 25.% 2' ?1-6/ .=*>;/6, 12')18*+*-',) .' 0;6/ .?' =6..*0' 2,1' 6' .1-,' 1 '=62,)* .?!' M : 6-0 8 >9 ' " ' 1' =,% ' >)6=% X% ()*' ;6/ .?% ()*' *-. 62' . .,*?' 8)*,)^ *-' 1- 5 26,*0' D ' U1-16..*-' 1-' 8)6,' .' ?1-*' /9*/ ' ?10 *0' D ') ?' -1?' 1/0*-' 01>,- 2*. ' ,6; 5),',)6,',)*-*' .' 6' .;=-*?*' * 25' 6// =18*- ;/ 620' *,*-26/' -1? 8)1?')6+*' *,*-26// ' =-1>**0*0' D ') .' >-*6, +*' 81-0' I# (8',81' =- 2> =/*.' , /"' 620' &" :' -C' ?; [0' I, 1' D* 25' =;-*' 620' 2 2,*' 5),' & .^ 01?' 620' *- *>, 12',)*' -*6,1-' 1 '*+*-AI7 5110',) 25T)- ?62',)*' =- 2> =/*' 1 '06-92*..' 620' *+ /' 1==1.*0' ,1' -?;[0' *,)*-' 1- 5 26// ' 1-' 2' >12.*.;*2>*' 1 ' / ' 6//% (1',) .' D*/ * ' 6-*' 6,,6>)*0' 6D/*.' -*.=*>, 25',)*' >12 / >, 25' * 1-,.' 620' >-*6, 12.' 1 ',)*.*',81' =18*-.T 12',)*' ;2 +*-.6/ 01? 2 12' ;/, ?6,*/ ' -*.*-+*0' 1-',)*' 5110' =- 2> =/*' 620',)*' -*,;-2' 1 ')- ?62' 0;- 25' 1;-' =*- 10.' *6>)' 1' 8)>)' .',/6..',)-**',)1;.620' *6-.T 12',)*' 5110' 620',)*' *+ /' .= -.' I& " % ' -/ ' @ ' 620' ' (8' 6207A,)* -' 0 *-*2>*.' 1' .*L' 620' -629T 12',)*' .1;/.' 1' ?2*' I@ 8' 8)>)' >6,*0' DA' -? ; [0' D* 1-*I',)* -' ;2 12' 8 ,)' ,)*' D10P7)6+*' ,)* -')6D ,6, 12' 2',)*')*6+*2.T 620' 8)>)' ;/, ?6,*C' f' 6>>1-0 25' 6.' 2',) .' 81-/0',)* ')6+*' .*-+*0' -C' ?; [0' 1-')- ?62' =6..' 6 ,*-' 0*6,)' 2,1',)*' 08*// 25.' 1',)*' D/*..*0' 1-' 6-*' =-*> = ,6,*0' 2,1' 1D.>;- &a' 26// ' -*.=*>, 25',)*' ;,;-*' .*,:--*>, 12' 1',)*' D10*.' 1',)*' 8 >9*0' 6 ,*-',/ *' +>,1-E' 1' -? ; [0' 620',)*-*.^ ,1-6, 12' 1' 6//' ,) 25.!' M(*22*?622' '# ' " %" ' g T .**' 6/.1' 6-08 >9' " ' ' " ' 1 '=,%' >)% X% ()*' - *2,6/ ;6/ .?' -.,' .*,' ,)*' I%E *' ?6,,*-X' 6.' 62' 1- 5 26/ =- 2> =/*' 1+*-' 650 2.',)*' 0 + 2 , % ()*' 6.,*-2' =) /1.1=)*-.' .112' 1;20',2*>*..6- ',1' -;2' 2,1' 62,)*. ?T 1-',)*' 2*^ >*.., '1';2 ,E' =-*.. 25' 12',)*?',)* ' 1;20' 21' 1,)*-' 86 '1 '*.>6=*' *L>*=,',1' ?69*' 410',)*' .1;/1',)*' 81-/0% ;,',)*' 5;/ 'D*,8**2' ?6,,*-' 620' 0 + 2 , '.., //-*?6 2^ 25',)*')60',1' 6// ;=12',81' =- 2> =/*.',)*' ?6,*- 6/ 620' .= - .,;6/T 620' 2_,' 8 // 25',1' 0*2, ',)*' 1- 5 26/ .= - .,;6/ =- 2> =/*' 8 ,)' ?6,,*-' 06-92*..' 620' *+ /' ,)*' */ ;=12',)*' 0*6' 1',81' 62,6512 .,>' D* 25.' 1-' 510.' 6' 5110' 620' 62' *+ / 12*',)*' 510' 1 '/ 5),' 620',)*' 510' 1 '06-92*..',)*' 510' 1 '?6,,*-' 620',)*' 510' 1 '.= -^ , ')- ?62',)*' +*+ / =- 2> =/*' 620' -?; [0',)*' 5110% K% ' ' '" ' " ' 7-*%C0() .' - *2,6/ ;^ 6/ .?' >6-- *0' 1;' 2,1',)*' +6- 1;.' 0*=6-,?*2,.' 1' 26^ ,;-*' 620' ? 20' 620' *?D*// .)*0' /X' 22;?*-6D/*%)*6;C ' ;/ 62>*.')60' 6' 5-*6,')6-?' D-',)*' ?65 26, 12' 1' *+*2',)*%=- ?, +*')- ., 62' ? 20' 620' ,'.**?*0' 6/.1' ,1' 1-?' 6' >*-,6 2' 9 20' 1' 26,;-6/ 620' *6. ' 6// 62>*' 8,)',)*' 01>,- 2*.' 1' 5110' 620' *+ /' 410' 620' 6,62' .= - ,' 620' ?6,,*-' 2',)*');?62' >12.,;,12' 6.',)*.*' 6-*' ;2 1/0*0' 2',)*')- ., 62' -*+*/6, 12' .1',)6,',)' 026/ .,>' ?10*' 1',) 29 25' 6/*0' 21,',1' 2. 2;6,*' .^ .*/'/6-5*/' 2,1',)*',) 29 25' 1' ?62' 2',)*' =- ?, +*');->)% ,')6.' 6/.1' -*+*6/*0' ,.*/ ' ?1-*' 1-' /*..' 2' +6- 1;.' .*>,.' 620' ..,*?.' 2' *+*- ' =*- 10' 1')- .^ ,62').,1- '620' ,.' 6/.*',)*1-*.')6+*' 1 ,*2',-1;D^ /*0',)*' ? 20' 1',)*');->)' 2' ,)*' 0*+*/1=?*2,' 620' .,6,*?*2,' 1' ,.' 015?6.% ();.' 2' 421., > .?' 620' *.=*> 6// ' 2',)*' 1>*,>' =)6.*' 1' ,' ;6/ .?' *2^ ,*-.' 6.' 6' -;/ 25' */*' ?*2,% ()*' 421., >.' 1;20',0 ^ >;/,',1' *L=/6 2',)*' *L .,*2>*' 1',)*' .*2. D/*' 81-/0' 620' *.=*> 6// ',)*' *L .,*2>*' 1' *+ /' 12',)*' 0 -*>,' 6.^ .;?=, 12' 1' 12*' 6D.1/;,*/ ' 5110' * 25% :*2>*',)*' ? L*0' 2,1',)*-',)*1-' .1?*' */*?*2,' 1',)*' -*2,6/ =) /1.1=) % ()*' ',)1;5),',)*?./*/+*.'>1?=*//*0',1' >1?D 2*' 8 ,)',)*' 01>,- 2*' 1' *?626, 12',)6,' 1' ;6/^ .?' 2' 1-0*-' D ',)*>1?? L,;-*' 1',81')1., /*'-*6/?.' D ',)*=-10;>,.' 1' ,81' 1==1.,*+=- 2> A *.',1' *L=/6 2',)*' 1- 5 2' 1 '6' 81-/0' 21,' 62.8*- 25',1',)*' 0 + 2*' 0*6' 8 ,/' 6// ,)*' 0* *>,.' >/*6+ 25',1',' 6// ,)*' *+ /.' ,'>12^ ,6 2.J' M *620*-' # ' ' " ' ! " " ' 1)2 .' *0% ' L ' X% 1-',)6,'1',)*' 6,)6- ' .**' ' ! ()6,',)*' 6.>*,>',*20*2> *.' 1',)*' *6-/ ')- ., 62' 65*' 8*-*' .,-125/ ' ., ? ;/6,*0' ' 21,' ;2>12.> 1;./ ' >6;.*0' D '6' /*6+*2' 1 ' .' 6/ .?' >62')6-0/ ' D* 01;D,*0% '06-9' 2., 2>,'1 '6' .,6,*' 1 '6D21-?6/ 620' 0625*-1;.' 62, =6,) ',1' 410' /*60.',)*' 0*+1,**',1' ,69*' +*25*62>*' 2',?*' :=12',)6,'=6-,'1 ') ?.*/ ' 8)>)' .' 1;.. 0*' 620' 8)>)' ?6 'D*')6-0/ ',-*6,*0' 620' *+*2',1-,;-*0 ',)' 6-' /*..' >1.,',)62',)*' -*2*86/ 1',)*' .= - ,' 1 ') .' ? 20' 620',)*' D- 25 25' 1 ') .' 8)1/*' 22*-' ?62' D6>9',1' 5-6+C

,6,*’ ,1866-0.’ 410’ 2.,*60’ 1 ’ ,;-2 25’ ;=12’ ,.*/ ’ / 2 ’ 6,’ 8) >)’ ,*2’ >6212.’ 8*-*’ =;D/ .)*0’ 1-’ -* 1-?6^ <62*.’ *20*6+1-*0’ ,1’ ;2 ,*’)-., 62 , ’ 620’ ,)*’ 21^ 12’ 1 ’?622*-.’ 620’0 .> =/ 2*’ 12*’ 1 ’,)*?C 1-D 0C’ D/*.,’ 1-?’ 1 ’ - *2,6/’ =6562 .?’ 2’) .’ D- // 62,’ 620’ 0 25’,)*’ >/*-5 ’,1’ =/6 ’6,’,*22 .’ ;=12’=6 2’ 1 ’6’ 2*’ */6D1-6 */ ’C’>12.,-;>,*0’ .=*>;/6, +*’ . .,*?’ ( )*’ 1 ’,8*2, C 1;-’ =12>*’ 1-’ *6>)’1 *2>* ’)6/ ,1’D*’ =6 0’) ;->)’-*=;/.*0’,)*’)*-*. 6->)’D*>6;.*’ 1 ’) .’ =*-.12^ ,1’,)*’D .)1=’620’,)*’1,)*-’)6/ ,1’,)*’ >) ;->)’1 ’,)1’ 6/’=-*,*2. 12. ’) .’ - +6/’) *-6->) ’ 620’) .’ ,11’ 1=*2’ =/6>*’ 8)*-*’ ,)* ’ =/6 J’ M& 19 2. ’ ’ SS X% ?=1-,6, 12.’ -1?’ ,)*’ -*/ 5 12’ 1 ’ *-. 6’3 D$*’ ,’ 86.’ C!’ 2’ S ’ ,)*’ 6->)D .)1=.’ D .)1=. ’ 620’ >/*-5 ’1 ’ 21,’ ,)*’ /*..’ =-1 1;20/ ’ ?10 *0’ D ’ ,)*’ I,*20*2> *.’ -*/620’ 2’ >12+1>6, 12’ ()1?6.’ B12*. ’ 6->)D .)1=’ 1 ’ 8) >)’ ,’ 21? 26// ’ -*A*>,*O% <126., > .-6’ 2’ - 6’ ;D/ 2 ’ D* 25’ .=*69*-’ 1 ’ ,)*’ : 1; .*’ 1 ’ .)1=.% 2’ 620’ 5 =,’ 86.’ ,)*’ 0 -*>,’ -*. ;/,’ 1 ’ ,)*’ >12,6>,’ 1 ’0*^ .)’ . 210’ >*-,6 2’ 6-, >/*.’ 1 ’-*/ 5 12’ -6?*0’ D ’ $.)C 5*2*-6, 25’)- ., 62 , ’ 8 ,)’=6562’)6D ,.’ 1 ’,)1;5),% 7-’ 2’ 12*’) ;20-*0’ 620’ 1;-’ .*>, 12. ’ 20*-’ 2 2*.**2’ ()*60’ 0*6’,)6,’6D., 2*2>*’ -1?’ 110’ 86.’ ?*-.,1- 1 ;.’ 2’)*60.’ MA12+* 25’,)*’ 6/+ 2 ., >’01>,- 2*’ 8*-*’ 0-6 8 2’ ,.*/ ’,)*’ 21, 12’ 1 ’ ?=;- , ’6.,6>)*0’,1’,)*’ .*L;6/ -*^ ;=’ 620’ 6==-1+*0% ()*.*’ 6-, >/*.’ 2>/;0*0’ ,)*’ >*/*^ /6, 12’ ,)*’ 5-18 25’,*20*2> ’,1’/119’ ;=12’ ?6-- 65*’ 6.’ D-66, *0’ 6?D*,)’ 6?’ 1’ ,)62’ >*/ D6> ’ ,)*.0’ 8*-*’ .1’ ?62 1’ ,)*’ 6/+ 1’ ,)62’ >*/ D6> ’ ,)*.0’ 8*-*’ .1’ ?62 6’ .,6,*’ /*..’)1/ ’,)62’ >*/ D6> ’ ,)*.0’ 8*-*’ .1’ ?62 ,-;?=).’ 1 ’,)*C 2+60 25’ =6562’ >12>*=,12% ()*’ *--1-.’ 620’ *L,-6+6562> *.’ 1 ’,/ *’ 6.>*,>’/ *’ 8*-*’ *.^ =*> 6// ’ =-*+6/*2,’ 2’ ,)*’ 6.,*-2’);->)% >)? 0’ _;1,*.’6;,)1- , *.’,1’.)18’,)6,’-*?*?D-62>*.’1 ’<62C >).* .?’ 8*-*’ /125’9*=,’;=’ - *2,6/ >12+*2,.’620’ 6/.1’,)6,’.;20- ’4-**9’?129.’ 2’,)* -’.1/ ;0*’ ?65^ 2*0’,)* ’D60’ >12.,62,/ ’,1’ .,-;55/*’ 8 ,)’,)*’ 0*+ /’ 8)1.*=18*-’,)* ’?652 *0’;2,/ ,)* ’=;,’ * ’6/?1.,’ 12’6’-629’ 8 ,)’ 410J’I ’ ; ’ =-/’ Q ’=% T’.-*’6/.1’ *6’$ ’ !’) /6% QS ’=% K’ ._%X% ( )*’ =-15-*..’ 1 ’ =) /1.1=) ’ 620’ ,/ *1/15 ’ 2’ 6//)-.,62’65*.’)6.’D**2’6’>12, 2;1;’..-;55/*’,1’1+*-^ >1?*’ ;6/ .?’,1’D- 25’ 410’620’,)*’ 81-/0’,)*’ 2 ^ 2,*’620’,)*’ 2,*’)*6+*2’620’*6-,)’.= -,’620’ ?6,^ ,*-’,15/*,)*-’620’,1’01’,) .’ 8 ,)1;,’ + 1/*2>*’,1’,)*’ *..*2, 6/ 26,;-*’1’*,)*-’DAC 12’,)*’12*’)620’>12^ ;. 25’,)*?’1-’12’,)*’1,)*-’6/?) /6, 25’12*’1-’,)*’ 1,)*-’D’0*2, >6, 12’1’,)*?% 62,)* .?’6.’,’)6.’ .=-;25’;=’12’,)*’6-*26’1’?10*?’,)*1/15>6/2+*., ^ 56, 12’)6.’D**2’62’*6-2*.,’,)1;5)’? .,69*2’* 1-,’,1’ 1+*-*>1?*’ ;6/.?% <;>)’6.’ 62,)* .?’.’,1’D*’6D^)1--*0’620’0-*60*0’ *,’1;5),’ ,.’ .*-+>*’,1’D*’6>^ 9218/*05*0’ 2’)*/= 25’ =) /1.1=) ’ 620I’,)*1/15 ’,1’ ?6..*-’ 26/ .22’ ,’)6.’D1,)’.;55*.,*0’620’., ?;/6^ ,*0’,)1’?1+*?*2,’,)6,’6 ?.’6,’,)*’>-*6, 12’1’6’>)-.C ,1/15 >6/,)*1/15A7 620’ 8*’ ?6 ’6/.1’ .6 ’=) /1.1=) ’ 8)>)’9218.’12/ ’,1’ 2*56,*’620’ 8)>)’ 2’ 6’ >186-0/ ’?622*-’)6.’ 12/ ’ 5 +*2’ ;=’,)*’5-*6,’ ;206?*2,6/ =-1D/*?.% ,’)1/0.’ ,)6,’,)*’5-*6,’5;/’>62’D*’620’>62’12/ ’D*’D- 05*0’ D ’,)*’ 410C?62’ 2’ 8)1.*’? .,*- 1;.’=*-.12’6//0;6/^ .?’.’1+*->1?*’,)*’>*2,-*’620’=*-*22 6/.1;->*’1 ’ 6//’/ *’620’,)1;5),’,)*’=- 2> =/*’1 ’6//’;2 , *.’620’ ,)*’;2 , ’1 ’6// =- 2> =/*.’,)*’8)1/*’1 ’6//’,)6,’.’0^ + 0*0’,)*’)6 ?12 ’1 ’6//’?62 1/02*..’620’0 +*-. , ’ ,)1’>*2,-*’1 ’6//’.> *2>*’620’,)*’ ?=*-6/’2>6-26,*’ &1-0’1 ’6//’6;,)1-, ’620’,-;,)’,)*’ 26/ -*.,’1 ’6//’ ? 20.’6.’)*’ .’6/.1’1 ’6//’)*6-,.% ’ :6-08 >9’ ” ’ ’ ” ’ ’ ’M *20% QSN’K’+71/.% K?1X’ 1-6*-’ ’ ’ ’ ” ’ ’ ” ’M.**’ 20*LX’ :65*2C D6>)’# ’ ’1 ’ ?,)’*O%’g K’-” !’ $ ’ ’) + ’M QN X’=% N ’ 625*’ D ’ ’ ” ’ M 0 2D% Q ’S’+1/.% Q+1X’ ’ N ’._%’ :% >)?0’2’ : *-[15’5 2=6 +!’L L’ N7%

;’ 6L,6.’&$ $ ’ ’ $ ’6’-*2>)’ -1,*.,6A ’=1*,1’,)*’.L,**2,)’>*2,;- ’D1?’6D1;,’ ’2*6-’ ;>)7’2’ -62>*’ 0*0’ R% :.’=1*?’12’ ,)*’ 1D,6 2*0’.1’5-*6,’>*/*D-,’,)6,’2’,)*’ >1;-.*’1’.L’ *6-.’?1-*’,)62’,)-,’*0,12.’1’,)*’ -.,’ ’*?6 2*J’8*-*’=;D/.)*0% ,’ 86,’-62./6,*0’ 2,1’ 6, 2’ ,6/ 62’ =62 .)’4*-?62’620’ 25/.)’ ()*’ 25/.)’+*-.12’.’*2, ./*0’’ ’ ; ’” ’ ’ ’ + ’ ,-62./6,*0’D’B% /+*.,*-’M *20% S ’1DX%

;D/ 2’,)1’>6= ,6/1’-*/620’12’,)*’-+*-’ * % $ ’ ’’ % ’ *+*-6/?=1-,62,’ ’)6+*’ D**2’)*/0’6,’ ;D/ 2% ’ 2’ % % QS’>)*/’,1’-*^ D;9*’,)*’0-;29*22*..’620’2>12, 2*2>*’/*-5 % K% 2’ Q’;20*-’& //6?’ 19*) ’6->)D.)1=’1’ ;D^ ’ =-% K’._% 2 % ’ ()*’ $1/*5*X1’86.’1;20*0’2’ RK% ’ .’ 2’ 6>,’6’>1//*5*’ 8 ,)’,)*’ =18*-.’1’6’ ;2 +*-. , % (-2 , ’ 1//*5*’ 20 7’86.’2,*20*0’?*-*/E76.’,)*’2;>/*;.’1’6’ ;2 ^ +*-. , ’D;, ’6.’21’>1//*5*.’)6+*’ .2>*’D**2’6200’ ,’ -*?6 2.’ 2’ ;20 .=;,’*0’ =1..*.. 12’1’6//’ ;2 +*-. , ’ =-+/*5*.% #;**2’ /[6D*,)’=-1+ 0*0’,)*’ >)6-,*-’ ,)*’ >1-=1-6, 12’1’ ;D/ 2’D*.,18*0’,)*’ 5-1;20’620’ -;2.’1’,)*’.;==-*..*0’?126.,*-’1’ //C:6//18.’ 620’,)*’ - .)’ 5*2,-’ .;==/*0’D’ .;D.>-=, 12’ ,)1’ ;20.’2*>*..6-’1-’,)*’*-*>, 12’1’,)*’D; /0 25.% ()*’ 2>1?*’1’,)*’>1//*5*’86.’+*-’/?,*0’620’+*-’?=-*^ >6-1;.’,’ /!’B6?*.’’*2018*0’,’8 ,)’>*-,6 2’*..6,*.’2’ ,)*’=-1+ 2>*’1’$/.,*-’620’6’ *6-/’=*2.12’1’cNQQ’ .%I 25/.)’?12* ’ -1?’,)*’=;D/>’=;-.eJ’MM)6?C D*-.’6 % ’.% +%X% ()*’>1//*5*’)6.’2’,.’5 ’ ,8*2, C12*’);->)’/+25.% N% # ” % ’ 2’*= .>1=6/ .**’86.’*.,6D/ .)*0’6, ;D/ 2’2’ NQ’D ‘9 25’ ,-9’620’2’ K’,’86.’?60*’ ,)*’.**’1 ’62’6->)D9)1=% 2’,)*’ .,6D/ .)*0’);->)’ ;D/ 2’.’218’M QSQX’,)*’)*60’1 ’6’=-1+ 2>*’ 2>/;0 25’ .L’D.)1=- >.’ [% ;D/ 2’ ..1- ’*,>% 6.)*/’*,>% ?*- >9’*,>% //6/1*’*,>% ’620’ 1-9’*,>% ()*’=-*.^ *2,’ 6->)D.)1=’.’ >)6-0’)*2*+ L’ (-*2>)’ % % ’ =- ?6,*’1 ’ -*/620’620’?*,-1=1/ ,62’>12.*>-6,*0’ QSN% ()*’ 1?62’ 6,)1/>’);->)’)6.’6/.1’62’6->)D.)1=’ 6,’ ;D/ 2’6,’=-*.*2,’M QSQX’6;/’ ;//*2’>12.*>-6,*0’ Q ’620’6’>6-0 26/.2>*’ QSS% ()*’.; -6562.’1 ’ ,)*’ 1?62’ 6,)1/>’6->)D.)1=’6-*’,)*’D.)1=.’1 ’ .C + ’ /06-*C *5)/2’620’ *-2.% **’ *)*-’) ” !’ $ +’’K % ;D/ 2’<62;.>-=,’: .’ $ ’ 4’ .> ($.X’.1’>6//*0’-1?’(-2, ’ 1//*5*’ ;D/ 2’ 2’ ,)*’/D-6-EI7 1’8)>)’,’ 86.’0.>1+*-*0’D’ -% B1)-7’ 6--*,,’2’ Q’8-.,,*2’;20*-’.1?*’>;-.+*’4-**9’*L^ ,-6>,.’?60*’2’,)*’,*2,)’>*2,;-’ -1?’)-.1.,0?’ =)62;.’*,>% ,’.’,.*/’?;>)’1/0*-’=-1D6D/’1’ ,)*’.L,)’>*2,;-’620’1’ ?1.,’ ?=1-,62,’;2>6/ =6/?=.*.,.’1’,)*

41.=*/. '1 '8) >)' ,' .'0*. 526,*0'6.' 10*L'U¼ () -, 7' =;= /' 620' 1-',)6,' *20' >122 +*0' 6,'6//) .' *L>*..*.¼
,81'1 ',)*' /*6+*.' >12,6 2'6'/6-5*' =6-,'1 ',)*' 41.=*/1 ' 26// ')*' ._>>**0*0' 2' SRK' 2' 20;> 25',)*' 0;9*',1'
<6,,)*8' 2',8*2, C,81' -65?*2,.'M ' C 'ST' 'NC' ?6-- ' <60*?1 .*//*' 0*' /1 .' 6' /*5 , ? [*0'06;5),*-'
K 1' +' 7 NT' +' C+ ' 1' +;' SC+ ' 1' L' CL 'BQ(T 1' 1; .' d '8)1' -*86-0*0') ?' 1-',) .' .*-+ >*' D '
L ' 7L ' 1' L 'S CL +' NT' L+'/ CKNT' L+ 'RC' 5 + 25') ?',)*' 6DD* '1 ' ,¼B;.,¼ & *' 218' 20') ?'
1' L+ 'KSCL+ 'ST' L L' C KT' K CKQT' LL' CLL 'QT' ?6 2 6// ,) *' =1/ , >6/' *+*2,.' 1 ',)*' , ?*¼ (81'
LL 'KNC 1' LL ' SCK '1' LL ' N CLL 'NT¼ LL ' NC' ; *6-.'6 ,*-',)*' 0*6,)'1 ' 1; .' d ')*' 86.' ?60*' >1;2C
KNT' LL +' CK 1' LL+' C 1' LL+ ' K CKRT' SKC X¼ 10//1 '¼1'..6,*' D ',)*' -*5*2,' 620' .112' 1;20') ?.*/'
()*.*' 8*-*' =;D/.)*0' 2' 6>C. -6 /*' 8 ,)' 6' M21,' +*-' ¼6',,)*' / *60' 1',)*' 51+*-2?*2,¼ 2,*2,' 12/ '12' ;-C'
6>>;-6,*X' 0*>=)*-?*2,' 2' 1-0 26-',=*') ' -¼ 6-^ 7,)*-25') .' 182' 2,*-*,..' ;D1 . .'=1/>'86.',)*'=-*I'
-*,,'M ;D/2' Q X'620',)*')6+*' . 2>*' D**2' >6-* ;// '' > .*' 1==1. ,*' 1' 1; .' d ' .'620',)*' D*>6?*',)*' 1D*0 C'
-*.,1-*0' DE76')*?>6/=-1>*..'D ' -¼(-*5*//*.¼ 6>)' *) '65*2,'1' 25/620'8 ,)' 8) >)'=18*-' 620' : 1//620'
=65*' >12,6 2.'D;,'12*' >1/;?2'5*2*-6// '1 'KK' /2*.' 2')*' >12>/;0*0',)*',-*6,A7'>6//*0',)*' ()-** 1/0' // 62>*'
_;6-,1¼' ()*' ?2 12 62' .*>, 12.' 6-*' 5 +*2' D;,' 21,' 6,' : 65;*' B62¼ ==1 2,*0' ?2 .,*-' 1' 1-^
,)*' ;.*) 62' >6212.1' ,)*' --d1' 6-*' 8-,,*2' 6,',)*' *52'6 6 -.' ;D1 .' 8 .)*$',1' D*' 6/.1'6->)D .)1=' 620'
,1='1 ',)*' =65*.',)*2;?D*-.'D* 25' .*,' 2',)*' ?6-5 2¼ *.=*> 6// '>6-0 26/'6.' >)*/*;'620' <6[6-2')60'D**2¼
()*' 8-, 25' .'>12, 2;1;.',)*' '=1 2,'*,)*-'-6-*/' :*')60'>6;.*0' 1-',)6,'*201',)*' D;// 2 ',1' D*'
1;20'1-' ;.*' 86.)*0'1;,1',)*' 6DD-*+ 6, 12.'6-*' +*-' -*5 .,*-*0' 2' -62>*' D;',)60' 1D,6 2*0' 21,)25' D;'
8'620',)-*' 6-*' 21'D-*6,)25.'1-'6>>*2,.¼ '.=6>*' 6,6 /*6' 1-',)6,'*201',)*' D;// 2 ',1' D*'
=-1=1-, 126,*,1',)*'1>>6. 12' .';.;6// '/* ,'8)*-*',)*-*' =-1 2?D-6'D*>1? 25' +6>62,' ;D1 .' 6==/*0' 1-' ,'6/^
.'6' D-*69' 2',)*' .*2.*'620',)*' >6=,6/.'*L,*20' 2,1' ,)1;5)')*')60'12/ '-*>* +*0',)*',12.;-*'8 ,)1;,'D*^
,)*' 26-5 2'8)*2'6'2*8'.*>, 12'D*5 2.I' ()*'/*,,*-.' 25' 2')1/ '1-0*-.¼ ()*' -*5*2,' 6>>*0*0',1') .'0*C'
6-*' 2'6'=/6 2'.,*60 'D*6;, ;/)620'.1?*' Q 1-'K.' 12620'620'6 ,*-' -*>* + 25'6// ,)*' 2*>*..6-' 1-0 26C'
2'6'/2*¼'(*5*//*.' 2' :1-2*.' ' +' Q '._¼T', 12.' 2'12*'06 ' ;D1 .'86.'>12.*>-6,*0'B;2*'R K
>-+*2*-' '=¼//H'._¼ **' $ / '8 L'6//,)*' ?1..'*?2*2,'?*?D*-.'1',)*' -*2>)'>/*-5 '
!' =' 8,)',)*' *L>*=, 12' 1',)*' >6-0 26/'0*' 16 //*.',69C

=*>?*2'1',)*' 10*L' ;D/2*2k/.' ¼NP/6,,¼ LL'NN' E¤6+1Z k<-Z¤ '1Z7SI6d'¼;1Z' ¼' /d6 +¼6,*-1' ' D,B6(' -
6)' C6,¼(6X0' ! '*7*16/X¼

;D21' ' 4F 'D1-2' >,¼ K NQ'6,'
;D21' ;.. 6' .'D*.,'92182'D ')' .'<6.1-*,>'/6D1-.'
12',)*' *2,6,*;>)'620'D ')' .'* 1-,.',1'60+62>*'=1*,>'
>;/,;-*' 6?125') .'>1;2,-?*2¤ ()*'5-*6,'-* 1-?6^
,12' 2' B;06 .?' 620' :*D-*8' /,*-6,;-*' 8) >)')60'
>1??*2>*0';20*-',)*'/*60*-.) ='1'<*20*/..1)2'6,^
,-6>,*0' ;D21',1' *-/2'8)*-*')*'6,'12*',?*'/+*0'
620'/6D1-*0'8 ,)',)*'5-76,'B*8 .)'-* 1-?*-¼ ',)*'
65*' 1'KS')*' *0,*0' 6/1?1'D*2C<1.*..'M6/.1'>6//*0'
?D-5*-X¼ 81-9'12',)*'6>>*2,.'1'B1D' -1+*-D.'620'
,)*' .6/?.'8) >)')*'=;D/.)*0' 2' S ';20*-',)*',/*'
1' J ;'D 'MKO'*0' X¤ 2
SQ')*'>1??*2>*0' 2' :*D-*8'6'>1??*2,6-'12',)*'
2,6,;>)'8) >)' <*20*/..1)2',-62./6,*0' 2,1' 4*-C'
62¼ 1?*?.;20*-.,620 25'6+ 25'.=-;25';='D*^
,8**2') ?.*/'620'<*20*/..1)2')*' 0.>12, 2;*0',) .'
81-9'6,*-') 6+ 25' >1?=/*,*0' 12/
' ' ? 'M *-/¼ Q CQNT' ^
*226' R ' Q S' *,>¼X¼ ()*' -*?6 2 25' D119.' 8*-*'
2.)*0'D C<*20*/..1)2'8,)',)*' AA 0' 1'1,)*-'/*6-2^
*0'?*2¼ **' ' !' :*' 8-1,*' 6/.1'
7 '6' ' 'U'? ' '6 =' 25' =6-,' 2',)*' >>->?12A¼ :*' 86.' ?60*' 6' >6-0 ^
1'=-2,*0'8 ,)' <*20*/..1)2.',-62./6,12' 2' QN C' 26/' 2' K')' 221>*2,'d 'M_¼+¼X'8)1?',' .' .6 0'
NN¼ :*<*0' 2' ?.,*-06?'B;2*'KS QN ¼' ,)*-05*')*'/=*0' 8 ,)' /6-5*' .;?.'1'?12*'6,',)*' ,?*' 1'
' '# ' 1'=¼NR ' K 1' ,,1').*' 2*, 12*' 6' 0 .>- ? 26, 25' 620' .1/ 0' A;05C'
% ' ' ¼ ' 1' 2*,'B<21 *.' ' ' :' .?120 '# '
' @ 'LL+',1'LL+ 1' S+*/25*.'B¼>?¼ '
;D1.*'+ '0' 9'6' -*2>)' * 1-?*0' ' %!' !' ' '?!'' 1',>¼ 6-.'Q R'._¼
? 2.,*-'86.'D1-2' 2' KN'6,' 6 *;L' 2' 1-?620' :1* *-'7 !';' '? "('L 'Q R'._¼
620'D*>6?*' ?2.,*-'1',)*' -1,*.,62,';)>)'6,' 6*2'
'&$ $ '6' -*2>)'=-*/6,*'620'.,6,*.^ 620'D*>6?*' ?2.,*-'1',)*' -1,*.,62,';)>)'6,' 6*2'
?62'86.'D1?',' -/+*.C/6C46//6-0*' *=,¼ S' S S¼ 620'86.'D1?',' -/+*.C/6C46//6-0*' *=,¼ S' S S¼
:*'.;0*0'6,',)*'>1//*5*' 1',¼' <>)6*/'6,' 6-.'620' :6+25' 2' SQQ'600-*..*0' 1;'d '12',)*'.;DA*>,
6,*-86-0.'D*>6?*' ;;,1-' 2',)*' 6?/'1',)*' ?6-_;' .' 1'62'*0>,'0-=>,*0'656 2.',)*' -1,*.,62,.',)*'9 25'
0*' /*;+62,'620'/6,*-'1',)*' 0;9*' 1' -/*62.¼ :*' .6 0',)6,' ;D1.*'86.',)*' 2*.,'1-6,1-'1',)*'8)1/*'
.=6-*0'21'=6 2.',1'1D,6 2',)*' ;// >12 0*2>*' 1')' .')6== ' ?65 26, 12' 6' 0 .>- ? 26, 25' 620' .1/ 0' A;05C'

6 ' ' ' ' ' ' ' ' 'M 6-% Q KXT'
: 1. *-' 7 E' ; !' ? 1' L - ' R %

; >) 6 / '(' % %'62' 20*=*20*2,' 0 + 2* ' 86.'
D1-2' 2' -*/620' 2' 4R ' 620' 86.' *0 ; >6,*0' 6,' ,)*' $ 2 ^
+*-. , ' 1 ' 4/6.518% : *' .*-+*0' 62' 20*=*20*2,' >12^
5-*56, 12' 6,' 6 ? D- 05*' 1-',*2' *6-. ' 620' 6 ,*-86-0.'
621,) *-' 6,' ; D/ 2 ' 8) *-*') *' 0 *0' 2' S % : *' = ; D^
/ .) *0' - ' $ - :' % ' & ' '" '
- "' ' " ' 5 'M 120% N ' Q + 1XT 6/.1'
M=1.,) ; ? 1 ; .X' $ 'M 12012 ' ' N +1/.% Q+1X% ' '
6-/ 25 ' % ' ; " %" ' ' RSQ%

; >) 6 , * / ' + ' : $ 3 ' 6' -*2>)' =-*/^
6,*' 86.' D1-2' 6,' ->' 2' ; -5 ; 20 ' M06,*' ;2921 8 2 X '
620' 86.' *0 ; >6,*0' 6,' A12 ' 8) *-*') *' 0 ., 25 ; .) *0'
) ? . */ ' D ') . ' . ; >>*.. ; / . , ; 0 ' 1 ' 4 - **9% : *' 6.. .,^
*0' -6. ? ; . ' 2' D . ', -62./6, 12.' -1 ? ',) *' 4 - **9 ' 620' D *^
>6 ? *' >1--*>,1-' 1 ',) *' =-*. .' 2' -1D*2 ; . .'1 >*' 6,' 6./*%
: *' 2*L,' . , ; 0 *0' ,) *' /68' 6,' 1 ; -5*. ' 6 ,*-' 8) >)' ,) *'
8*2,' ,1' 1 ? *' 8) *-*') *' 1 ; 20' / , , /*' *2 A1 ? *2,' *L^
>*=,' 2' >12,*? = /6, 25' ,) *' -*? 6 2.' 1 ' 62, . ; , % ( ) *'
>1--; =, 12' 1 ' ? 1-6/.' 2' ,) *') ; ->) ' 1 ' 1 ? *' //*0') ?'
8 ,)' 20 526, 12 ' 620') *' 6==*6-.', 1') 6+*' >12>*' +*0' 6.'
D60' 62' 1= 2 12' 1 ' , ' 6.' 62 ' 1 ' ,) *' * 1-?*-.' 620' *L^
=-*. .*0') ? . */ ' -*. =*>, 25 I , ' 8 ,)' 6.' ? ; >) ' . *+*- , '
6.' ,) * ' 0 0% -1 ? ' ,) *2>*') *' , -6+*//*0' , 1' *2 >*' 620'
2*L,' + . , *0' =-; . ' 8) *-*') *' -*60' /*>, ; -*.' 1-' , 81'
*6-.' 8 ,)' 5-*6,' . ; >>*.. % : *' 6 , *-86-0.' 8*2, ' , 1'
5 =, ' B>-; .6/*= ' 620' 12..62, 21=/*' 620' 12') . ' -*^
, ; -2') 1 ? *' 86.' 6==1 2,*0' -*60*-' , 1' -62> .' ' 8) 1'
? 60*') ?' D .) 1=' 1 ' (; //*' 620' 6 , *2+6-0.' 1 ' < 6 12%
: *2- ' ', -62./6, *0') ?' , 1' -/*62. ' 8) *-*' 0 *0' 2'
K% : *' 86.' 6' .,-*2 ; 1 ; .' 0* *20*-' 1 ' ,) *' / D*-, *.' 1 '
,) *' 46/ /*62') ; ->) ' 620' *L>**0 25/ ' / D*-6/ , 1' ,) *'
-1, *. ,62, .% : *' 8-1, *' 62' 1-6, 12' 12' -62> . ' 620' 6'
6, 2' /*, ,*-' 1-' ,) 6, ' 9 25' , 1') 6-/*. ' % 2') .' ; ^
2*-6/ 1-6, 12' 12' -62> . ') *') 2, *0' ,) %T, ' ,) *' .1 ; / 1 ' ,) *'
9 25') 60' 512*' , 1') *6+*2 ' 8) >)' *L> , *0' ,) *' -*' 1 ' ,) *'
01>, 1-.' 1 ' ,) *' 1-D122*' 8) 1' ,) 1 ; 5) , ' ,) 6, ' D ' .1' 01 25'
) *' 1==1.*0' ,) *' 01>,- 2*' 1 ' = ' ; -56, 1- J' M : 119 ' 6 V!
; %" 1' .% +%XT' .**' 6/.1' B1-, 2 ' ' ' 6 ' '
6 /*' ' 1' .% % 6. ,*//62 ; .%

; >) 0 ' (' % %' 6' ? 2 .,*-' 1 ' ,) *' 25/ .) '
) ; ->)' 2' ?*- >6 ' 86.' D1-2' 2') /60*/=) 6' 2'
620' 5-60 ; 6,*0' 6,' ,) *' $ 2 +*-. , ' 1 ' *22. /+62 6% / D'
8*2,' .112' 6 ,*-' ,1' 25/620 ' 620' .=*27' .1 ? *' , ? *' 6,'
6 ? D- 05*% 2' R') *' D*>6 ? *' 62' 6.. .,62, ' ? 2 .,*-'
2') /60*/=) 6 ') 6+ 25' D**2' / >*2.*0' D ' -%) *-/1>9 '
,) *2' D .) 1=' 1 ' 12012% : *' 86.' 6==1 2,*0' .) 1-,/ '
6 ,*-' =-1 *. .1-' 1 ' 1-6,1- ' 2' ,) *' 1//*5*' 620' 2' SK'
6 ,*-') .'-*, ; -2' -1 ? ' 6' .*>120' + . ', ,1' 25/620 ') *' 86.'
-*>* +*0' 6.' 12*' 1 ' ,) *' ? 2 .,*-.' 1 ' ,) *' $ 2 , *0') ; ->) ^
*.%J' : *' 86.' 6==1 2,*0' >) 6=/6 2' ,1' 125-*. . ' 620'
>12, 2 ; *0' 2' ,) .' 1 >*' 6' .) 1-', ?*% : .' =1/ , >6/'
+ *8 . ') 18*+*-' ; 20*-8*2, ' 6' >) 625*' , 1' 8) >)') *' 2^
>6 ; , 1 ; ./ ' 56+*' *L=-*.. 12' .1' ,) 6, ' 2' ') *' 1 ; 20'
) ? . */ ' ; 20*-' ,) *' 2*>*.. , ' 1 ' -*, - 25' , 1' 25/620 '
8) *-*') *' 86.' 6==1 2,*0' , 1' =-*6>) ' 12*' 1 ' ,) *' 6 ? D*,) '
. /; ? ' 12012% 2' R ' D*' -*, ; -2*0' , 1') /60*/^
=) 6 ' 8) *-*') *' 0 *0' B62% N ' RQ% : .' = ; D/ >6, 12.'
>1 ? =- .*' $ 'M Q ' K' +1/.% Q+1X T ' '
' ! ' % % ' M NXT' 620' 1 ; -' 0*,6>) *0'
*?18.% ' = -65 ; *' & ' + ' Q %

; >) 1 D 1 - , [',) *' 26 ? *' 1 ' 6' ; . . 62' .*>, ' 21,'
>*-,6 2/ ' 92182', 1') 6+*' *L .,*0' D* 1-*' ,) *' Q,) ' >*2^
, ; - % ( ) *' 81-0' .',) *' =/ ; -6/ ' 1 ' ; >) 1D1[*, [' ? *62^
25' $% ' ' , ' ,) *' 26 ? *' 1 ' 12*' 1 ',) *' ? 62 '
.*>,.' e ',) *' ; ..1C4-**9') ; ->) % ( ) *' 0*. 526, 12'
86.' 601=, *0' D ',) *? . */+*.' ; =12',) *' -' .*=6-6, 12' -1 ? '
,) *' .*>,' >6//*0' <1/1962.' 1-' ' " ' " '
= -., 6/')- ., 62.%J' 3' 3
1' -*>1-0.' D* 25' 9*=,' D ' ,) *. *' =*1=/*' , ' .' ?=1.^
. D/*' , 1' 6.>*-,6 2' ,) *' ,-; *' , ? *' 8) *2' ,) *' .*=6-6, 12'
,119' =/6>*% , ' . ') 18*+*- ' 92182' ,) 6, ' 6' >*-, 6 2' /6C'
- 12' 1D -1>) 2' 1- 5 26, *0' , ' D ' , *6)) 25' ' ' % ( ) 6, '
410' 86.' 21, ' 62' *..*2, 6/ D* 25' D ; , ' *L .,*0' 12/ ' 2'
,) *' 5*2*-6, 12' 1 ',) *' - 5), *1 ; .% K' ( ) 6, ' ,) *' .1 ; / 1

,) *' - 5), *1 ; . ' 6, ' 0*6,) ' =6..*.' 1+*-' 2, 1' 621,) *-') ; ? 62'
D* 25' 620',) 6, ' 1 ',) *' 8 >9*0' 2, 1' 62' 62 ? 6/% N% ( ) 6, '
,) *-*' 6-*' 21') 5) *-' D* 25.' 1 ' 62 ' 9 20% ( ) 6, ' 1'
-*60' ,) *' D/*' .' 2**0/*. .' , -1 ; D/*' 1-' ,) *' .= - , ' 1 '
410' 8 //', *6>) ' *+*- '12*') .' 0 ; , % -6[2.9 ' 2') .'
81-9' 26 ? *0' 6, ' ,) *' *20' 1 ',) .' 6-, >/*' 5 +*.',) *' 1//18^
25' . ; ? ? 6- ' 1 ' 6' >-**0' 0*/ +*-*0' D ' ,) *' ;>) 1D1-, ['
, 1' 6' =-1+ 2> 6/ 51+*-21-' 6, ' ,) *' , ? *' 1 ' 6,) 6- 2* .'
=*-.*>; , 12a' 410' .' 12*' D ; , ' 12*' 2' ,) *' (- 2 , '
( ) .') 1/ ' (- 2 , ' .' 62' 2.>-; , 6D/*' D* 25% ( ) *' 6,) *-'
./ 5), ',) *' 12' ./ *',) *' : 1/ ' 4) 1.; ' .' =*6>*% I ( ) * '
6-*' ? 62 *. , *0' 2' ? 62 ' ,) *' 6,) *-' D ' ' ,) *' 12'
D ' ' ,) *' : 1/ ' 4) =. , ' D ' ! ( ) *') ; ? 62' .1 ; /
. ' ,) *' ?65*' 1 ' 410T' D ; , ' ,) . ' ?65*' . ' 21,) 25 I D ; , '
? *? 1- ' -*6.12 ' 620' 8 //% ( ) *' .1 ; / *L .,*0' 620') 60'
6//*2' D* 1-*' ,) *' >-*6, 12' 1 ' ,) *' + . D/*' 81-/0T' , ' .'
,) . ' 6// ,) 6, ' . ' -*>1 ; 2, *0' 2' ,) *' .,1- ' 1 ' 06?' 620'
+*' 8) >) ' / 9*' ?1., ' 1,) *-' =1-, 12.' 1 ' ,) *' D/*'
.) 1 ; /0' D*' ,69*2' 6//*51- >6// % % % % ' 2' ,) *' D*5 22 25'
,) *' .1 ; / . ' 6// 86.' 1 # >6. 12>0' D ' ,) *' > ->; ? . , 62>*' ,) 6, '
, % ' 620', 1 ? ? *2>*0' , 1' /1+*' , .*/ '
6/12*' ,) *-*D ' 6D62012 25' ,) *' >12, *? = /6, 12' 620',) *'
/1+*' 1 ' 410',) -1 ; 5) ' % ! % % % ( ) *' .1 ; / .'
= /6>*0' 2' ,) *' =-*. *2, ' / *' 6.' 2' 6' = /6>*' 1 ' = ; - >6, 12 '
2' 1-0*-' ,) 6, ' >/1,) *0' 2' ,) *' /*.) ' 620' 6D62012*0' , 1' , .'
8 //720' -*6.12 ' , ' ? 6 ' >) 11.*' D*, 8***2' 5110' 620' *+ / '
620' ,) ; .' 1D, 6 2' =6-012' 1 ' , .' =- ? 6- ' . 2 ' 1-' 2>; -'
*, *-26/', 1-? *2, % &) *2' 6' D10 ' .' =-*=6-*0' ; -' ; .' 2'
,) .' 81-/0' 1 ; -' .1 ; / 0*.>*20.' -1 ? ' 6D1+*' >1 ? *.' , 1'
, 69*' =1..*.. 12' 620',) *' ? 62' .',) *2' >6//*0' 2, 1' *L .,^
2>% ; -' D10 ' .',) *') 1 ; .*' 2' 8) >)',) *' .1 ; / .' -*^
>* +*0' 620' 2' 8) >)' 8*' /1.*' 6// ? *? 1- ' 620' **/ 25'
1 ' 8) 6, ' 8*') 60' D**2' D* 1-*' 2>6-26, 12 J' *, >% M=% K '
21, *X%

1D -1>) 2' >12. 0*-*0' 620' >6//*0') ? . *' / 12*' 1 ',) *'
- 5), *1 ; . ' 620' 6' .12' 1 ' 410% ') .' 1//18*-') *' .*^
/*>, *0' , 8*2, C 1 ; -' 1 ',) *' ? 1 . ', -; . , 81-,) ' 620' 6D/*C'
D10 *0T' , 8*/+*' 1 ',) *? ') *' >6//*0' 6->) 625*/. ' 620',) *'
1,) *-', 8*/+*' ? 1-, *-1 ; . ' 625*/. % ( ) *' 0 ; , AGF1 ',) *' /6, ^
, *-' , 1' 0 .=1. *' 1 ' , ; >) ' 6. ' 81 ; /0' D6>9 . / 0*% ( ) *' '
-* ; .*0', 1' .*-+*' 2' /F*' 6-? ' 12' 8) >)' 6>>1 ; 2, ' ,) *' '
8*-*' ? ; >)' =*-.*>; , *0' ; 20*-',) *' >[6-26' 6,) 6-2*' '
620' *L /*0' 2',) *' 06 .' 1 ',) *' *?=*.1-' 6 ; /% /*L62^
0*-' 5-62, *0',) *? ' 6' .*, , /*? *2, ' 12',) *' D629.' 1 ',) *'
<1/1.) 26 ' 2*6-',) *' *6' 1 ' [1 ' 8) *-*',) *' ' 2 ; ? D*-*0'
6D1 ; ', 81',) 1 ; .620% 2' QNR',) *' -*6/ 1-' 6// *5*0' 0 .^
>1+*- ',) 6, ' 6' .*>-*', - D ; 26/) 60' *L .,*0' 6 ? 125',) *? '
>6 ; .*0',) *' -' D62 .) ? *2, ' , 1',) *' 1,) *-' . 0*' 1 ',) *' 6 ; ^
>6. ; .% ', =-*. *2, ' ,) . ' .*>, ' *L .,.' =- 2> =6// ' 2',) *'
0 .,- >, .' 6/125',) *' 6 ; >6. ; . ' D ; , ' 2' . ? 6//*-' 2 ; ? D*-. '
620' /*. .' 6, ,6>) *0', 1',) *' =*>; / 6- , ' 1 ',) *' .*>, % ( ) *' '
6-*' , 1' D*' 1 ; 20' 8) *-*+*-',) *-*' . ' 6' >1 ? ? ; 2 , ' 1 ',) *'
; >) 182 ') - ., 62 ' 1-' <1/1962.' 2' */ 1-, 86.'
?60*' 2' QS ' D ' 6' >*- 6 2' +62' 4-*51- * ,'1' 1 ; 20',) *'
.*>, ' 6 ? 125',) *' <1/1962.' -*. 0 25' 6, ' (; /, .>) 6' 2' ; /^
56- 6 ' D ; , ' 6 /*0' 8) *-*; =12') *' -*, ; -2*0' , 1' ; .. 6%
1-',) *' ; .65*.' 1 ',) *' "=>, ' .**' ! **' *2['
' ' " / 'M 1-=6, ' QKR' Q+1XT **/X1) ? ' ' '
$ %" ' ? ' ' SST' -6. 2.9 ' # ' '
' % '$ 'M 6- . ' Q N' Q+1X%

; >) 1 8 2 ' I$% 8 ' ,) *' 26 ? *' 1 ' 6' ; . . 62'
.*>, ' 8) >)' 6-1.*' 6 ? 125',) *' ; >) 18 ? ') - . , 62 ' 1-'
<1/1962.' 12',) *' 6 ; >6. ; . ' 2',) *' 1//18 25' ? 622*-%
2',) *' *6-' QNN 6' >*-, 6 2' 65*0' ? 62' >6 ? *' -1 ? ' B*-; . ^
. 6/*' ? ', 1',) *' 6 ; >6. ; . ' 620', 6 ; 5), ',) 6, ') *' =1. . *. . *0'
,) *' =18*-' 1 'D- 25 25' 0182',) *' : 1/E 7 = - , ' 620' 1 'D*^
. , 18 25' 2*8', 125, *. % : *' =-1+*0') .' >1 ? ? . . 12' D '
, *6>) 25') .' 2*6-*. , ' - *20.' 6' .125' 8) >)') *' .6 0' 86.'
2',) *' /625 ; 65*' 1 'B*-; .6/*' ? ' 620',) *' .*2.*' 1 ' 8) >)'
>1 ; /0' D*' >1 ? =-*) *20*0' 12/ 'D ',) 1.*' 8) 1') 60' -*>* +*0'
,) *' : 1/ 7 = - , % ( ) *' =- 2> =6/' 0' 1 ; 20*-' 1 ',) . ' .*>, '
86.') 18*+*-' <69. ?' ; 01 ? *, 9 2' 1 ? 6 - ' 8) 1' 6/.1'
1-562 [*0' >125-*56, 12.' 2' ,) *' .; --1 ; 20 25' =/6>*. '
6 ? 125',) *' <1/1962. I' 620' *2A1 *0',) *') 5) *. ', *., ? 6^
, 12' -1 ? ',) *? % ( ) *' .*>, ' 601=, *0',) *' >-*** 0 1',) *'
<1/1962.' 8 ,)' ,) *' 1//18 25' 600 , 12a' % ( ) *' : 1/ '
= - , ' 0*.>*20.' ; =12',) *' */*>, ' * ,) *-' 0 -*>, / ' 1-' 20 C

-*>,/ ’ D ’ D* 25’ D-*6,)*0’ ;=12‴ K‴ B ; ? = 25 ’ .)69^ 25’ >12,1-,,12. ’ *,>‴ 6-*’ 2 6// D/*’ . 52.’ 1 ’,)*’ =-*.^ *2>*’ 1 ’,)*’ = - ,‴ N‴ ()*’ .8112 25’ -1?’ *L*-= 12’ 620’ >12.* _ ;*2,’ ;2 2,*// 5 D/*’ .=*69 25 ’ .’ >12. 0*-*0’ 6.’ ,)*’ 2*8’ /625 ; 65*’ 8) >)’ 212*’ ; 20*-.,620’ *L>*=,’ ,)*’ .*/*>,’ 8)1.*’ 0 ; , ’ , ’ .’ ,1’ *L=/6 2’ ,)*’ ? ; ,,*- 25’ 1 ’ ,)*’ *2,) ; . 6.,.‴ ‴ ()*’ *L=*>,6, 12’ 1 ’ ,)*’ 2*6-’ *20’ 1 ‘6// ,) 25. ’ 620’ >12.*_ ;*2,’ 2 ; , / , ’ 1 ’ /6D1-’ D*^ 120’ *L,-*?*’ 2*>*.. , ’ .’ ?6,,*-’ 1 ’ 6 ,)‴ ‴ ()*’ / ,*-6/ . ?’ 1 ’,)*’)1/ ’ >- =,;-.*.’ .’ 6..; ?*0 ’ *+*2’ .1’ 6-’ ,)6, ’ 1?6-’ 12>*’ 1-’ ,)*’ .69*’ 1 ’ =; 2 .) 25’) .’ 1//18*-.’ 1-’ ,)* -’ ./1,) ;/2*.. ’ 8*2,’ 1 ’ ,)*’ 2*6-*.,’ ?1;2,6 2 ’ =-*,*20 25’ ,1’ 6.>*20’ 620’ ,1’ /*6+*’ ,)*?’ 6/1 *’1’ ,)*’ ?6..’ 1 ’,)*’ =*1=/*’ *// 12’ ,)* -’ 92**. ’ 620’ =-6 *0’) ?’ 21,’ ,1’ /*6+*’ ,)*?’ 620’ =-1? .*0’ ,1’ D*’ 1D*^ 0 *2,‴ S‴ *=*2,62>*’ >12. .,.’ 2’ ,)*’ =6 ?*2,’ 1 ’ .;>)’ 6?1;2,.’ 1 ’ ?12* ’6.’ ,)*’ /*60*-’ *., ?6,*.’ ,)* -’ . 2.’ ,1’)*’ 81-,) ’ 1-’ 8) >)’)*’ 5-62,.’ 20 ; /5*2>*’ 2’ ,)*’ .)6=*’ 1 ’ = *>*.’ 1 ’ ? ; ./ 2’ 12’ 8) >)’ 6-*’ *?D-1 0*-*0’ . 52.’ 1 ’? .,*- 1 ;.’ . 52 >6, 12‴ ()*’ ;>)172A’ 6-*’ 1 ;20’ =- 2> =6// ’ 2’ ,)*’ 6 ;>6. ; . ’D ; ’ 6/?1..’ *+*- ’>1??;^ 2 , ’1 ’ <1/1962.’)6.’ 6’ *8’ 1 ’ ,)*?’ 6?125’ ,.’ ?*?^ D*-.‴ **’ !

;>)182 ’)- ., 62 ‴ **’ f

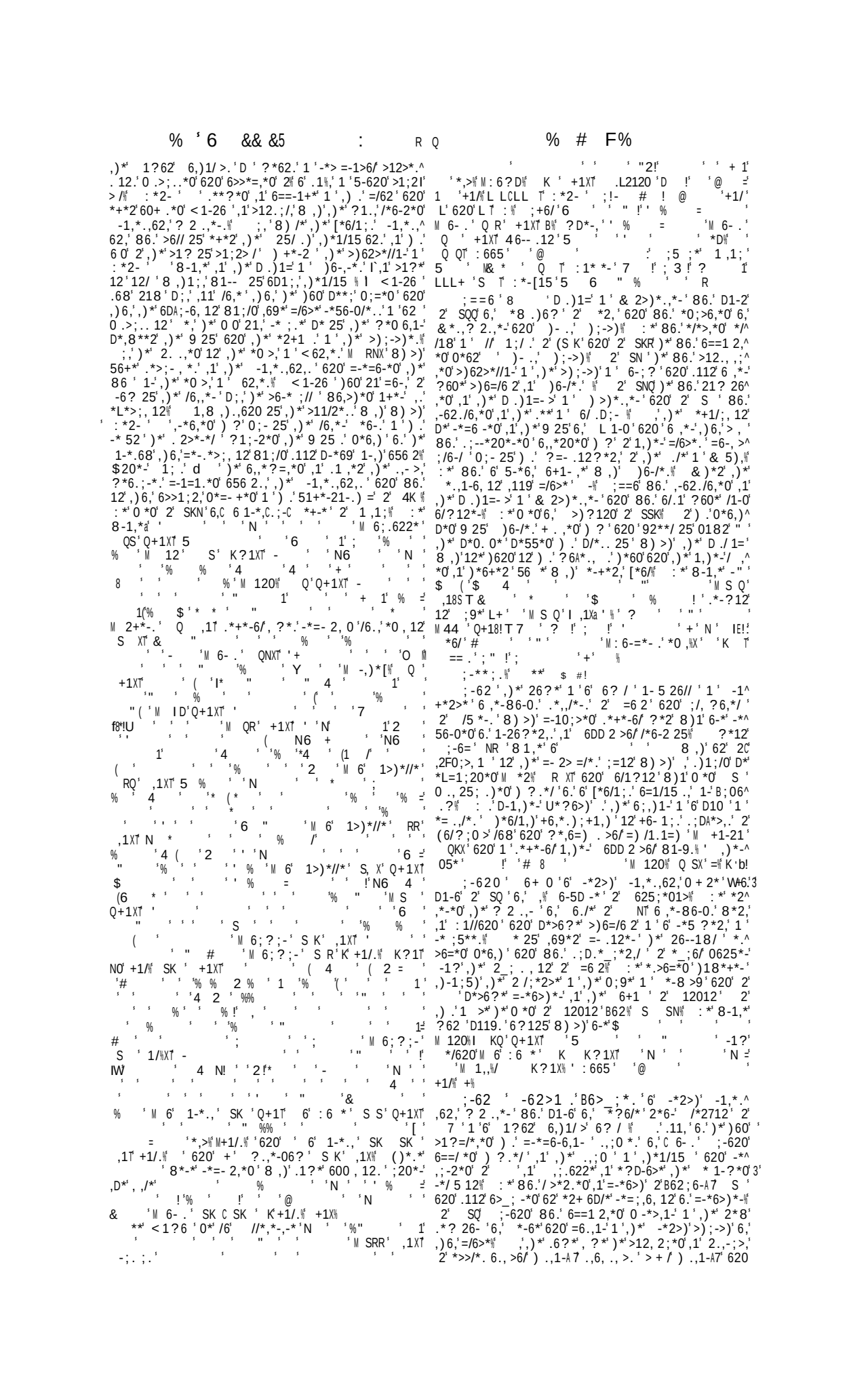
;06 L2‴ **’ f 6

0 ; 05*12 ’ ’6’ >1,>)’ .>*=, >’ 86.’ D1-2’ 2’ S‴ ,,/*’ .’ 92182’ 1 ’) .’ *6-/ ’) .,1- ‴ 2’ NK’ D*’ =;D/ .)*0’ 6’ ,-*6, .*’ *2, ,/*0’ -’’ ’ ’ 8) >)’ ,*6>)*.’ ,)6,’ ``,)*-*’ .’ 21’ *+ / 2’ ,)*’ ?1-6/ 81-/0’ D ; ’ 8)6,’ 26,; -6/, ’6- .*.,)’ -1?’ ,)*’ 26,; -*’ 1 ’ ?=*- *>,’ >-*6,;-*. ’ 8)1’ 6/86 .’=;-.; *’ ,)* -’5110’ D ; ’ >6221,’ D ; ’ D*’ / 6D/*’ ,1’ *--1-’ 1-’ ? .,69*’ 620’ ,)6,’ *+ / 1-’ . 2’ .’ 2.*=6-6D/*’ 2’ .1?*’ 0*5-*’’ -1?’ 6// >-*6,*0’ D* 25. ’ 620’ ?1.,’ >12. .,*2,’ 8 ,)’ ,)*’ 0*. 52.’ 1 ’6’ =*-^ *>,’ -*6,1-‰J’ : *’ 86.’ >6//*0’ ,1F62. 8*-’ 1-’ ,’ D* 1-*’ ’ =1-,62,’ ? . . 12’ 6/125’ ,)*’ -12, *-.’ 1 ’ *22. /+62 6’ ,1’ ,)*’ -*.D ,*- ’ 210’ 620’ 4*2*-6/ ..*?D/ H’ D ; ’ 21’ ’ ,)*’ 1,1?6>’ 8 ,)’ 6’ + *8’ ,1’ ,)*’ 1-562 [6, 12’ 1 ’ 0*> . 12’ 6==*6-.’ ,1’)6+*’ D**2’ -*6>)*0‴ : .’ ?1.,’ ?^’ >);->)*.‰’ 1?*’, ?*’ 6 ,*-’)*’ 86.’ >6//*0’ ,1’ ,7 * *>^ =1-,62,’ 81-9’ .’ + %+ ’ ’ ’ ’ ; 9 120’ -*.D ,*- 62’);->)’) /60*/=) 6 ’ 620’ D*>6?*’ ’ ’&’ ’’ ’ ’? ‘\M Q X‴ ’ ()*.*’/*.,*-.’ 8*-* >)6=/6 2’ ,1’ ,)*’ 1/12 6/ 125-*..’ 1-’ =6-.’ 1 ’6’ .*.. 12’ 8-.,,*2’ 2’ ,)*’ ? 0..’ 1 ’=-*.. 25’ 65- >;/,;-6/ >6-*.’ ,1’ ,)*’ *+‴ <-‴ B6>9.12’ 6;,)1-’ 1 ’6’ 81-9’ 8-.,,*2’ 2’ ,)*’ *’ 2’ ,)*’ 06-9*.,’)1;-.’ 1 ’,)*’ *+1/;, 12’ 620’ 62 6-.,*0’ .= - ,’ 1 ’ /6-9*’ -’’ 6 ’ ’2 ’ ’? ! 2’ ’) ?.*/’ 12’ 6// 1>>6. 12.’,)*’ ;2>1?=-1? . 25’ 60+1>6,*’ ,)*.*’/*,,*-*’ ;05*12’ -*6>)*.’ 6’ .=*> *.’ 1 ’-* 2*0’ =’C 1 ’> + / 620’ -*/ 5 1;.’ -**01?‴ : *’ 0 *0’ *D‴ K R ‴ 21[.?’ ? 25/*0’ 8 ,)’ *-9*/*A762 .?‴ : *’ 0*2 *.’,)*’ G : *’ =;D/ .)*0’ & ’& ’ ’’’ ’ - ’ ’’’ ’@ =’ 0 ., 2>, 12’ 1 ’ .;D..62>*.’ 2,1’ .= - ,;6/ 620’ ?6,*- 6/’ ’ ST &’ R’’’ ’$ ’ 7N‴ ?6 2,6 2.’,)6,’,)*-*’ .’ 21’ .;D.,62>*’ 0 ., 2>,’ -1?’ 410’ ’ =-65;*’ & ’ ’ QS‴ 620’,)6,’ I6/ 1;-’ 9218/*05*’ D ;’ 1 ’ 410’ .’ 6D1;,’ 0*6.’ ,)*’ *L .,’ 12/ ’ 2’ ,)*’ ? 20’ 620’,)*’ -’ *..*2>*’ 620’ ?10*.’ >12. .,’ 12/ ’ 2’ ,)*’ -’ D* 25’ =*->* +*O‴ 2’ N ’)*’ =;D/ .)*0’ &’ ’’ ’ ’ ’ ’ % ’6 % ’ ’5 ’ ’’ ’ ’ ’@ ’’ ’ ’’ ’ 2 ’ ’’ ’ ’’(!’ 6 ’ ’ % (’ 6 ’ ’ ! / ’ ’ "’ ’ ’ ’

65*Ť 620ʻ) .’ 1==1. , 12ʻ ,1ʻ ,) *’ D ; // 2 1ʻ) .’ 6,ʻ , >),2*,;’ ,1ʻ #;*.2*/’ ʻ8)1.*’ = *, ’ 620ʻ ,6/*2,.’ 8*-*’ 69 2ʻ ,1ʻ) .’ 182’ 8 ,)’) .’ 5*2*-6/ 60)*. 12ʻ ,1ʻ ,) *’ =- 2^ > =/*.’ 1 ’B6# .* 7? 16; .*0ʻ) ?’ 5-*6,’ 6221 62>*’ -1?’ ,) *’ -;/ 25’) ;->)’ =6-, ’ ?125ʻ) .’ 81-9.’ 6->’ 6 A’ % Y (’ ’ ’ ’ ? ’ ’ ’ ’

LL +' KX'D;,'21,'6.'6' =;2 .)?*2,% ()*'5; /, '86.'6-0') !' '; "!'=% SRX'8)*-*',)*'26?*' ' .', //
. ?=/ '9*=,' 2'86-0',1'688,'.*2,*2>*'M>1?=%K)-12% 1;20',)*-*'6-*',)*' 1//18 25'1DA*>, 12.d M X',) .',-6>,'
L+ 'KS' & 6 >) . ? ; , D ' ' QS X% 1' =-1D6D/ '2*+*-'D*/125*0',1' 6D /12' MK' 6,'62 '-6,*'
,' 86.' 6'/*56/=- 2> =/*' 2' 1-2*',)6,'6'=- .12' 86.',1' ,' .',11' 6-' -1?',)*'>6= ,6/',1'D*',)*'=/6>*'8)*-*',)*
D*' ;.*0'12/ ',1'9**=' ?*2'21,',1'=?;.)',)'6'% $2^ ?65*' 86.' .*,' ;=' 1-',)*'=/6 2' 1 ' ;-6' 86.' 2',)*'
0*-',)*,6,*-'9 25.' ?=- .12?*2,'86.' ;.*0'6.'6'=*26/^ % ' 1-' '1' 6D /12' M7NN' - I7 NX' *20'
, X 7/7' .**?.' 21,' D 'A;0>6/ .*2,*2>*'D;,'6, ,)*-* 1-*' 2',)*' + > 2 7' ',)*'>,E T MNX',)*' 26?*20'
,)*' 8 // 1',)*' .1+*-* 52' *.=*> 6// ' 2',)*'>6.*' 1',11' ' ' 2',.'?10*-2';.*' .'6=='/>6D/*',1'62 '=/6 2% <%
=/6 2C.=19*2' =-1=)*,.' MK')-12% L+ ' T B*-% LL 'KT' ==*-',' =/6>*.',)*'=/6 2' M1-'6.')*'>6//.',',)*''+6/^
LLL 'K'._% LLL ' '._% T LLL+ ' X' ,*-',)*' /* JX' 1' ;-6',1',)*'.1;,)C*6.,'1' 6D /12' 2',)*'+^
L /',D*>6?*'+*-'>;.,128- 'M<6,,'L 'KT' ;9*' ' > 2,'1',)*'?1;20'1'' '1-' ' ' :*')6.'0.^
K T B1)2' 'K X'620' 86.'.1?*, ?*.' ;.*0',1' =;2.)' >1+*-*0'12',) .' . ,*',)*'=*0*.,6/1'6'>1/1..6/.,6,;*'
-*/5 1;.'1 *2>*.'M >,.'+' Q K T + 'QT' L ' T LL' 620'-*56-0.',)*'?10*-2'26?*'6.'6'>1--;=,12'1',)*'
LL+ ' X' 620' 2' >6.*.' 1'0*D,'M<6,,'L+ 'Q T 62> *2,'6==*//6, 12% ()*'(6/?;0>6/21, >*'>$ + T
>1?=% -+ *;L' ' X% ()*'?1.,'62> *2,'=- .12.' &*-* 1/% RK Ka' ? `=N' 2-' 22. 6X' .'1D^
. ?=/ '86,*-C> .,*-2.' 1;,' 1' 8<>)' .2>*',)*' .0*.' .>;-*'M ;L,1- ' !' - !'>1/% K XH' **' 69*?6>)C'
>6?*',15*,)*-'6D1+*'12*'>1;/0'21,'*6./'*.>6=*'8,)^ *-' ," !%" !+ 'KQ'._% **'8 # !
1;'6 0'M41*2%CLLL+ 'K KKX% ?=- .12?*2,' 2',)*.*'
86.' 1,*2' ?60*',)*'?1-*';2=/*6.62,'D '0**=' ?;0'
MB*-% LLL+ 'SX% ()*-*'8*-*'6,',)*'56,*.'1-' 2',)*' ;2)6?'
86,>)C)1;,.*.'6,',)*=6/6>*.'1'9 25.'1-',)*)1;.*.'1'
,)*'>1?620*-.'1',)*'D10 C5;6-0'8)1'8*-*',)*'*L^ 86.'6'?62'1'.,-125'>)6-6>,*-'5-*6,'=-6>,>6/'6D/,'
*>;,1-.'1'>- ? 26/.*2,*2>*.' *.=*> 6/ .,6,*C=- .12.' 620' 6D;2062,'8 ,'620' .6, -% * ' '
MB*-% ++' KT' LLL 'KT' 4*2% LLL L' K' ._% T L/' T 'M % % K?1XT 1/*.'-" '$ % '
>1?=% B*-% LLL+ ' 'K T :6-?*-',"' 'K '._ %X% M % % Q?1XT ,*+*2.'# ' ' ' " '6% % '
'=- .12' 1',)*'9 20'/6.,'26?*0' .'>6//*0'% =" ' " "'+1/% '>)% +%
2 N' K')-12% L+ ' X% ()*'=- .12*-.'
8*-*'9*=,' 2' >)6 2.' MB;05% L+ 'K T K' 6?% 'N T ;)*1/15 '6,' -1?D*-5'620'6,' 1?*' 2',)*' I(2= '
B*-% L/' X% $20*-',)*' 1?62' *?=-*',)*' 8*-* ? '620' 86.' 1-06 2*0'=- *.,' 2' R % 2'
>)6 2*0'D '12*' 1-' D1,)')620.',1',)*'.1/0 *-.' 8)1' QKR',)*'86.'?60*' 60? 2 .,-6,1-'1',)*'6->)0 1>*.*'1'
86,>)*0',)*?'M >,.' L T LL 'NNT / 2E'6%!F'L'S T 1.*2' 6.'.;>)')*'86-2*0' 2' 6'=6.,1-6/ 1' *>' Q'
2>6'6%+'620'' ' 4 !'& !' :' ,)*2%+'K NT QN',)*' 1/.)'?*?D*-.'1',)*'0 1>*.*'656 2.',,69 25'
B1.*=)%&' !L+ 'S' 8' .'., //',)*>;.,1?' 2' D .^ =6-', 2',)*' 1/.)' *+1/;, 12' 2' B;/ QN ')*'
. 2 6'M ;==*//'&"%) 'K QX7 1?*, ?*.',)*'.-6*/,*.' 86.'>12.*>-6,*0'6->)D .)1=' 1'42*.*2'620' 1.*2' 2'
>)6 2*0',)*?'D',)*'**,',1'6'8110*2'D/1>9'MB1D'L' QN',)*' 1/.)'?*?D*-.'1',)*'0 1>*.*'656 2.',,69 25'
K T LLL ' T >,.'L+ 'K 7'>1?=% &*,.7* 2' 2'/1>% .*2*>6'6%+'620'' ' 4 !'& !' :' ,)*2%+'K NT
B6>1D' ;>62%(1 -6-%<' X'1-'D',)*'2*>9'M>1?=% QN',)*' 1/.)'?*?D*-.'1',)*'0 1>*.*'656 2.',,69 25'
- .,1=)62*.' RKX'1-'D',)*')620.'620',*,'6, =6-', 2',)*' 1/.)'?*?D*-.'1',)*'0 1>*.*'656 2.',,69 25'
12>*% ;>)'.*+*-*' ?=- .12?*2,'.',1' *;20*-.,110' QN',)*' 1/.)'?*?D*-.'1',)*'0 1>*.*'656 2.',,69 25'
2'B*-'LL 'KT' L7 L 'KS'8)*-*'1;-'+*-. 12')6.''' 2',)*' QN',)*' 1/.)'?*?D*-.'1',)*'0 1>*.*'656 2.',,69 25'
.,1>9.J M>1?=% ?? 6>)%*C U- I - 8% N' % O *1' =-1=)*' 1/.)'?*?D*-.'1',)*'0 1>*.*'656 2.',,69 25'
% T 620',)*'4-**9' ' >)1/% ' - .,1=)% I!' QN',)*' 1/.)'?*?D*-.'1',)*'0 1>*.*'656 2.',,69 25'
=% SX% 11-'620'?*65-*' 6-*'.**?.',1')6+*'600*0',1' QN',)*' 1/.)'?*?D*-.'1',)*'0 1>*.*'656 2.',,69 25'
,)*'*+*-,'1',)*'=*26/,'MK')-12% L+ 'KSX% 2' QN',)*' 1/.)'?*?D*-.'1',)*'0 1>*.*'656 2.',,69 25'
L6?=/'1'/6L'.,6,*' ?=- .12?*-.';6==*6-.' 2' ' 25.' QN',)*' 1/.)'?*?D*-.'1',)*'0 1>*.*'656 2.',,69 25'
'N % . .,.',1'=- .12*-.'6-*' 6//18*0'8 ,)'>1?=6-6^ QN',)*' 1/.)'?*?D*-.'1',)*'0 1>*.*'656 2.',,69 25'
,+*'-**01?' 2',)*' 6.,'M<6,,'LL+ 'NST' B*-% LL 'QT' .**' 1.*22 $//*-' '+' X% :1?62'=- .^ QN',)*' 1/.)'?*?D*-.'1',)*'0 1>*.*'656 2.',,69 25'
12'0 .> =/2*' 6==*6-.' *.=*> 6// ' 2',)*' >,.' 1',)*' =1./*.% ()*'9**=*-'1',)*'=- .12' .'>6//*0' 2'4-**9' QN',)*' 1/.)'?*?D*-.'1',)*'0 1>*.*'656 2.',,69 25'
$ I-% I 8 E 1'M >,.'L+ 'KNI' LL+ 'NSX'D;,'12>*' 8=19C -I % M ;9*' L ' QX' 620' 86.'6-?*0'M >,.'L+ 'K X% QN',)*' 1/.)'?*?D*-.'1',)*'0 1>*.*'656 2.',,69 25'
1?=% = + (;<% **' 2' 5*2*-6/ ' 1?D6-0 2 ' QN',)*' 1/.)'?*?D*-.'1',)*'0 1>*.*'656 2.',,69 25'
' ' ' ' 4 ' * ' 'M 60;6' NX% ' & 2*-' QN',)*' 1/.)'?*?D*-.'1',)*'0 1>*.*'656 2.',,69 25'
% K% **' + 96! QN',)*' 1/.)'?*?D*-.'1',)*'0 1>*.*'656 2.',,69 25'
;;5C56,*T ;25) //T ;25C=1-,% **';2^ QN',)*' 1/.)'?*?D*-.'1',)*'0 1>*.*'656 2.',,69 25'
0*-' $! QN',)*' 1/.)'?*?D*-.'1',)*'0 1>*.*'656 2.',,69 25'
' ; -6' M)6/% ' (' " ' ' % _7 : *D-*8' QN',)*' 1/.)'?*?D*-.'1',)*'0 1>*.*'656 2.',,69 25'
.1',)*' *= '-*20*-.'-1' - % 1 O 'D;,'+% -% OC QN',)*' 1/.)'?*?D*-.'1',)*'0 1>*.*'656 2.',,69 25'
% T ;/5% 8',)*'=/6 2' 8)*-*' *D;>)602*[[6-' QN',)*' 1/.)'?*?D*-.'1',)*'0 1>*.*'656 2.',,69 25'
6*,';=') .'51/0*2'>1/1..;.',1'D*' 601-*0'M 62% ' X% QN',)*' 1/.)'?*?D*-.'1',)*'0 1>*.*'656 2.',,69 25'
2,*-=-*,*-.';.;6// '>1?=6-*' ' ,1'6'>, ' ?*2, 12^ QN',)*' 1/.)'?*?D*-.'1',)*'0 1>*.*'656 2.',,69 25'
0'D' ? 2 62% <6->// 'MLL+ 'SX'. ,;6,*0'2*6-',)*' (^ QN',)*' 1/.)'?*?D*-.'1',)*'0 1>*.*'656 2.',,69 25'
5-.' M<602*-.,'+' SKXT' 1-' 621,)*-' 1',)*'.6?*' 26?* QN',)*' 1/.)'?*?D*-.'1',)*'0 1>*.*'656 2.',,69 25'
3 M >-A=OX' 2' 1/ D ;.' M+' Q SX' 620' ? ? 62' <6->*//' QN',)*' 1/.)'?*?D*-.'1',)*'0 1>*.*'656 2.',,69 25'
MLL ' X' 12' ,)*' ;=)-6,*.' 2*6-',)*' ?12,)' 1',)*' QN',)*' 1/.)'?*?D*-.'1',)*'0 1>*.*'656 2.',,69 25'
/A6/A1-6.' ' ? /*.' -1?' 6->)*? .)T 1-' 26// '12*' 1' QN',)*' 1/.)'?*?D*-.'1',)*'0 1>*.*'656 2.',,69 25'
6' . ? /6-' 26?*' IDO % 8' 2' ;.626'M ,1/%+ 'N NX% ;' QN',)*' 1/.)'?*?D*-.'1',)*'0 1>*.*'656 2.',,69 25'
,)*.*' _;6-,*-.'6-*'6//,11'0 .,62,' -1?' 6D /12',1'B 6+*' QN',)*' 1/.)'?*?D*-.'1',)*'0 1>*.*'656 2.',,69 25'
D**2').,1-'>6// '=1.. D/*'6.' ,' .' >/*6-' 1-2',)*' >12C QN',)*' 1/.)'?*?D*-.'1',)*'0 1>*.*'656 2.',,69 25'
f ,*L',)6,' ,)*'=/6 2'1' ;-6J'>1;/0'D*' 21' 1,)*-',)62' QN',)*' 1/.)'?*?D*-.'1',)*'0 1>*.*'656 2.',,69 25'
,)6,'=6 2672-'.1?*'=6-,'1',X' 2' 8)>)' 6D /12' ,.*/' QN',)*' 1/.)'?*?D*-.'1',)*'0 1>*.*'656 2.',,69 25'
86.' .,;6,7'M:*-10' ' QX' % *%$" 'M4*2% L 'KX% QN',)*' 1/.)'?*?D*-.'1',)*'0 1>*.*'656 2.',,69 25'
+*2' 656 2.',.)*' -.,'1',)*'.*' /1>6, 12.',)*',-6>,'6' QN',)*' 1/.)'?*?D*-.'1',)*'0 1>*.*'656 2.',,69 25'
/,,/*'D*/18'(*9-,'1-',)*'/* ,'D629'1',)*'(5- .'M 6 C QN',)*' 1/.)'?*?D*-.'1',)*'0 1>*.*'656 2.',,69 25'
(% ' <' < < QN',)*' 1/.)'?*?D*-.'1',)*'0 1>*.*'656 2.',,69 25'

8)*,)*-',)* ' ? 5),'60? ,',)*?',1',)*' .6>-6?*2,.' 1-' 21,% ()*' 6->)D .)1=' 0 *0' *>%KS Q K% **' + $ 4!' . % /' *' 1 '6->)D .)1=' ;2 2' 86.' =;D/ ./ *0' D ' % 1)/ ID1 ' ' ' 1' <6- *2D;-5 ' Q NX% ()*' >12 / >,'1 '6->)D .)1=' ;2 2' 620' 1 '6->)D .)1=' -1.,*' M_' %X ' 1 ' 1/152*' 8 ,)',)*' -;.. 62' 51+*-2?*2,' ,'-*6,*0' 1 ' 2' 6' .=*> 6/ 81-9' D ',)*');->)') .,1- 62 % : 6.*'>% '" '6 /" " 1' * =.' QNRX% ' : *-[15',)*'/6,,*-' 0*6' D* 25' ?1-*' =*- *>,',)62',)*' 1-?*-' D*^ 5 26 2! ' R! & =,[*-' ;20' & */,*') "!= !' >6;.*' 410' >6221,' D*' >12>* +*0' 6=6-,' -1?' 2 2 , ' NN % ,)1;5)' 2 2 , '>62' D*' >12>* +*0' 8 ,)1;,' 410' : 1' ; 2 9 * - . %' *' 8 / ':& 3! 6,,- D;,*0' 20*,*-? 26,*' B-**01?',1' 410' 620')*2>*' ; 2 2 ' O ' '6' <*,)10 .,' = .>1=6/ ? 2 ..,*-' -*56-0*0',)*' .;DA*>, +*' 8 // 1' 410' 6.',)*' =- 2> =/*' 86.' D1?' 2' -5 2 6' 2' T 8) /*' 1;25'*? 5-6,*0' 1' ?1-6/ , % 1?*, ?*.')*' *L=-*..*0' 01;D,.' 6.',1' ,1') 1T *2,*-*0',)*') 1' 12 *-*2>*' 2' QN ' 620' =1.. D / , ' 1 '6' -6, 126/ ,)*1/15 % ;2.' >1,;.' 0 *0' 6,' 2> 226,' 2' =-/' Q % ' 2' QN ' <-% ;22' 86.',)*' 1;20*-' 1 '6' .>)11/',)*' $ '8)1' 0 ., 2^ 600-*..*0' 6' 21,* : 1',)*' ' " '& 1' 5;.)*0',)*?.*/+*.' 1-' .;D,/*, ' 1 ' 0 .=:,6, 12' 620' 2' 8) >)')*' >6//*0' 6,,*2, 12',1',)*' >120 , 12' 1 ',)*' 1-' 2>*..62,'0 .=:,*.' 8 ,)',)*' -" f ()*.*' 0 .^ 4*-?62.' 2',) .'>1;2,- ' .;55*..*0',)*' ?=1-,62>*' 1 ' =;-=1.*%J' () .' 86.',)*' -.,' =;D/ >' ?1+*?*2,' ,1^ 6' 4*-?62'=-*..' 620' 1-86-0*0' 6' .7D.>- =, 12' 1-',)6, 86-0.',)*' ?=1-,62,'81-9' 1 '4*-?62' <*,)10 .?% : *' =;/.*.' 5*2*-1;.' 620') .' 2 /;*2>*' .,-125' 620' .8**,%J 86.' 6' 5110' ?62 '6' *-+ 0' 620' =*-.;6. +*' =-*6>)*-' : *' 0 *0' =- /' Q % ' ' ' +' RNT' 6' 0*+1,*0' =6.,1-' 6' >1;-,*1;.' 5*2,/*?62 ' 620' 6' 5-*6, ()1?.12' ; %" '$+ " '=% S% =*6>*C?69*-% : .' ;20*-.,620 25' 86.' .1/ 0') .' ?^ =*6>*C?69*-% : .' ;20*-.,620 25' 86.' .1/ 0') .' ?^ =;/.*.' 5*2*-1;.' 620') .' 2 /;*2>*' .,-125' 620' .8**,%J : *' 0 *0' =- /' Q % ' ' ' +' RNT' ;29*-.% ** 8 / ':& 3! ;22' O ' '6' <*,)10 .,' = .>1=6/ ? 2 ..,*-' 86.' D1?' 2' -5 2 6' 2' T 8) /*' 1;25'*? 5-6,*0' ,1') 1T *2,*-*0',)*') 1' 12 *-*2>*' 2' QN ' 620' 0 *0' 6,' 2> 226,' 2' =-/' Q % ' 2' QN ' <-% ;22' 600-*..*0' 6' 21,* : 1',)*' ' " '& 1' 2' 8) >)')*' >6//*0' 6,,*2, 12',1',)*' >120 , 12' 1 ',)*' 4*-?62.' 2',) .'>1;2,- ' .;55*..*0',)*' ?=1-,62>*' 1 ' 6' 4*-?62'=-*..' 620' 1-86-0*0' 6' .7D.>- =, 12' 1-',)6, =;-=1.*%J' () .' 86.',)*' -.,' =;D/ >' ?1+*?*2,' ,1^ 86-0.',)*' ?=1-,62,'81-9' 1 '4*-?62' <*,)10 .?% : *' 86.' 6' 5110' ?62 '6' *-+ 0' 620' =*-.;6. +*' =-*6>)*-' 6' 0*+1,*0' =6.,1-' 6' >1;-,*1;.' 5*2,/*?62 ' 620' 6' 5-*6, =*6>*C?69*-% : .' ;20*-.,620 25' 86.' .1/ 0') .' ?^ =;/.*.' 5*2*-1;.' 620') .' 2 /;*2>*' .,-125' 620' .8**,%J : *' 0 *0' =- /' Q % ' ' ' +' RNT' ()1?.12' ; %" '$+ " '=% S% ;2.' >1,;.' (' I ' '$ " (8' 12*' 1',)*' ?1.,'*?2*2,'1',)*' >)1/6.,>',)*1/15 62.' 86.' D1-2' 6'>>1-0 25',1' 12*' 6>>1;2,'6D1;,' KS '6,' ;2(' .,62>*' 2*6-' /28 >9' 1-,);?D*-/620T 6>>1-0 25',1' 621,)*-' 6,' ;2.' 1-' ;2.*' 2' *-8 >9.)-*' >1,^ /620% 2' 6>*' D1,)',)*=/6>*' 620',)*' 06,*' 1 ').' D -,)' 6-*' ;2921828% ,'62'*6-/ '65*')*A1 2*0',)*' < 21-.,* - 6-.' 620' 86.' .*2,'D ',) ?',1' L 1-0 '8)*-*')*' D*^ >6?*' *//18' 1 ' <*-,12' 1//*5*% 2' N ')*' 86.' 6=^ =1 2,*0',1',)*' ,)*1/15 >6/ >)6 -' 2' L 1-0 '8) >)')*' //*0'8,' .1'5-*6,'-*=;,6, 12',)6,' ,' .' .6 0'?1-*',)62 N ' .*)1/6-.' >6?*',1' L 1-0',1')*6-') ?% 2' N)*' -*?1+*0',1' 6- .' 8)*-*')*' 7+6.' ?60*' 01>,1-' 1 ',)*1/15E7' 620' .112' -1.*',1',)*')*60'1',)*',)*1/15 >6/.>)11/.% :*')*-*' 0 ., 25; .)*0') ?.*/'*.=*> 6// 'D ') .' 60+1>6> '1',)*' ?? 6>;/6,*' >12>*=, 12' M_% +%X' 1 ',)*' -5 2' <6- '656 2.,'()1?6.' _; 26.' 620',)*' 1? 2 >62.% :*' 2/;*2>*0',)*' $2 +*-.,' ' 6-.',1' 601=,') .')*-*. % 2' N Q' >1,;.' 86.' 1-0*-^ *0' D '412.6/+1',)*' 5*2*-6/1',)*' < 21-,*.',1' 1^ /152*',1' 1==1.*',)*' *5; 2*.' 2',)*' -160')*' 86.' ?*,' 2' .1/*?2' =1?=' 620' >120;>,*0' 2,17)*',18 2' D ',)*' 8)1/*' D10 '1 '>, [*2.*' 0 *0' 1 '62' 6=1=/*L ' 6,' 1/152*' 1+% Q N Q% 6;/' B1+ ;.' -*/6,*.',)6, 8)*2')*' */' -1?' 6=1=/*L ')*' 86.' ?? *0 6,*/' 2^ ,*--*0' 6.' 0*60T D;,' ,7,' 6 ,*-86-0.' >1? 25',1' D .' .*2.*.')*/625; .)*0' 2' 6' ?1.,'?.*-6D/*' ?622*-' 2') .' >1 2'D*6, 25') .')*60'620')620.' 656 2.,' .' .0*.' , //)*0 *0% I : .' =) /1.1=) >6/ + *8.' 6-*',);.',6,*0' D ' (*22*' ?622 : .' >*/*D-6,*0' 6,,6>9' 12',)*' . .,*?' 1 ()1?6.' _; 26.' 0-*8',) .' .9 / ;/ -*6.12*-' +*-' -*/,1' 0*?12^ .,-6,*' ,)*' ,-';,)' 620' 6==/ *0') ?.*/'%,1' 0*?12^ *6/ .,')*' ;2 +*-.6/ .' >12,6 2*0' 2',)*' -6-, 126/ 1-' *?= - >6/' 620' 6==/ *0') ?.*/'%,1' 0*?12^ *6/ .,')*' ;20*-.,620 25'D;,'>1?? ;2 >6,*0',1' ,1' 620',)6, ,' .' 21,'>-*6,*0' D ' *6/ .,')*' ;2 +*-.6/ .' >12,6 2*0' 2',)*=6-,>;/6-'21,' ?*-*/ IV7'% 'D;,' ' .',)6,' ,' .' 21,'>-*6,*0' D ' ,)*' ;20*-.,620 25'D;,'>1?? ;2 >6,*0',1' ,1' 620',)6, ,)*' 1;20' 2',)*' 1-5 26/5-1;20'1'?62' 2' 410% >^ 26,;-*' 1',) 25.' .' 0*,*-? 2*0' 2'=6-,>;/6-'1-' ;2 ^ +*-.6/D '6') 5)*-'1-'6D.1/;,*'=-2>=/*% 2' .>)1/^ 15 ')*'1==1.*0',)*'D*/*',)6,',)*' 6>;/,*.'1',)*' .1;/ 6-*' 0 .,2>,% ()*' 1DA*>,' 1 ') /1.1=) ' 86.' 2') .' 1= 2 12',1'D*>1?*' >152 [62,'1',)*' 26,;-*' 1',) 25.' 1-' 8)6,'.% /,)1;5)';?62' =) /1.1=) ',*6>)*.',)*' .; >*2> '1 '-*6.12' 620',)6,'.;=*-26,;-6/0 .>/1.;-*. 6-*' .;=*- /;1;.',)*',)**/15 66' -*56-0.' 6' >*-,6 2' .;^ =*-26,;-6/-*+*/6, 12' 6.' 2*>*..6- 'D*>6;.*' ?62' >62' 2*+*-' 6,,6 2',1' >*-,6 2',-;,)' D ' 2.=*>, 25'* *>,.' 1-' .*>1206-' >6;.*.'8)*,)*-' 0*6.' 1-' .*2.6, 12.% ()*' 1DA*>,' 1 ',)*1/15 ' .' 410' 62' 2 2 ,*' * 25' 620',)*' -.,' =- 2> =/*' 1 '6//,) 25.% *,')*' .' 21,' D D*' -*^ 56-0*0' 2',)*' / 5),'1 ') .' 2 /2 ,E ');' 1 ') .' 0 + 2 , ' 6,,- D;,*0' 20*,*-? 26,*' B-**01?',1' 410' 620')*2>*' -*56-0*0',)*' .;DA*>, +*' 8 // 1' 410' 6.',)*' =- 2> =/*' 1 '?1-6/ , % 1?*, ?*.')*' *L=-*..*0' 01;D,.' 6.',1' ,)*' =1.. D / , ' 1 '6' -6, 126/ ,)*1/15 % ;2.' >1,;.' 86.',)*' 1;20*-' 1 '6' .>)11/',)*' $ '8)1' 0 ., 2^ 5;.)*0',)*?.*/+*.' 1-' .;D,/*, ' 1 ' 0 .=:,6, 12' 620' 1-' 2>*..62,'0 .=:,*.' 8 ,)',)*' -" f ()*.*' 0 .^ =;,*.' 8*-*' .1' -*';*2,/' ?L*0';=' 8 ,)');?62' =6.^ . 12.',)6,'.> *2>*' 0*-+*0' -1?',)*?.*/+*.' 2' >-> ;?.,62>*.' 620' ' +*-' -*_;*2,/')6==*2*0',)6,',)*' =1 2,.' 2' _;*., 12' 2.,*60' 1 ' D* 25' */;> 06,*0' 8*-*' 1D.>;-*0' ,)-1;5)',)*-' >12,-1+*-.' M (*22*?622 ' D ' ' ' %" 'g KSQX% **' ! .',1',)*' 8 //' ;2.' >1,;.' ?6 2,6 2*0' ,.' -**^ 01?'8,)1;,'62 ' !' 2' 6>,'7',)*'/*60 25' 0 ., 2>, 12' D*,8**2',)*' ()1? .,' 620',)*' >1, .,'% 9 " '-*.=*>,.',)*' -*/6, 12' 1',) 29 25' 620' 8 // 25' 8)>)'6/,)1;5)',)*' 6-*' 1;20' ;2 ,*0' ' 2',)*' .1;/'I ,%' L12' ' ! SX% ()*' 0*^ ,*-? 2 .?'1' ()1?6.'6>>1-0 25',1'8)>)',)*' 8 // 2*>^ *..6-/' >)11.*.' 8)6,',)*' ,)1;5),' =-*.*2,.',1' ,' 6.' ,)*' D*.,' ;2.'>1?D6,.'?1.,'*?=)6, >6// % 1,'12/' ,)6,',)*' 8 //)6.',)*' =18*-',1'0*,*-? 2*' ,.*/'*2, -^ /'6/12*' I ! f K X' 620' ;20*-'>*-,6 2'>-> ;?.,62>*.' ,1'6>,'656 2.,',)*' -*6.12' I' % ' R' 620' S X' D;,' 2' 0*>0*0' 1==1. ,12',1' ()1?6.' ,' ?6 ' D*' .6 0',)6, 2' +*-' = 62 '>6.*.',)*' -*6.12' .' 0*,*-? 2*0' D ',)*' 8 // ' *% 5% 8)*2' 8 // ,1',) 29% ,' .' ?1.,'A;0 >1;.' ,'1' 0 .,25; .)',81' 0 *-*2,' ?10*.' 1 ',) 29 25 ' 7,D% -.,' 8)>)' =-*>*0*.',)*' 8 //' ',)*' .*>120' 8)>)' 1/^ /18.' ,' D;,'*+*2',)*' 1-?*-' 01*.' 21,'0*,*-? 2*',)*' 8 //' 1' ' ' % ' 1,%f L12% ' f K' 4 f X% & ,)' 22.',)*' 8 // .' *2, -*/ ' 0*2, >6/ 8,)' + :' 8)6,' ,'01*.' .' ' ' 8)/*',)*' 2,*//*>,'1D* .' 2*>*.. ,' 1,%f L12% ' f K X% ()*' ;2>, 12' 1',)*' /6,,*-' .',1' ;-2 .)',1' ,)*' 8 // ,)*' ?6,*-6/ 8)>)',' >1?D 2*.',)*'=1.. D /^ ,' D* 25' 5 +*2',1' ,' 1 '8 // 25' *2, -*' 1==1. ,*.' 1,%f L12% ' f NRXJ' M -0?622',-62./6,*0' D ' ,6-D;>9' & ! f' 5 ' =- /' QS '=% KRRX% 2',)*' -" ' 1' >1,;.' 8*',69*',)*' 1//18 25' -1?' -0?622.' 6-,>/*A;..' >,*0a ()*'=*>;/6-,*.' 1' ;2.'=.>)1/15 '6.' 8*// 6.') .' 0*+ 6, 12.',)*-*^ 2*' -1?' ()1?6.'-* /*>',)*?.*/+*.' 2',)*' 2*2*-' ,' 8) >)')*' + *8.',)*' *..*2>*' 1 '410' 620',)*' 0*-, 2 '1' ?62' 620',)*-* 1-*' 2') .',)*1/15 '620' *,) >.% .' ,1') .',)*1/15 a . 2>*',)*' *L .,*2>*' 1 ' 410' ? 5),' D*' 92182' 8 ,)1;.';=*-26,;-6/ //;? 26, 12',)*-*' .' ,)*-* 1-*' % ' 2 '6>9218/*05*' 1',)*' 0 ^ + 2*' *..*2>*' 1 ' 410' .',)*' 1-?*-' >1;/0' 21,' 7*' =-1+*0' % ',)*/6,,*-' 6/.1'>6221,' D*' 0*-+*0' -1?',)*') 5)*.,'?*,6=) .>6/ 0*6'1',)*' 1-" ' X' D;,' 8*' -6 .*1;-.*/+*.',1',' D '=-1>**0 25' -1?',)*' ' 620',)*' 1' 410% ;-' 9218/*05*' 1' ,)*' *..*2>*' 1' 410' .',)*-* 1-*' 21,' 2,;,+*' D;,' 6D^ .,-6>, +*' I5 %!' ' /1/% 4 f KX% ()*' 0 ., 2>, 12' 2' ,/?') /7*' ;?62' .1;/ D*,8**2',)*' 2 ' 8)1.*' >*2,-*' .',)*' ?*?1-' 620',)*' 8 //' ?;.,' 620',)6, ' ,)*' 1;20' 2',)*' 1-5 26/5-1;20'1'?62' 2' 410% >^ >1-0 25/' 2' 410';20*-.,620 25' 620' 8 //?6.,' D*0 .^ ,25;.)*0' 1' 8)>)',)*' 1-?*-'6>,' ' ,)*' /6,,*-' :' ,)*' 1-?*-'.',)*' 6-,' 620',)6, ' ,)*' 1-5-1;20' 620'.;?'1'6//' 2*>*.., ',)*' /6,,*-' 1'6//'>12, 25*2> '620',)*-* 1-*' ?6 'D*' 26?*0',)*'=1.. D/,'1',)*' >12, 25*2,' 2' 410' I5 %!' ' ' f '4 f NT' ' ' f X% 26.?;>)' 218'6.',)*.*',81'0*,*-? 26, 12.'M *., ??;25*2X5 +F



6?125',)*'5-*6,*.,'81-9.'8) >)')- ., 62'6-,')6.'*+*-'=-10;>*0% -*-'86.'62'*2,);. 6.,>'60)*-*2,'1',)*' * 1-?6, 12',)1;5)' ,' .'01;D, ;/ ')*'+*-' ;// '.*=^6-6,*0' -1?',)*');->)'1' 1?*% :*'0*0' =- /' 'KQ%

1,)'6.'62'*25-6 7*-'620'6.'6'=6 2,*-' -*-'D*/125.'6?125',)*'5-*6,*.,'6-, .,.'1'6//65*.7 :.'8)-.'-*^/*>,',)*'21D/, '1') .'>)6-6>,*-'1'8) >)'?62 '1') .'*? 2*2,'>12,*?=1-6-*.'6.'<*/62>,)12' 6=*-6'- ;.'620' -9)*?*-'D*6-',*., ?12 % ()1;5)'6',*2^0*2> ',)*'62,6., >'6'=*>;/ 6-, '1'1/0'4*-?62'6-.'1?*8)6,'1D.,-;>,*0',)*' ;//0*+*/1=?*2,'1') .'6-, .'5 =18*-' *.=*> 6// ' 2') .' 1;,) ')*'.;-=6..*0'6//6-, .,.'1') .'65*' 2'5-620*;-'1'>12>*=, 12% ?125',)*'D*.,'=6 2, 25.'1' ;-*-'D*/125',)*' .. ; ?=, 12'1' ,)*' -5 2'<6-'M Rf'8) >)'2' S '86.'0*.,-1 *0'6,',)*'D;-2 25'1',)*'=6/6>*'6,'< ;2 >)'),)*'*L) D, 12'1',)*' : 1/'(-2, ',15*,)*-' +,)'?62'.6 2,.'620'D/*..*0'M X'218'6,' *226' 06?'620'+*'2' 5^;-*.'1' ;// . [*'1'/ *'M X'218'6,'<60-0% 2^5-6+ 25')*' 1;20'2' ,.' 2 62> '620'>6-- *0' ,'1'6'=*- *>, 12' 2*+*-' . 2>*' .;-=6..*0% ?125') .'D*.,'>1==*-C=/6,* *25-6+ 25.'D*/125' ',%B*-1?*' 2') ,' *// J' <*/62>)1/ J'620' ,)*' 2 5),' *6,)'620'*+ /%J' ()*'?1.,' 21,*0'1') .' 8110C>;,.'6-*' ,)*'4-*6,*-J'620' *..*-' 6.. 12 J'620',)*' *'1',)*'-5 2%J' $->-'6/.1'8-1,*'.*+*-6/81-9.'2',)*'4*-^?62'/625;65*' +) >)')60'6'5-*6,' 2/;*2>*'620'8*-*',-62./6,*0'2,1' 6, 2'620'.*+*-6/?10*-2'/625;65*.%M)'),)*',*->*2,*26- ''7') .'D -,)',)*'>1-2*-C.,12*'1'6'?12;?*2,',1' -*-' +6.'/6 0'2') .' 26, +*'>, ' ;^-*?D*-5'8)*-*') .'?*?1- ')6.'6/86 .7D**2')*/0'2'5-*6,'+*2*-6, 12% ()*' +1-9 86.'>1?=/*,*0'D ',)*' 00, 12'1'6'D-12[*' .,6,;*'1',)*'6-, .,'D ' 6;>)% **' : *//*-' " " !' + '& ' ' 'M * =[%K'+1/.%XT'f12' +*' "I]' ' + '& "'D 'M 1-0/2C'5*2' < XT :%MB-?7?'& "'' ' 'M */2' QSSXT' ' 3' E" ' M ;-*?D% Q XT' ' " ') % "1' '-'`P ' " 1' ' ' . " *'M: 621+*-^ .:'2'á D"'3(' # /(" I 1 2E IG%" %+! N " *- %"!'7 " * 'M *226' QS X% ;-)6?'('6' >1,>)'0+2*' +6.'D1-2'2'&*7, 1,/ 62'6D1;,' SKK'620' +6.'*0;>6,*0'6,',% 2C'0-* % :*'86.'1-06 2*0'6,'N '620'86.'6'=1=;/6-'=-*6>)*-'620'M -1?'S X'=-1*..1-'1'0+2 , '2'4/6.C'51 +% :*'0*0'2'S Q' :*'=;D/.)*0'&'6 %(' '"';0 f' 'D 'M4/6.518' S R' K?1XT'&'6 % 9 ' '"'$ ' '$ 'M 12012' SSR' ,1XT'&' ' "'; +' '5 'M 2.,*-O%' SS' ,1'4/6.51 ' QQ' ,1XT'%' (*' '"'1' "'% ' ' "'MK'+1/.% +1Xa'6 % ' '"' =('M 12012'S ,ZPXa' ?V 'M ,)'*0%'4/6.518' SR' +1Xa'$ ' '"!'5 " ' ' " 'M *-8>9' R K?1X%' :1 +*'$ ' " '%=% NQN%

;-. 62.%' **' $!

' ;-': $. '3'(' '62'*?2*2,' -1,*., 2,'0^+2*' +6.'D1-2'2' R'1-' RS'6,' 0 2D;-5)% :.'6^,)*-')60'D**2'6'?129'D;,'D*>1? 25'6' -1,*.,62,'/*')60',1'/**' ,1' :1//620'620'D*>6?*'?2.,*-',1',)*' 25/.)'620' >1,>)'6,' * 0*2% :*-*'B1)2' ;-' *0';>6,*0'1-',)*'?2.,-% :*'+.,*0'L 1-0'2' SK'1-',)*'.69*'1',)*'/D-6-*.%' 2'SKQ')*'D*>6?*=6.,1-',1',)*' 25/.)'6>,1-'6,' /D 25' -;.. 6'8D*'*')*'D*>6?*6>_;6 2,*0' +,)' -%MB10*?622'12*'1',)*'>1;2> //1-.'1'4;.,6+;.' 01/=);.% 410*?622'.;5^5*.,*0';' ;-',)6,')1*+*-'.)1;/0'D- 25'6D1;,'6 (>>12>/6, 12'D*,8**2',)*'5-*6,'=6-, *.' 2,1'8)>)')-.,*201?'86.'0+0*0' +1;/0'D*',)*'5-*6,*.,'1'=*6>*?69*-.% -1?',)6,',?*' 1-86-0',)*'5-*6,*-'=-,'1')./*'86.'0*f1,*0',1',)'.'1D1*>,% :*'86.'2+,*0',1' 25/620'2'SN',)-1;5)',)*'2/;*2>*'1' -'()1?6.' 18*' 25/.)'*?D6..601-',1',)*' H1;-,'1'4;.,6+;.' 01/=);.% :*'86.'8*//-*>* +*0'620')' -.,'=/62.'8*-*'6==-1+*0'D'6->)D.)1=' DD1,'D'6;0'M,)*2'D.)1='1' 12012X'D.)1=' .0*//'620'D.)^1=' :6//% 2' N')*'/6 0')'.'=/62.'D* 1-*'4;.,6+;.' 01/=);.'8)1'86.'5-*6,/'2,*-*.,*0'2',)*'?'620'56+*')?'/*,,*-.'=6,*2,'-*>1?2**20 25')?',1'6// -1^,*.,62,'=- 2>*.% -1?',)*' ;,)*-62.'6.>* 0*2>'*//8,)')?% ;,' ;- .'>6;.*'620'=/62.'56 2*0'-*20.',)-1;5)1;,' ;-1=*% 2' SNN')*'-*,;-2*0',1' 25/620'620'6,',)*'.;55*., 12'1' 6;0'86.'1-06 2*0'=- *.,'D'D.)1=' :6//M8 ,)'21'1D/56, 12'1'-*.0*2>*'2' SN% -?*0'8 ,)'/*,,*-.'-1?' 6;0'620'1,)*-' 25/.)'=-*/^6,*.')*'6,,*20*0',)*'?**, 25'1' -1,*.,62,' ,6,*.'2' -629 1-,'M SNRX% :.'/ *'86.',)*2>* 1- +6-0'62'2^>*..62,'-1;20'1'A1;-2* 25.'>1//1_;*.'/*,,*-.'620'=;D/>6, 12.'6// ;,/*'.1'6-'6.'D.'5-*6,'6?'('>12>*-2*0% :*'0*0'6,' 6..*/* *=,%KQ SQ % '.;?? 6-'6>>1;2,'1',)*?*'.'5 +*2'2',)*' +('5 'B62;6-'Q '6-,%'-1?' +)>)' 7*,69*',)*' 1//18 25'6>>1;2,'1',)*')*'.1;->*.'1'2 1-?6, 12'6.',1' ;- a' %'&' '5 ' '"' '" "'"' ' '1 % ' '% ' ' '

,620 ' / D*-,6,*?' .*>;20;?' .% >- =,;-6.' -*5;/6,6?' *,' _;A '=*-.126/ 6' 212',-6>,*,' >12>*0*206?' *..*% R% 2C' A;- 6-;?'=--*,*-,6-;?'6?2*.,6?'*..*' 6> *2062 ' 2*>' ?=;2*'60? .,*20;?';,';/$'.*'21+ .' 2A;- .' 2>*..62,% % *5 ?*2' >>/*. 6-;?' ;,- _;*' =6-,' / D*-;?' *..*' -*/ 2_;*20;?';,' //;0'=-1;'*L';.;'.;1';./ .. ?;?' A;0 >6D ,' _>/*. 6' _;1*/ D*,' >12.,,;6,% ()*' ?*62.' -*>1?2*20*0' 8*-*',)*' .*,, 25'6. 0*' 1',)*' =-*A;0 >*.' 1',)*' =6-, *.' 656 2.,' 12*' 621,)*-',)*' =;D/ >6, 12' 1' D119.',1' -*>1?2*20',)*' ;2 12' 620' >1--*.=120*2>*' D*,8**2',)*' =6-, *.%J' 4 *.*/*-' " "' # 'M*O% D ' ?,)' +'g X% **' 6/.1'MD*. 0*.',)*' 81-9.'>,*0' 2',)*' >1;-.*' 1',) .' 6-, >/*X' <1.)* ?' " "' # M *8' 1-9' Q 'N'+1/.% +1X' 'NS T 6 /*' ' 1' *'%%NT * 0' '# :' -21/0') " =) / ' 1'L+ 'L 'g KNT 180 25' ' 1 'M *20% QS 'E\ 8!

;.,'M;.;6// ' %" (:'D;,'= BB' "(E% 2' ' 2' L10% L'RT .6% +'K T LL L' T [*9% LL+ ' T 6)% 'NT =180*-J* *;,% LLL+ 'K T 620' + "(+'1-' ?=6/=6D/*' 0;.,' .6% L/' T ==IG' + "('1' 1'K') -12% LLL +' T 4-% ,' %-2 T D;' <6-9'+' T *+% L+ RX% 2',)*' ??*0 6,*+>2,'1'B;06*6',)*-*' 6-*' +6.,'=/6 2.'1-'0*.*-,'1' 2** .620'8)>)'8)*2' 65^ ,6,*0'D'6'+1/*2,'8 20'?69*.'?1.,',*-- >'620'0*.1^ /6, 25'.,1-?.% 6.,*-2',-6+*//*-.'0*.>-D* ,)*?'=6-^ ,>;/6-/ '620',) 29',)*?' ?1-*'0-*60 ;/ ,)62'.,1-?.' 6,'.*6% () .' 6 1-0.';.'6' .,- 9 25' //;.,-6, 12'1',)*' 26,;-*'620')1--1-.'1',)*'=/65;*'?*2, 12*0'2' L10% + ' S '8)*2',)*' *L,-*?*/' 2*'620'=*2*,-6, 25' 0;.,'1',)*' /620'1' 5 =,' 86.'>12+*-,*0' 2,1' !' ?125',)*'+6- 1;.' *6- ;/=;2.)?*2,.'0*21;2>*0' 2' ,)*'*+*2,'1',)*-' 1-.69 25'B*)1+6),')*' :*D-*8.'6-*' ,)-*6,*2*0',)6,',)*' -6 2' 1',)*-'/620' .)6// D*>1?*' =180*-'620'0;.,J'M *;,% LL+ 'K X% **' ! ?125',)*' :*D-*8.',1'>6.,'0;.,'1-'6.)*.';=12',)*')*60'86.'6.52'1'?1;-2 25'MB1.)'7 ' X'620'.,, 25' 2',)*'0;.,'86.'6.52'1'*L,-*?6'6 />,12'M .6% L/+ ' T' 6?% 'KRX% **' & f ()*',*-?' 0;.,J'.' 1,*2';.*0' 5;-6,+*/ '.1?*,?*.'1'0*21,*',)*'5-6+*Z' MB1D'+'K X'1-'0*6,)',.*/'M4*2% ' RT .6% LL ' % X' .1?*,?*.',1'*L=*-.'6'2;?*-1;'=*1=/*'M ;?% LL ' X'620'.1?*,?*.'6'/18'1-'?*62'>120,12'M ' 6?% ' QT 6)% ' QX' **' & *? ..'$ f' ' .% +% (1'.)69*'1-'8=*'1',)*'0;.,'1'6'=/6>*' -1?'12*.' **,'?6-9.',)*'-*21;2>25'1'6//2,*->1;-.*'8,)',' 2' ;,;-*'M<6,'L' T >,.'L ' X% (1' />9',)*'0;.,J' .52 *.',)*'?1.,'6DA*>,'.;D? .. 12'M .6% LL 'RX% 2' 6/?1.,'*+*-'=6-,'1' .6',)1.*'8)1'0*?620'A;.,>*' 656 2.,'6'>-?26/',)-18'0;.,';=12')?% ();.' <C' ?*'>6.,'0;.,'6,' 6+0'MK' 6?% L+ ' NX'.52 25'D' ,)6,'6>,12',)6,' 6+0'1;5),',1'D*'=;,',1'0*6,)% ()*' + *8' .'>_7 -?*0'D',)*'>120>,'1',)*'B*8.',1' 6;/' 8)*2',)*' .*' [*0') ?' 2',)*' (*?=/*',)*'>-*0'1;,' ' 86'8,)'.;>)'6' */18' -1?',)*'*6-,)' 1-',.'21,' ,',)6,')*' .)1;/0'/ +*' 620'6.',)*'>-*0'1;,'620'>6.,' 1',)*-'>/1,)*.'620',)-*8'0;.,' 2,1',)*'6-',)*'>)*' >6=,6 2'>1?2620*0') ?',1'D*'D-1;5),' 2,1',)*'>6.,/*J' M >,.'LL 'KNX% **' ' !

;,>)' * 1-?*0');->)% ** ' $ '!

;,*2.' 1; .'86.'D1?'6,'(1;-.' A62>*'B62;^ 6-' S N % &)*2')*'86.'6D1;,'*5),**2')..',*-' 86.'=;,' 2,1'6'>12+*2,'D'1-0*-'1',)*'6->)D.)1='1' (1;-.% () .'+1/*2>*',1' --,6,*0',)*' 1;25'?62',)6,')*'/*,';) .'>1;2,-'620'.*,,/*0' 2' 25/620'8)*-*')*' *2,*-*0',)*' ? 2.,-'1',)*' ,6D/.)*0');->)'620' D*>6?*'-*>,1-'1'/.012'2' 1-,:)?D*-/620% :*'0*0' 2' 12012'<6->)'KN' Q K%3 ;,*2.'86.'6'?62'1' +6-*0';/,;-*' 86.'6'?*?D*-'1',)*' 1 6/ 1>*,' 620')60',)*',/*'1')..,1-15-6=)*-',1',)*'9 25% >C . 0*.'8-,25'2;?*-1;.'81-9.'2'.>* 7*'620'/,*-6,;-*')*'*0,*0',)*'81-9.'1' * D2,[' , ' % ' + 1'*,>%M4*2*+6' SR' '+1/.% ,1X' '- = ' SR'M656 2.',)*' 2 0*/.' 1',)*' Q,)'>*2,;7 ' -*^ =-2,*0';20*-',)*',/*'&%% ' ?' $ ' M *20% ' +1X' ' 'N ' % *,>% M4*2*+6' Q ' +1X' 5 + " ' 'N ' ' ' 'M 6-.' SS Q+1' ,)'*0,12' Q K Q+1' ,-62./6,*0'& ' 4 ' '" ' ' '" ' ' ' '1 F ' 12012' SR' +1X% ' :1* *-' 7 !';!?'L+' RS%

;,1,'(WR' // '6/.1'>6//*0';,1,C<*?C D-2'86.'D1?'6,'<1;012'M 8,[*-/620X' 2' K % :*' 0*+1,*0')?.*/'6,'62'*6-/'65*',1',)*'.,;0'1',)1/^ 15'6,',)*'6>60*?'2' 6;.622*'620'2' 'D*>6?*' 6'>620 06,*'1-',)*'?2.,-'D;,')*'2*+*-',119'6'=6.C ,M 6/>)6-5*% 2' ')*')60'6'.*+*-*' //2*..'0;-25' 8)>)')*';20*-8*2,'6',)1-1;5)'-*/51;.'>)625*% :*' 86.'6>>;.,1?*0',1'=-*6>)'*L,*?=1-62*1;./ '620'6/^ ,)1;5)').'.*-?12.'8*-*'5*2*-6// '/125')*'6/86 .'6,^ ,-6>,*0'/6-5*'6;0*2>*.% ,'86.'21,';2;.;6/',1'.**'6,' ,)*'>/1.*'1')..'0.>1;-.*.'?*2'8)1')60'/+*0'2'*2^ ?,'8,)'*6>)'=,)*-'D*'->%12>/*0% 2' ')6+25' 6>>*2,*0',)*'6==1 2,?*2,'1'?..126-A(=-*6>)*-'620' >6,*>).,')*'-*.52*0',6,*-'1;-,**2'06.% 2' R' ?=6-*0')*6/,)'1D/5*0')?',1'0*..,'-1?'=-*6>)25' 620')*'>6;.*0').'26?*',1'D*'.,-9>*2'-1?',)*/.,'1' >/*-577?*2% :*'218'0*+1,*0')?.*/'8,)'6//).'*2^ *-5',1',)*'.,;OA7'1',)*')>-)'6,)*-.'*.=*>6// ',)*' <.,>.% :*')?.*/'D*>6?*'6(.,-125'-*=-*.*2,6,+*' 1'<A7.,>.?'2',)*'-*2>)'*1-?*0')>-)% :.' 1==1.,12',1'1/,6-*'6.'8*//6.').'.*>/;.12'?60*')?'?62'*2*?*.'6(20'12',)7 ,)'1'B62;6- ' MPR' 8)/*'12'6'D*0'1'.>92*..'D*'86.'.;00*2/'+.,*0'D' ,)*=1/>*'620'D'1-0*-'1',)*'6;,)1-,*.')..'=6=*-.' 620'?62;.>-=,.'8*-*'.*[*0'620'1-86-0 0',1'*-2*† D;,'6.')..'D119.'8*-*'1;20',1'D*'1'6'+*-'221>*2,' >)6-6>,*-'21,)25'>6?*'1',)*'6 6-% $=12' ;,1,' ,)1.*'=-1>**0 25.'?60*'6'/6.,25'?=-*..12'?;>)' 5-*6,*-',)62'>1;/0')6+*'D**2'.;==1.*0'1'.1'=1;.' 6'?62% :*'2*+*-'-*>1+*-*0'-1?',)*'.)1>9'620' 0*0'.;--1;20*0'D'6'>->/*'1'-*20.'620'6Z2-C' *-.'B62;6 'K' RN% ;,1,'.')5)/'.=19*2'1'D' ,)*')..,1-62.'<1226-0'620'/+*-'620'1'/6,*'6,,*2^ ,12')6.'D**2'>6//*0',1')..'8-,25.'D'6'?*?1-'1')./ *'620'81-9.'D'B;/*.')6+622*.'2',)*' 4 ' QS '=% KQR' NSR' SN % ()*'?1.,' ?=1-^ ,62,'81-9.'1' ;,1,'6-*' " %" ' ' *,>%'=6-' */*=)'D*2' 6,)62'N'+1/.% D T 620'62'*0,12'1',)Z7 ' ' '? '8,)'600,126/-*/*>,12.% '' :*-[15' 5 26 + %0'L L' '._%

;,,12' 6-12' 6' 125-*56,126/?2.,*-'86.' D1-2'6,'!&6,*-,182' 122%'<6'K Q % :*'5-60;^ 6,*0'6,' 6/*' 1//*5*' 2' Q N'*2,*-*0',)*' ?2.,-' Q '620'86.'1-06 2*0'=6.,1-'1',)*' -.,');->)' 4;/1-0'*>% ' Q S% :*'-*.52*0'B;2*' Q K' 620'6'7*6-'6,*-'86.'.*2,'6.'?..126-A7,1'186'D' ,)*' ?*-% :1?*'<..% 1>*,A % 6>>*=.*'6'>6//' 2' Q N' -1?',)*')>);->)' 2' ;-/25,12'620'-*,;-2*0' ,1'=-*=6-*' 1-')..'-*?1+6/')..;'86.',69*2' //'620'-*^ ?6 2*0' 2' *8' :6+*2';2,/').'0*6,)'B;2*' Q R% :*'86.'21,'12/A7'6'.;>>*..;/?2.,*-'D:,'62'* >*2,' *0;>6,1-% <62'1')..'=;=/.'8*-*'0.,25;.)*0' 2' >1//*5*'620'6,*-86-0.'D*>6?*'*?2*2,'2',)*'/*6-2*0' =-1*..12.% :.'=;D/>6,12.'>12..,'1'.1?*' 1>7' .126/0.>1;-.*.%'=-65;*'& ' 'QR%

;,,12'<6,,)*8' >*'6' 125-*56,126/?2^ .,*-'86.'D1-2'6,'&6,*-,182' 122%'B;2*'N QN% :*'5-60;6,*0'6,' 6/*' 2' Q Q% 2' Q ')*'86.7 260*' ,;,1-'6,' 6/*'620'2' Q 'D*>6?*'=6.,1-'2',-6,1-0' 122%'8)*-*')*'-*?62*0';2,/ QK'8)*2')*'86.'7 >6//*0',1'6/*' 1//*5*'6.'=-1*71-'1'?6,)*?6,>.'620' 26,;-6/'=)/1.1=)A% :*'*2,*-*0'12')..'0;,*.'8,)' 5-*6,'+51-'D;,').')*6/,)'.112'6/*0'620')*'0*0'2' B;/A 'QK%' =-65;*'& ' 'SRK%

;,,12' 6?;*/'&%' %'6' 125-*56,126/?2^ .,*-'.12'1',)*' *+% 6-12' ;,,12'M_%+%X'86.'D1-2' 6,'4;/1-0'122%'<6->)' Q '620'5-60;6,*0'6,

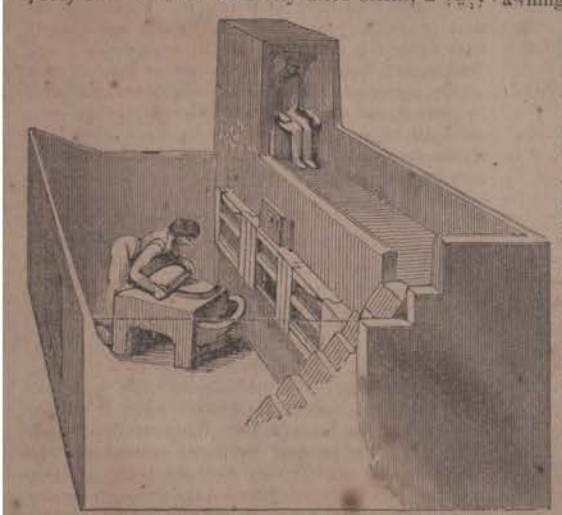
6/*' 1//*5*' 2' QNN 8 ,)'0 ., 25; .)*0')121-% ,*-' ,)-*'' *6-.'1 ',*6>) 25' -.,'6,' 6/, ?1-*'620',)*2'6.' -*>,1-'1 ',)*' : 1=9 2.'4-6?2?6-' >)11/6,' *8' : 6+*2')*' D*>6?*' 12*'1 ',)*',;,1-.'6,' 6/*' 1//*5*'=-1.*>;,^ 25'6,',)*' .6?*', ?*') .' .,;0 *.' 2',)*',)*1/15 >6/0*^ =6-,?*2,'1',)*' $2 +*-. , % : *' 86.'1-06 2*0'=6.,1-' 1',)*' 1-,)');->)' 2' *8' : 6+*=' 2' B;2*' QNQ% : *')6.' D**2' 8 0*/ '92182'D') .' +6/;6D/*' >12,- D;^ , 12.' ,1' ,)*' 7 '6 1'620' D ' 1,)*-' 1>>6. 126/ =;D/ >6, 12.% : .' ' ' =-*6>)*0'620'=;D^ /.)*0' 2' Q '12' ` ()*' -*/6, 12' 1 ',)*' 6,12*?*2,'1')1/ 2*..' M,)*' .;DA*>,' D* 25' 6.. 52*0',1') ?' D ',)*' 4*2*-6/ ..1> 6, 12' 1 ' 122*>, >;,X' 86.'6' 6D/*' 620', ?*/ ',)*1/15 >6/,-*6, .*' 620' 86.') 5)/ '>1?^ ?*20*0' D '>-, >.' 1 '+6-1;.' .>)11/.' 620' 0*21? 26^ , 12.%J' ()*' 0*5-**' 1 ' % % 86.'>12 *--*0' ;=12') ?' D ' 182' $2 +*-. , ' 2' Q S% -% ;,,12' 86.'6' 6 ,) ;/ 620' .;>>*.. ;/ =6.,1-' 620' 6' 0 ., 25; .)*0' =-*6>)*-% 1-',)*' 7 '6 ')*8-1,*' 6D1;','81' 6-, >/*.'6' *6-' -1?',.'>1?7*2>*?*2,',1',)*' *6-'1') .'0*6,)% : *' 0 *0' =6.,1-'1',)*' 1-,)');->)'B62% K ' QSS% ' -" ' % 1'B62% QSS' ' 1' =-/' QS % ;, ' M N7 ' " E/,% 6' ' 1-' ?6,,*-' 4-% c,fc;' ' (8! 1-' 0;, ' 1 ' ?6-- 65*J' ("(*' ',15*,)*-' L10% LL ' ' ;.*0' 2',)*' (6/?;0' 1-'>122;D 6/-5),' % _% -X SU% E -*' '0;*'D*2*+1/*2>* 7 ' 1-% + 'NX'.**' ' ! 1-' ,)*' 0;, ' 1 '6');.D620 .'D-1,)*-J' M I ' 156. ' *;,% K ' ',1' '6'0*>*6.*0'D-1,)*-.' >) /0/*..' 8 *' 4=2% LLL+ 'QX'.**') ') ! ** > ' L ! ;+* /' ' ' ' % %'6'>12+*-,*0'B*8' 1',)*')*' >*2,;- ' 1',)*' 6>,.' 1'8)1.*'/ *'/ ,,/*' .' 92182% : *' 86.'D1?'6,' <*,[' 1--6 2*% 6-* ;// *0;>6,*0') .' .,;0 *.' /*0') ?' ,1' 6D62012' B;06 .?' 620'6.',)*' :1?62');->)' 86.',)*' -.,')- ., 62' .1^ > *, '8 ,)' 8)>)')*' 86.'D-1;5),' 2,1'>12,6>,')*' 2*^ ,*-*0' ,.' >1?7;2 12' 620' ? 2 .,- '620'-*>* +*0',)*' , /*' 1' % % &) /*' 6' 1?62.',)*' =;D/ .)*0'6' 9 ' ' " ' ' + ! ;,'D .' ;-,)*-'..;0 *.' /*0') ?',1' -1,*.,62,'+ *8.'620')*' =6..*0' -1?' -62>*' 2,1' 25/620'8)*-*')*' 86.' 8*// -*>* +*0' D ' , // 25% /**,' (//1,.12'620'1,)*-' *? 2*2,' ?*2' 1',)*');->)' 1' 25/620' 620' 86.' 60? ,,*0',1' 1-0*-.% : *' 0 *0' 6D1;,' % ?125') .' 8-, 25.'6-*' 6 %2 ' ' 'M 12012' S ' +1Xa ' 6 % ' '" ' ' %" ' SQ X% 112 6 ,*-',) .'=;D/ >6, 12')*' D*>6?*' 6' 6=, .,'620' 8-1,*' 2' 6, 2' 6' ' '& '&% 1'8)>)'86.',-62.^ /6,*0';20*-',)*' ,/*' &' '6 % (' '" ' & ' '" '# '&% 'M 120% 4Q Q+1' 2*8' *O%' *0 ,*0') ' % % 1L' 1-',)*' : 62.6-0' 21// .' 1> *, '\ 120% : 1/' +1h X% 2',) .' >1?7*2,6-' ;+* /+20>6,*' ,)*' =- 2> =/*.' 620' ;.65*.' 1',)*' 6=, .,.% ' ;+* /' ' '& !'# ' ! ;+*-5 *-'1-' ;+*-5*-'(' '% $ ' 6DD1,' 1' ,' % A(62'86.'D1-2' 6,' 6 122*' -62>*' 2' Q % : *' .,;0 *0',)*1/15 ' 6,' 1;+6 2% : *-*')* ?60*',)*' 6>_;6 2,62>*' 1 'B62.*2 ;.' 8 ,)' 8)1?')*' 8*2,' ,1' 6 122*',1' >12, 2;*',)* -' .,;0 *.' ,15*,)*-' -1?' S ',1' S S% 2' S R')*' D*562',1' 0 ., 25; .)') ?.*/'6.'6' >6.;.,'D ').',-*6,?*2,'1',)*' ! 2' S ')*' 8-1,*' 2' 0*' *2.*'1 ') .' - *20',)*' D.)1=' 1' 1 , *-.' 8)1')60' D**2' D/6?*0' 1-')*60 25' ,)*',-11=.' .*2,'656 2.',)*' -1,*.,62,.% ,*-'51 25' ,1' 6- .' 8)*-*')*>6-- *0' 12' 62' *L,*2. +*'>1--*.=120^ *2>*' 8 ,)' B62.*2 ;.' 8)1')60' -*,;-2*0',1' 1;+6 2' 620' >12, 2; 25' ,1' 6==/' ') ?.*/' .,// ?1-*' ,1',)*' .,;0 ' 1 '%,)*' 6,)*-.'%*.=*> 6// ' 1 ' ,% ;5;.,2*')*' 86.'>6//*0',1' 25/620' D ' :*2-*,,6' 1 ' -62>*' 8 ' 1 ')6-/*.' % : *',)*2' >12>* +*0',)*' 0*6' 1 '1-562^ [25',)*' 1?62' 6,)1/ >');->)' D ' 25/620' 1 ',)*' =/62' 1',)*' 46// >62');->)% ()' D-1;5),') ?' 2,1' >12 />;'8 ,)',)*'B*.;,.'656 2.,'8)1?')*' 8-1,*' M SN X' ;20*-',)*' 6..;?*0' 26?*' 1 ' *,-;.' ;-*/ ;.' 6' D119 8)>)',)*' & "2 ' ? "('1',)*' -*2>)' >/*-5 '6=I' =-1+*0' 620' 1,' D*' =- 2,*0' I '& 2 ' "1' ' % 1* ' ' % ' ' ' ' JB ' ' 6-..' S I' 2*8' *0,% S SX% ;+*-5 *-' 620' B62.*2 ;.' .112' 6 ,*-' 0*> 0*0',1' 1-?' 6' >125-*56^ ,12' 1',)*-.'1',)*' -6,1- '620')60' ?60*' .1?*' =-15-*..' 2' ,)6,'0-*>, 12' 8)*2' 2' SN ' ;+*-5 *-' 86.'6==1 2,*0' .= - .;6/0-*>,1-' 1',)*' 6DD* '1' 1-,' 1 6/ M % +h X% : *-*',)*' * *>,'1',).' =- 2> =/*.' 86.'6==6-*2,' 2',)1' =;-*' ?1-6/.'1') .' >)6-5*'8)>)'>12,-6..*0',.-125/' 8 ,)',)*' 5*2*-6/ /6L , '1',)*', ?*% : *'.112')18*+^ *-' 2>;--*01,)*' 0 .=/*6.;-*' 1' >)*/ *;' M % +h X' 8)1')60')?'6 -*.,*0' 620',-62. *--*0',1' 2>*22*.' <6' SNQ% : *' 86.' -*/*6.*0' 2' 1D-;6-A7' S N' 6 ,*-' >)*/ *;,'0*6,)% : *'>12, 2;*0',1'/6D1-'6.'>12 *..1-' 620' 8-,*-';2,/') .' 0*6,)' >,% S N% 6-,.'1') .' D10' 8*-*' =-*.*-+*0' 2',)*' 6DD* '1' 1-,' 1 6/ 6.' .6>-*0'-*/>.% *. 0*.',)*' 6D1+*C?*2, 12*0' 81-9.')*' 8-1,*' 6/.1'$ ' 'M SKS' 656 2..',)*' B*.;, ' 46-6..*'8)1')60' 6>>;.*0',)*' >6.;..'1'6,)*.?X'620' 1,)*-'1>>6. 126/=6?=)/*,.% ** 6 2,*' *;+*' # ' ' '5 .' : *-[15' ' : 1* *- 7 !'; !? 1'L+'S K% 8 6-'M=2'->/I' '.'?6//'6.' 2' *+% L+ ' KX' 62' 2>1--*>,' -*20*- 25' M *+% LL 'K ' *=,% U% 1 ' =/5% %% 8' 1-'6' '1-'*?6> 6,*0'=*-.12' % *% D ' 0 .*6.*' M6.' 2' 4*2% L/ ' NCK ' *+% L ' N X% ** 8 ' ! 8*//'M*L=-*..*0'D '+6-1;.' : *D% 620' 4-% 81-0.' 1 ,*2' 0 *-*2,/ ' -*20*-*0' *% 5' 7 D2(' </8 ' :1:C' ' ' ,')6.'D**2' ,)1;5),'D1,)' -1?' >-=,;-*' 620' -1?' =-1 62*' 6;^ ,)1-.'),)6,',)*' -.,' 6D10*.' 1' ?*2' 8*-*' >6+*.' 620' >/*,.' 2',)*'-1>9'),)*.*' 6D1;20',1'6' -*?6-96D/*' 0*^ 5-**' 2',)1.*' >1;2,-*.' 8)>)' 8*'9218',1')6+*' D**2' ,)*' *6-/*.,'=*1=/*0'620'., //.*-+*' 6.'1-0 26-'D;D,6C' ,1;.% ** ! 2' .;>>**0 25' 65*.',)*' 6D10*' 5*2*-6// ' 2',*2,.'6.',)*' -6D.'1',)*' 0*.*-;'01',1' ,) .'06 % ()*' 2+*2, 12'1',)*.*' .'6.>-D*0',1' B6D6/' ,)*' .1)'1' 6?*>)' 8)1'.',*-?*0',)*' 6,)*-'1'.;>)' 6.' 08*// 2',*2,.J' M4*2% +'K X' ,)1;)' -1?' >1?^ =6-25',) .'+*-.*' 8 ,)',)*' ,)' 8*' ?6 'D*'/*0',1'.;=^ =1.*',)6,' ?*2' / +*0' 2') 1;.*.' 1' .1?*' 9 20' D* 1-*' ,)*' /+*0' 2',*2,.% 7** O ! ()*' 6-,'1'?;/, =/ ^ 25' .,1-*.' 2' 6' D; /0 25' .'+*-' 62> *2,'6.' 8*' ?6 ' 56,)*-' -1?',)*' >12.,-;>, 12' 1' 16) .' 6-9' 620',)*' ,18*-'1' 6D*/% ()*')1;.*.' 2' 6D /12'6>>1-0 25',1' :*-101,;.'8*-*',)-**' 1-' 1;-'.,1-*.') 5) '620',)1.*' 2' ()*D*.'1-' 1.=1/.' 2' 5A=,' 1;-'1-' +* ,.1-*.% ()*' 6==*6-',1')6+*' D**2' /18' 2' 6/*., 2*' 2',)*' ,?*' 1' B1.),'6T' 62',;==*-' .,1- ' 6/,)1;5)' .' ?6 ')6+*' *L .,*0' .' 21,'?*2, 12*0',// 6' ?1-*' -*>*2,' 65*% ;>9 25)6?',.6,*.',)6,',)*')1;.*.' 6,' <1;.;/ 6-*' ?1.,/ '>12.,-;>,*0'1'.?6// ;2)*82' .,12*.I'>*?*2,*0' D '?1-,6-'620'=/6..*-*0'1+*-'8 ,)'?;0',)1;5)' .1?*' 6-*' D; /,' 1 'D;-2,' 620' ;2D;-2,' D- >9.%J' ;-' 1-0' 6//;0*.',1')1;.*.'D; /,'1'?;0'6,',)*' >/1.*'1') .'.*-^ ?12' 12',)*' ?122,'M<6,,'+ 'KS'K X' 8)>)' 8*-*' // >6/>;/6,*0',1'-*.. .',)*' * *>,.' 1',)*' ?=*,;1;.',1-^ -*2,.',)6,'0*.>*20*0'-1?',)*' ?1;2,6 2.'1' 6/*., 2*% 2' 20 6' 21,) 25' .' ?1-*' >1?7 12',)62' 1-',) *+*.' ' 0 5' 1-'D-*69',)-1;5)',)*.*' ?;0' 86//.' 8) /*',)*' ;2^ .;.=*>, 25' 2)6D ,62,.' 6-*' 6./**=' .1' 6.',1' =/;20*-' ,)*?% (1'. ?/6-'0*=-*06, 12.'1;-' 6+ 1;-'6==*6-.' ,1' =//;0*' 8)*2')*' *L)1-,.') .' 0 .> =/*.' 21,',1'/6 ';=' ,)0 .',-*6.;-*' 8)*-*',)*' +*+*.' D-*69',)-1;5)' 620% .*6/ M<6,,'+ ' R'K X' B1D' 6/.1'.**?.',1'-* *-',1',)*' .6?*' =-6>,>*' MLL + ' SX% 2',)*')1/*.' 1',)*' .*' 86//.' .*-^ =*2,.' .1?*, ?*.'>12>*6/',)*?.*/+*.'8)>)' .'6//;0*0' ,1'D',)*'=-1=)*,' ?1.'M+' RX% ,'6==*6-.'-1?' L10% ' ',)6,' 2' 5A=,'.,-68' 62> *2,/ ' *2,*-*0' 2,1' ,)*' >1?=1. , 12' 1'D- >9.T ,)*' 8*-*' 6' ?L,;-*' 1' >/6 ' ?;0'620'.,-68 7/5),/ 'D/*20*0'620'92*60*0',15*,)C 7 *-' 620' 6 ,*-86-0.' D69*0' 2',)*' .;2%)/1' 2').' $' .6 .',)6,',)*' ';.*0'.,-68',1'D 20',)*-

bricks. In the remains of Egyptian edifices, the straw still preserves its original color, and is a clear proof that they were never burnt in stacks or kilns. Dr. Richardson found near the ruins of Tentyra huts built of sun-dried brick made of straw and clay. See DWELLING.

God, it is said, "dwells in light," in respect to his independent possession of his own glorious attributes (1 Tim. vi, 16; 1 John i, 7). He dwells in heaven in respect to his more immediate presence there (Psa. cxxiii, 1). He dwells in his Church in the continued bestowal of his ordinances, and of his gracious supporting and comforting influences (Psa. ix, 11; 1 John iv, 12). Christ dwelt among men in his state of humiliation on earth (John i, 14). He dwells in our hearts by faith, he is united to us as our head; his righteousness is imputed to us, and applied to our consciences; his spirit and grace are fixed in our hearts; he loves and delights in us (Ephes. iii, 17–19). The Holy Spirit dwells in us, and sheds abroad his gracious influence (Rom. viii and ix; 1 Cor. iii, 16; 2 Tim. i, 14). The Word of God dwells in us richly, when it is carefully studied, firmly believed, and diligently practised (Psa. cxix, 11; Col. iii, 16). Wickedness, vengeance, or judgment is said to dwell in or upon a person or land when it long continues there (Job xi, 14; xviii, 15; Isa. xxxii, 16). See Wemyss, *Symbol. Dict.* s. v.

DWELL DEEP (הַעֲמִיקוּ לָשֶׁבֶת, *heëmí'ku la-she'beth, make deep for dwelling*; Sept. βαθύνατε ἑαυτοῖς εἰς κάθισιν, Vulg. *descendite in voraginem*), a phrase that occurs in Jer. xlix, 8, and seems to refer to the custom still common in the East of seeking retreat from danger in the recesses of rocks and caverns. When the wandering Arabs have drawn upon themselves the resentment of the more fixed inhabitants of those countries, and think themselves unable to stand against them, they withdraw into the depths of the great wilderness, where none can follow them. "Always on their guard against tyranny," says M. Savary, "on the least discontent that is given them, they pack up their tents, load their camels, ravage the flat country, and, loaded with plunder, plunge into the burning sands, whither none can pursue them, and where they alone can dwell." See ARABIA.

Dwelling (אֹהֶל, זְבוּל, מָגוּר, מוֹשָׁב, מִכוֹן, מָעוֹז, מִשְׁכָּן, מָעוֹן, etc.; κατοίκησις, etc.). The dwelling-houses of Palestine (see generally Harmer, i, 152 sq.; Faber, *Archæol.* i, 365; on Egyptian architecture, Rosellini, *Monum. civ.* ii, 378 sq.) were usually (Harmer, i, 165) built of burnt or merely dried bricks, לְבֵנִים, (Niebuhr, *Trav.* ii, 287; Pococke, *East*, ii, 173; Tavernier, *Trav.* i, 167, 287; Robinson, *Rex.* ii, 631–637; iii, 514, 589), and therefore very perishable (Matt. vii, 25; comp. Ezek. xii, 5, 7; xiii, 13 sq.; Tavernier, i, 287; Wellsted, i, 280); but frequently of stone (Lev. xiv, 40, 42; comp. Robinson's *Res.* iii, 316, 420, 496, 720), and palaces of squared stone (1 Kings vii, 9; Isa. ix, 9; Josephus, *Ant.* viii, 5, 2; compare Robinson, i, 354), or even of marble (שֵׁשׁ, שַׁיִשׁ, comp. 1 Chron. xxix, 2; Josephus, *Ant.* xv, 11, 3; *War*, v, 4, 4; of different building-stone, see the Mishna, *Baba bathra*, i, 1; the laying the foundation was an occasion of ceremony and festival, Zech. iv, 7; compare Ezra iii, 10; Job xxxviii, 7). These were held together by a cement (mortar, טִיט, Jer. xliii, 9; see Rosenmüller in loc.) of lime (סִיד, Isa. xxvii, 9) or plaster of Paris (gypsum, שַׂיד, Isa. xxxiii, 12; comp. Deut. xxvii, 4; Theoph. *Lapid.* 68 sq.), perhaps also bitumen (asphaltum, חֵמָר, compare Gen. xi, 3; Faber, i, 393 sq.). The exterior (and probably also the interior over the plaster) was usually whitewashed (חֶפֶל, κονία, Lev. xiv, 41 sq.; Ezek. xiii, 10 sq.; Dan. v, 5; Matt. xxiii, 27; Sirach, xxii, 17), bright wall-colors being used for royal residences (Jer. xxii, 14). The beams (2 Chron. xxxiv, 11; on בְּקָרִים, Hab. ii, 11, see Gesen. *Thesaur.* p. 705, and Delitzsch in loc.) were of sycomore (Isa. ix, 9), sometimes of olive-wood, sandal, or cedar (1 Kings vii, 2 sq.; Isa. ix, 9; Jer. xxii, 14). Elegant mansions were adorned externally with columns (of marble, Cant. v, 15; 1 Kings vii, 15 sq.; 2 Kings xxv, 13; Faber, *Archæol.* i, 414 sq.), and often whole porticoes (אוּלָם, στοά, 1 Kings vii, 6; comp. Josephus, *War*, iv, 4). See TEMPLE. The houses of the gentry (Niebuhr, *Trav.* ii, 293; Shaw, *Trav.* p. 182 sq.) were of several stories (1 Kings vii, 2 sq.; comp. Acts xx, 9; but see Korte, *Suppl.* p. 177), generally built in a quadrangle (comp. Kämpfer, *Amoen.* p. 194; Burckhardt, *Trav.* i, 120), and enclosing (Luke v, 19) a spacious court-yard (חָצֵר, 2 Sam. xvii, 18; Neh. viii, 16; comp. Esth. i, 5; v, 1; the *impluvium* or αὐλή, Matt. xxvi, 69; see Harmer, i, 177), which, surrounded by colonnades and galleries (Shaw, p. 353), paved (Harmer, i, 175), and containing fountains (2 Sam. vii, 18; comp. Joseph. *Ant.* xii, 4, 11; Harmer, i, 175), baths (2 Sam. xi, 2), and trees (Harmer, i, 175), formed the guest-chamber or drawing-room for the reception of visitors (Shaw, *Trav.* p. 183; Faber, i, 401; Harmer, i, 174; comp. Esth. i, 5 sq.), being often screened from the sun's rays by an awning (Rosenmüller, *Morg.* iii, 297). The flat roof, covered on the top with tiles, earth, or stone, and surrounded by a low parapet, was used sometimes for household or religious purposes, at others as a place of meeting or recreation. See ROOF. In connection with it (2 Kings xxiii, 12) was an upper room (עֲלִיָּה, ὑπερῷον), which was used (comp. Niebuhr, *Trav.* i, 380, 400; Shaw, p. 188 sq.) as a private chamber (2 Sam. xviii, 33; Dan. vi, 11; Judith viii, 5); also as a spare bedroom (2 Kings xxiii, 12; Tobit iii, 12; Acts i, 13; xx, 8), a sleeping apartment especially for guests (2 Kings iv, 10), and as a sick-chamber (1 Kings xvii, 19; Joseph. *Ant.* xviii, 8, 2), or room for laying out a corpse (Acts ix, 37, 39), but in summer resorted to for fresh air (Judg. iii, 20); and was often furnished with two modes of exit, one leading within the house, the other by a staircase directly to the street. Larger residences had an additional front court (חָצֵר, προαύλιον, πρόδυρον, πυλών, αὐλή; Jer. xxxii, 2; Mark xiv, 88; Luke xvi, 20; John xviii, 16; Acts x, 17, etc.), which served as an anteroom (so the Rabbins understand מְתָרִין, Judg. iii, 23;



Model of a small Ancient Egyptian House (now in the British Museum), showing the interior Court and upper Chamber.

A modern Persian Mansion.

see Faber, p. 440), and from which, by means of stairs (מַדְרֵגָה, 2 Chron. ix, 11; a winding staircase, לוּל, 1 Kings vi, 8), often finished with costly wood (2 Chron. ix, 11), persons passed to the roof or upper story. A door led from the fore-court to the inner court, and from the latter was the entrance to the rooms on the ground floor of the house proper. These last were variously decorated with wainscoting (1 Kings vii, 7; Jer. xxii, 14; Hag. i, 4), ivory (1 Kings xxii, 39; Am. iii, 15; compare Psa. xlv, 9; Homer, *Odyss.* iv, 72 sq.; Horace, *Od.* ii, 18, 1 sq.; Pliny, xxxvi, 5; Harmer, i, 168 sq.; ii, 171 sq.; Faber, p. 399 sq.; also with precious metals inlaid or plated, Tibull. iii, 3, 16; Horace, *Od.* ii, 18, 1 sq.; Cicero, *Parad.* vi, 3; comp. 1 Cor. iii, 12), and carving (Josephus, *Ant.* viii, 5, 2; comp. Tavern. i, 168), since the splendor of Oriental houses was lavished rather upon the interior than the exterior (Pococke, *East.* i, 49); the floor was laid sometimes with a coating of gypsum, at others with tesselated blocks of variegated marble (Tibull. iii, 3, 16; Cicero, *Parad.* vi, 3) or other kinds of stone (Harmer, i, 172 sq.; compare Esther i, 6). The doors (Deut. vi, 9), seldom high in private houses (Prov. xvii, 19), sometimes of stone (Burckhardt, i, 122), swung (comp. Shaw, *Trav.* p. 185) on morticed pivots (צִיר, Prov. xxvi, 14; in sockets, פְּתוּחֹת, 1 Kings vii, 50; comp. *cardo fenuria*, Vitruv. ix, 6), and were commonly fastened with wooden bolts (בְּרִיחַ, מַנְעוּל), which were opened (Judg. iii, 25; Isa. xxii, 22; comp. Harmer, i, 188) by means of a key (מַפְתֵּחַ), but only from the inside (Cant. v, 5; Luke xii, 7; comp. Faber, p. 427). In the better class of houses there was a door-keeper (Joseph. *Ant.* xvii, 5, 2) or female porter (John xviii, 16 sq.; Acts xii, 13; comp. Plaut. *Curcul.* i, 1, 76; Sept. 2 Sam. iv, 6), who, in case any one knocked outside (Luke xii, 36; xiii, 25; Acts xii, 13; compare Matt. vii, 7; Rev. iii, 20; Thilo, *Apocryph.* p. 218; see Becker, *Charicles*, i, 230), and gave their name (Acts xii, 14; Rev. iii, 20; comp. Plutarch, *Gen. Soc.* p. 31; Lucian, *bis. Accus.* p. 29; Apul. *Asin.* i, p. 19 Bip.), opened the door to them (Acts, xii, 13; comp. Athen. xiv, 614). (See Stuck, *Antiq. conviv.* p. 249; Sagittar, *De januis vett.* Jen. 1694, ch. 16; also Elsner, *Observ.* i, 411 sq., in Graevii *Thesaur.* vi.) Princes, however, had guards at the palace gates (1 Kings xiv, 27). The windows (חַלּוֹן), on account of the street dust, generally face the court-yard (Schubert, iii, 291), although anciently this rule does not appear to have so extensively prevailed (Judg. v, 28; Prov. vii, 6); they were closed by a lattice (Judg. v, 28). The most interior, or back rooms of all, were devoted to the special occupancy of the female members of the household, as is still universally the case in the East, under the name "harem," and no male dares intrude within their precincts (Chardin, vi, 6 sq.; Hartmann, *Hebr.* ii, 289 sq.; Hoffmann in the *Hall. Encyclop.* ii, 1, p. 396 sq.). The more distinguished Hebrews early had separate summer and winter residences (בֵּית חֹרֶף and בֵּית הַחֹרֶף, Amos iii, 15; Jer. xxxvi, 22; comp. Judg. iii, 20; see Harmer, i, 200; Prosp. Alp. *Med. Ægypt.* i, 6; Niebuhr, *Trav.* ii, 394). The latter were warmed (of which they had the more need, as glass windows are unknown in the East) by means of a fire-pot (אָח, Jer. xxxvi, 32), which is merely a vessel of burnt clay (Niebuhr, *Beschr.* p. 56) placed in a round hole in the middle of the room, over which, when the fire is burnt down, the inmates place a four-cornered frame, and next a carpet over this, and then gather around to enjoy the warmth (Tavernier, i, 276; Niebuhr, *Trav.* i, 154; ii, 394). The furniture of the rooms (2 Kings iv, 10) consisted of a sofa or couch (מִטָּה, compare Ezek. xxiii, 41; עֶרֶשׂ, Amos vi, 4; compare Josephus, *Ant.* xv, 9, 3), which luxury was often adorned gorgeously (Amos vi, 4; Cant. vii, 16), and furnished with pillows (Ezek. xiii, 10); and besides this, only chairs (כִּסֵּא), a table (שֻׁלְחָן), and lanterns or lamp-stands (2 Kings iv, 10). See all the above parts and articles in their alphabetical order. Compare House.

The *house-leprosy* described in Lev. xiv, 33–57 was

6' >1--1. 12' 1 ',) *' .6/,=*,-*' 1;20' 2',)1'/ ?*' ;.*0'6.' '.*-+ >* ')*' 86.' >6//*0')1?*' D ',)*' 2*8.' 1 ') g' 6,)*-. 0*6,)' 2' Q',1',69*' >6-*' 1 ') .' ?1,)*-' 620',)*' 6?^ ?1-,6-' 620',)*' / ?*.,12*' ;.*0' 1-' D; /0 A5' M.**' < C' / 'D* 25',)*' */0*.,' >) /0' 1 ',) -,**2%' */ 2_; .) 25' >)6*/ .' !'D " ' +' KS ' . %T < .D26' O 1'L X') .' =6-,' 1 ',)*' 6? / '=-1=*-, ')*' ,6;5),' .>)11/ 620' 620' .' ., // >1? ?12' 2'%86//.' 2' 5X =,'M ;/2* ' - =-*6>)*0' 1-') .'182' 6? / .' .;==1-,%' 1') 5)/ '86.' ' X% ' & 2*-' ' S% **' =21. %)*',)1;5),'1'D ') .' *//18C>, [*2.',)6,',)* ' >6//*0') ?' 2,1'=;D/ >'/ *' .1/ >,*0') ?',1'5 +*') ?.*/ '=*-^ 8 5/ , ' : 1/0*2 '6' ? 2 .,*-' 1',)*' <*,)10 .' ?62*2,/ ',1'=1/ , >. '620'=-1? .*0',1'.*>;-*' 1-') ?'6' = .>1=6/');->) '86.' D1-2' 2' ()1?=.12' 122% =/6>*' 2',)*' 12, 2*2,6/ 125-*..% ;,') *'=-* *--*0' ;5% KQ Q '86.' >12+*-,*0' 2' QKQ' .,;0 *0' 2' ;0^ ,1'=-*6>)',)*' 41.=*/'620'6 ,*-' .*+*-6/ /6,,*- 25'>6//.' /* ' >60*? ' <6..% 2',)1' &*./* 62' >60*? '6, 8)>)')*' 0*>/ 2*0'6>>*=,*0' 12*' -1?',)*' =6-.)' 1' & /D-6/ 6? '620'5-60;6,*0' 2',)*' & *./* 62' $2 +*-. ^ 4-**2 */0' 2' 122*>, >;,' ,1' D*>1?*',)* -' =6.,1-% , '7,' < 00/*,182' 2' Q1 % ,*-',) .')*',6;5),' 2' : .*-*')*' .=*2',.8 */+*' *6-.7 -1?' 1+*?D*-' QN' 12^ 6>60*? *.' 1 %,)*% 1;,)'620' 2' 1; . 626' 1//*5*' 620' 86-O% .') .' .6/6- ' 86.' 260*_;6,*',1',)*' *L=*2..*.' 86.' .1?*', ?*' 65*2,' 1-' <6>12' *?6/*' 1//*5*' 46% 8)>)') .' 6? / '620') .')1.= ,6/ , '1D/ 5*0') ?' 2^ ' ;2, /' Q '8)*2')*'-*?1+*0',1' 1-86/9' %'620' 86.' >;-')*'*..6D/ .)*0'62'6>60*? ',)*'1+*-. 5),'1'8)>)' =- 2> =6/ 1',)*'.*? 26- ',)*-*'620'1',)*' 6/08 2')*',119';=12') ?.*/ '8)>)' 867 0 ., 25; .)*0' 1 1',)*' 2., ;,*' 6,' *-*6', //') .' 0*6,)' 2' Q % <-% 8 5), 60+62>*0'620',)1-1;5)',-6 2 25'1 ',.' .>)1/6-.'620' 2' 86.' 6' ?62' Z1' .,-125' ? 20' 620' 5*2*-1;.' **/ 25' ', 8)>)' ;=86-0.' 1 '6',)1;.620' 1;25'=*-.12.' 1 'D1,)' ,)1-1;5)' >/6.. >6/' 620' 5*2*-6/ .>)1/6-'620'62'*? ^ .*L*.' >6?*' ;20*-') .' 2.,-;>,12% : .'-*=;,6, 12'6.' 2*2,/ ' .;>>*.. ;/ ,*6>)*-% .'6'=-*6>)*-')*'86.'0 5^ 62' 2.,-;>,1-'620'6.'6'=-*6>)*-'/*0',)*'>1-=1-6, 12'1' 2 *0' 1-> D/*' 620' >12+ 2> 25!T ' ' 9 6/*' 1//*5*' 2' R '/1'*/*>,') ?',1',)*'=-*. 0*2> '1' ' +' SR% ,)6,' 2., ,;, 12' 8)>)')60'/6,*/ ' D*>1?*' +6>62,' ' 8 5), ' , '6' 125-*56, 126/' ? 2 .,*-' 86.' ,)*'0*6,)'1' -*. 0*2,' ,/*.% D1-2'6,' ,1>9D- 05*' <6..%' <6>)'K ' RN' 620'5-60^ ,' 86.' 0;- 25') .' -*. 0*2>*' 6,' 4-**2 */0',)6,')6' ;6,*0'6,' 6/*' 1//*5*' 2' Q N% : *' .,;0 *0',)*1/15 ' ,81'=1*?.'12*'12',)*' ' 12_;*.,'1' 62662J'D 'B1.)^ 6,' 201+*-'D;,' *6- 25',)6,') .' **D/*')*6/,)'81;/0' ;6'62'*=>'2'-) ?*',)*'1',)*'+*-.12.'1'')*' ;2 ,') ?' 1-',)*' =6.,1-6,*') *' 6>>*=,*0' 2' Q R' 62' 4-**2 */0' 65*2> ' 1',) ' ?*- >62' (-6>,' 1> *, % 2' QKN')* : //'J'620'0*.>*- D 25',)*'.>*2*-A7'620',)*'*+*2,.'1',)*' D*>6?*' 65*2,'1',)*' ?*- >62' 0;>6, 12' 1> *, % 27'2* 5)D1- 25'>1;2,- '8*-*'5 +*2',1',)*' 81-/0% 'D*.* QK ') .') *6/,)' 6 / 25'.*- 1;./ ')*' ;20*-,119'6'/125' =1*, >6/' 81-9.' 8)>)' 6-*' 21,' 8 ,)1;,' 5/18' 620' / -*' A1;-2* '12') 1-.*D6>9'620'>1?2*0'8 ,)',) .'=;-.;,' ;6-*' 218' 1-51,,*2' D;,' .1?*' 1',)*' +*-. 12.' 1' ')*' 1') *6/,)' 6' ? .. 12' 1 C?*-> ' 2' .;==/ 25' D/*.',1' .6/?.'8 ,)') ?2.' 622*L*0' =;D/ .)*0' D '0 -*>, 12' % ' 2',)*' +6- 1;.' A6 /.% : *' + .,*0' 1-',) .' 1',)*' 4*2*-6/ ..1> 6, 12' 1',)*' ..6,*' 2' Q ')6+*' =;-=1.*',)*'=- .12.'1' *8' 1-9') /60*/=) 6' 6/, ^ ,)*' .*+*-6/=-1 *.. 126/>)6+ 1-% ;*') ?.*/'=-*6>)^ ?1-*'&6.) 25,12'620'6.'6-'1-;,)'6.' 1;,)' .'=;-.;' 1 ' *0' 620' 8 ,)' +*- ' 5-*6,' 6>>*=,6)**' 2' ,)*' >1//*5*' 1 '?62' 6' - *20',1',)1'=- .12*-' 6' -* 1-?*-' 1 '=- .' >)6=*/')1' 2.,-;>,*0' 2' ?1-6/.' ?*2,6/=) /1.1=) ' 12.T 6'=-*6>)*-' 1',)1' 41.=*/%J ' =-65;*' & ' ' % 26,;-6/',)*1/15 '620',/8* *+ 0*2>*.' 1'-*+*/6, 12' 620' 8 5), ' 6-*' 5 1;.' 2,*-*.,.' 1',)*' .;>0*2,.' 1;20' 2') ?' 6' 70 -*>,1-'620'6' 5; 0*% 112' 6 ,*-')*' >6?*' ,1' !6/* 8 5), ' *-*21' 0 8 6-0 . ' % %' 62' *? 2*2,' 125-*56, 126/' ? 2 .,*-' 86.' D1?'6,'4-**2 */0' 122% 1//*5*' 2' Q N' 620' 2' Q S' 86.' >D1.*2',;,1-' 2' 8)>)'=1.,')*' >12^ <6 ' N Q % :*' 5-60;6,*0'6,' 6/*' 1//*5*' 2' Q N' ,2;*0';2,/ Q '8)*2')6+ 25' >1?=/*,*0') .' /68' 620' 2' Q S' 86.' >D1.*2',;,1-' 2' 8)>)'=1.,')*' >12^ .,;0 *.')*' *2,*-*0';=12'=-6>, >*' 6,',)*' D6-% :*' *2^ ,*-*0',)*' ? 2 .,-' 2' >,1D*-' Q S' 620' 86.' */*>,*0' >)6=/6 2' 1',)*' $2,*0' ,6,*.' *26,*% 2' *=,% N' Q ')*' 86.' 2.,6//*0'=6.,1-' 1' 6-9C.,-**,') ;->)' 1.,12'8)*-*')*'-*?6 2*0';2, /') .'-*. 526, 12' =- / 620'6' /,12' 1//*5*' 620'*2,*-*0',1',)*' =-*. 0*2> ' QKS% 2' QNN)*' 86.' */*>,*0',1',)*' =-*. 0*2> ' ;5;,'620'-*. 52*0' 2' QN % 2' QNQ)*' ?1+*0',1' 1' ?62' 1//*5*' 620'*2,*-*0';=12',)' 1 >*' 2' *8' 1-9% :*' 0*0' 2') /60*/=) 6' 1+% N ' Q % 8 5),' =;D/ .)*0' ' ' ' ; -% 8 5), ' (?1,) ' % %' % %' 5-620.12' 1' M Q K K X ' '&' ' '"' ?' +' 'M QK Xa' ' B126,)62' 086-0.',)*' */0*-' 86.' D1--,' $,' 1-,)6?=^ -" ' ' "' ' " S " ' $ ' ' '$ ' ,12' <6..%' <6' K' 620' 86.' 5-60;6,*0' 6,' 6/*' ' ' + += ' " "' M QKSX' ST -" ' ' ' 1//*5*' 6,' 6'+*-'*6-/ '65*' 2' SR% (8177*6-.' 6 ,*-' 6 1' 6>>1?=62 25' 6' 2*8' *0 , 12' 1') .' 5-60;6, 12')*' 86.' */*>,*0' 6', ;,1-' 2') .' >1//*5*' 086-0.' 81-9.' M QN Xa' ' -" ' # ' ' M 7SXT' 620' 6' *8' 1>>6. 126/' .*-?12.% .' 0 .>1;-.*.' 8*-*' =;D/ .)*0' 2' 6' +1/;?*' 8 ,)' ?*?1-' 2' Q 'D ' & %(% 8 5),% ' =-65;*' ' ' 4K=% 7 6' >1--1. 12' 1 ',)*' .6/,=*,-*' 1;20' 2',)1'/?*' ;.*0'6.' '.*-+ >* ')*' 86.' >6//*0')1?*' D ',)*' 2*8.' 1 ') g' 6,)*-. ?1-,6-' 620',)*' / ?*.,12*' ;.*0' 1-' D; /0 A5' M.**' < C' 0*6,)' 2' Q',1',69*' >6-*' 1 ') .' ?1,)*-' 620',)*' 6?^ >)6*/ .' !'D " ' +' KS ' . %T < .D26' O 1'L X' / 'D* 25',)*' */0*.,' >) /0' 1 ',) -,**2%' */ 2_; .) 25' 620' .' ., // >1? ?12' 2'%86//.' 2' 5X =,'M ;/2* ' - =-*6>)*0' 1-') .'182' 6? / .' .;==1-,%' 1') 5)/ '86.' ' X% ' & 2*-' ' S% **' =21. %)*',)1;5),'1'D ') .' *//18C>, [*2.',)6,',)* ' >6//*0' 8 5/ , ' : 1/0*2 '6' ? 2 .,*-' 1',)*' <*,)10 .') ?' 2,1'=;D/ >'/ *' .1/ >,*0') ?',1'5 +*') ?.*/'=*-^ = .>1=6/');->) '86.' D1-2' 2' ()1?=.12' 122% ?62*2,/ ',1'=1/ , >. '620'=-1? .*0',1'.*>;-*' 1-') ?'6' ;5% KQ Q '86.' >12+*-,*0' 2' QKQ' .,;0 *0' 2' ;0^ =/6>*' 2',)*' 12, 2*2,6/ 125-*..% ;,') *'=-* *--*0' /* ' >60*? ' <6..% 2',)1' & *./* 62' >60*? ' 6, ,1'=-*6>)',)*' 41.=*/'620'6 ,*-' .*+*-6/ /6,,*- 25'>6//.' & /D-6/ 6? '620'5-60;6,*0' 2',)*' & *./* 62' $2 +*-. ^ 8)>)')*' 0*>/ 2*0'6>>*=,*0' 12*' -1?',)*' =6-.)' 1' , ' 7,' < 00/*,182' 2' Q1 % ,*-',) .')*',6;5),' 2' 4-**2 */0' 2' 122*>, >;,' ,1' D*>1?*',)* -' =6.,1-% 6>60*? *.' 1 %,)*% 1;,)'620' 2' 1; . 626' 1//*5*' 620' : *-*')*' .=*2',.8 */+*' *6-.7 -1?' 1+*?D*-' QN' 12^ 86-O% .') .' .6/6- ' 86.' 260*_;6,*',1',)*' *L=*2..*.' ;2, /' Q '8)*2')*'-*?1+*0',1' 1-86/9' %'620' 86.' 8)>)') .' 6? / '620') .')1.= ,6/ , '1D/ 5*0') ?' 2^ =- 2> =6/ 1',)*'.*? 26- ',)*-*'620'1',)*' 6/08 2' ;>;-')*'*..6D/ .)*0'62'6>60*? ',)*'1+*-. 5),'1'8)>)' 2., ,;, *' 6,' *-*6', //') .' 0*6,)' 2' Q % <-% 8 5), 60+62>*0'620',)1-1;5)',-6 2 25'1 ',.' .>)1/6-.'620' 86.' 6' ?62' Z1' .,-125' ? 20' 620' 5*2*-1;.' **/ 25' ', 8)>)';=86-0.' 1 '6',)1;.620' 1;25'=*-.12.' 1 'D1,)' ,)1-1;5)' >/6.. >6/' 620' 5*2*-6/ .>)1/6-'620'62'*? ^ .*L*.' >6?*' ;20*-') .' 2.,-;>,12% : .'-*=;,6, 12'6.' 2*2,/ ' .;>>*.. ;/ ,*6>)*-% .'6'=-*6>)*-')*'86.'0 5^ 62' 2.,-;>,1-'620'6.'6'=-*6>)*-'/*0',)*'>1-=1-6, 12'1' 2 *0' 1-> D/*' 620' >12+ 2> 25!T ' ' 9 6/*' 1//*5*' 2' R '/1'*/*>,') ?',1',)*'=-*. 0*2> '1' ' +' SR% ,)6,' 2., ,;, 12' 8)>)')60'/6,*/ ' D*>1?*' +6>62,' ' 8 5), ' , '6' 125-*56, 126/' ? 2 .,*-' 86.' D1-2'6,' ,1>9D- 05*' <6..%' <6>)'K ' RN' 620'5-60^ ,' 86.' 0;- 25') .' -*. 0*2>*' 6,' 4-**2 */0',)6,')6' ;6,*0'6,' 6/*' 1//*5*' 2' Q N% : *' .,;0 *0',)*1/15 ' ,81'=1*?.'12*'12',)*' ' 12_;*.,'1' 62662J'D 'B1.)^ 6,' 201+*-'D;,' *6- 25',)6,') .' **D/*')*6/,)'81;/0' ;6'62'*=>'2'-) ?*',)*'1',)*'+*-.12.'1'')*' ;2 ,') ?' 1-',)*' =6.,1-6,*') *' 6>>*=,*0' 2' Q R' 62' 4-**2 */0' 65*2> ' 1',) ' ?*- >62' (-6>,' 1> *, % 2' QKN')* : //'J'620'0*.>*- D 25',)*'.>*2*-A7'620',)*'*+*2,.'1',)*' D*>6?*' 65*2,'1',)*' ?*- >62' 0;>6, 12' 1> *, % 27'2* 5)D1- 25'>1;2,- '8*-*'5 +*2',1',)*' 81-/0% 'D*.* QK ') .') *6/,)' 6 / 25'.*- 1;./ ')*' ;20*-,119'6'/125' =1*, >6/' 81-9.' 8)>)' 6-*' 21,' 8 ,)1;,' 5/18' 620' / -*' A1;-2* '12') 1-.*D6>9'620'>1?2*0'8 ,)',) .'=;-.;' 1 ' *0' 620' 8 ,)' +*- ' 5-*6,' 6>>*=,6)**' 2' ,)*' >1//*5*' 1 '?62' 6' - *20',1',)1'=- .12*-' 6' -* 1-?*-' 1 '=- .' >)6=*/')1' 2.,-;>,*0' 2' ?1-6/.' ?*2,6/=) /1.1=) ' 12.T 6'=-*6>)*-' 1',)1' 41.=*/%J ' =-65;*' & ' ' % 26,;-6/',)*1/15 '620',/8* *+ 0*2>*.' 1'-*+*/6, 12' 620' 8 5), ' 6-*' 5 1;.' 2,*-*.,.' 1',)*' .;>0*2,.' 1;20' 2') ?' 6' 70 -*>,1-'620'6' 5; 0*% 112' 6 ,*-')*' >6?*' ,1' !6/* 1//*5*')*' 1;20',)6,' ?62' ..;0*2,.' 8*-*',6 2,*0' 8 ,)' 2 0*/, % :*' 86.' 6?125',)*' -.,' 620' 12*' 1' ,)*'+*- '6D/*.,' 0* *20*-.' 1',)*')- ., 62' 6 ,)' 2',) .' >1;2,-AW 620' D ') .' =-*6>) 25' 6.' D ') .' .*-?12.' 12' ()*' 26,;-*' 620' 0625*-' 1' 2 0*/ =) /1.1=) J'=;D^ /.)*0' 6,',)*', ?*')*' ?6 'D*' 6 -/ '.6 0',1')6+*' 0- +*2' 2 0*/, ' -1?',)*' >1//*5*' 2',)*' 8)1/*') .' 60? 2^ .,-6, 12' 1',)*' >1//*5*' 86.' 6'+*- '.;>>*.. ;/ 12*% (1') ?%?1-*',)62',1' 62 '1,)*-' ?62' 6/*' 1//*5*' .' 2^ 0*D,*0' 1-',.') 5)/ ' -*.=*>,6D/*' =1. , 12' 6?125',)*' .*6,.' 1 '/*6-2 25' 2',) .'>1;2,7T7 -*. 0*2,' 8 5), .' 0*6,)'M Q X'8)*2')*' 86.' 21,' ;,*'. L, C +*' 86.'1>>6. 12*0'D '6'>62>*-' 2',)*' 2*>9' 1',)*' D/600*-% :*')60'6'>1?? 620 25'=*-.12 '6' 21D/*' +1>*' 5-*6,' =6,)1.' 62' 6-0*2,' ,*?=*-' 5-620 6,*0' 2' *L>*//*2,' A;05?*2,'620'. 2>*-*'=*, %' : .'>12+*-.6, 126/=18^ *-.' 8*-*'1',)*')5)*.,'1-0*-% : .'., /*' 2') .'*L,*?^ =1-*' 600-*..*.'620' 2') .' 8-.,,*'2 0 .>1;-.*.' 86.' *-+ 0' 620' */1_;*2,'D;,' .1?*8)6,',11' -)*,1- >6/% :*' *2^ ,*-*0' 8,)' 5-*6,' 2,*-*.,' 2,1',)*' =1/ , >.' 1',)*' 06 6.'62'60)*-*2,'1',)*' =- 2> =/*.'1'& 6.) 25,12'620'1' ,<D *0*-6/ =6-, % : .',)*1/15 ' 86.' 6/+ 2 .?' .' ?10 *0' D',)*',81' 086-0.*.') .' 5-620 6,)*-' 62' ;2>/*% 2') .' 1;.,)')*'=-*6>)*0' ,'8 ,)' 86-?,)'D;,' 6.') *' 60+62>*0' 2' 7*6-.') *' /6 0' / ,,/*' .,-*..' 12' 62' 01>,- 2*.' *L>*=*,',)1.*' 2' 8)>)'6// *+625*/ >6/')- .^ ,62.' 8*-*' 65-**0% : .'/ *' 86.' ;// 1'6>,.' 1')1.= ^ ,6/, ' 620' D*2*+1/*2>*' 620' D .' . ?=6,) *' 8*-*' 1' ,)*',*20*-*.,'.1-,% :-25'6'5-*6,'=6-,'1')./ *')

eyes were too weak to be used, and his works were principally written by an amanuensis. His principal works published under his name, besides those which have been already mentioned, were *Theology explained and defended* (Middletown, Conn., 1818, 5 vols.; and in a multitude of editions afterwards in 4 vols., both in the United States and in England):—*Travels in New England and New York* (New Haven, 1821, 4 vols., which contained the record of journeys on horseback undertaken for his health during vacations), and *Sermons* of an occasional character (New Haven, 1828). See *Life* prefixed to his *Theology*, and Dr. Sprague's life of him in Sparks's *American Biography*, vol. xiv, or new series, vol. iv.

Dwight, William T., D.D., a Congregationalist minister, was a son of President Dwight, and was born at Greenfield Hill, Conn., in 1795. He graduated at Yale College in 1813, and was distinguished for his scholarship in a class of many able scholars. From 1817 to 1819 he was a tutor in the college, and then removed to Philadelphia, where he practiced law until 1831. In that year he was awakened under a lecture of Dr. Skinner, and, abandoning the law, he was licensed by the Third Presbytery of New York, and accepted a call to the Third Church in Portland, Maine. His ministry of above thirty years was eminently successful. He was an overseer of Bowdoin College and president of the Maine Missionary Society. In 1852 he was president of the Albany Convention of Congregational churches. "As a preacher he is entitled to a foremost rank among American divines for sound and varied learning, clear and polished diction, graceful and effective delivery, and eminent success." He died at Andover Oct. 22, 1865. He published a *Life of Sereno E. Dwight, with a Selection from his Discourses* (1851).

Dye (אֹדֶם, *adam'*, in the phrase "rams' skins *dyed red*," Exod. xxv, xxvi, xxxv, etc., *to be "ruddy,"* Lam. iv, 7, or "*red*," Nah. ii, 3; Isa. i, 8; Prov. xxiii, 31; חָמֻץ, *chamets'*, *brilliant* in color as wine-stained garments, Isa. lxiii, 1). The art of dyeing is undoubtedly of great antiquity, and is, perhaps, nearly coeval with that of weaving. The Egyptians particularly excelled in the brilliancy of their dyed stuffs; and from them the Hebrews, while dwelling among them, learned the art of dyeing. This is evident from the curtains of the tabernacle and the sacerdotal robes which were manufactured in the desert (Exod. xxvi, 1; xxviii, 5–8). The skill of the Egyptian linen-manufacturers in employing the metallic oxides and acids, or mordants, is placed beyond dispute by ocular proof. The various processes of dyeing and printing, or imparting the pattern, by blocks (the origin of calico printing), are exhibited in Rossellini's plates in all their minute details; and even the printing-blocks engraved with phonetic letters, and with the dye upon them, may be seen in the British Museum. Pliny's testimony is interesting as illustrating, though not wanted to corroborate the fact. "They dye cloth," he says, "in an extraordinary manner. It appears quite white before it is dipped; they then imbue it with drugs (mordants), which do not alter its appearance, but which absorb and retain a new and permanent color, varied according to the application of the drug." This is the modern process. Experimental investigation and chemical analysis have shown demonstratively that in the dyes which the linen and cotton manufacturers employed to produce certain results of which the relics are extant, they must have employed acetates of alum and of iron, and vegetable and mineral dyes, both substantive and adjective, as they are termed by the modern dyers. It is as easy as invidious to ascribe these applications to accident rather than to chemistry. Evidences drawn from all the other arts and trades prove that the Egyptians were good chemists. The long stripes of linen which the Hebrews worked in the desert for the tabernacle were separately blue, scarlet, and white (Exod. xxvi, 1). The last was probably the effect of bleaching; but the whole of the colors and cloth so dyed have been found, as well as the yellow, to evince chemical knowledge. It appears that the linen-printers and dyers used the *carthamus tinctorius*, which grows in Egypt, for red, woad for blue, and the *reseda luteola*, also a native of Egypt, for yellow. Now none of these operations could have been effected without a practical chemical knowledge. The system of bleaching now practised in this country, but recently introduced, has been used from time immemorial in the East, and doubtless, therefore, in ancient Egypt, viz. by immersion in oxygenated muriate of lime, after subjection to the action of steam or boiling water. The three other colors, blue, red, and yellow, are adjective colors, i. e. fugitive without the use of mordants. They could not be fixed, as we find them fixed, without their proper mordants, namely, oxides of tin, arsenic, and iron. Occasionally the muslin, beautifully dyed and patterned, was interwoven with silver and gold thread, some specimens of which can be traced up to the early period of Thothmes I, and even of Osirtasen. Indeed, the richly-painted walls and palaces, as well as the unmatched gilding, as fresh as when first laid on, show a perfect familiarity among the ancient Egyptians, not with mineral and vegetable colors only, but the perfect use of the metallic oxides in their composition.

The colors of the Egyptians were principally blue, red, green, black, yellow, and white. The red was an earthy bole; the yellow an iron ochre; the green was a mixture of a little ochre with a pulverulent glass, made by vitrefying the oxides of copper and iron with sand and soda; the blue was a glass of like composition with the ochreous addition; the black was bone or ivory black, and the white was a very pure chalk. They were mixed with water, and apparently a little gum, to render them tenacious and adhesive. With the Egyptians, the favorite combination of color was red, blue, and green; when black was introduced, yellow was added to harmonize with it; and in like manner they sought for every hue its congenial companion. They also guarded against the false effect of two colors in juxtaposition, as of red and blue, by placing between them a narrow line of white or yellow. They had few mixed colors, though purple, pink, orange, and brown are met with, and frequently on papyri. The blue, which is very brilliant, consists of fine particles of blue glass, and may be considered equivalent to our smalt; it seems to be the same that Vitruvius describes, which he supposes to have been first made at Alexandria; and it also agrees with the artificial *kyanus* of Theophrastus, invented in Egypt, which he says was laid on thicker than the native (or lapis lazuli). The thickness of the blue on the ceilings in Belzoni's tomb confirms his remark. The green is also a glass in powder, mixed with particles of colorless glass, to which it owes its brightness (Wilkinson, *Anc. Eg.*, abridgm., ii, 292).

The following statements are from Winer, i, 362. There are many kinds of hues, both natural and artificial, mentioned in the Bible as fashionable or known among the Hebrews; besides white (לָבָן) and black (חָרַם or שָׁחֹר), there were: 1, principally *red* (אֹדֶם, brownish-red), *crimson* (תּוֹלַעַת שָׁנִי, תּוֹלַעַת כַּרְמִיל), *purple* or violet-red (אַרְגָּמָן), *orange* or vermilion (שָׁשִׁי); 2, next *green* (יָרָק); 3, pale *yellow* (יְרַקְרַק); 4, *azure* or hyacinthine (purplish) blue (תְּכֵלֶת); 5, *brown* or [illegible] ored (שָׁרֹק). Many of these are no doubt properly, or at least originally, the designation of the coloring materials. See CRIMSON; VERMILION; PURPLE. It is evident that each of these principal colors had a special significance among the Israelites, according to which it would be selected whenever there was an op-

, 12† 620‘ ,‘ >1;/0‘ 21,‘ D ; ,‘ D*‘ ,) 6,‘ .1?*‘ >1/1-.‘ 81;/0‘ D*‘ =-* *--*0‘ ,1‘ 1,)*-. ‘ *‘ 5‘ 8) ,*‘ 56-?*2,..‘ 6.‘ ,)*‘ >/1,) 25‘ 1 ‘ ,) *‘ -*.=*>,6D/*‘ M6.‘ 6?125‘ ; .‘ D/6>9‘ .‘ ,) *‘ >/*- >6/ >1/1-X‘ D ; ,‘ 0 52 ,6- *.‘ 8*-*‘ 6--6 *0‘ 2‘ = ; -=/*‘ MB ; 05‘ + ‘KS† .,)‘ + ‘ † 62‘ + ‘ S‘KR† >1?=‘ 62, ‘ + ‘ SX‘ 8) >)‘) ; *`86.‘ =-1D6D/ ‘ .1‘ 6==-1=- 6,*0I‘ 12‘ 6>>1 ; 2,‘ 1 ‘ ,..‘ >1../ 2*..‘ M>1?=‘ ,) *‘ = ; -=/*‘ .6 /.‘ 1 ‘ ,) *‘ (6 ; ‘ .) =. ‘ [*9‘ LL+ ‘ ‘ **‘ 2‘ - 5) , ‘ 06[[/ 25‘ >1/1-.‘ ; -,) *-‘ 20 >6,*0 ‘ 6. 2 5/X,‘ 26, ; -6// ‘ D*‘ . ; ==1.*0 ‘) /6- , ‘620‘ A1 ‘MK‘ 6?‘ ‘ K † >1?=‘ B*-‘ +‘ N X‘ 8) /*‘ 06-9‘ MD/6>9X‘ 620‘ 0 ; //) ; *.‘ 8*-*‘ *L=-*.. +*‘ 1 ‘5- * ‘620‘ 0*A*>, 12‘ M < 6 ‘ ‘ ‘ U*>)‘ + ‘ K‘ ‘ >1?=‘ / ; ,6->) ‘ ‘ !‘ NQ† < .)C‘ 26 ‘ 2 1‘ + ‘ N† =; /* ‘ ‘ =‘ ‘ =‘ † . **‘ 5*2*-6// ‘ 41,[* ‘ ‘ ‘ ‘ !‘ , 8 ; ‘ : */-6.,‘ / ‘ 1 ; ,)‘ 620‘ 65*‘ 6/.1‘ >12., , ; ,*0‘ 6‘ 0 ., 2>, 12‘ 2‘ ,) .‘ -*.=*>,‘ &) ,* ‘ ?1-*1+*-‘ 86.‘ 6..; ?*0‘ 6.‘ ,)*‘ >1/1-‘ 1 ‘ 8) 6,*-+*-‘ 1-?‘ >6?*‘ -1?‘) *6+*2‘ M6.‘ D* 25‘ ,) 6, ‘ 1 ‘ ,) *‘ =; -*.,‘ / 5) ,X†) *2>*‘ 625*/.‘ 8*-*‘ >/60‘ 2‘ 5/ ,,*- 25‘ 8) ,*‘ -1D*.‘ M < 6-9‘ L+ ‘ † B1) 2‘ LL ‘ /‘ *,>%X‘ % ( ) *‘ . ?D1/ >6/ ; .*‘ 1 ‘ >1/1-.‘ .‘ >/*6-/ ‘ *L) D ,*0‘ 2‘ ,) *‘ =-1=) *, >‘ + . 12.‘ 2‘ *+‘ + ‘ /‘ ._‘ ‘ ,) *‘ - 0*-‘ ; =12‘ ,) *‘ " ‘) 1-.*‘ .‘ *?D/*?6, >6/ 1 ‘ 12*‘ D- 25 25‘ =-1.^ =*- , ‘ / 9*‘ + >,1- 1 ; .‘ >)6?= 12. ‘ ,) *‘ ‘) 1-.*‘ . 52 C‘ *.‘ D/110.) *0 ‘ ,) *‘ +‘ 0*21,*.‘ ,) *‘ 0 .,-*..‘ 1 ‘ 0*6-,) ‘ 620‘ .>6-> , ‘ ,) *‘ % ‘ 12*‘ ML78=1HX‘ 0*6,) ‘ 1‘ 8) *2‘ M *+‘ L ‘ F ‘ ,) *‘ 5-*6, ‘ 0-6512‘ M 6,62X‘ .‘ 0*= >,*0‘ -*0‘ ,‘ 6==*6-.‘ 6/,15*,) *-‘ >125-; 1 ; .‘ 8 ,) ‘ ,) *‘ >) 6-6>,*-‘ 1 ,) *‘ 1- 5 26,1-‘ 1 ‘ 0*6,) ‘ 620‘ 1 ‘ *+*- ‘ -; 2‘ M .6‘ ‘ † >1?=‘ +*-‘ ‘ .**‘ 6) - ‘ $ ‘ ‘ FF ‘ . _‘ 6/.1‘ *+‘ L+ F ‘ < 1-*‘ 0 >; /,‘ 1 ‘ 2,*-=-*, 6, 12‘ 6-*‘ ,) *‘ >1/1-*0‘ .,**0.‘ 1 ‘ U*>) ‘ ‘ † + ‘ /‘ ._‘ 8) >) ‘ =6..65*.‘ >*-, 6 2^ / ‘ .*-+*0‘ 6.‘ 6‘ ?10*/ , 1‘ ,) *†-*+*/6,1-‘ 2‘ ?6, ,*-.‘ 1 ‘ 81-.) =‘ M -6; .*‘ ‘ ‘ ‘ #(43)0‘ ,*-D‘ ‘ >1/1-C‘ . ?D1/.‘ , 69*‘ 6‘ 8 0*-‘ -625*‘ M -*; [*-‘ $! ‘ % E / ‘ . X‘ ( ) *‘ =- *.,.‘ 2‘ 5*2*-6/ 81-* 7 *+*.,?*2,. ‘ ,1‘ 20 >6,*‘ ,) *‘ = ; - , ‘ 1 ‘ ,) *‘ 0 + 2*‘ * 25‘ 8) 1?‘ ,) * ‘ .*-+*0‘ &) *2‘ 01/.‘ 8*-*‘ =6 2,*0‘ 8 ,) ‘ *-? // 12‘ M & .0‘ L ‘ † [*9‘ LL ‘ † .**‘ /; ,6->) ‘ ! 5 ! RQX‘ ,) .‘ >1/1-‘ 86.‘ 21,‘ 12/ ‘ .*/*>,*0‘ 1-‘ ,.‘ D- /^ / 62> ‘ D ; ,‘ 6.‘ ,) 6, ‘ 8 ,) ‘ 8) >) ‘ *+*2‘ ,) *‘ *6-/ ‘ , ?*. ‘ 0*>1-6,*0‘ ,) * -‘ ,- ; ?=) 62, ‘ 86-- 1-.‘ M / 2‘ LLL ‘ NSX‘ : *2>*‘ = ; -=/*‘ -1D*.‘ 8*-*‘ ; .*0‘ 1-‘ -1D 25‘ ,) *‘ ., 6, ; *.‘ 1 ‘ ,) *‘ 510.‘ MB*-‘ L ‘ RT‘ -*; [*-‘ $ ‘ ‘ KST‘ ‘ N QX‘ 2‘ ,) *‘ .-6*/ , .) ‘ > ; /, ; .‘ ,) *‘ 1 ; -‘ =- 2^ > =6/ >1/1-.‘ 1>>; -‘ 06-9‘ M>7‘ = ; -A7 .) X‘ D/ ; *‘ = ; -=/*C-*07‘ >- ?.12‘ 620‘ 8) , *‘ M,) *‘ ,) -**‘ *..*2, 6/ >1/1-.‘ 8) , *‘ D/ ; *‘ 620‘ -*0‘ 6/.1‘ 1>>; -‘ 2‘ *+‘ L+ ‘ SX† ,) * ‘ 6=^ =*6-‘ >122*>,*0/ ‘ 2‘ ,) *‘ 0*>1-6, 12.‘ M, 6=*.,- ‘620‘ +* /.X‘ 1 ‘ ,) *‘ , 6D*-26>/*‘ M L10‘ LL+ ‘ † LL+ ‘ ‘ N ‘ NST‘ ddd ‘ S‘ ._‘ † LLL+ ‘ Q‘ ._‘ X‘ 620‘ 2‘ ,) *‘ .6>*-01,6/ 56-^ ?*2,.‘ M L10‘ LL+ ‘ ‘ ._‘ † LLL L ‘ X‘ <1-*1+*-‘ .>6-/*, ‘ 620‘ 0**=‘ D/ ; *‘ >/1,) .‘ 6-*‘ =-*.>- D*0‘ 1-‘ ,) *‘ , -62. =1-, 6, 12‘ 1 ‘ ,) *‘ .6>-*0‘ ; -2 , ; -*‘ M ; ?‘ +X‘ 620‘ .>6-/*, ‘ 811/ 1-‘ >*-, 6 2‘ = ; - >6, 1- ‘ =; -=1.*.‘ M *+‘ L + ‘ ‘ S‘ ‘ ._‘ † ; ?‘ L L ‘ SX† 620‘ ,) *‘ , 6..*/.‘ , 1‘ ,) *‘ 1 ; -‘ >1?*-.‘ 1 ‘ ,) *‘ >1+*- 25 ‘ 8) >) ‘) 60‘ 6‘ -*/ 5 1 ; .‘ . 52 >62>*‘ 8*-*‘ , 1‘ D*‘ ?60*‘ 1 ‘ 06-9‘ D/ ; *‘ ?6, *- 6/.‘ M ; ?‘ d ‘ NQX‘ *-) 6=.‘ ,) *..*‘ 1 ; -‘ >1/1-.‘ 8*-*‘ .*^ /*>,*0‘ 21,‘ ?*-*/ ‘ 12‘ 6>>1 ; 2,‘ 1 ‘ ,) * -‘ D*6 ; , ‘ 620‘ >1..^ / 2*..‘ M410‘ 0*?620.‘ ,) *‘ D*..‘ ,) 6,‘ ?62‘) 6.X‘ D ; ,‘ 8 ,) ‘ -* *-*2>*‘ , 1‘ ,) * -‘ .=*> 6/ ? ., >6/ ?=1-, ‘ 8) >) ‘ 2‘ ,) *‘ /6.. ,‘ 2..,62>*‘ M,) *‘ - , ; 6/ 1 ‘ =; - >6, 12X‘ .‘ ?1-*‘ *+ ^ 0*2, ‘) /1‘ I*, %%f P NST‘ ‘ QX‘ 620‘ B1.*=) ; .‘ I1& f‘ ‘ ‘ X‘ , 11‘) 6+*‘ 6/-*60 ‘ 62‘ *L=/626, 12‘ 1 ‘ ,) *‘ 1 ; -‘ .6>-*0‘ >1/1-.‘ M>1?=‘ $! ‘ !) ! ‘ Q ‘ ‘ N ‘ . _‘ %X‘ **B - *0*- >/ ‘ $ ‘ ! ‘ !‘ $ * " ‘ I " E%/!‘ Q X‘ 1?=‘ ! # ‘ ‘ .,620.‘ 2‘ 1 ; -‘ +*-. 12‘ 1 ‘ [*9‘ LL ‘ ‘ 6.‘ 6‘ , -62./6, 12‘ 1 ‘ I (1‘ ; . ; 6// ‘ -*^ 56-0*0‘ 6.‘ -1?‘ 7NN ‘ , 1‘ ZHZ=‘ 620‘ .1‘ , 1‘ 0 *‘ 8 ,) ‘ >1/1-.† D ; ,‘ 4*.*2 ; .‘ =-* *-.‘ ,) *‘ 0*- +6, 12‘ -1?‘ 62‘ ,) 1= >‘ +*-D‘ . 52 25‘ , 1‘ ‘ 1-‘ 8-6=C6-1 ; 20 ‘ 620‘ 5 + 25‘ ,) *‘ .*2..*‘ 1 X‘) *60CD620.‘ 1-‘ ! ( ) *‘ *=, ‘ 620‘ ; /5‘ >1?D 2*‘ D1,) ‘ . 52 >6, 12.‘ I % ‘ $ - *‘ ‘ J U38f **f + ! ‘ %C .*2, *- ‘ &+‘ D >$

LIST OF ARTICLES IN VOL. II.

Cab .....Page 1
Cabala 1
Cabasilas, Nicolas.... 6
Cabasilas, Nilus..... 6
Cabassut 6
Cabbon 6
Cabin 6
Cabiz 6
Cabral 6
Cabul, 1..... 6
Cabul, 2..... 7
Caddis 7
Cademann 7
Cades 7
Cades-Barnè..... 7
Cadmiel..... 7
Cadonici..... 7
Cædmon..... 7
Cærularius 7
Cæsar 7
Cæsarea Palistinæ... 8
Cæsarea, Councils of 8
Cæsarea Philippi.... 9
Cæsarius of Arles.... 10
Cæsarius of Heisterbach..... 10
Cæsarius of Nazianzus..... 10
Cage..... 10
Caians..... 11
Caiaphas..... 11
Caiet..... 12
Cain (son of Adam).. 12
Cain (the city)..... 14
Cainan, 1..... 14
Cainan, 2..... 14
Cainites..... 14
Caius (the presbyter)..... 15
Caius (the bishop)... 15
Caius, John..... 15
Cajetan..... 15
Cake..... 15
Calah 17
Calamolalus 17
Calamus 17
Calamus sacer 17
Calamy, Edmund, 1.. 17
Calamy, Edmund, 2.. 17
Calas..... 18
Calasanza 18
Calasio..... 18
Calatrava (A.J.S.)... 18
Calcol..... 19
Calcutta (A.J.S.).... 19
Calderwood 19
Caldron..... 19
Caldwell, David..... 19
Caldwell, James..... 19
Caldwell, Joseph 19
Caldwell, Merritt.... 19
Caldwell, Zenas..... 20
Caleb, 1..... 20
Caleb, 2..... 20
Caleb, 3..... 20
Caleb-ephratah 20
Calendar, Jewish.... 20
Calendar, Roman.... 24
Calendar, Ecclesiastical (A.J.S.)..... 25
Calendarum Festum. 26
Calendarum Fratres (A.J.S.)..... 26
Calf 26
Calf-worship 27
Calhoun..... 29
Caligula..... 29
Calitas..... 29
Calixtines..... 29
Calixtus I. (A.J.S.).. 29
Calixtus II. (A.J.S.). 29
Calixtus III. (A.J.S.). 30
Calixtus, George 30
Calker 30
Call 30
Call, divine..... 31
Callenberg.....Page 33
Callender, Elisha.... 33
Callender, John..... 33
Calling..... 33
Callirrhöe..... 33
Callisthenes..... 34
Calmet..... 34
Calneh 34
Calno 35
Calovius..... 35
Caloyers 35
Calphi..... 35
Calvarists (A.J.S.)... 35
Calvary 35
Calvary, The..... 38
Calvary, Congregation of Our Lady of (A.J.S.) 38
Calvert 38
Calvin 39
Calvinism 42
Calvinists 46
Calvisius 47
Camaldules (A.J.S.). 47
Cambridge Manuscript 47
Cambridge Platform (C.C.T.) 48
Cambyses 48
Camel..... 49
Camels' Hair 53
Camerarius..... 53
Camero, John..... 54
Cameron, Archibald. 54
Cameron, Richard... 54
Cameronians..... 55
Camisards..... 55
Cammerhof 55
Camon 55
Camp 55
Campanarium 56
Campanella 56
Campanile 56
Campanites..... 56
Campanus 56
Campbell, Alexander 57
Campbell, Alexander Augustus 57
Campbell, Archibald 57
Campbell, George... 58
Campbell, John, 1... 58
Campbell, John, 2... 58
Campbell, Thomas... 58
Campe (J.N.P.)..... 58
Campegio..... 59
Campen, James Van. 59
Campen, John de.... 59
Camphire..... 59
Camphuysen 60
Campian 60
Campian Manuscript 60
Camp-meeting..... 60
Camus 61
Cana..... 61
Canaan, 1..... 62
Canaan, 2..... 62
Canaan, Land of.... 62
Canaan, Language of 63
Canaanite..... 64
Cananite..... 67
Cancellarii 67
Cancelli..... 67
Cancellus 67
Candace 67
Candidus 68
Candle..... 68
Candlemas..... 69
Candlestick 70
Cane..... 72
Canisius, Henricus.. 73
Canisius, Petrus.... 74
Canker..... 74
Canker-worm..... 74
Canne..... 74
Canneh 74
Cannon 74
Canon of Scripture Page 74
Canon (clerical title) 85
Canon of the Mass.. 86
Canon Law (J.N.P.) 87
Canons of the Church of England 89
Canons of the P. E. Church 89
Canons Regular (A. J.S.)..... 89
Canonesses (A.J.S.). 90
Canonicæ 90
Canonical hours.... 90
Canonical obedience (A.J.S.)..... 90
Canonist..... 90
Canonization..... 90
Canopy 91
Canstein 91
Canterbury 92
Cantharus..... 92
Cantheras..... 92
Canticles..... 92
Cantor 98
Canus 98
Cap..... 98
Caparcotia..... 98
Caper-plant 98
Capernaum..... 99
Capers 99
Cape Town (A.J.S.) 101
Caphar..... 102
Capharabis 102
Capharbarucha 102
Capharetæa..... 102
Caphargamala 102
Capharorsa 102
Capharsalama 102
Caphar-Zaccaria .. 102
Caphenatha 102
Caphethra 102
Caphira 103
Caphthorim 103
Caphtor..... 103
Caphtorim 104
Capistranus 104
Capitation 104
Capito (J.N.P.)..... 104
Capitularies (A.J.S.) 105
Cappadocia..... 105
Cappel, Jacques.... 105
Cappel, Louis..... 106
Captain 106
Captive 107
Captivity 108
Captivity, Assyrian 108
Captivity, Babylonian 109
Capuchins (A.J.S.). 114
Capuciati 115
Cara, Joseph..... 115
Cara, Simeon..... 115
Carabasion 115
Caracalla 115
Caraccioli 116
Caramuel..... 116
Caravan..... 116
Caravanserai 117
Carbuncle 118
Carcas 118
Carcase 118
Carchamis 118
Carchemish..... 118
Cardinal 119
Careah..... 121
Carem 121
Cares (H.H.)..... 121
Carey, Felix..... 121
Carey, William.... 121
Cargill..... 121
Caria (A.J.S.)..... 122
Carinthia (A.J.S.).. 122
Carleton..... 122
Carlisle..... 123
Carlstadt (J.N.P.).. 123
Carmanian....Page 123
Carmè 124
Carmel, 1..... 124
Carmel, 2..... 125
Carmelite 126
Carmelites (A.J.S.). 126
Carmelites..... 127
Carmi, 1..... 127
Carmi, 2..... 127
Carmi, 3..... 127
Carmite..... 127
Carnahan 127
Carnaim 127
Carnal..... 127
Carnesecchi 127
Carnion 127
Carnival 127
Carol..... 128
Caroline Books (A. J.S.)..... 128
Carpenter..... 128
Carpenter, Charles W..... 129
Carpenter, Coles... 129
Carpenter, Lant.... 129
Carpocrates..... 129
Carpocratians..... 129
Carpus 129
Carpzov..... 129
Carpzov, Johann Benedikt, 1..... 130
Carpzov, Johann Benedikt, 2..... 130
Carpzov, Johann Gottlob 130
Carr 130
Carranza..... 130
Carriage..... 130
Carrières..... 130
Carroll, Daniel Lynn 130
Carroll, John 131
Carshena..... 131
Carson 131
Carstares 131
Cart 131
Carter 132
Carthage..... 132
Carthage, Councils of..... 133
Carthusians (A.J.S.) 134
Cart-wheel..... 134
Cartwright, Thomas, 1..... 134
Cartwright, Thomas, 2..... 135
Carvajal, Giovanni. 135
Carvajal, Bernardino 135
Carve..... 135
Carvosso, Benjamin 136
Carvosso, William.. 136
Carwithen..... 136
Cary 136
Caryl 136
Casas 136
Casaubon..... 137
Case, Isaac..... 137
Case, William..... 137
Caselius..... 137
Casement..... 137
Cashel 137
Casiphia 137
Casiov 138
Casluhim 138
Casphon 138
Caspis 138
Cassander 138
Cassel, Conference of..... 138
Cassell, Leonard... 138
Cassia 139
Cassian..... 140
Cassianus 140
Cassiodorus 141
Cassius 141
Cassock 141
Cast.....Page 141
Castalion..... 141
Castell 141
Castellum Peregrinorum..... 142
Castle..... 142
Castor and Pollux.. 142
Casuistry 142
Casus Reservati.... 144
Cat..... 144
Catabaptists..... 145
Catacombs 145
Catafalco..... 148
Cataldus..... 148
Cataphrygians..... 148
Catechetics 148
Catechism..... 150
Catechumens 152
Catena..... 154
Caterpillar..... 155
Cathari 155
Catharine, St..... 157
Catharine of Sweden 157
Catharine of Sienna 157
Catharine of Bologna 157
Catharine of Genoa 157
Catharine of Ricci.. 158
Catharinus 158
Cathcart 158
Cathedra (G.F.C.).. 158
Cathedral (G.F.C.).. 158
Catholic..... 158
Catholic Apostolic Church (W.W.A.) 159
Catholic Epistles... 162
Catholicos 162
Cathua 163
Catlin 163
Cattenburgh..... 163
Cattle..... 163
Caul..... 165
Causeway 166
Caussin 166
Cavalier 166
Cavallieri 166
Cave..... 166
Cave, William..... 169
Cawton 169
Cazalla..... 169
Cecil..... 169
Cecilia 170
Cecilianus..... 170
Cedar..... 170
Cedron, 1..... 172
Cedron, 2..... 172
Celan..... 172
Ceiling 172
Cellier..... 173
Celestine I. (A.J.S.) 173
Celestine II. (A.J.S.) 173
Celestine III. (A.J. S.)..... 173
Celestine IV. (A.J. S.)..... 173
Celestine V. (A.J. S.)..... 173
Celestines (A.J.S.).. 174
Celibacy 174
Cell (G.F.C.)..... 177
Cellar..... 177
Cellarius 177
Cellarius, Martinus 177
Cellites (A.J.S.).... 177
Celsius (A.J.S.)..... 177
Celsus..... 177
Celtic Religion (G. F.C.)..... 179
Cemeteries 180
Cenchræ..... 180
Cendebæus 181
Cendevia..... 181
Cennick..... 181
Censer..... 181
Censorship..... 182
Censures..... 182
Census..... 183

Central America (A. J.S.)..... Page 186
Centuriators..... 186
Centuries of Magdeburg..... 186
Centurion..... 187
Ceolfrid..... 187
Ceperaria..... 187
Cephas..... 187
Ceras..... 187
Cerdo..... 187
Cerealis..... 188
Cereals..... 188
Ceremony (J.W.M.) 189
Cerinthus..... 190
Cestius Gallus..... 191
Cetab..... 191
Cetubim..... 191
Ceylon..... 191
Chabris..... 194
Chad..... 194
Chaderton..... 194
Chadias..... 194
Chaereas..... 194
Chaff..... 194
Chain..... 194
Chais..... 195
Chajug..... 195
Chalamish..... 195
Chalcedon..... 195
Chalcedony..... 196
Chalcidius..... 196
Chalcis..... 196
Chalcol..... 197
Chaldæa..... 197
Chaldæan Philosophy..... 199
Chaldeans..... 200
Chaldee Language.. 200
Chaldees (A.J.S.)... 201
Chalice..... 202
Chalk..... 202
Challoner..... 202
Chalmers..... 202
Chalons..... 203
Chamber..... 204
Chamberlain..... 204
Chamberlain, Jeremiah..... 204
Chamberlain, Schuyler..... 204
Chameleon..... 204
Chamier..... 205
Chamois..... 205
Champaign..... 206
Champion..... 206
Chanaan..... 206
Channanite..... 206
Chancel..... 206
Chancellor..... 206
Chancellor (ecclesiastical)..... 206
Chandler, Edward.. 206
Chandler, Samuel.. 206
Chandler, Thos. B.. 207
Chandler, William Penn..... 207
Changer of Money.. 207
Channel..... 207
Channing..... 207
Channuneus..... 208
Chant..... 208
Chant (church)..... 208
Chantry (G.F.C.)... 208
Chaos..... 208
Chapel (G.F.C.)..... 209
Chapel (dress)..... 209
Chapelle ardente... 209
Chapin, Calvin..... 209
Chapin, Stephen... 209
Chapiter..... 210
Chaplain..... 210
Chaplet..... 210
Chaplin, Daniel ... 210
Chaplin, Jeremiah.. 211
Chaplin, Jonathan E. 211
Chapman..... 211
Chapman, John.... 211
Chappel..... 211
Chappelow..... 211
Chapter..... 211
Chapter of the Bible 211
Chapter (ecclesiastical) (A.J.S.).... 212
Chapters, the Three 212
Chapter-house (G.F. C.)..... 212
Charnathalar..... 212
Charnca..... 212
Character..... 212
Character Dominicas..... Page 213
Character Indelibilis 213
Charaslim..... 213
Charchamis..... 213
Charcus..... 213
Charea..... 213
Charenton..... 213
Chares..... 213
Charger..... 213
Chariot..... 213
Chariots, Captains of 217
Chariot of the Cherubim..... 217
Chariot-cities..... 217
Chariot-horses..... 217
Chariot-man..... 217
Chariots of War.... 217
Chariots of the Sun. 218
Chariot-race..... 218
Charisma..... 218
Charity..... 218
Charity, Brothers of (A.J.S.)..... 219
Charity, Sisters of (A.J.S.)..... 219
Charlemagne..... 220
Charles V. (J.W.M.) 220
Charles IX..... 222
Charleton..... 222
Charm..... 222
Charmis..... 222
Charnel-house (G.F. C.)..... 222
Charnock..... 222
Charran..... 223
Charter-house..... 223
Chase..... 223
Chase, Abner..... 224
Chase, Henry..... 224
Chase, Philander... 224
Chase, Squire..... 224
Chaseba..... 224
Chasidim..... 224
Chaskuni..... 225
Chasten..... 226
Chastity..... 226
Chasuble..... 226
Chatlim..... 226
Chauncy, Charles, 1. 226
Chauncy, Charles, 2. 226
Chauncy, Isaac..... 226
Chebar..... 227
Chebel..... 227
Checker..... 227
Chedorlaomer..... 227
Cheek..... 228
Cheese..... 228
Cheke..... 228
Chelal..... 228
Chelcias, 1..... 229
Chelcias, 2..... 229
Chelcias, 3..... 229
Chelcias, 4..... 229
Chellian..... 229
Chelluh..... 229
Chellus..... 229
Chelod..... 229
Chelub, 1..... 229
Chelub, 2..... 229
Chelubai..... 229
Chemarim..... 229
Chemnitz..... 229
Chemosh..... 230
Chenaanah, 1..... 230
Chenaanah, 2..... 230
Chenani..... 230
Chenaniah..... 230
Chephar-haammonai..... 230
Chephirah..... 230
Cheran..... 230
Cherem..... 230
Cherethim..... 231
Cherethits..... 231
Cherith..... 231
Cherub (the person) 232
Cherub (the figure) 232
Chesalon..... 240
Chesed..... 240
Chesil..... 240
Chest..... 240
Chester (A.J.S.).... 240
Chestnut-tree..... 240
Chesulloth..... 242
Chettim..... 242
Cheverus..... 242
Cheynell..... 242
Chezib..... 242
Chichester (A.J.S.). 242
Chichele..... Page 242
Chicken..... 242
Chidon..... 242
Chief of Three..... 243
Child..... 243
Child of God..... 244
Childbirth..... 244
Childs..... 244
Chilcab..... 245
Chili (A.J.S.)..... 245
Chilion..... 245
Chillingworth..... 245
Chilmad..... 246
Chimere..... 246
Chimham..... 246
Chimney..... 246
China..... 247
Chinnereth..... 254
Chinnereth, Sea of. 254
Chinneroth..... 254
Chios..... 254
Chisleu..... 255
Chislon..... 255
Chisloth-tabor..... 255
Chittim..... 255
Chiun..... 256
Chloe..... 256
Choba..... 256
Chobai..... 257
Choenix..... 257
Choir (G.F.C.)..... 257
Choir-wall (G.F.C.) 257
Choral (G.F.C.).... 257
Chor-ashan..... 257
Chorazin..... 257
Chorepiscopi..... 258
Chosamæus..... 258
Chosen..... 258
Choules..... 258
Chozeba..... 258
Chrestians..... 259
Chrestus..... 259
Chrism..... 259
Chrisome..... 259
Christ..... 260
Christ, Images of (G. F.C.)..... 262
Christ, Monogram of 263
Christ, Offices of... 263
Christ, Sinlessness of (J.W.M.)..... 265
Christ, Order of (A. J.S.)..... 268
Christendom (A.J. S.)..... 268
Christening..... 268
Christian..... 269
Christian (bishop).. 270
Christianity (A.J.S.) 270
Christians..... 273
Christians, Bible... 275
Christians of John. 275
Christians of St. Thomas (A.J.S.). 275
Christie..... 275
Christmas..... 276
Christology, I..... 277
Christology, II. (P. S.)..... 280
Christology, III. (P. S.)..... 282
Christopher..... 285
Christophorus..... 285
Christophorus, Pope (A.J.S.)..... 285
Christo-sacrum..... 285
Christs, False..... 285
Chrodegang..... 285
Chromatius..... 285
Chronicles..... 285
Chronicles, Books of 286
Chronology..... 292
Chronology, Christian (A.J.S.)..... 317
Chrysargyrum..... 318
Chrysolite..... 318
Chrysologus..... 319
Chrysoprasus..... 319
Chrysostom (P.S.).. 319
Chub..... 321
Chubb..... 322
Chun..... 322
Church (H.B.R.).... 322
Church and State (A.J.S.)..... 323
Church Congress (A. J.S.)..... 333
Church Diet (A.J.S.) 333
Church Edifices (G. F.C.)..... 334
Church of God, Page 338
Church of the Messiah..... 339
Church, States of the (A.J.S.)..... 339
Church-wardens ... 341
Church-yard..... 342
Church-year (A.J. S.)..... 342
Church, John H.... 343
Church, Thomas ... 343
Churching..... 343
Churl..... 343
Churning..... 343
Churton..... 343
Chushan-rishathaim 343
Chusi..... 344
Chuza..... 344
Chytræus..... 344
Ciborium..... 344
Cicear..... 344
Cilicia..... 344
Cinnamon..... 345
Cinnereth..... 346
Cippus..... 346
Cirama..... 346
Circle..... 346
Circuit..... 347
Circuit, Methodist.. 347
Circumcellians..... 347
Circumcision..... 347
Circumcision, Relation to Baptism (W.R.P.)..... 352
Circumcision, Festival of..... 353
Cis..... 353
Cisal..... 353
Cistercians (A.J.S.). 353
Cistercian Nuns (A. J.S.)..... 354
Cistern..... 354
Cithern..... 355
Citim..... 356
Citizenship..... 356
Citron..... 357
City..... 357
City, Fenced..... 360
City with Suburbs.. 360
City of Refuge..... 360
City of David..... 362
City of God..... 362
City, Holy..... 362
City, Treasure..... 362
Clagett..... 362
Claggett..... 362
Clairvaux..... 362
Clap..... 362
Clara..... 362
Clare, St., Nuns of (A.J.S.)..... 362
Clarendon Constitutions..... 363
Clarenines (A.J.S.). 364
Claris..... 364
Clark, Daniel..... 364
Clark, John, 1..... 364
Clark, John, 2..... 364
Clark, John A..... 365
Clark, Peter..... 365
Clark, Samuel..... 365
Clarke, Adam..... 365
Clarke, Edward D.. 366
Clarke, John, 1..... 366
Clarke, John, 2..... 366
Clarke, Samuel 366
Clarkson..... 368
Class-meetings..... 368
Claudia..... 369
Claudius..... 369
Claudius, Clemens (J.K.J.)..... 371
Claudius, Matthias (A.J.S.)..... 371
Claudius of Savoy.. 372
Clausura..... 372
Claw..... 372
Clay..... 372
Clayton..... 373
Clean..... 373
Clear-story..... 373
Cleaveland..... 373
Cleft..... 373
Cleland (R.D.)..... 374
Clemanges..... Page 374
Clemens Alexandrinus (J.W.M.)..... 375
Clement..... 376
Clement of Rome (R. D.H.)..... 376
Clement I. (A.J.S.). 378
Clement II. (A.J.S.) 378
Clement III., 1 (A. J.S.)..... 378
Clement III., 2 (A. J.S.)..... 379
Clement IV. (A.J.S.) 379
Clement V. (A.J.S.) 379
Clement VI. (A.J.S.) 379
Clement VII., 1 (A. J.S.)..... 379
Clement VII., 2 (A. J.S.)..... 380
Clement VIII., 1 (A. J.S.)..... 380
Clement VIII., 2 (A. J.S.)..... 380
Clement IX. (A.J.S.) 380
Clement X. (A.J.S.) 380
Clement XI. (A.J.S.) 380
Clement XII. (A.J. S.)..... 381
Clement XIII. (A.J. S.)..... 381
Clement XIV. (A.J. S.)..... 381
Clementines, I. (P. S.)..... 382
Clementines, II..... 383
Clementines, III.... 383
Cleobians..... 384
Cleopas..... 384
Cleopatra, 1..... 384
Cleopatra, 2..... 384
Cleopatra, 3..... 384
Cleopatra, 4..... 384
Cleopatra, 5..... 384
Cleopatra, 6..... 384
Cleopatra, 7..... 385
Cleopatra, 8..... 385
Clerc, Le..... 385
Clergy..... 385
Clergy, Benefit of... 388
Clerk..... 388
Clerks of St. Majolus (A.J.S.)..... 388
Clermont..... 388
Clermont MS..... 388
Cletus..... 389
Clinic Baptism..... 389
Clitus..... 389
Cloak..... 389
Clod..... 390
Cloister (G.F.C.)... 390
Cloister-garth (G.F. C.)..... 390
Closet..... 390
Clothing..... 390
Clothes, Rending of 390
Cloud..... 390
Cloud, Pillar of.... 391
Clough..... 391
Clout..... 391
Clovis..... 391
Cloyne..... 392
Club..... 392
Cluny, Congregation of (A.J.S.)... 392
Clysma..... 392
Cnidus..... 392
Coadjutor..... 393
Coal..... 393
Coast..... 393
Coat..... 393
Coat of Mail..... 394
Cobb..... 394
Cobbet..... 394
Cobbs..... 395
Cobham..... 395
Coccelius (W.W.A.). 396
Cochlæus..... 396
Cock..... 396
Cock-crowing..... 398
Cock (as symbol).. 398
Cockatrice..... 399
Cocker..... 399
Cockle..... 399
Codex Canonum (A. J.S.)..... 399
Codex Justinianeus (A.J.S.)..... 399
Codman..... 399
Coelestius..... 399

Celé-Syria....Page 399
Celicolæ 400
Celsus 400
Cenobites (A.J.S.). 400
Cerfer 400
Cerfin 400
Cerfin (modern).... 401
Cerfin, Charles..... 401
Cerah 401
Cogitation 401
Cogswell 401
Cohabitation..... 401
Cohort 402
Coin 402
Coislin MS..... 402
Coislin Fragments.. 403
Coke (A.S.)..... 403
Cola 404
Colarbasus (A.J.S.). 404
Colbert, Charles J.. 404
Colbert, Jacques N. 404
Colbert MS..... 405
Colbert, William ... 405
Cole, Henry..... 405
Cole, Thomas..... 405
Coleridge..... 405
Coles, Elisha..... 407
Coles, George..... 407
Colet..... 407
Col-hozeh 407
Collgul..... 407
Collins..... 408
Collar..... 408
Collation 409
Collect 409
Collection..... 410
Collector..... 410
College..... 410
College (literary)... 410
Collegia Pontificia (A.J.S.)..... 411
Collegial Church... 411
Collegial System (A. J.S.)..... 411
Collegiants 411
Collier, Jeremy.... 412
Collier, Joseph A (W.J.R.T.)..... 411
Collier, William.... 411
Collins, Anthony... 413
Collins, John..... 412
Collins, John A..... 412
Collins, Judson D.. 412
Collins, Wellington H..... 412
Collin (A.J.S.)..... 412
Collops 413
Collyridians 413
Colman (D.D.)..... 413
Colman, Benjamin.. 413
Cologne (A.J.S.).. 413
Colombi (A.J.S.).. 414
Colonna 414
Colonna, Giovanni.. 415
Colony 415
Color..... 415
Colors, Christian Symbolism of (G. F.C.)..... 419
Colossæ..... 419
Colossians, Epistle to 420
Colt..... 420
Colton..... 420
Columba (D.D.).... 420
Columbanus (D.D.). 424
Column 424
Comballs 425
Comber, Thomas, 1. 426
Comber, Thomas, 2. 426
Comenius..... 426
Comet..... 426
Coming of Christ... 426
Commandery (A.J. S.)..... 426
Commandments, the Five (A.J.S.)..... 426
Commendam 427
Commendams (A.J. S.)..... 427
Commentary 427
Commerce 34
Commination 3
Commissary 43
Commission 43
Commissioner..... 43
Commodianus (A.J. S.)..... 43
Commodus (A.J.S.). 43
Common..... 43
Common-house..... 43
Common Prayer.... 43
Commune.....Page 441
Communicants..... 441
Communicatio Idiomatum..... 441
Communicative Life 442
Communio Laica... 442
Communio Peregrina..... 442
Communion..... 442
Communion, Close. 443
Communion in both kinds 443
Communion of Saints..... 441
Communion Service 444
Communion-table.. 444
Communism(J.N.P.) 444
Community of goods 447
Compass..... 447
Compel..... 447
Compiegne 447
Competentes 447
Completorium 447
Compostella, Order of (A.J.S.)..... 448
Compostella (town). 448
Comprehension 448
Compton 448
Comstock 448
Comte (G.F.H.).... 448
Conanish, 1..... 451
Conanish, 2..... 450
Conception of Christ 451
Conception of Mary. 451
Concha..... 451
Conciliabule 451
Concision..... 451
Conclave (J.W.M.). 451
Concomitant 452
Concord, Formula of (A.J.S.)..... 425
Concordance..... 454
Concordat (A.J.S.).. 456
Concubinage..... 459
Concupiscence..... 459
Concupiscence..... 461
Conder..... 461
Condescension..... 461
Conflict (W.J.R.T.). 462
Conformity..... 465
Confucius (A.J.S.). 465
Confutation..... 465
Congé d'élire..... 472
Congo (A.J.S.)..... 472
Congregatio de aux. fils divins. gratiis (A.J.S.)..... 473
Congregation (A.J. S.)..... 473
Congregation, Mi. of Conference with Christ (A.J.S.)..... 474
Congregationalism (A.J.S.)..... 474
Congregationalists (A. J.S.)..... 475
Conjuration..... 475
Connecticut..... 475
Conon (A.J.S.)..... 483
Conon..... 483
Conquest..... 483
Conrad..... 483
Conring..... 484
Consalvi..... 484
Consanguinity..... 484
Conscientiarii (A.J. S.)..... 484
Consecration 484
Consecration (Christian)..... 485
Consensus Genevensis 485
Consensus Tigurinus 480
Consilia Evangelica 486
Consistory..... 486
Consolo..... 486
Constance, Council of..... 486
Constant 487
Constantine, Emperor..... 487
Constantine, Pope (A.J.S.) 488
Constantinople (G. F.C.)..... 488
Constantinople, Councils of..... 490
Constellation..... 492
Constitutions and Canons, Books of. 492
Consubstantial 492
Consubstantiation.. 492
Consul 492
Consumption..... 492
Contarini 492
Contentment..... 492
Contract 493
Contrition 493
Convenient..... 493
Convent (A.J.S.)... 493
Conventicle 494
Conventicle Act.... 494
Conventuals 494
Conversation..... 494
Conversion..... 494
Converson of St. Paul, Feast of.... 495
Convicts..... 495
Convocation..... 495
Convocation (English)..... 495
Convulsionists..... 496
Conybeare, John... 496
Conybeare, Wm. D. 496
Conybeare, W. J.... 496
Cook..... 496
Cook, Charles..... 498
Cook, Russell S.... 498
Cook, Valentine.... 498
Cooke 498
Cookman..... 498
Cooper, Ezekiel (A. S.)..... 499
Cooper, Samuel.... 499
Cooper, Samuel G. 499
Cooper, Thomas... 499
Cooper, William... 499
Copa 499
Cope 499
Copiate 500
Coping 500
Coping (in G. T.)... 500
Coponius 500
Copleston 500
Copper 501
Coppersmith..... 501
Coptic Language... 501
Copts 502
Cor..... 503
Corbin..... 503
Coral 503
Corban..... 504
Corbe 504
Corbel 504
Corbel-table..... 505
Cordelier Manuscript 505
Cordier (A.J.S.)... 505
Cordova 505
Corduba 505
Corea (A.J.S.)..... 505
Corinth.....Page 507
Corinthian..... 510
Corinthian Order... 510
Corinthians, First Epistle to..... 510
Corinthians, Second Epistle to..... 512
Corinthians, Apocryphal Epistles to and from..... 514
Corinthus..... 514
Cormac (D.D.)..... 514
Cormorant..... 514
Corn..... 515
Cornarists..... 516
Cornelius 516
Cornelius (bishop).. 517
Cornelius à Lapide.. 517
Cornelius, Elias.... 518
Corner 518
Corner-gate..... 519
Corner-stone..... 519
Cornerus 519
Cornet..... 519
Cornice..... 520
Corona 521
Coronati..... 521
Corporal..... 521
Corporal Inflictions. 521
Corporation..... 522
Corpse 522
Corpus Catholicorum (A.J.S.)..... 522
Corpus Christi..... 522
Corpus Doctrinæ (A. J.S.)..... 522
Corpus Evangelicorum (A.J.S.)..... 522
Corpus Juris Canonici (A.J.S.)..... 522
Correctores Romani (A.J.S.)..... 522
Correggio (A.J.S.)... 523
Corruption 524
Corruption, Ma. of.. 523
Corruptibile..... 523
Corrupticolæ..... 523
Corsini 523
Corvey (A.J.S.)... 523
Corvinus 523
Cos 524
Cosam..... 524
Cosin..... 524
Cosmas, St..... 524
Cosmas and Damianus, Order of (A. J.S.)..... 524
Cosmas Indicopleustes 524
Cosmogony 524
Cossing ex, Manufe. 525
Cosmology, Biblical. 530
Cossets (D.D.H.)... 530
Costardus, I..... 530
Cotcherus, 2..... 530
Cotonus..... 530
Cote..... 530
Cotelerius 534
Cottage..... 534
Cotton 534
Cotton, Geo. E. L... 534
Cotton, John..... 534
Couch..... 534
Coulter..... 534
Council, Apostolical 537
Councils 537
Counsel 539
Counsellor..... 539
Country 539
Coupling 539
Courayer 539
Court 539
Cousin 542
Cousin, Victor..... 542
Couthu..... 542
Covel, James..... 542
Covel, John..... 542
Covenant 542
Covenant of Salt... 544
Covenant, Federal 544
Covetousness..Page 546
Cow 547
Coward..... 547
Cowl..... 547
Cowles 547
Cowper..... 548
Cox, F. A..... 548
Cox, Melville B..... 548
Cox, Richard..... 548
Coz 548
Cozbi..... 548
Crackling..... 548
Cracknel 548
Cradock, Samuel... 549
Cradock, Walter ... 549
Craftsman..... 549
Craig 549
Crakanthorp 549
Cramer..... 549
Crane 550
Crane, John..... 550
Cranmer 550
Crasnus..... 553
Crates 553
Crato w. Craffheim (A.J.S.)..... 553
Cravens..... 553
Crawford, Elijah... 553
Crawford, John 553
Creagh..... 553
Creation (J.F.H.).... 554
Creationism (P.S.).. 557
Creature 557
Creatures, Living .. 558
Credence-table..... 558
Credilitor..... 558
Creditor 558
Creed..... 558
Creed, Apostles'.... 559
Creed, Athanasian.. 560
Creed, Nicene..... 562
Creed of Pius IV... 562
Creek 562
Creeping Thing..... 563
Creichton 563
Crell, John 564
Crell, Nicholas..... 564
Crell, Samuel..... 564
Cremation 564
Cremona 564
Crescentius 566
Crespin..... 566
Crete 566
Cretico 566
Crime 566
Crimea 566
Cripple 566
Crispus 568
Crisp 568
Crispi (A.J.S.)..... 568
Crispin 568
Crispina 568
Crispinian 568
Crispus 568
Critias (A.J.S.)..... 568
Criticus 568
Croatia (A.J.S.)..... 568
Crocius 568
Crocodile 568
Crocodilopolis 568
Croesus 568
Croft 569
Croix 569
Cromaz 569
Cromwell 569
Cross 569
Cross, Emblems of A. 583
Cross, Invention of 583
Cross, Legend of 583
Cross, Sign of (God 583
Cross, Way of 583
Crosses, Heaps of .. 583
Crosses, Orders of .. 583
Crotchet 583
Crotus 583
Crowley 583

Crown ..... Page 583
Crown of Thorns... 586
Crucifix (G.P.C.)... 586
Crucifixion 588
Crucigar (A.J.S.)... 592
Cruden 593
Crumbaugh (M.L.S.) 593
Crusades (A.J.S.)... 593
Cruse 595
Crusius 596
Cruse 596
Crystal 597
Cubit 598
Cuckoo 598
Cucumber 599
Cud 599
Cudworth 599
Cujacius (A.J.S.)... 600
Culbertson 600
Culdees (B.H.N.)... 600
Culen 602
Culverwell 602
Cumanus 602
Cumberland 602
Cumi 602
Cumin 602
Cumming 603
Cuneiform 603
Cunigunda 604
Cunningham 604
Cup 605
Cup-bearer 607
Cupboard 607
Curcellæus 607
Curate 608
Cure 608
Curetun 609
Curia Romana (A.J. S.) 609
Curio 610
Curious Arts 610
Curse 610
Curtain 610
Curtius 611
Cush (A.J.S.) 611
Cushi 612
Cushi, Ezekiel ben 612
Cushi, J. 616
Cushion 616
Cushi, J. 616
Cushi, S. 616
Cushman 617
Custom 617
Cuth 617
Cuthbert 617
Cutler, Benjamin C. (A.J.S.) 618
Cutler, Manasseh 618
Cutler, Timothy 618
Cutting in the Flesh 619
Cuyler 620
Cuyler, W.J.E.T. 620
Cuzzi 620
Cyaxares 620
Cybele 620
Cyclades 621
Cyclops 621
Cyclopædia 621
Cyclopædia, Biblical 621
Cyclopædia, Religious 622
Cyclopædia, Theological 622
Cyclopædia, Universal 622
Cyclopædia of Biblical Literature 623
Cyclopædia of Religious Knowledge 623
Cyclopædia of Theological Literature 623
Cyclopædia, Religious 623
Cyclopædia, Theological 623
Cyclopædia, Universal 623
Cyclopædias, Biblical 623
Cyclopædias, Religious 623
Cyclopædias, Theological 623
Cyclopædias, Universal 623
Cyclopædias, Universal, Biblical 623
Cyclopædias, Universal, Religious 623
Cyclopædias, Universal, Theological 623
Cyclopædias, Universal, Universal 623
Cyclopædias, Universal, Universal, Biblical 623
Cyclopædias, Universal, Universal, Religious 623
Cyclopædias, Universal, Universal, Theological 623
Cyclopædias, Universal, Universal, Universal 623
Cyclopædias, Universal, Universal, Universal, Biblical 623
Cyclopædias, Universal, Universal, Universal, Religious 623
Cyclopædias, Universal, Universal, Universal, Theological 623
Cyclopædias, Universal, Universal, Universal, Universal 623
Cyclopædias, Universal, Universal, Universal, Universal, Biblical 623
Cyclopædias, Universal, Universal, Universal, Universal, Religious 623
Cyclopædias, Universal, Universal, Universal, Universal, Theological 623
Cyclopædias, Universal, Universal, Universal, Universal, Universal 623
Cyclopædias, Universal, Universal, Universal, Universal, Universal, Biblical 623
Cyclopædias, Universal, Universal, Universal, Universal, Universal, Religious 623
Cyclopædias, Universal, Universal, Universal, Universal, Universal, Theological 623
Cyclopædias, Universal, Universal, Universal, Universal, Universal, Universal 623
Cyclopædias, Universal, Universal, Universal, Universal, Universal, Universal, Biblical 623
Cyclopædias, Universal, Universal, Universal, Universal, Universal, Universal, Religious 623
Cyclopædias, Universal, Universal, Universal, Universal, Universal, Universal, Theological 623
Cyclopædias, Universal, Universal, Universal, Universal, Universal, Universal, Universal 623
Cyclopædias, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Biblical 623
Cyclopædias, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Religious 623
Cyclopædias, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Theological 623
Cyclopædias, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal 623
Cyclopædias, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Biblical 623
Cyclopædias, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Religious 623
Cyclopædias, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Theological 623
Cyclopædias, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal 623
Cyclopædias, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Biblical 623
Cyclopædias, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Religious 623
Cyclopædias, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Theological 623
Cyclopædias, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal 623
Cyclopædias, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Biblical 623
Cyclopædias, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Religious 623
Cyclopædias, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Theological 623
Cyclopædias, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal 623
Cyclopædias, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Biblical 623
Cyclopædias, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Religious 623
Cyclopædias, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Theological 623
Cyclopædias, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal 623
Cyclopædias, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Biblical 623
Cyclopædias, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Religious 623
Cyclopædias, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Theological 623
Cyclopædias, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal 623
Cyclopædias, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Biblical 623
Cyclopædias, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Religious 623
Cyclopædias, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Theological 623
Cyclopædias, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal 623
Cyclopædias, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Biblical 623
Cyclopædias, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Religious 623
Cyclopædias, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Theological 623
Cyclopædias, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal 623
Cyclopædias, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Biblical 623
Cyclopædias, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Religious 623
Cyclopædias, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Theological 623
Cyclopædias, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal 623
Cyclopædias, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Biblical 623
Cyclopædias, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Religious 623
Cyclopædias, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Theological 623
Cyclopædias, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal 623
Cyclopædias, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Biblical 623
Cyclopædias, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Religious 623
Cyclopædias, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Theological 623
Cyclopædias, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal 623
Cyclopædias, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Biblical 623
Cyclopædias, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Religious 623
Cyclopædias, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Theological 623
Cyclopædias, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal 623
Cyclopædias, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Biblical 623
Cyclopædias, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Religious 623
Cyclopædias, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Universal, Theological 623
Cyclopædias, Universal 623
Cyclopædias, Universal, Biblical 623
Cyclopædias, Universal, Religious 623
Cyclopædias, Universal, Theological 623
Cyclopædias, Universal 623
Cyclopædias, Universal, Biblical 623
Cyclopædias, Universal, Religious 623
Cyclopædias, Universal, Theological 623
Cyclopædias, Universal 623
Cyclopædias, Universal, Biblical 623
Cyclopædias, Universal, Religious 623
Cyclopædias, Universal, Theological 623
Cyclopædias, Universal 623
Cyclopædias, Universal, Biblical 623
Cyclopædias, Universal, Religious 623
Cyclopædias, Universal, Theological 623
Cyclopædias, Universal 623
Cyclopædias, Universal, Biblical 623
Cyclopædias, Universal, Religious 623
Cyclopædias, Universal, Theological 623
Cyclopædias, Universal 623
Cyclopædias, Universal, Biblical 623
Cyclopædias, Universal, Religious 623
Cyclopædias, Universal, Theological 623
Cyclopædias, Universal 623
Cyclopædias, Universal, Biblical 623
Cyclopædias, Universal, Religious 623
Cyclopædias, Universal, Theological 623
Cyclopædias, Universal 623
Cyclopædias, Universal, Biblical 623
Cyclopædias, Universal, Religious 623
Cyclopædias, Universal, Theological 623
Cyclopædias, Universal 623
Cyclopædias, Universal, Biblical 623
Cyclopædias, Universal, Religious 623
Cyclopædias, Universal, Theological 623
Cyclopædias, Universal 623
Cyclopædias, Universal, Biblical 623
Cyclopædias, Universal, Religious 623
Cyclopædias, Universal, Theological 623
Cyclopædias, Universal 623
Cyclopædias, Universal, Biblical 623
Cyclopædias, Universal, Religious 623
Cyclopædias, Universal, Theological 623
Cyclopædias, Universal 623
Cyclopædias, Universal, Biblical 623
Cyclopædias, Universal, Religious 623
Cyclopædias, Universal, Theological 623
Cyclopædias, Universal 623
Cyclopædias, Universal, Biblical 623
Cyclopædias, Universal, Religious 623
Cyclopædias, Universal, Theological 623
Cyclopædias, Universal 623
Cyclopædias, Universal, Biblical 623
Cyclopædias, Universal, Religious 623
Cyclopædias, Universal, Theological 623
Cyclopædias, Universal 623
Cyclopædias, Universal, Biblical 623
Cyclopædias, Universal, Religious 623
Cyclopædias, Universal, Theological 623
Cyclopædias, Universal 623
Cyclopædias, Universal, Biblical 623
Cyclopædias, Universal, Religious 623
Cyclopædias, Universal, Theological 623
Cyclopædias, Universal 623
Cyclopædias, Universal, Biblical 623
Cyclopædias, Universal, Religious 623
Cyclopædias, Universal, Theological 623
Cyclopædias, Universal 623
Cyclopædias, Universal, Biblical 623
Cyclopædias, Universal, Religious 623
Cyclopædias, Universal, Theological 623
Cyclopædias, Universal 623
Cyclopædias, Universal, Biblical 623
Cyclopædias, Universal, Religious 623
Cyclopædias, Universal, Theological 623
Cyclopædias, Universal 623
Cyclopædias, Universal, Biblical 623
Cyclopædias, Universal,

Directory ....Page 813
Dirge 814
Discalceati (A.J.S.) 814
Discerning of Spirits 815
Disciple 815
Disciples of Christ (W.K.P.) 815
Discipline 816
Discipline, Book of 818
Discipline, First Book of 818
Discipline, Second Book of 818
Discipline of the Lash 818
Discus 819
Disease 819
Dish 820
Dishan 820
Dishon, 1 820
Dishon, 2 820
Dispensation 820
Dispersed Jews 821
Dispersion of Mankind 822
Dissenter 824
Dissidents 824
Distaff 825
District 825
Ditch 825
Ditheism 825
Dithmar 825
Divan 825
Diverse 826
Divination 826
Divine 836
Divine Right 836
Divinity 836
Division 833
Divisions in Corinthian Church 836
Division of Earth 838
Divorce, Jewish 839
Divorce, Christian Law of (T.W.) 840
Dizahab 844
Doane 844
Dober 844
Dobinger 844
Dobritzhoffer 844
Docetæ (H.H.) 844
Doctor 845
Doctor (academical) 846
Doctors Commons 846
Doctrine, Christian Conjurations of (A.J.S.) 846
Doctrines, History of (A.J.S.) 847
Doems 849
Dod, Albert B. 849
Dod, John 849
Dodai 849
Dodanim 850
Dodavah ....Page 850
Dodd, Charles 850
Dodd, William 850
Doddridge 850
Dodo, 1 851
Dodo, 2 851
Dodo, 3 851
Dodwell 851
Doederlein 852
Doeg 852
Dog 852
Dogma 854
Dogmatic Theology (A.J.S.) 854
Doleful creatures 857
Dolesus 857
Dome (G.F.C.) 857
Dominic (A.J.S.) 857
Dominica in Albis 857
Dominicale 858
Dominical Letter 858
Dominicans (A.J.S.) 858
Dominican Nuns (A.J.S.) 859
Dominicum 859
Dominis De 859
Dominus vobiscum 859
Domitian (A.J.S.) 860
Domitilla 860
Domus 860
Domus Basilicæ 860
Domus Columbæ 860
Domus Dei 860
Donaldson 860
Donaria 861
Donation of Constantine (A.J.S.) 831
Donatists (H.H.) 861
Donative 865
Donato 863
Donker Curtius (J. P.W.) 863
Donne (H. C.W.) 863
Donnellan Lecture 864
Donoso-Cortes (G. F. H.) 864
Donum Superadditum 865
Doomsday 865
Door 865
Door-keeper 867
Door-keepers (Christian) 867
Door-post 867
Doors of the Church 868
Dophkah 868
Dora 868
Doras 869
Dorcas Society 869
Dorchester 869
Doris 869
Doros ....Page 869
Dorotheus the Egyptian 869
Dorotheus of Antioch 869
Dorotheus of Tyre 869
Dorotheus of Palestine 869
Dorsche 869
Dort, Synod of 870
Dortus 873
Dorymenes 873
Dositheus, 1 873
Dositheus, 2 873
Dositheus, 3 873
Dositheus, 4 873
Dositheus the Samaritan 873
Dositheus the Russian 873
Dositheus of Jerusalem 873
Dothaim 873
Dothan 873
Doty (W.J.R.T.) 874
Douay 874
Doubts 874
Double Sense 874
Doubt 876
Doubts, Dissolving of 876
Douglas 876
Dougharty 876
Doughty, John 876
Doughty, Samuel 876
Douglas, Gawin 876
Douglas, John 877
Douglass 877
Dove 877
Dove-cot 878
Doves' Dung 879
Dove, John 880
Dow, Daniel 880
Dow, John G. 880
Dow, Lorenzo 880
Dowdall 881
Down 881
Downame 881
Downe 881
Dowry 881
Doxology 881
Doyle 881
Doyly 882
Drabicius 882
Drachma 882
Draconites 882
Draconitis (A.J.S.) 882
Dracseke 882
Drag 882
Dragon 883
Dragon at Babylon 883
Dragon (in symbolism) ....Page 883
Dragon, Order of the (A.J.S.) 883
Dragonnades 884
Dram 884
Draught 884
Draught-house 884
Drawer of water 884
Dream 885
Dregs 886
Drelincourt 886
Dress 886
Drew 892
Drexelius 892
Drey 892
Driedo 893
Driessen (J.P.W.) 893
Drink 893
Drink, Strong 893
Drink-offering 894
Dromedary 894
Dromtheim (A.J.S.) 896
Dropsy 896
Dross 896
Droste zu Vischering (A.J.S.) 896
Drought 896
Drove 897
Drown 897
Droz (A.J.S.) 897
Drunk 897
Druids (J.W.M.) 897
Drummond 899
Druses 899
Drusilla 902
Drusius 902
Druthmar 902
Drysdale 903
Dualism 903
Du Bartas 904
Dublin 904
Dublin MS. 904
Dubno 905
Dubois 905
Dubourg 906
Duc 906
Ducange 906
Duchal 907
Duchatel 907
Duche 907
Duchobortai (F.W. F.) 907
Duchouny (F. W. F.) 907
Dudgeon 908
Dudith 908
Duffield 908
Dugdale 908
Dugnet 908
Du Halde 909
Duke 909
Dulcimer ....Page 909
Dulcinists 909
Dulia 910
Dumah, 1 910
Dumah, 2 910
Dumb 910
Dumont 911
Dumplers 911
Dunash ben-Labrath (J.H.W.) 911
Dunash ben-Tamim (J.H.W.) 911
Dung 911
Dung-gate 912
Dunglill 912
Dungal 912
Dungeon 912
Dura 913
Durham 913
Dunin (A.J.S.) 913
Dunn 914
Duns Scotus 914
Dunstan 916
Dunster 916
Dunton 916
Dunwody 916
Duperron 916
Dupin 916
Du Plessis-Mornay (J.N.P.) 917
Duppa 918
Duran (J.H.W.) 918
Durand, David 918
Durand, François J. 918
Durand, Guillaume 919
Durand, De Saint-Pourçain 919
Durell 919
Dürer (A.J.S.) 919
Durham 920
Durry 920
Dust 921
Dutens 921
Dutoit (J.H.W.) 921
Dutton, Aaron 921
Dutton, Matthew R. 921
Dutton, Samuel W. S. 921
Duty 922
Dwelling 923
Dwight, Hobart 923
Dwight, Louis 923
Dwight, Sereno E. 924
Dwight, Timothy (T.W.) 924
Dwight, William T. 924
Dye 924
Dyed Attire 924

END OF VOL. II.

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